

2019

# DRIVING PRODUCTIVITY AND INNOVATIVE SOLUTIONS

- PRE- AND POST-WELD TREATMENT
- CUTTING · GRINDING · BLENDING
- SANDING · FINISHING · BRUSHING
- TOOLING · POWER TOOLS
- DEGREASING · LUBRICATING



**WALTER**  
Surface Technologies

Only the best.™

# HELPING CUSTOMERS WORK BETTER DAY AFTER DAY **THAT'S WHAT WE DO**

Walter Surface Technologies provides high productivity abrasives, power tools, tooling, chemical tools and environmental solutions to the metalworking industry. We have done this since 1952. To help you work better, we developed our Partnership in Productivity program, which is dedicated to safety and productivity.

This encompasses our Bucket Program, Productivity Reports, Safety Seminars and Product Demonstrations – all designed to help our customers work better and safer. We continuously improve our customer support capabilities so that we can continue to help workers around the world.

## **PROVIDED SOLUTIONS**

- Pre- and post-welding
- Cutting
- Grinding
- Blending
- Sanding
- Finishing
- Brushing
- Tooling
- Power tools
- Cleaning and degreasing
- Lubricating



# PARTNERSHIP IN PRODUCTIVITY PROGRAMS

## CHEMICAL AUDITS AND PROCESS OPTIMIZATION

*Increased productivity and safety through professional audits*

Walter technicians analyze your contaminants and cleaning processes and recommend ways to improve efficiency and productivity. We provide a detailed cost analysis report to help you make informed decisions. Our representatives are trained professionals ready to listen. They make suggestions, demonstrate products, and let you see for yourself how well Walter products work. Chemical audits help consolidate product requirements and optimize inventory.



## SAFETY SEMINARS AND INDUSTRY TRAINING

*Because health and safety are top priority*

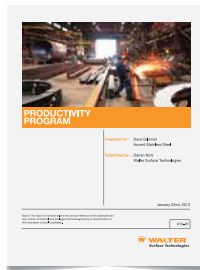
As an addition to Walter's value-added services, we offer FREE Safety Seminars to encourage a safer work environment. Whether it is the Abrasives Safety Seminar or the Chemical Safety Seminar that you are interested in, Walter works with you to customize the perfect training for your team. We provide hands-on training at our fully-equipped campus so your team can innovate and operate safely. While training, you will work with our professional Product Management Team.



## PRODUCTIVITY REPORTS

*Working to positively impact your business*

Accompanying every Bucket Program analysis, a detailed productivity report comparing Walter products versus competitive products in terms of yearly usage, removal, labour time and cost, product life and product cost. The goal of the productivity report is to provide you with all the facts in hand, so that you can optimize your productivity and make adjustments that will positively impact your business.



## THE BUCKET PROGRAM

*Evaluation of cost savings potential and improved worker safety*

Walter will assist in optimizing your workflow and cost savings by analyzing your abrasive and tooling usages and work processes through our Bucket Program. Based on our analysis, we will be able to make recommendations on how you can improve efficiency, reduce abrasive costs, improve productivity and encourage safer working habits, maximizing every dollar spent on consumables.



## PRODUCT DEMONSTRATION

Our team is trained to listen and provide innovative solutions that answer your specific needs. With our mobile product demonstration trucks, Walter's team can easily go to your facility and help make the fabricating and finishing process more efficient, reducing both abrasive spend and overall production costs.



## THE MONEY MAKER GUARANTEE

Walter's money maker guarantee certifies that all Walter products are designed, manufactured and sold with our total commitment in saving time, lasting longer and making money for you. Your total satisfaction is paramount to us, which is why we will reimburse you for your original purchase price\*. That is our guarantee.

\* Walter will reimburse up to \$1000 via free products if you are not completely satisfied.



# NEW PRODUCTS FOR 2019

TO DISCOVER MORE ABOUT THESE NEW PRODUCTS GO TO THEIR SPECIFIC PAGE, INDICATED WITH THIS SYMBOL



## ENDURO-FLEX ALU™

*High-performance flap disc for aluminum surfaces*

Get the highest removal rate in the industry and exceptional performance on non-ferrous alloys and heat-sensitive metals. Enduro-Flex ALU's superior zirconia alumina grain blend optimizes blending and finishing performance on virtually any aluminum surface.



## STRAIGHT-MATE™

*The ultimate straight grinder and lightweight polishing and buffing tool*

The Straight-Mate™ packs a punch as the ultimate lightweight straight grinder with Walter's Dynamax™ variable speed control and RPM range of 1,600 to 4,800. A versatile grinding, polishing and buffing tool.



## E-WELD PLASMA™ PUMP SPRAYER

*For use with E-WELD Plasma™ for wet or dry cutting tables*

Get great results faster with Walter's air powered, easy-to-clean pump sprayer. Built with a superior design and a pressure gauge for high performance and easy application without a mess.



## COLD SHOCK™

*Seized parts are no match for fast penetrating Cold Shock™*

Cold Shock™ is a high-tech lubricant that frees corroded and seized parts by creating a sudden, shock-freezing effect to -31°F. Cold Shock™ penetrates micro fissures to loosen nuts, bolts, studs, pins and other seized parts in an instant.



## ICECUT™ 250P

*Pipe application and curved surface-ready*

The powerful and versatile ICECUT™ 250P sets up fast and is uniquely designed to make short work of pipe-related jobs with the added safety and convenience of permanent pivoting magnet.



## ICECUT™ 250

*Powerful, versatile and intuitive magnetic drilling*

The powerful, intuitive and lightweight ICECUT™ 250 is a truly do-it-all machine, especially for its size. Dynamax™ control for smooth drilling and reversible speed for tapping holes. Ultimate versatility.



# THE WALTER ABRASIVES SELECTOR APP IS HERE.

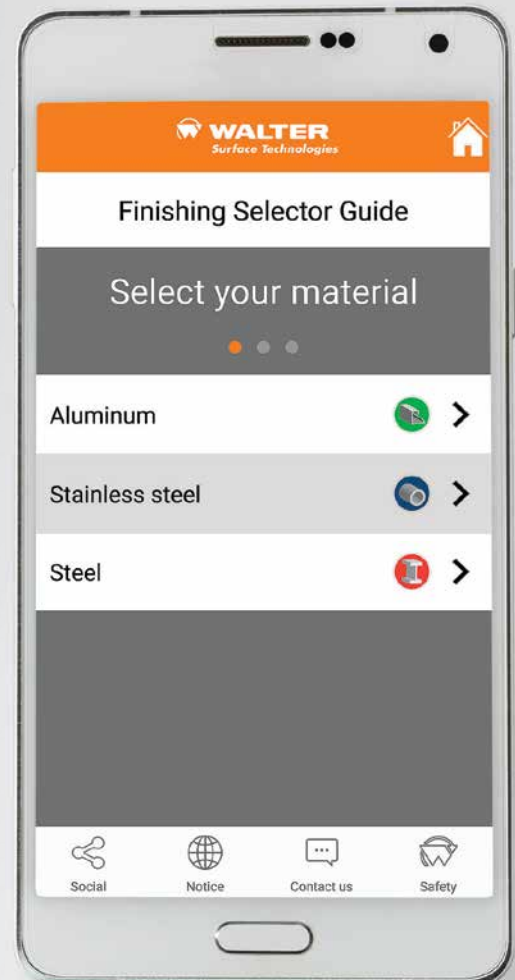
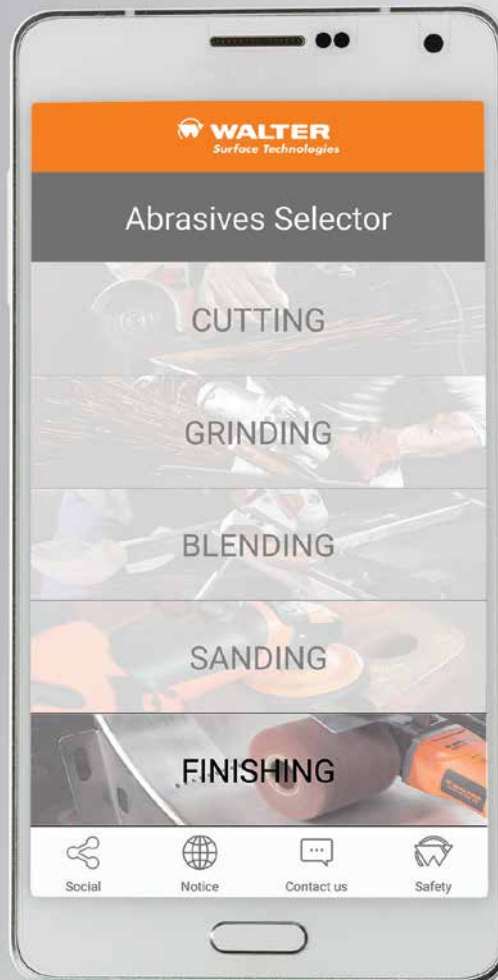
The finishing solutions you need,  
right at your fingertips.

*The Walter Abrasives Selector app will help you find the right finishing solution in just a few clicks.*

- Keep track of your preferred solutions by saving, emailing, or sharing product summaries in PDF format.
- Improve your finishing results by watching our step-by-step videos packed with expert tips.

Find the perfect solution for every job, and learn how to achieve the perfect finish, all in one place.

*Download the Walter Abrasives Selector app today.*



# TABLE OF CONTENTS

Series	Page	Series	Page
	New for 2019		4
	Safety First!		9
	Walter icons legend		10
<b>01</b>	<b>PRE- AND POST-WELDING TREATMENT</b>	<b>03</b>	<b>GRINDING</b>
			<b>49</b>
	SURFOX weld cleaning		Grinding I Wheel selection chart
	SURFOX 305 MIG & TIG and accessories		50
54-D	SURFOX 205 and accessories	08-P	XCAVATOR grinding wheels with ComfortMax Technology
54-D	SURFOX Mini and accessories		51
54-D	SURFOX-G, SURFOX-T and SURFOX-N solutions	08-B	1/4" HP grinding wheels
54-A	SURFOX Pre-Weld, SURFOX Renew and SURFOX Shine cleaners and protectors		52
54-A	SURFOX accessories	08-B	1/8" HP COMBO cutting and grinding wheels
			53
54-B	SURFOX marking kits and accessories	08-K	HP XX grinding wheels
			54
54-A/54-B	Surface measuring systems	08-F	STAINLESS grinding and cutting wheels
			56
54-T	SURFOX Smart Passivation tester	08-L	ALU grinding and cutting wheels
			57
53-F	Anti-spatter Solutions	12-A/12-B	HP cup wheels
			57
53-F	E-WELD Nozzle protector	08-N	PIPEFITTER pipe grinding wheels
			58
53-F	E-WELD Gel anti-spatter	08-D/08-E	CONCRETE grinding and cutting wheels
			59
53-F	E-WELD Plasma	12-C	Plugs and cones
			59
53-F	E-WELD anti-spatter emulsion	12-D	Mounted points
			60, 61
53-F	E-WELD 3 anti-spatter solution	12-E	Bench grinding wheels
			62
53-F	E-WELD 4 premium anti-spatter emulsion	<b>04</b>	<b>BLENDING</b>
			<b>63</b>
53-L	Industrial pump sprayers		Blending I Wheel selection chart
			64
53-L	Refillable trigger sprayers	15-U/06-U	ENDURO-FLEX ALU flap discs
			65
<b>02</b>	<b>CUTTING</b>		ENDURO-FLEX comparison test
			66
	ZIP WHEEL I Wheel selection chart	06-B/15-R	ENDURO-FLEX flap discs
			67
	ZIP WHEEL I Features	06-F/15-Q	ENDURO-FLEX Stainless flap discs
			68
11-H	ZIP TITAN cut-off wheels	15-I	ENDURO-FLEX 2-in-1 finishing discs
			69
11-T	ZIP WHEEL cut-off wheels	15-I	ENDURO-FLEX 2-in-1 TURBO finishing discs
			69
11-T	ZIP WHEEL SPIN-ON cut-off wheels		ENDURO-FLEX Turbo comparison test
			70
11-T	ZIP+ XTRA cut-off wheels	06-A	ENDURO-FLEX Turbo flap discs
			71
11-R	TOUGH CUT cut-off wheels	15-T	ERGO FLEX abrasives
			72
11-T	ZIP One cut-off wheels	15-L	FLEX CUT flexible grinding wheels
			73
11-F	ZIP STAINLESS cut-off wheels	15-L	FLEX CUT MILL SCALE flexible grinding wheels
			74
11-U	ZIP ALU cut-off wheels	<b>05</b>	<b>SANDING</b>
			<b>75</b>
11-T	COMBO ZIP cut-off wheels		Sanding I Wheel selection chart
			76
11-L	ZIP cut-off wheels	15-X	COOLCUT XX sanding discs
			77
11-U	ZIP ALU cut-off wheels	15-X	COOLCUT XX Quick-Change sanding discs
			78
10-H/10-L		15-D/15-M	Backing pads
			79
10-P/10-Q	CHOPCUT cut-off wheels	15-P	TOPCUT sanding discs
			80
10-A/10-B/10-C	RIPCUT cut-off wheels	15-C	COOLCUT sanding discs
			81
11-A/11-D	PORTACUT cut-off wheels	15-G	COOLCUT flap wheels
			82
11-V	RAILCUT II cut-off wheels	15-E	TWO-IN-ONE flap wheels
			82
		15-F	COOLCUT flap wheels
			83
		07-A/07-B	BLENDX hand finishing abrasives
			84
		14-A/14-C	COOLCUT shop rolls and sheets
			85

Series		Page
<b>06</b>	<b>FINISHING</b>	<b>87</b>
	<b>Linear surface finishing system</b>	88
30-A	Line-Mate finishing system	89
07-J	COOLCUT flap drums	89
07-K	Two-In-One Drums and Two-In-One Turbo Drums	89
07-M/07-T	BLENDEx drums, BLENDEx HD drums and buffing drums	90
07-T	Inox Tape	90
07-T	High polish drum belts	90
07-F/07-H	Pneumatic drums and drum belts	91
07-T	Instant Polish drum belts	92
07-H/07-T	T-lock belts	92
07-H	Hand Rail Finishing Kit	92
07-L	Flex drums and FX drums	93
13-M	Linear crimped brushes	93
30-A	Line-Mate III Kit	93
30-A	Rail-Mate System	94
14-X	COOLCUT XX belts	95
07-D	BLENDEx belts	95
07-T	Rail-Mate polishing belts and polishing pastes	95
14-B/14-D/07-D	Coated and non-woven abrasive file belts	96
	<b>Circular Quick-Step finishing system</b>	97
07-Q	QUICK-STEP metal finishing system and backing pads	98
07-Q/07-X	QUICK-STEP FX and Flex flap discs	99
15-V/07-Q	QUICK-STEP XX sanding discs, interface pads	100
07-T	Polishing Pastes	100
07-R/07-T	QUICK-STEP Blendex and polishing discs	101
07-U	BLENDEx U discs, wheels, mounted points	102
	<b>Polishing Flap Discs</b>	
07-T	INSTANT POLISH Flap discs	103
07-T	ULTIMATE SHINE Flap discs	103
07-T	FELT CUP discs	103
07-T	Polishing Pastes	103
07-X	FX Cleaning abrasives	104
07-X	FX Stainless Cup Wheel	104
07-X	FX Stainless abrasives	105
07-U	Blendex U Turbo	105
07-Q	Quick-Step starter kit	105
30-A	Ulti-Mate finishing system	106
	<b>TWIST surface finishing system</b>	107
04-X	TWIST backing pads	107
04-A	TWIST flap discs	107
04-C	TWIST Coolcut XX	108
04-D	TWIST Topcut	108
04-G	TWIST Blendex	108
04-U	TWIST Blendex U	109
04-T	TWIST Felt polishing discs	109
04-L	TWIST FX cleaning discs	109
04-Z	TWIST starter kits	109

Series		Page
<b>07</b>	<b>BRUSHING</b>	<b>111</b>
	High performance power brushes chart introduction	112, 113
13-D/13-E/		
13-F/13-G	Wire cup brushes	114, 115
13-J/13-K/13-L	Wire wheel brushes for angle grinders	116
13-H	Saucer-cup brushes for angle grinders	117
13-C	Mounted wire brushes for die grinders	118, 119
13-M	Wire brushes for linear finishing tools	119
13-B	Wire wheel brushes for bench and pedestal grinders	120
<b>08</b>	<b>TOOLING</b>	<b>121</b>
	High performance drill bit selection chart introduction	122
01-A	SST118° Jobbers length, Fractional, Quick Shank drill bits	123
01-A	SST+ 135° Jobbers length, Fractional, Round Shank drill bits	124
01-H	SST+ 135° Stub length, Fractional, Quick Shank drill bits, Round Shank drill bits	125
01-R	SST+ 135° 3/8" Reduced Shank, Fractional, Round Shank drill bits	126
01-M	SST+ 135° 1/2" Prentice, Fractional, Round Shank drill bits	126
01-E	Drill Bit sets	127
01-W	Multi-Step drill bits with ICECUT coating	128
01-V	Carbide burrs	129, 130
	<b>High performance annular cutters</b>	131
53-A/53-B/53-C	Annular cutters selection chart and lubricants	132
05-A/05-E	SST core cut annular cutters	133
05-B/05-F	ICECUT annular cut cutters	134
05-D	Carbide core cut annular cutters	135
05-Z	Pilot pins and adaptors	136
	<b>Magnetic drilling units</b>	
39-D	ICECUT 100 and ICECUT 200	137, 141
39-D	ICECUT 250 and ICECUT 250P	138, 143
39-D	ICECUT 300 and ICECUT 400	139, 142
	ICECUT magnetic drills systems	144
38-A	Straight Drill 716-B – 5/8"	144
	Conversion tables and speed charts	145-148

Series		Page
<b>09</b>	<b>POWER TOOLS</b>	<b>149</b>
	General grinder features	150, 151
34-A	ZIP WHEEL CUTTER, accessories and kit	152, 153
30-A	4.5" Angle Grinders	154
30-A	5" Angle Grinders	155
30-A	6" Angle Grinders	156
30-A	IRONMAN Grinders	157
30-A	MAXI Grinders, Maxi 7", Maxi 9"	158
30-A	STRAIGHT-MATE straight grinder	159
30-A	SANDER-POLISHER, QUICK-STEP Finisher and QUICK-STEP Finisher system	160
30-A	SANDER-POLISHER, QUICK-STEP Big Buff III and QUICK-STEP Big-Buff III system	161
30-A	Ulti-Mate fillet weld grinder system	162
30-A	Rail-Mate tube/Pipe sander system	163
30-A	Quick-Step Line-Mate III drum sander	164
30-A	POINT Grinder, DIALSPEED – 6141	165
30-A	STRAIGHT GRINDER, DIALSPEED – 6145	166
<b>10</b>	<b>INDUSTRIAL MAINTENANCE REPAIR AND OVERHAUL (MRO)</b>	<b>167</b>
	<b>Fast Evaporating Refillable Cleaning and Degreasing</b>	
53-C	AIR FORCE AF-PL	168
53-C/53/M	AIR FORCE AF-PL Start-Up Packages	169
	<b>Fast Evaporating Cleaning &amp; Degreasing</b>	
53-C	SLAP-SHOT	170
53-C	SLAP SHOT-PL	170
	<b>Electronic Contact Cleaning</b>	
53-C	CONTACT CLEAN	171
	<b>Food Grade Lubricants</b>	
53-D	FOOD ZONE	172
53-D	FOOD ZONE V	172
	<b>Industrial Lubricants</b>	
53-E	OPEN GEAR	173
53-D	CHANG CHANG	173
53-D	HANG-ON	174
53-D	BOLT-OUT	174
53-D	COLD SHOCK	175
53-D	ROCK'N ROLL	175
	<b>Cutting Fluids</b>	
53-B	COOLCUT	176
53-C	COOLCUT S-30	177
53-C	COOLCUT S-50	177
53-B	ALUCUT	178
53-B	STAINLESSCUT	178
53-C	ICECUT	179
53-A	TAPCUT	179
	<b>Corrosion Protection</b>	
53-H	ZINC 100	180
53-H	ZINC 200	180
53-H	SHIELD PRO	180

Series		Page
<b>11</b>	<b>BIO-CIRCLE PRODUCT LINE</b>	<b>181</b>
	Cleaning basics	182
	Selection chart/Cleaner characteristics/ Cleaner approvals	183-187
	Bio-Circle VOC Guide	188
	Liquid sizing	189
	<b>Bio-Renewable and Bio-Remediating Solutions</b>	
53-G	CB 100	191
53-G	CB 100 ALU	191
55-A	BIO-CIRCLE L	192
55-A	BIO-CIRCLE ULTRA	192
55-A	BIO-CIRCLE AERO	193
	<b>Parts Washers and Start-Up Packages</b>	
55-D	BIO-CIRCLE MAXI	195
55-D	Bio-Renewable and Bio-Remediating Packages	195
	<b>Industrial Cleaning and Degreasing</b>	
53-G	UNO S	197
53-G	UNO SF	197
	<b>Star Line of Cleaners and Degreasers</b>	
53-G	STAR 200	198
53-G	ALUSTAR 200	199
53-G	ALUSTAR 300	199
53-G	Corrosion Inhibitor additive	200
53-G	Defoamer additive	200
53-L	Titration Kit	200
53-L	Proportioning System	200
	<b>Stainless Steel Cleaning</b>	
53-G	E-NOX CLEAN	201
53-G	E-NOX SHINE	201
	<b>Rust Removal and Brightening</b>	
53-G	BIO-RUST	202
53-G	POWER CLEANER 100	202
	<b>Paint, Ink, Glue and Adhesive Cleaning</b>	
53-G	SC 400	203
53-G	PRO CLEAN	203
	<b>Pre-Priming and Pre-Shipping</b>	
53-G	FT 100	204
53-G	FT 200	204
	<b>Cleaning, Lubricating and Temporary Protection</b>	
53-X	OMNI	205
	<b>Refillable Cleaning Lubricant and Temporary Protection</b>	
53-M	Air Force OMNI Start-Up Packages	206
53-M	AF-OMNI Refillable Sprayer	207
	Accessories	208
	Index	215



# SAFETY FIRST

## Tips on the safest and most effective use of abrasives and power tools\*



- Disconnect the power tool prior to changing abrasives.
- Inspect the abrasive for any sign of damage. Do not use if damaged.
- Check MAX. RPM on abrasive and check the spindle speed of the tool. Never run an abrasive faster than its MAX. RPM (or M.R.S. = Maximum Rated Speed).
- Mounting: Use only approved mounting hardware for the abrasive at hand. Above all, the clamping hardware must center the wheel securely and provide the required support to the abrasive.
- Abrasives must be used with safety guards in place as indicated on the label. Adjust guards to protect the operator.
- Always wear eye protection. Wear face, body, ear and dust inhalation protection as needed.
- Practice safe working methods: Secure the workpiece, hold the tool firmly, avoid cluttered and badly lit work areas.
- Ensure adequate protection of other workers in the vicinity.
- Do not use abrasives and tools over their rated capacity, follow manufacturer's instructions.
- Service power tools regularly and according to manufacturer's instructions to keep them in good working condition and maintain their performance. Do not use if damaged.

\*Walter abrasives are designed for use as directed in all applicable safety codes, such as CSA, WHMIS, ANSI, OSHA and other regulatory bodies. Always work within these applicable rules and regulations.

## SAFEST AND MOST EFFECTIVE WORK METHODS



### GRINDING

Type 27 depressed center grinding wheels are designed to be used at a 15° to 20° working angle.



### FLEXCUT

FLEXCUT flexible grinding wheels are best used with a working angle of 10° to 15°.



### FLAP DISCS

Flap discs are designed to be used at a working angle of 4° to 10°. Never use flat.



### SANDING DISCS

Fiber backed sanding discs work best at a working angle of 4° to 10°. They must be used on a full size flexible backing pad.



### CUT-OFF WHEELS

Choose direction of cut to present the narrowest cross section of the material to the wheel.

Cut large solids with a moderate rocking motion. Avoid twisting and bending of the wheel in the cut. Do not use a cut-off wheel for deburring unless otherwise specified.



### FLAP WHEELS

Apply moderate working pressure when working with flap wheels – let the tips of the flaps do the work.



### WIRE BRUSHES

Work with the face of a wire brush. Apply moderate working pressure to let the wire tips do the work and prevent excessive bending of the wire.

## STORAGE TIPS FOR ABRASIVE PRODUCTS

- Keep abrasives in their original packaging, to protect them from water and excessive heat.
- Coated abrasives, such as fiber discs, flap discs and cloth belts perform best when stored in an area with 50% humidity at 22 °C (70 °F).

## SAFETY SEMINAR

Walter offers free in-plant safety seminars to promote the safe use of abrasives. Reserve your safety seminar today by calling: **1-866-592-5837**. For more information, visit [walter.com/safety](http://walter.com/safety)

# IMPORTANT

# WALTER ICONS LEGEND

## Materials

Red for steel



Blue for stainless steels and nickel-based alloys



Green for aluminum and non-ferrous metals



Gold for brass



Black for plastic



Purple for cast iron



Gray for concrete and ductile metal



Charcoal for carbide



Titanium



Dark gray for mill scale



Light gray for hard metal



## Wheel grade

Bond type, grain type and grain size

## Warning

When using SPIN-ON quick mounting system

## Dimensions

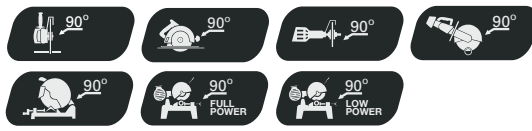
Diameter, thickness, bore

## More information

Consult WALTER website for complete safety information

## Working angle

The only permitted angle for cutting wheels is 90° to the material (Type 1 (EN 41) – flat)



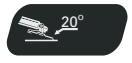
Type 27 / (EN 42) – (depressed centered)



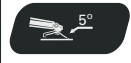
Type 27 combo (cutting and grinding) wheels ideal angle is 90° or 20°



Type 27 grinding ideal angle varies from 15° to 30°



Type 28 ideal angle is lower than 10°



Type 29 ideal angle is 10°



## Simple numbering system

Makes it easy to reorder. Also present in the center of bonded wheels to be readable when wheels are worn-out.

## Maximum speed

RPM (rotations per minute) and m/s (meters per second)

## Compliance

Products manufactured in compliance with European regulation EN 12413 and US regulation ANSI B7.1

## Traceability

Internal code to monitor production for safety

## Restrictions

DO NOT use if damaged



NOT suitable for hand-held grinders



NOT suitable for grinding



DO NOT use for wet grinding or cutting



## Safety

Eyes, face, ears and lungs protection



Hand protection



Always use safety guard



## Walter environmental products - Legend



### Volatile Organic Compounds

Volatile organic compounds (VOCs) are products that contain potentially toxic levels of hazardous materials. Paints, stains and varnishes have long contributed considerably to the prolific release of VOCs. Products where you see the VOC-free logo guarantee that they contain no VOCs.



### CAS - Clean Air Solvent Certification

The Clean Air Act Solvent Certification is delivered by the SCAQMD (South Coast Air Quality Management District in California). They are committed to protect the health of residents of this area and are among the most strict around the world.



### Nonfood Compounds Program

The global food industry relies upon nonfood compounds to facilitate the efficient processing, handling and storage of food throughout the supply chain. Nonfood compounds include such substances as cleaners, sanitizers, boiler compounds and lubricants.



### California Proposition 65 Warning

WARNING: This product can expose you to chemicals that are known to the State of California to cause cancer and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 01

## PRE- AND POST-WELDING TREATMENT



# SURFOX WELD CLEANING



VISIT [SURFOX.COM](http://SURFOX.COM)  
to register your SURFOX SYSTEM  
and get 6 months extended warranty

The use of SURFOX systems is a recognized method for achieving Chemical Passivation on Stainless Steel Parts, as defined by the ASTM 967-05 specification.

### Features and benefits

- ▷ **Safer:** SURFOX cleaning electrolytes are NSF registered and authorized for use in food plants
- ▷ **Faster:** Uniform cleaning and passivation at a rate of 3 to 5 feet per minute
- ▷ **Easy:** Pour your SURFOX electrolyte into the reservoir and start cleaning

## Electrochemical Weld Cleaning Systems for Stainless Steel and Aluminum

The SURFOX electrochemical weld cleaning system is a highly effective method for removing heat tint from welded stainless steel and aluminum (TIG, spot and MIG), without altering the surface of the parent material. SURFOX promotes the formation of a uniform and durable chromium oxide passive layer to protect stainless steel against corrosion.

### Passivation

*Why is passivation important?*

Stainless steel is naturally able to resist corrosion thanks to a passive chromium oxide layer that forms on its surface. The formation of this protective layer is called passivation. Abrasion or excessive heat (caused by welding) will destroy this protective layer and expose the metal to corrosion. In order to fully restore the corrosion resistance of stainless steel, heat tint and other surface contaminants must be removed. SURFOX is a safe, effective and fast electrochemical cleaning system. The rate of cleaning welds with this system is between 3-5 feet per minute. The SURFOX system combines both the cleaning power of electrical current and the passivation properties of electrolyte cleaning solutions. Passivation begins instantly after the SURFOX electrochemical cleaning process is completed. It usually takes between 24 to 48 hours for passivation to be stable and complete.

## How to choose a SURFOX system

Material	Welding process	Work environment	Application	System
<p>Stainless Steel or Aluminum</p>	MIG and TIG	Production	Cleaning, electro polishing, marking and etching	<b>SURFOX 305</b> 
<p>Stainless Steel or Aluminum</p>	TIG (only)	Production	Cleaning, electro polishing, marking and etching	<b>SURFOX 205</b> 
<p>Stainless Steel or Aluminum</p>	TIG (only)	Portable	Cleaning, electro polishing, marking and etching	<b>SURFOX Mini</b> 

# SURFOX™ 305 MIG & TIG

The industry's safest and fastest MIG & TIG weld cleaning system

The SURFOX™ 305 is our patented electrochemical weld cleaning system for stainless steel and aluminum. It quickly and easily removes heat tint from the heat-affected zone of MIG, TIG and spot welds, cleaning the surface and allowing passivation on stainless steel to begin without altering the surface finish. The integrated tank and flow-through system ensures the electrolyte solution is delivered directly to the workpiece, minimizing the potential for spillage or cross-contamination. The dynamic current control also ensures that the electrical current will not cause micropitting on the surface.



## Features and benefits

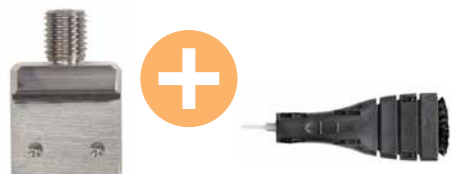
- ▷ Easily cleans MIG welds, TIG & spot welds
- ▷ Exclusive quick-change brush system to easily change out accessories and reduce downtime
- ▷ Ability to clean larger and hard to reach areas with our new brushes
- ▷ Integrated reservoir reduces the potential for contaminating or spilling the electrolyte solution
- ▷ AC mode for cleaning or marking
- ▷ DC mode for polishing or etching
- ▷ Built-in vapor dispersion system

Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
305	54-D 315	120 V, 50/60 Hz, 8.0 A	12-30 V AC/DC, 30 A max	18.50"	9.75"	15"	64.2 oz	13'	44 lbs

**Each unit comes with:** 1 x Tungsten insert (54-B 143), 3 x standard high conductivity cleaning pads (54-B 026), 1 x Teflon ring (54-B 002), 1 x SURFOX 305 wide carbon fiber brush (54-B 155), 1 x SURFOX 305 narrow carbon fiber brush (54-B 156), 1 x adaptor for SURFOX 305 brush (54-B 149), 1 x ground cable (48-R 136), 1 x user guide, 1 x carrying case

## SURFOX 305 ACCESSORIES

Recommended for cleaning MIG welds



**Reusable brush adaptor for large wand**  
Order No.: 54-B 149

**Wide carbon fiber brush with removable rings**  
5 per package  
Order No.: 54-B 155

Recommended for cleaning TIG welds



**Tungsten insert 90°**

**Standard cleaning pad**

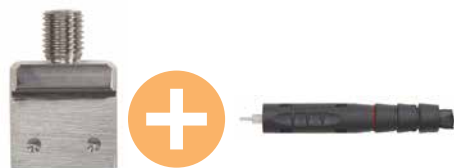
Order No.: 54-B 143

46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 133 and 54-B 036  
10 per package plus clamp ring  
Order No.: 54-B 026

Replacement wand assemblies

4 m (13') long  
Order No.: 54-B 125  
9 m (30') long  
Order No.: 54-B 126

Recommended for tight corners



**Reusable brush adaptor for large wand**  
N° de comm.: 54-B 149

**Carbon fiber brush with removable rings**  
5 per package  
Order No.: 54-B 156

Recommended for renewing large surfaces



**Large graphite insert**

**Large pad for graphite insert**

45 mm W - Ideal for surface renewing or restoring, and to clean the back of MIG welds  
Order No.: 54-B 009

5 per package  
Order No.: 54-B 052



## SURFOX™ 205

For TIG and spot welds on stainless steel and aluminum

This industrial weld cleaning system features extensive safety and productivity features to minimize consumable use and provide economical cleaning and passivation of stainless steel TIG & spot welds. The SURFOX™ 205 has been engineered to clean MIG, TIG and spot welds on aluminum, and with the use of special marking kits (sold separately), it can also mark stainless steel, aluminum and titanium surfaces. This is a durable production model designed for every day use.



### Features and benefits

- ▷ *Built-in fume elimination system (requires a compressed air line)*
- ▷ *Switchable output:*
  - AC Mode: cleaning & marking
  - DC Mode: polishing & etching
- ▷ *Redesigned pump and tank for maximum efficiency*
- ▷ *New Quick-Connect system allows you to quickly change between 13 feet and 30 feet long wand assemblies (30 foot wand sold separately)*

Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
205	54-D 215	120 V, 50/60 Hz, 4.0 A	12-30V AC/DC, 15A max	18 1/2"	9 3/4"	15"	64.2 oz	13'	41 lbs

**Each unit comes with:** 1 x Tungsten insert (54-B 143), 3 x standard high conductivity cleaning pads (54-B 026), 1 x Teflon ring (54-B 002), 1 x carbon fiber brush (54-B 158), 1 x brush adaptor (54-B 149) 1 x ground cable (48-R 136), 1 x user guide, 1 x carrying case

## SURFOX 205 ACCESSORIES

Recommended for cleaning TIG welds



**Tungsten insert 90°**  
Order No.: 54-B 143

**Standard cleaning pad**  
46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 133 and 54-B 036  
10 per package plus clamp ring  
Order No.: 54-B 026

Recommended for renewing large surfaces



**Large graphite insert**

45 mm W - Ideal for surface renewing or restoring, and to clean the back of MIG welds  
Order No.: 54-B 009

**Large pad for graphite insert**  
5 per package  
Order No.: 54-B 052

Recommended for tight corners



**Reusable brush adaptor for large wand**  
Order No.: 54-B 149

**Carbon fiber micro-brush**  
Order No.: 54-B 158

Replacement wand assemblies



4 m (13') long  
Order No.: 54-B 125  
9 m (30') long  
Order No.: 54-B 126

# SURFOX MINI™

The ideal unit for field or repair work

The ergonomically designed SURFOX Mini™ comes equipped with a variable power setting that ensures a perfect finish on even the most delicate surfaces. This unit utilizes refillable electrolyte cartridges instead of an integrated tank to reduce the weight and increase portability. Excellent for use on repairs, touchups and small jobs. This newly redesigned unit can clean TIG or spot welds on stainless steel and MIG, TIG or spot welds on aluminum. It can also mark stainless steel, aluminum and titanium surfaces with the use of a SURFOX marking kit.

## Features

*The SURFOX Mini comes equipped with a unique cartridge refilling pump. You can easily refill cartridges and save money by buying SURFOX electrolyte solutions in bulk packaging.*

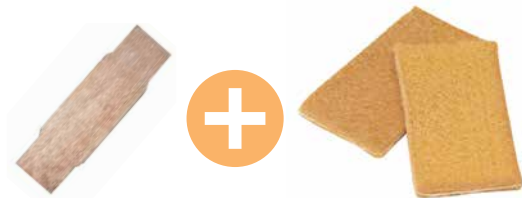


Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
MINI	54-D 055	120 V, 50/60 Hz, 4.0 A	12-30 V AC/DC, 15 A max	12"	4.5"	8.86"			8.4 lbs

**Each unit comes with:** 1 micro-wand (54-B 033), 1 x micro-wand holder (48-R 286), 1 x micro wand holder extension sleeve (48-R 460), 1 x narrow tungsten insert (54-B 038), 1 x narrow cleaning pad (54-B 028), 1 x teflon ring (54-B 020), 1 x carbon fiber micro-brush (54-B 157), 1 x adaptor for micro-brush (54-B 150), 1 x manual refilling pump (54-B 092), 1 x ground cable (48-R 283), 1 x user guide, 1 x carrying case

## SURFOX MINI ACCESSORIES

Recommended for cleaning TIG welds



**Narrow tungsten insert**  
Order No.: 54-B 038

**Narrow cleaning pad**  
46 mm L x 24 mm W x 2 mm T  
Use with insert 54-B 038  
10 per package plus clamp ring  
Order No.: 54-B 028

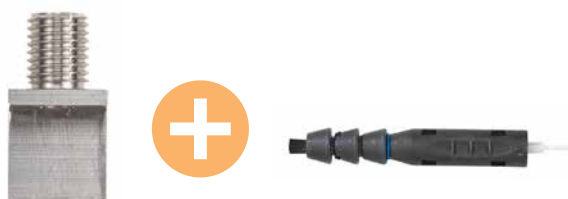
Recommended for renewing large surfaces



**Large graphite insert**  
35 mm W - Ideal for surface  
renewing or restoring, and to clean  
the back of MIG welds  
Order No.: 54-B 048

**Large pads for large graphite  
insert for SURFOX Mini**  
Pack of 10 with O-ring  
Order No.: 54-B 051

Recommended for tight corners



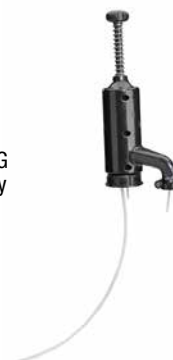
**Spare brush adaptor  
for Micro-Wand**  
Order No.: 54-B 150

**Carbon fiber  
micro-brush**  
5 per package  
Order No.: 54-B 157

Replacement pump for refilling cartridges of  
SURFOX electrolytes

### Cartridge refiller

Use this pump to buy SURFOX-T or SURFOX-G in bulk packaging and save even more money (included with every new SURFOX MINI; replacement part only)  
Order No.: 54-B 092



# SURFOX SOLUTIONS



## SURFOX-G™

pH neutral electrolyte solution

Must be used with the high conductivity pads: 54-B 026, 54-B 027 or 54-B 028.

**NSF category A3, registration #146974**

- ▷ Great for cleaning TIG and spot welds on stainless or aluminum
- ▷ pH neutral, non acidic
- ▷ Less fumes than acid-based solutions
- ▷ Safe alternative to pickling paste and strong acids
- ▷ Non-corrosive
- ▷ Salt-based
- ▷ Compatible with all SURFOX machines
- ▷ Lower environmental impact

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Cartridge	100 ml	3.4 oz	54-A 061	S-10E	4
Liquid	1.5 L	51 oz	54-A 065	S-10E	1
Liquid	5 L	1.3 gal	54-A 066	S-10E	1
Liquid	20 L	5.2 gal	54-A 067	S-10E	1
Liquid	208 L	55 gal	54-A 068	S-10E	1

**Color:** Translucent



### Tech tip!

Use with SURFOX-T drum pump 54-B 106



## SURFOX-T™

Heavy-duty formula

Provides faster cleaning action and more thorough cleaning on MIG welds.

**NSF category A3, registration #142984**

- ▷ Quickly cleans all MIG and TIG welds on stainless steel or aluminum
- ▷ Safe alternative to pickling paste and strong acids
- ▷ SCAQMD compliant

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Cartridge	100 ml	3.4 oz	54-A 001	S-01E	4
Sprayer	500 ml	16.9 oz	54-A 003	S-01E	12
Liquid	1.5 L	51 oz	54-A 005	S-01E	1
Liquid	5 L	1.3 gal	54-A 006	S-01E	1
Liquid	20 L	5.2 gal	54-A 007	S-01E	1
Liquid	208 L	55 gal	54-A 008	S-01E	1

**Color:** Translucent



## SURFOX-N™

Cleaning and neutralizing formula

**NSF category A1, registration #142985**

- ▷ Must be used to clean and neutralize SURFOX electrolyte solutions
- ▷ SCAQMD compliant
- ▷ Prevents the formation of salt deposits (hazy white discoloration) around welds cleaned with SURFOX



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 023	S-03E	12
Liquid	3.78 L	1 gal	54-A 025	S-03E	1
Liquid	5 L	1.3 gal	54-A 026	S-03E	1
Liquid	20 L	5.2 gal	54-A 027	S-03E	1
Liquid	208 L	55 gal	54-A 028	S-03E	1

**Color:** Translucent



## SURFOX™ PRE-WELD

Fast drying surface cleaner

Formulated for preparing and degreasing metal surfaces prior to welding.

### Benefits

- ▷ *Reduced VOC content when compared to solvent-based surface cleaners*
- ▷ *Ready-to-use formula*

### Features

- ▷ *Replacement for surface preparation solventssuch as acetone*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 073	S-13E	12
Liquid	5 L	1.3 gal	54-A 076	S-13E	1
Liquid	20 L	5.2 gal	54-A 077	S-13E	1
Liquid	208 L	55 gal	54-A 078	S-13E	1

**Color:** Orange

⚠ *California Proposition 65 Warning (See page 10 for details).*

## SURFOX™ RENEW

High strength stainless steel cleaner

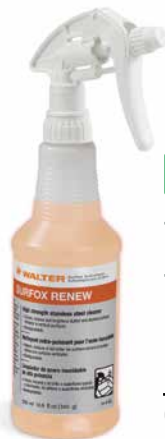
Highly concentrated, gel-like cleaner for removing rust and mineral deposits from stainless steel. Removes contaminants without attacking the parent material. Must be neutralized with SURFOX-N after use.

### Benefits

- ▷ *Gel formulation allows the product to cling to inclined surfaces*
- ▷ *VOC-free, solvent-free, non-flammable, biodegradable surfactants*
- ▷ *Removes rust, oxidation, mineral deposits and light grease*

### Features

- ▷ *Concentrated formula – can be diluted up to 1:40 with water*
- ▷ *Ideal for cleaning of food processing and pharmaceutical equipment*



### Tech tip!

Use with white Blendex hand pads (07-A 500) to easily remove rust and other surface contaminants

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 083	S-11E	12
Liquid	3.78 L	1 gal	54-A 085	S-11E	1
Liquid	20 L	5.2 gal	54-A 087	S-11E	1
Liquid	208 L	55 gal	54-A 088	S-11E	1

**Color:** Light orange

⚠ *California Proposition 65 Warning (See page 10 for details).*

## SURFOX™ SHINE

Cleaner and protector for stainless steel

An innovative, non-hazardous product that removes light contaminants from stainless steel in one easy step.

**NSF category A7, C1, registration # 152509**

### Benefits

- ▷ *Removes dust, dirt, finger prints, oils and handling marks*
- ▷ *Leaves a uniform finish without streaking*
- ▷ *Brightens and protects stainless steel surfaces*
- ▷ *Not controlled under WHMIS or OSHA*

### Features

- ▷ *Ready-to-use formula*
- ▷ *Silicone-free, VOC-free, solvent-free, non-flammable, phosphate-free, biodegradable*
- ▷ *For cleaning of food processing and pharmaceutical equipment*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 093	S-12E	12
Liquid	3.78 L	1 gal	54-A 095	S-12E	1
Liquid	20 L	5.2 gal	54-A 097	S-12E	1
Liquid	208 L	55 gal	54-A 098	S-12E	1

**Color:** White

⚠ *California Proposition 65 Warning (See page 10 for details).*

# OTHER SURFOX ACCESSORIES

## Cleaning pads

Designed to be used with SURFOX-G and SURFOX-T



**Standard cleaning pad**  
46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 133 and 54-B 036  
10 per package plus clamp ring  
**Order No.:** 54-B 026



**Inside corners cleaning pad**  
60 mm L x 38 mm W x 2 mm T  
10 per package plus clamp ring  
**Order No.:** 54-B 027



**Narrow cleaning pad**  
46 mm L x 24 mm W x 2 mm T  
Use with insert 54-B 038  
10 per package plus clamp ring  
**Order No.:** 54-B 028



**Large pads for large graphite insert**  
90 mm L X 50 mm W X 2 mm T  
Pack of 10 with O-ring  
**Order No.:** 54-B 043



**Large pad for graphite insert**  
5 per package  
**Order No.:** 54-B 052



**Large pads for large graphite insert for SURFOX Mini**  
Pack of 10 with O-ring  
**Order No.:** 54-B 051

For all models



**Narrow clamp ring for narrow pads**  
Use with narrow inserts 54-B 038  
10 per package  
**Order No.:** 54-B 020



**SURFOX RENEW refillable trigger sprayer**  
Highly concentrated, gel-like cleaner for removing rust and mineral deposits from stainless steel. 500 ml (16.9 oz)  
**Order No.:** 53-L 353



**Electrolyte straw**  
**Order No.:** 48-R 294



**Clamp ring for cleaning pads**  
Use with inserts 54-B 133, and 54-B 036  
10 per package  
**Order No.:** 54-B 002



**SURFOX PRE-WELD refillable trigger sprayer**  
Formulated for preparing and degreasing metal surfaces prior to welding. 500 ml (16.9 oz)  
**Order No.:** 53-L 354



**12' long cable for Micro-Wand**  
**Order No.:** 48-R 458



**Micro-Wand and brush kit**  
With carbon fiber brush for cleaning corners and intricate areas  
**Order No.:** 54-B 133



**SURFOX-N refillable trigger sprayer**  
Identified with GHS compliant product specific labels showing product features, OSHA/WHMIS information and directions for use. 500 ml (16.9 oz)  
**Order No.:** 53-L 339



**SURFOX Powercloth**  
**Order No.:** 54-B 090



**Micro-Wand and tungsten insert kit**  
With tungsten inserts and pads for cleaning corners and intricate areas  
**Order No.:** 54-B 033



**SURFOX station**  
With its sturdy and industrial design, the SURFOX station has been designed to make it easy to move your SURFOX system throughout your work environment while allowing for the storage of various cleaning agents and accessories.  
**Order No.:** 54-B 050

# SURFOX MARKING KIT



Go ahead, make your mark!

SURFOX™ marking kits use a fast and simple electrochemical process to permanently mark stainless steel surfaces. The marking wand plugs directly into the SURFOX machine and is used with specially made permanent or disposable stencils.



## STANDARD MARKING KIT

Order No.: 54-B 080

The standard kit requires the use of permanent stencils available from Walter, each of which can be used hundreds of times.

### Includes:

- Marking wand and power cable
- Pack of 20 marking pads
- 5 O-rings
- Allen key 2.5 mm
- SURFOX-M marking solution 100 ml squeeze bottle for black marking (AC mode)
- SURFOX-E etching solution 100 ml squeeze bottle for white etching (DC mode)
- Packaged in a professional and sturdy case



## PRO MARKING KIT

Order No.: 54-B 081

The PRO kit is offered with a stencil thermal printer for the printing of disposable stencils to permanently mark stainless steel surfaces. The printer comes with software that allows the creation of stencils for barcodes, serial numbers, lot and batch numbers, text, company logos, and more.

### Includes:

- Marking wand and power cable
- Pack of 20 marking pads
- 5 O-rings
- Allen key 2.5 mm
- SURFOX-M marking solution 100 ml squeeze
- Bottle for black marking (AC mode)
- SURFOX-E etching solution 100 ml squeeze
- Bottle for white etching (DC mode)
- Thermal printer and 20 m of stencil paper
- Packaged in a professional and sturdy case

# Marking Kit Accessories

For marking stainless steel and titanium

**SURFOX-M marking solution**  
 100 ml squeeze bottle  
 NSF category P1, registration #146175  
**Order No.:** 54-A 031



For marking aluminum

**SURFOX-M ALU electrolyte solution**  
 100 ml squeeze bottle  
**Order No.:** 54-A 131  
 Also available in 5 L format  
**Order No.:** 54-A 136



For etching stainless steel

**SURFOX-E etching solution**  
 100 ml squeeze bottle  
**Order No.:** 54-A 041



**Marking pads**  
 Pack of 20  
**Order No.:** 54-B 083



**Power cable**  
**Order No.:** 54-B 063



**Graphite marking insert**  
**Order No.:** 54-B 088

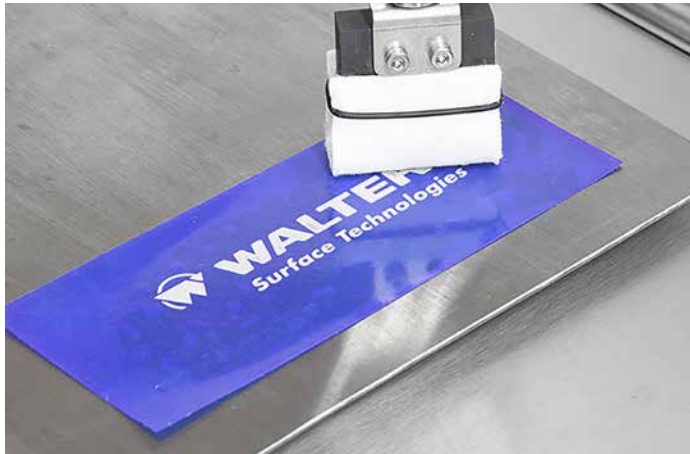


**O-rings**  
 Pack of 5  
**Order No.:** 54-B 089

**Marking wand**  
**Order No.:** 54-B 082



**Stencil paper roll**  
 100 mm x 20 m  
**Order No.:** 54-B 086  
 100 mm x 50 m  
**Order No.:** 54-B 087



## Permanent stencils

Can be used up to 200 times.

2.5" x 7"	54-B 066
3.75" x 7"	54-B 067
5" x 7"	54-B 068
8.5" x 11"	54-B 069

Marking on aluminum using customizable stencil paper rolls



# SURFACE MEASURING SYSTEMS



## SURFOX™ SMART PASSIVATION TESTER

Quickly and easily guarantee passivated stainless steel

The importance of validating the passivation of your stainless steel surfaces cannot be stressed enough. Impossible to detect with the naked eye, passivation indicates that the protective layer of chromium oxide exists on your stainless steel surface – the essential ingredient that guarantees your stainless steel will resist corrosion.

The SURFOX™ Smart Passivation Tester is a Bluetooth enabled, compact and portable testing device that allows you to quickly and easily ensure passivation of stainless steel anywhere, anytime – even on job sites!

Avoid costly re-work and rejected pieces and ship your products with confidence. With the SURFOX™ Smart Passivation Tester you rely on the most innovative and easy-to-use technology on the go.



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

# SURFOX™ SMART PASSIVATION TESTER

## HOW IT WORKS

Using Bluetooth technology, the device connects to your smartphone, and seamlessly uploads your reports to the “Walter Cloud”, a secure online database set up for easy data management, analysis, and report building.

Bluetooth | Wi-Fi | 

App 2.3 allows you to work offline and sync the results when you have Internet access

- ▷ *Easy to use*
- ▷ *Wireless device*
- ▷ *Bluetooth-enabled*
- ▷ *Smartphone compatible*
- ▷ *Test data stored in a cloud-based database*
- ▷ *Quickly generate reports*
- ▷ *Monitor, measure and guarantee the passivation level on workpieces or finished goods*
- ▷ *Minimize costly downtime caused by reworks*
- ▷ *Non-destructive test method – will not damage stainless steel piece when used properly\**

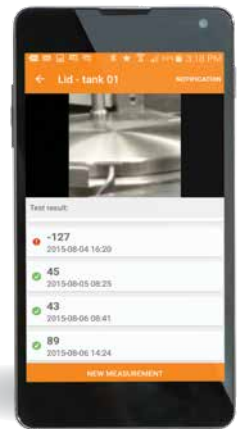
\*Requires neutralization with SURFOX-N / FT 100



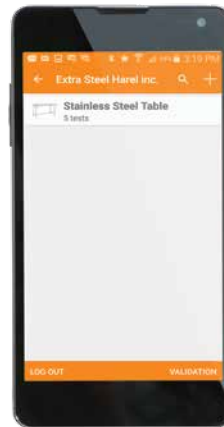
Easy login from your phone or tablet. Simply download the free SURFOX app on the Apple store.



Set the probe on your surface and click “start” to begin the process and automatically sync.

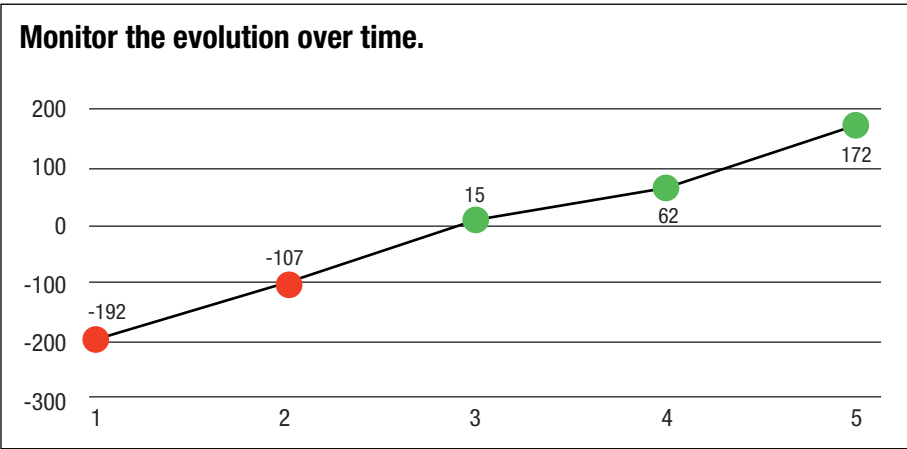


Results are measured and stored within seconds.





Access your projects and data easily through the Walter Cloud without the need for printouts or land connections. Simply go on [www.smart.surfox.com](http://www.smart.surfox.com)



*Reduce unnecessary downtime caused by rework. Guarantee your customers that parts are protected from rust and corrosion.*

*Provide documented proof of passivation once completed!*

# SURFOX™ SMART PASSIVATION TESTER

Order No.: 54-T 011

**Accessories**

	Order no.
Replacement cartridge	54-A 050
White Felt Tip (Pkg. 5)	54-B 046



*Attach copies and other related documents to your project files and certify your work to your customers in an efficient manner.*

**YouTube**  
 Video available at The Walter Net  
[www.youtube.com/user/TheWalterNet](http://www.youtube.com/user/TheWalterNet)





# ANTI-SPATTER SOLUTIONS

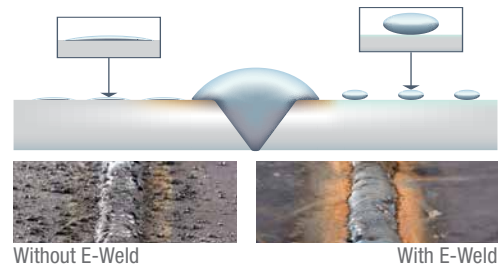
## Why use anti-spatter solutions?

When small pieces of molten metal fly off the welding arc, the spatter, or slag, lands on weld surfaces around seams. As it cools and hardens on the surface on which it lands, it can be difficult to remove. Abrasives or chisels will then need to be utilized to remove the spatter to ensure a smooth surface for finishing the workpiece. However, by leveraging an anti-spatter solution before you begin welding, you can eliminate the time and cost of using abrasives or tools to remove weld spatter.

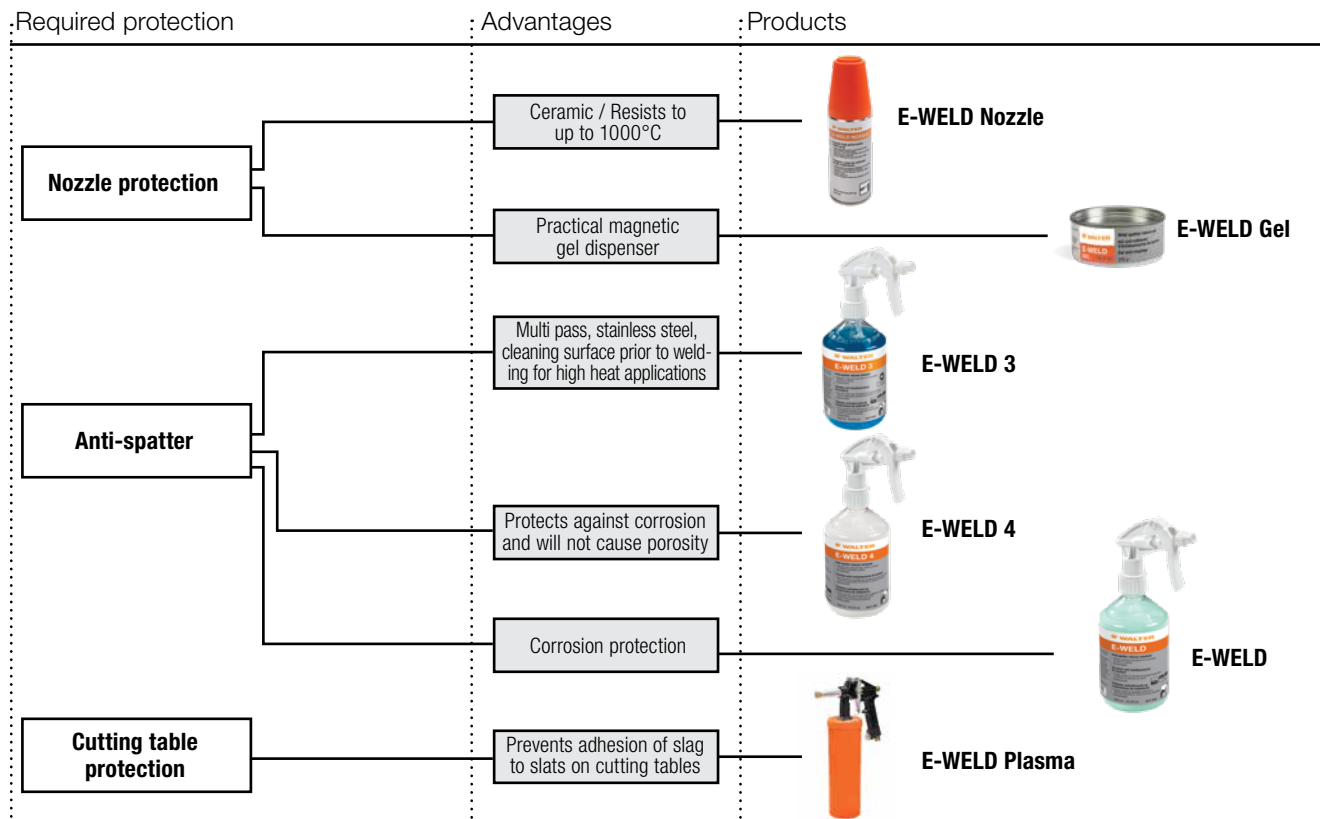


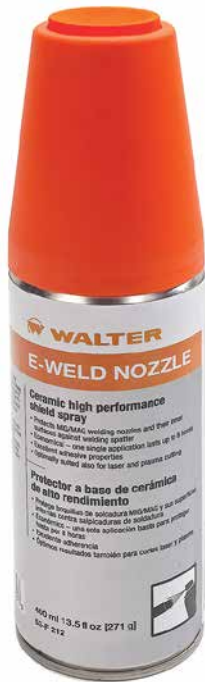
## Why use Walter E-Weld anti-spattersolutions?

Walter has developed a safer and healthier line of anti-spatter solutions to prevent spatter from adhering to surfaces. Our anti-spatter solutions are biodegradable, nonflammable and non toxic so that you can improve your work process without sacrificing worker health and safety.



## Selection chart





## E-WELD NOZZLE™

Total nozzle protection for best efficiency

Extend the life of welding nozzles and reduce downtime spent scraping out spatter with E-WELD Nozzle™. This highly concentrated anti-spatter evenly coats the exterior and interior surface of your welding nozzle to prevent spatter from adhering to the nozzle. This prevents obstructions and allows the gas to flow freely, resulting in a higher quality weld. This is an extremely economical solution, as the easy applicator dispenses a thin layer that can provide protection for up to 8 hours. This is an ideal solution for MIG welding, plasma cutting and laser cutting as the E-WELD Nozzle™ can withstand high temperatures (up to 1000° C) and reduce your consumable spend.

- ▷ *No weld contamination*
- ▷ *Helps prevent weld porosity*
- ▷ *No time lost on scraping spatter from nozzle prior to welding*
- ▷ *Economical*
- ▷ *Improves weld quality and reduces rejection rate*
- ▷ *Only a thin layer needed (up to 100 applications per can)*
- ▷ *Extends lifetime of nozzles*
- ▷ *Eliminates the frequent need for spatter removal and eventual replacement*
- ▷ *Superior life and more solution per can compared to competitive products*



*Nozzle using E-WELD Nozzle*



*Nozzle fully clogged (not using E-WELD Nozzle)*

Unique self-dispensing applicator easily dispenses highly concentrated ceramic coating

**PROTECTS**  
WELDING NOZZLES FOR UP  
TO 8 HOURS



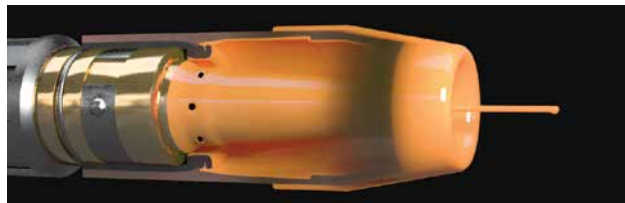
Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 fl. oz.	53-F 212	F-156E	6
Applicator			53-L 121		1
Aerosol and applicator			53-F 912	F-156E	6

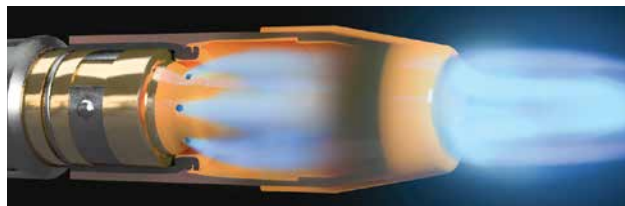
**Color:** Orange

## NOZZLE PROTECTION TO AVOID SPATTER BUILD-UP

### With E-WELD Nozzle™



E-WELD Nozzle coats the exterior and interior of the nozzle, the contact tip and the diffuser to avoid spatter from adhering, thus preventing obstruction.



This allows the gas to flow freely and heat the wire consistently.



End-result is a consistent, good quality weld which results in virtually no rejected pieces.

### Without E-WELD Nozzle™



During the welding process, welding nozzles and tips get clogged with hot spatter which fuses to the nozzle, creating obstruction. This prevents the shielding gas to flow freely and heat the wire evenly.



The end-result is an inconsistent, poor quality weld with a higher rejection rate.



## E-WELD GEL™

Anti-spatter gel

Superior anti-spatter gel for protecting the interior and exterior of welding nozzles and contact tips.

### Benefits

- ▷ Extends welding torch life
- ▷ Fast, easy cleaning of nozzles and contact tips

### Features

- ▷ Free of chlorinated compounds and silicone
- ▷ Odorless
- ▷ Packaging height is designed to prevent clogging of gas diffusers in welding nozzles



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Metal tin	200 g	7.0 oz	53-F 103	L-12E	12

**Color:** Translucent

*Magnetic tin "sticks" to steel work tables and vertical surfaces*

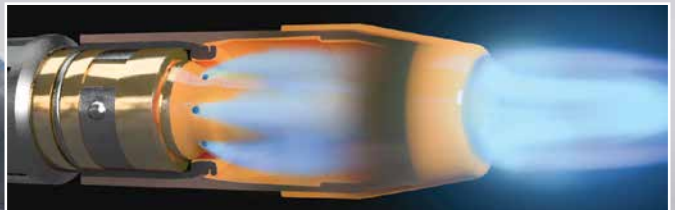
# E-WELD NOZZLE

Total nozzle protection for up to 8 hours!

- **UNIQUE APPLICATOR** ensures a thin, even protective coat.
- Extends nozzle life.
- Perfect for all types of welding, resists temperatures up to **1000 °C**.



Spatter build up obstructs gas flow, resulting in inconsistent weld quality.



Thin layer of E-Weld Nozzle ensures gas flows freely for a clean, high quality weld.



## E-WELD PLASMA™

Long lasting protection for laser and plasma cutting tables

E-WELD Plasma™ is a ceramic anti-spatter solution that is applied to laser and plasma cutting tables to reduce the buildup of slag over time.

This simple preventative measure keeps the slag from adhering to the slats in cutting tables, allowing it to be easily removed before it builds up and becomes problematic. This significantly decreases the amount of time and effort needed to clean slag off cutting tables, which saves you a great deal of labor time – and associated costs – in plant maintenance.

**Now compatible with wet tables.**

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer			53-L 126		1
Liquid	10 kg	22 lbs	53-F 605	L-142E	1

**Color:** White

⚠ California Proposition 65 Warning (See page 10 for details).

### Tech tip!

Stack multiple cutting tables behind one another and slightly offset them from one another so all the slats on each table are exposed. This will allow you to coat multiple cutting tables at once, saving even more time.

### Benefits

- ▷ Greatly reduces the amount of time required to remove slag from cutting tables
- ▷ Spend less time on equipment maintenance and more time on revenue generating activities
- ▷ Can also be applied to other equipment that is exposed to weld spatter or slag
- ▷ Spray gun applicator dispenses a thin, even layer to help prevent wasteful over application
- ▷ Can be applied to wet or dry cutting tables

### Features

- ▷ Ceramic formula provides long lasting protection, even in the presence of extreme heat
- ▷ Spray gun applicator allows you to quickly and easily dispense the product across large surface areas
- ▷ Each 10 kg container provides enough antispatter to cover 50-100 m<sup>2</sup> (square meters)
- ▷ E-WELD Plasma can be painted on manually or sprayed on with the applicator; just stir the solution prior to use
- ▷ Use a degreaser like SURFOX Pre-Weld to clean slats prior to use to ensure a strong, adhesive coating



## E-WELD™

General purpose anti-spatter emulsion

E-WELD is a safe, natural solution that protects the workpiece from weld spatter to keep you from having to perform time-consuming, costly rework.

### Features

- ▷ Does not interfere with painting process
- ▷ VOC-free, solvent-free and silicone-free, biodegradable, non-flammable
- ▷ Formulation based on natural plant extracts
- ▷ Odorless
- ▷ Effective welding amperage range: 100-225 A
- ▷ Contains temporary corrosion inhibitors



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.55 oz	53-F 002	L-10E	12
Sprayer	500 ml	16.9 oz	53-F 203	L-21E	12
Liquid	3.78 L	1 gal	53-F 205	L-21E	1
Liquid	20 L	5.2 gal	53-F 207	L-21E	1
Liquid	208 L	55 gal	53-F 208	L-21E	1

**Color:** Milky green

⚠ California Proposition 65 Warning (See page 10 for details).

### Tech tip!

Only requires a thin protective film to prevent spatter adhesion.



## E-WELD 3™

High temperature anti-spatter solution

E-WELD 3 is a high performance anti-spatter solution that both cleans the workpiece and protects it from high energy spatter, eliminating an extra step in the welding process while avoiding costly rework. E-WELD 3 is often the preferred solution for use on stainless steel.

**NSF category P1, registration #145451**

### Benefits

- ▷ Cleans and degreases weld area
- ▷ Allows multi pass welding
- ▷ Does not interfere with paint adhesion

### Features

- ▷ VOC-free, solvent-free, silicone-free and biodegradable
- ▷ Odorless
- ▷ Effective amperage range: 100 – 400 A

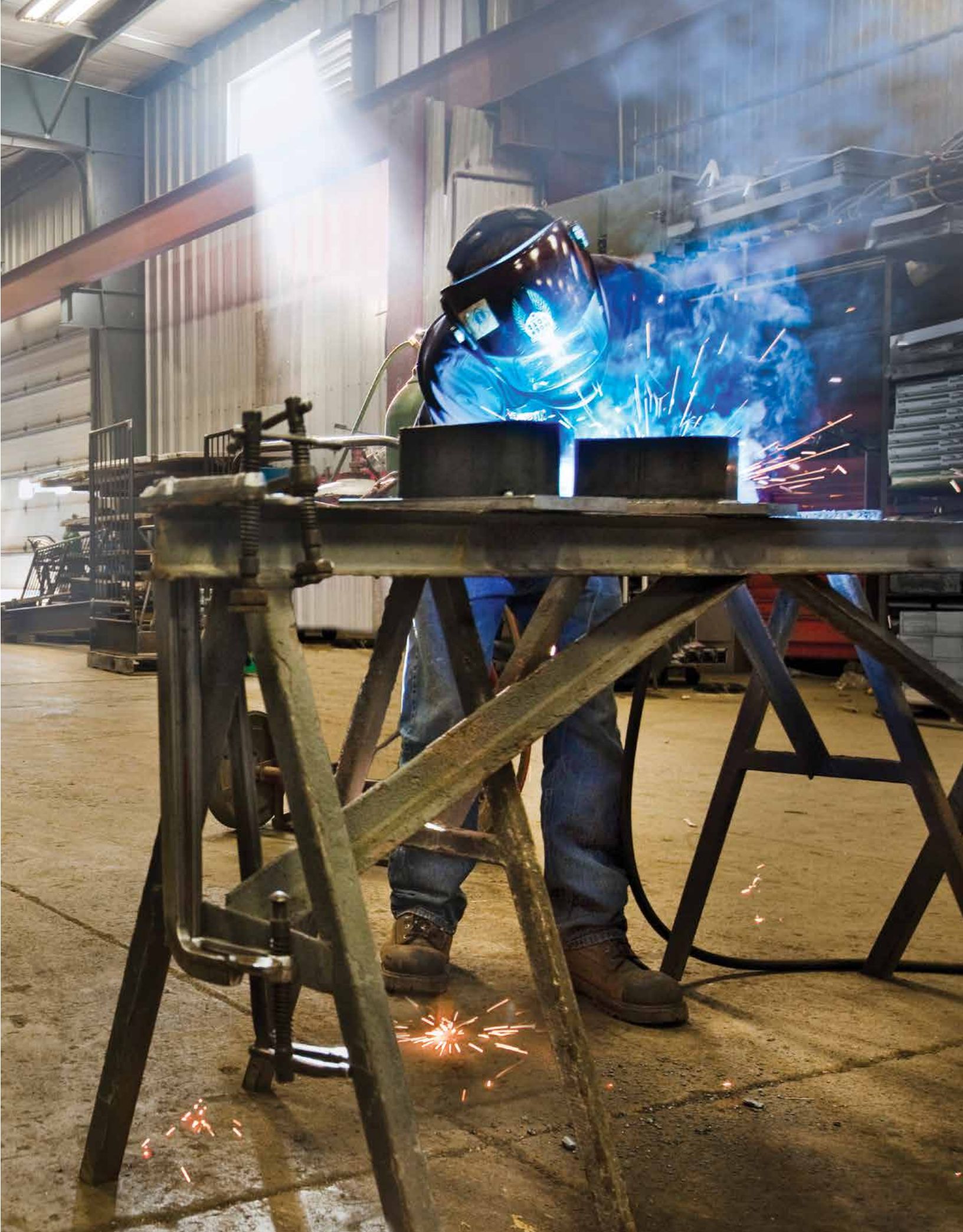


Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	53-F 253	L-46E	12
Liquid	3.78 L	1 gal	53-F 255	L-46E	1
Liquid	20 L	5.2 gal	53-F 257	L-46E	1
Liquid	208 L	55 gal	53-F 258	L-46E	1

**Color:** Clear blue

⚠ California Proposition 65 Warning (See page 10 for details).





# E-WELD 4™

Premium anti-spatter emulsion

E-WELD 4 is a unique anti-spatter solution which protects workpieces from the adherence of spatter. With the addition of special natural ingredients, E-WELD 4 retracts in the presence of heat, leaving the welding area free of liquid. This means that unlike competitive products, E-WELD 4 is guaranteed not to cause weld porosity or cracking, even when overapplied to work surfaces.

### Benefits

- ▷ Will not contribute to weld porosity
- ▷ No weld cracking
- ▷ Corrosion resistant
- ▷ Does not interfere with paint adhesion

### Features

- ▷ VOC-free, solvent-free, silicone-free and biodegradable
- ▷ Formulation based on natural plant extracts
- ▷ Pleasant citrus scent
- ▷ Effective welding amperage range: 100 – 225 A



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	53-F 403	L-147E	12
Liquid	3.78 L	1 gal.	53-F 405	L-147E	1
Liquid	20 L	5.2 gal.	53-F 407	L-147E	1
Liquid	208 L	55 gal.	53-F 408	L-147E	1

Color: White

⚠ California Proposition 65 Warning (See page 10 for details).



### Tech tip!

Best choice for welding on aluminum surfaces.



## INDUSTRIAL PUMP SPRAYERS

Tough industrial sprayers designed to quickly and effectively dispense anti-spatter products. The spray pattern can easily be adjusted from a pin point jet for accurate product dispensing to a wide fan for greater surface coverage. These thick walled polyethylene bottles are GHS compliant and feature a wide neck for easy refilling.

Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
E-Weld	900 ml	30.4 oz	53-L 101	1
E-Weld 3	900 ml	30.4 oz	53-L 105	1
E-Weld 4	900 ml	30.4 oz	53-L 107	1



## REFILLABLE TRIGGER SPRAYERS

Sprayers equipped with precision mechanism – guarantees minimal constant spray mist / no dripping. Clearly identified with product specific labels showing product features, GHS information and directions for use.

Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
E-Weld	500 ml	16.9 oz	53-L 321	1
E-Weld 3	500 ml	16.9 oz	53-L 320	1
E-Weld 4	500 ml	16.9 oz	53-L 338	1





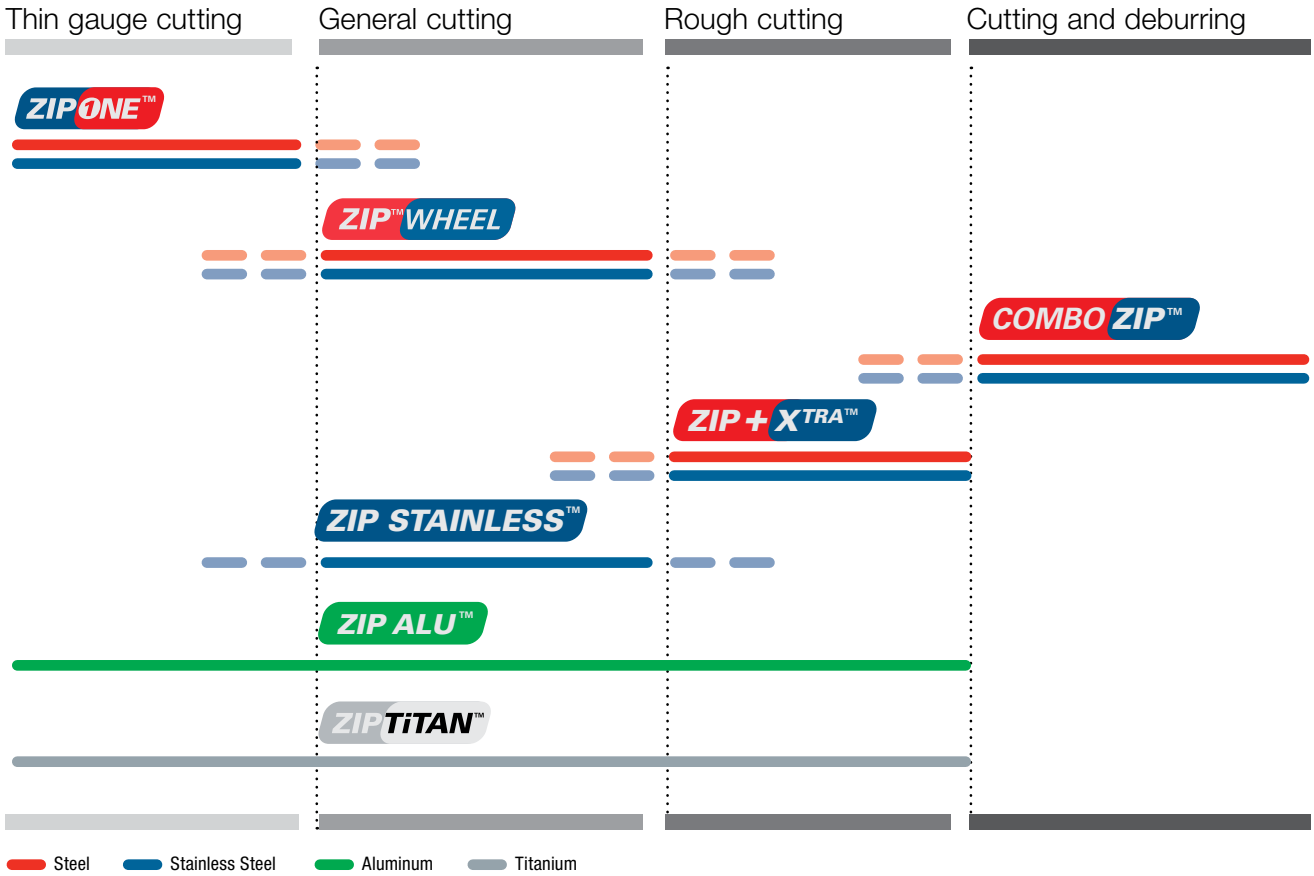
A close-up photograph of a worker in full safety gear, including a helmet, clear face shield, and heavy-duty gloves, using a circular saw to cut through a metal beam. The worker is wearing a blue denim shirt and dark overalls. The saw is a grey and black model, and a large amount of bright orange sparks is being generated from the cut. The background is a blurred industrial setting. In the top right corner, there is a solid red square.

02

CUTTING

# ZIP FAMILY PRODUCTS AT A GLANCE

## RECOMMENDED BY TYPE OF USAGE



## WALTER INDUSTRIAL GLOVES

Protective, sleek, and tight fitting for comfort. Walter's newly-designed work gloves are made to last in the toughest applications. They are made of 100% Black Goatskin leather, with a neoprene inserts that reduces vibration. The thumb curve is made with Kevlar™, a natural anti-slip solution. Simply put, these gloves are the toughest and most comfortable for demanding industrial applications.

Large  
Extra-Large

**Order No.:** 30-B 093  
**Order No.:** 30-B 095

## ZIP WHEEL FEATURES

### Why are Walter thin cut-off wheels the best in the industry?



#### Rib Design

Walter's rib design features raised ribs to reduce friction on the surface, for a freer and cooler cut. With reduced side friction, the cut-off wheel will cut faster, last longer and offer peak performance.

#### Exclusive Packaging

Walter's cut-off wheels are sold in a sturdy, unique and reusable plastic container that keeps each wheel in the same condition as when it left the factory thereby enhancing performance, safety, and durability.

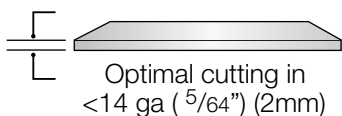


#### Triple Reinforcement Combo Zip™

3 layers of reinforcement and metal cladding on the cut-off wheel's hub provides maximum safety. This feature allows the cut-off wheel to bear the force of lateral pressure and allow users to light grind/deburr in a safe manner.

#### Type 27 Narrow Crown and Metal Cladding

Exclusive patented technology that incorporates a metal cladding in the center hub for added safety, and allows for a deeper cutting depth, extending the life of the cutting wheel.



#### Ultra-Thin Zip One™

Walter's thinnest cut-off wheel at  $\frac{1}{32}$ " is designed for maximum precision cutting. Thanks to an innovative technology exclusive to Walter, ZIP One is not only long lasting, but also allows you to more accurately cut sheet metal without creating burrs.

JUST  
 **$\frac{1}{32}$ "**  
THICK

#### Spin-On Wheels for Easy Mounting

Changing your cut-off wheels is quicker and easier than ever before, which results in minimal downtime during wheel change out and less vibration when cutting.



OUR BEST JUST GOT BETTER

# ZIP STAINLESS™

Cool cuts. High performance.

Best overall performance on stainless steel.



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

**WALTER**  
Surface Technologies

Only the best.™

# ZIP TITAN™

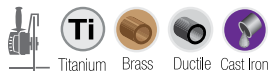
Best solution for cutting titanium and brass

For the best solution when working with titanium and brass materials, trust ZIP TITAN™. It cuts through titanium and brass without overheating these metals, delivering a longer lasting cut-off wheel while preserving the mechanical properties and surface integrity of the material being cut. Get more cuts per wheel and faster, freer cuts on some of the industry's most challenging metals, courtesy of ZIP TITAN™.



- ▷ **Longer life and optimal cutting performance on titanium and brass**
- ▷ **Unique formulation which prevents metal from overheating 100%**

## TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-H 042	C-60	13,300	25	400
5"	3/64" (.045")	7/8"	11-H 052	C-60	12,200	25	400
6"	3/64" (.045")	7/8"	11-H 062	C-36	10,200	25	200
7"	1/16" (.062")	7/8"	11-H 072	C-36	8,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).



**GET 33% MORE CUTS  
WHEN COMBINED WITH  
OUR MINI-PLUS!  
See page 154.**



INDUSTRY'S LEADING AND MOST TRUSTED WHEEL

ZIP WHEEL™

Setting the industry standard for cut-off wheels



ZIP WHEEL™ is the highest performing cut-off wheel on the market. Faster, cooler, freer cutting and heavily reinforced for added safety, ZIP WHEEL provides premium performance while resisting twisting and bending. This allows for a true, straight cut every time. The end result is a wheel that improves worker safety while delivering unrivaled value.

TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-T 042	A-60	13,300	25	400
5"	3/64" (.045")	7/8"	11-T 052	A-60	12,200	25	400
6"	3/64" (.045")	7/8"	11-T 062	A-60	10,200	25	200
7"	1/16" (.062")	7/8"	11-T 072	A-30	8,600	25	100
9"	* 5/64" (.078")	7/8"	11-T 092	A-30	6,600	25	100

\* Must be used with 3" clamping flange No. 30-B 022 (according to ANSI B7.1)

⚠ California Proposition 65 Warning (See page 10 for details).



TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
7"	1/16" (.062")	5/8"	11-T 070	A-30	8,600	25	100
8"	1/16" (.062")	5/8"	11-T 080	A-30	7,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).

- ▷ Significantly more cuts than the competition\*
- ▷ Less friction and faster cutting

\* According to comparative test measurements performed in a lab environment.

TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-T 142	A-60	13,300	25	200
5"	3/64" (.045")	7/8"	11-T 152	A-60	12,200	25	200
6"	3/64" (.045")	7/8"	11-T 162	A-60	10,200	25	200
7"	1/16" (.062")	7/8"	11-T 172	A-30	8,600	25	100
9"	5/64" (.078")	7/8"	11-T 192	A-30	6,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).



Video available at The Walter Network  
www.youtube.com/user/TheWalterNetwork

Mounting accessories

Complete set for a flush fit and minimal spindle exposure beyond the clamping nut, for other brands of grinders with: 5/8"-11 spindles

- 30-B 021  
Clamping flanges set to mount 9" cut-off wheels on 5/8"-11 spindles
- 30-B 022



## ZIP WHEEL™ SPIN-ON

High performance cutting with SPIN-ON system

A Walter exclusive, our SPIN-ON mounting system takes your productivity to the next level with a  $\frac{5}{8}$ "-11 threaded hub that reduces vibration and reduces the time spent on wheel change outs.

- ▷ *Perfectly centered wheel for total operator comfort*
- ▷ *Vibration-free cutting for maximum life, safety and productivity*



TYPE 27S	SPIN-ON						
Di.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	5/8"-11	11-T 342	A-60	13,300	25	100
5"	3/64" (.045")	5/8"-11	11-T 352	A-60	12,200	25	100
6"	3/64" (.045")	5/8"-11	11-T 362	A-60	10,200	25	200



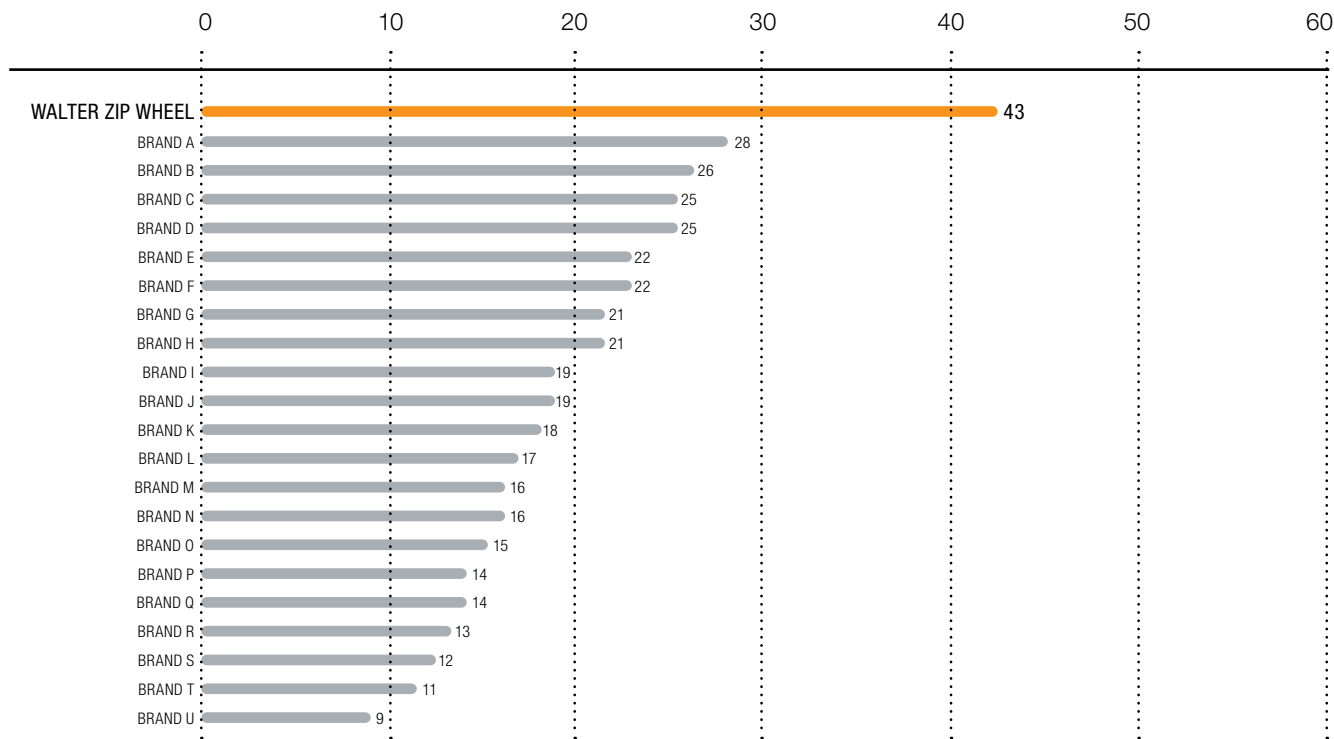
**QUICK AND EASY**  
WHEEL CHANGE FOR  
MINIMUM DOWNTIME

\* Always use with a backing flange

⚠ California Proposition 65 Warning (See page 10 for details).

## ZIP WHEEL™ - Comparison tests of 4 1/2" cutting wheels

Total number of cuts on 1/4" hot rolled steel plate



## ZIP+ XTRA™

Performance cutting in thicker metal

ZIP+ XTRA™ has a reinforced rib design for straighter cuts on metal that measures 1/8" thick or thicker. This feature also helps to cool the workpiece, preventing the large burrs and material discoloration often produced by competitive 1/16" cut-off wheels.

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/16" (.062")	7/8"	11-T 242	A-36	13,300	25	400
5"	1/16" (.062")	7/8"	11-T 252	A-36	12,200	25	400
6"	1/16" (.062")	7/8"	11-T 262	A-36	10,200	25	200
7"	5/64" (.078")	7/8"	11-T 272	A-36	8,600	25	100
9"	3/32" (.094")	7/8"	11-T 292	A-36	6,600	25	100

\* Must be used with 3" clamping flange No. 30-B 022 (according to ANSI B7.1)

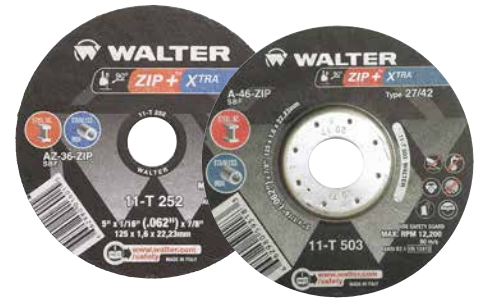
⚠ California Proposition 65 Warning (See page 10 for details).

### TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/16" (.062")	7/8"	11-T 453	A-36	13,300	25	200
5"	1/16" (.062")	7/8"	11-T 503	A-36	12,200	25	200

⚠ California Proposition 65 Warning (See page 10 for details).



**CHOOSE ZIP+ XTRA™**  
FOR THE TOUGHEST PROJECTS!

- ▷ Excellent performance for cutting material 1/8" and thicker
- ▷ 4 1/2" and 5" Type 27 wheels feature an exclusive narrow crown design and metal hub cladding
- ▷ The preferred wheel for flush cutting in confined spaces



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

## TOUGH CUT™

For the toughest, most demanding cutting applications

These wheels cut fast and free without binding and maintain high RPM for a clean cut and superior all-around performance.

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/32"	7/8"	11-R 042	A-30	13,300	25	200
5"	3/32"	7/8"	11-R 052	A-30	12,200	25	200
6"	3/32"	7/8"	11-R 062	A-30	10,200	25	200
7"	3/32"	7/8"	11-R 072	A-30	8,600	25	100
9"	3/32"	7/8"	11-R 092	A-30	6,600	25	100

\* Must be used with 3" clamping flange No. 30-B 022 (according to ANSI B7.1)

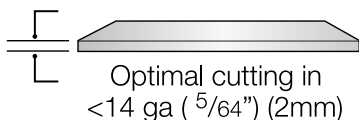
⚠ California Proposition 65 Warning (See page 10 for details).







Recommended: 8 ga (3/16") (4 mm)



- ▷ **Fast, free precision cuts**
- ▷ **Clean cutting for less rework**
- ▷ **Unique mix of abrasive grains ensures cool cutting for less discoloration and warping**
- ▷ **Fe-free formulation – guaranteed not to contaminate stainless steel**
- ▷ **Perfect for plunge cutting applications**

## ZIP ONE™

High performance cut-off wheel for thin gauge metal

ZIP ONE™ offers the quickest cuts and longest life in an ultra-thin 1/32" wheel. It is cool cutting to provide a burr-free cut with minimal discoloration. Best of all, it cuts extremely quickly and without vibration, making your job safer and easier when working with thin gauge steel or stainless steel.

### EXTRA THIN FOR ULTRA PRECISE CUTTING

#### TYPE 1

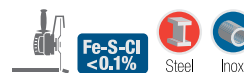


Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/32" (.035)	7/8"	11-T 542	ZA-60	13,300	25	400
5"	1/32" (.035)	7/8"	11-T 552	ZA-60	12,200	25	400

⚠ California Proposition 65 Warning (See page 10 for details).



#### TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/32" (.032")	7/8"	11-T 642	ZA-60	13,300	25	400
5"	1/32" (.032")	7/8"	11-T 652	ZA-60	12,200	25	400
6"	1/32" (.035")	7/8"	11-T 662	ZA-60	10,200	25	200
7"	3/64" (.045")	7/8"	11-T 672	ZA-60	8,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).

### YouTube

Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



Check out our high efficiency cordless ZIP WHEEL CUTTER! Ideal for jobs on site or remote locations. See page 152.





- ▶ Free of iron, sulfur and chlorine so as not to contaminate stainless steel
- ▶ Type 27 allows more clearance for flush cutting
- ▶ Metal hub cladding for extra strength, control and safety

## ZIP STAINLESS™

Guaranteed not to contaminate stainless steel

The new and improved Zip Stainless™ is better than ever. This cut-off wheel is free of iron, sulfur and chlorine, ensuring it will not contaminate stainless steel or other nickel alloyed steels. It offers cool, free cuts and the best overall performance on nickel alloyed steels.

### TYPE 1

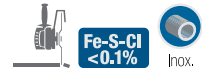


Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-F 042	A-60	13,300	25	400
5"	3/64" (.045")	7/8"	11-F 052	A-60	12,200	25	400
6"	3/64" (.045")	7/8"	11-F 062	A-60	10,200	25	200
7"	1/16" (.062")	7/8"	11-F 072	A-46	8,600	25	100
9"	5/64" (.078")	7/8"	11-F 092	* A-46	6,600	25	100

\* Must be used with 3" clamping flange No. 30-B 022 (according to ANSI B7.1)

⚠ California Proposition 65 Warning (See page 10 for details).

### TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-F 142	A-60	13,300	25	200
5"	3/64" (.045")	7/8"	11-F 152	A-60	12,200	25	400
6"	3/64" (.045")	7/8"	11-F 162	A-60	10,200	25	200
7"	1/16" (.062")	7/8"	11-F 172	A-46	8,600	25	100
9"	5/64" (.078")	7/8"	11-F 192	A-46	6,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).



\*Best wheel life and extra fast cutting in aluminum and other non-ferrous alloys



## ZIP ALU™

Fast and free cutting of aluminum without clogging

ZIP ALU™ is designed to provide long life and quick cuts on aluminum and other non-ferrous alloys. Our special abrasive blend provides smooth, cool cuts and is guaranteed not to clog, saving you time and money.

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-U 042	A-60-ZIP-ALU	13,300	25	400
5"	3/64" (.045")	7/8"	11-U 052	A-60-ZIP-ALU	12,200	25	400
6"	3/64" (.045")	7/8"	11-U 062	A-60-ZIP-ALU	10,200	25	200
7"	1/16" (.062")	7/8"	11-U 072	A-30-ZIP-ALU	8,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).

### TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-U 142	A-60-ZIP-ALU	13,300	25	400
5"	3/64" (.045")	7/8"	11-U 152	A-60-ZIP-ALU	12,200	25	400
6"	3/64" (.045")	7/8"	11-U 162	A-60-ZIP-ALU	10,200	25	200
7"	1/16" (.062")	7/8"	11-U 172	A-30-ZIP-ALU	8,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).



- ▷ Cutting and deburring combined for less wheel changeover and greater productivity
- ▷ Reinforced like a grinding wheel to improve operator safety
- ▷ ZIP formulation guarantees fast cutting time and long life
- ▷ Equipped with a metal protective hub for extra strength, control and safety



## COMBO ZIP

Fast, safe cutting and deburring with one wheel

Safely cut and deburr with just one wheel. Combo Zip™ is the perfect fit when operators don't want the hassle of having to change out wheels to deburr, notch or chamfer immediately after cutting. Save time and improve worker safety with Combo Zip™.

### TYPE 27

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/64" (.078")	7/8"	11-T 842	A-60	13,300	25	400
5"	5/64" (.078")	7/8"	11-T 852	A-60	12,200	25	200
6"	5/64" (.078")	7/8"	11-T 862	A-60	10,200	25	200

⚠ California Proposition 65 Warning (See page 10 for details).

### TYPE 27S

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/64" (.078")	5/8"-11	11-T 844	A-60	13,300	25	200
5"	5/64" (.078")	5/8"-11	11-T 854	A-60	12,200	25	200

\* Always use with a backing flange

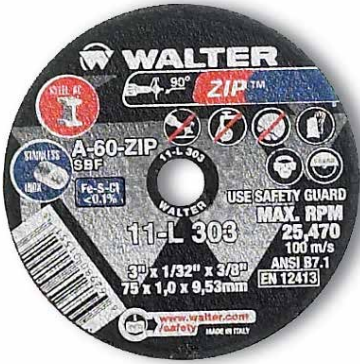
⚠ California Proposition 65 Warning (See page 10 for details).

**THREE LAYERS**  
OF REINFORCEMENT AND  
METAL CLADDING FOR  
MAXIMUM SAFETY



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)





## EXCELLENT CUTTING SPEED AND WHEEL LIFE

- ▶ *Fast, cool and free cutting, allowing the operator to work with minimal pressure for best control*
- ▶ *Superior life and cutting speed compared to competitive wheels*
- ▶ *24 grit wheels for faster cutting speeds*
- ▶ *60 grit wheels for longer life*



YouTube

Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



## ZIP™

Performance cutting and grinding with straight shaft and die grinders

ZIP™ wheels offer the best performance available on straight shaft and die grinders. They are specially formulated to run cool for maximum life and are guaranteed not to contaminate stainless steel.

For notching applications, it is recommended that you use  $\geq \frac{1}{8}$ ".

For grinding applications,  $\frac{1}{2}$ " is recommended.

### 2" TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
2"	1/32"	1/4"	11-L 202	A-24	30,600	25	200
2"	1/32"	3/8"	11-L 203	A-60	30,600	25	200
2"	1/16"	5/16"	11-L 211	A-24	30,600	25	200
2"	1/16"	1/4"	11-L 212	A-24	30,600	25	200
2"	1/16"	3/8"	11-L 213	A-24	30,600	25	200
2"	1/8"	5/16"	11-L 221	A-24	30,600	25	200
2"	1/8"	3/8"	11-L 223	A-24	30,600	25	200
2"	1/4"	5/16"	11-L 231	A-24	30,600	25	200
2"	1/4"	3/8"	11-L 233	A-24	30,600	25	200
2"	1/2"	5/16"	11-L 251	A-24	30,600	25	200
2"	1/2"	3/8"	11-L 253	A-24	30,600	25	200

⚠ California Proposition 65 Warning (See page 10 for details).

### 2 1/2" TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
2 1/2"	1/16"	1/4"	11-L 262	A-24	30,350	25	200
2 1/2"	1/16"	3/8"	11-L 263	A-24	30,350	25	200

⚠ California Proposition 65 Warning (See page 10 for details).

### 3" TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/32"	1/4"	11-L 302	A-60	25,470	25	200
3"	1/16"	1/4"	11-L 312	A-24	25,470	25	200
3"	1/8"	1/4"	11-L 322	A-24	25,470	25	200
3"	1/32"	3/8"	11-L 303	A-60	25,470	25	200
3"	1/16"	1/4"	11-L 316	A-60	25,470	25	200
3"	1/16"	3/8"	11-L 317	A-60	25,470	25	200
3"	1/16"	3/8"	11-L 313	A-24	25,470	25	200
3"	1/8"	3/8"	11-L 323	A-24	25,470	25	200
3"	1/4"	3/8"	11-L 333	A-24	25,470	25	100
3"	1/2"	3/8"	11-L 353	A-24	25,470	25	100

⚠ California Proposition 65 Warning (See page 10 for details).

## 4" TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4"	1/32"	1/4"	11-L 402	A-60	19,100	25	200
4"	1/32"	3/8"	11-L 403	A-60	19,100	25	200
4"	1/32"	1/4"	11-L 406	A-24	19,100	25	200
4"	1/16"	1/4"	11-L 412	A-24	19,100	25	200
4"	1/16"	3/8"	11-L 413	A-24	19,100	25	200
4"	1/16"	3/8"	11-L 417	A-60	19,100	25	200
4"	1/8"	3/8"	11-L 423	A-24	19,100	25	200
4"	1/4"	3/8"	11-L 433	A-24	19,100	25	100
4"	1/2"	3/8"	11-L 453	A-24	19,100	25	100
4"	1/32"	5/8"	11-L 405	A-60	19,100	25	200
4"	1/16"	5/8"	11-L 415	A-24	19,100	25	200

⚠ California Proposition 65 Warning (See page 10 for details).

## 3" &amp; 4" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/32"	3/8"	11-L 308	* A-60	25,470	25	200
4"	1/32"	3/8"	11-L 408	** A-60	19,100	25	200

\* Use with 1/4" mandrel 11-L 007

\*\* Use with 1/4" mandrel 11-L 003

⚠ California Proposition 65 Warning (See page 10 for details).

## ZIP ALU™

Fast and free cutting of aluminum without clogging

Thin cut-off wheels specially formulated to cut a wide variety of aluminum, aluminum alloys and non-ferrous metals without clogging.

## TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/32"	3/8"	11-U 303	A-60	25,470	25	200
4"	1/32"	3/8"	11-U 403	A-60	19,100	25	200

⚠ California Proposition 65 Warning (See page 10 for details).

## Mounting accessories

## Flush mandrels with 1/4" shaft for wheel thickness up to 1/2"

For 2 and 3" wheels, 1/4" and 3/8" arbor

11-L 007

For 2" wheels, 3/16" arbor

11-L 001

For 3" and 4" wheels, 1/4" arbor

11-L 006

For 3" and 4" wheels, 3/8" arbor

11-L 003

## General purpose mandrels with 1/4" shaft for wheel thickness up to 1/2"

For 2" wheels, 3/8" arbor

11-L 008

For 2" wheels, 3/16" arbor

11-L 002

For 3" and 4" wheels, 3/8" arbor

11-L 004

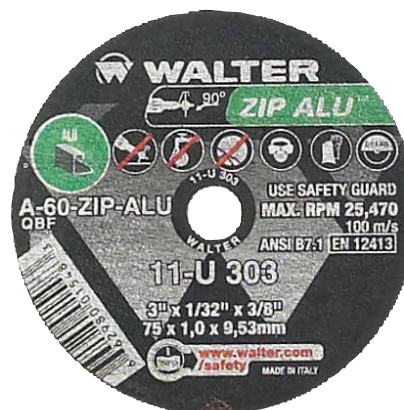
## With 3/16" shaft

For 3" and 4" wheels, 3/8" arbor

11-L 005



- ▶ Ideal for flush cutting
- ▶ Metal hub cladding for extra strength and safety

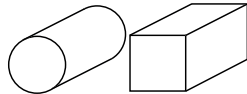


- ▶ Best wheel life and extra fast cutting on aluminum

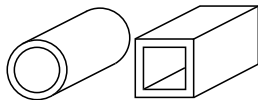
**EXTRA FAST**  
CUTTING ON ALUMINUM  
WITHOUT CLOGGING!



### THE WHEEL OF CHOICE FOR SOLIDS AND STAINLESS TUBES



- ▷ Reinforced center
- ▷ Optimized for use on low power chop saws; reduces load on machine and creates less burrs
- ▷ The wheel of choice for solids and stainless steel tubing



- ▷ Double external reinforcement for extra safety
- ▷ The wheel of choice for tubing and extrusions
- ▷ Longer life for the toughest applications



- ▷ Fast and free cutting on all types of aluminum and non-ferrous metals
- ▷ Unique formulation which prevents clogging to extend wheel life



- ▷ Optimal cutting performance on titanium and brass
- ▷ Unique formulation prevents metal from overheating
- ▷ For portable and stationary saws

## CHOPCUT™

Performance cutting with portable chop saws

These wheels have been developed specifically for use on portable chop saws. They put minimal load on the motor, making them easy on both the operator and the tool. Best of all, CHOPCUT™ wheels deliver quick cuts and exceptional lifespan.



### CHOPCUT

General purpose

TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	3/32"	1"	10-Q 123	A-30	5,100	10	50
14"	3/32"	1"	10-Q 143	A-30	4,400	10	50
16"	7/64"	1"	10-Q 163	A-30	3,800	10	30

⚠ California Proposition 65 Warning (See page 10 for details).

### CHOPCUT II

High performance

TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	3/32"	1"	10-P 123	A-30	5,100	10	50
14"	3/32"	1"	10-P 143	A-30	4,400	10	50
16"	7/64"	1"	10-P 163	A-30	3,800	10	30

⚠ California Proposition 65 Warning (See page 10 for details).

### CHOPCUT ALU

ALU TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	3/32"	1"	10-L 123	A-30	5,100	10	50
14"	3/32"	1"	10-L 143	A-30	4,400	10	50

⚠ California Proposition 65 Warning (See page 10 for details).

### CHOPCUT TITAN

Titanium TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
14"	1/8" (.125")	1"	10-H 143	C-30	4,400	10	50
16"	1/8" (.125")	1"	10-H 163	C-30	3,800	10	30

⚠ California Proposition 65 Warning (See page 10 for details).

# RIPCUT™

High performance cutting on stationary cut-off machines

Available in several styles, these heavily-reinforced wheels can tackle anything from thin walled profiles to heavy solids, while providing fast cuts and long life, to give you the lowest cost-per-cut in the industry.



## RIPCUT

General purpose TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	1"	10-B 123	A-24	5,100	10	50
14"	1/8"	1"	10-B 143	A-24	4,400	10	30
16"	5/32"	1"	10-B 163	A-24	3,800	10	30
18"	3/16"	1"	10-B 183	A-24	3,400	10	20
20"	3/16"	1"	10-B 203	A-24	3,000	5	10

⚠ California Proposition 65 Warning (See page 10 for details).

**FOR THE LOWEST  
COST PER CUT!**

- ▷ *The most versatile wheel*
- ▷ *Cuts thin walled profiles to heavy solids*
- ▷ *The preferred wheel for low power machines (<10 HP)*

## RIPCUT II

High performance TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	1"	10-A 123	A-24	5,100	10	50
14"	1/8"	1"	10-A 143	A-24	4,400	10	30
16"	5/32"	1"	10-A 163	A-24	3,800	10	30
18"	3/16"	1"	10-A 183	A-24	3,400	10	20
20"	3/16"	1"	10-A 203	A-24	3,000	5	10
20"	3/16"	40 mm	10-A 206	A-24	3,000	5	10
24"	1/4"	40 mm	10-A 246	A-24	2,550	5	10

⚠ California Proposition 65 Warning (See page 10 for details).

- ▷ *Outperforms all other comparable wheels*
- ▷ *Cuts almost anything from thin wall shapes to solid shafts*
- ▷ *For use on high power machines (>10 HP)*

## RIPCUT STAINLESS

Stainless TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	1"	10-C 123	A-36	5,100	10	50
14"	1/8"	1"	10-C 143	A-36	4,400	10	30
16"	5/32"	1"	10-C 163	A-36	3,800	10	30
20"	3/16"	1"	10-C 203	A-36	3,000	5	10

⚠ California Proposition 65 Warning (See page 10 for details).

- ▷ *Specially formulated to cut all types of stainless and alloyed steels*
- ▷ *Fast and cool cutting with less burrs and discoloration*

### Accessories

#### Reducer bushings

From	To	Order No.	From	To	Order No.
40 mm	1 1/2"	10-A 992	1"	7/8"	10-A 988
40 mm	1 1/4"	10-A 991	1"	3/4"	10-A 987
40 mm	1"	10-A 990	1"	5/8"	10-A 986
1"	20 mm	10-A 989	1"	1/2"	10-A 985





▷ General purpose cutting of steel and cast iron



- ▷ Designed for cutting of concrete, concrete blocks, stone, asphalt, etc.
- ▷ General purpose cutting of reinforced concrete pipes, ductile iron, PVC and other plastic pipes



- ▷ Made with premium abrasive grains and resin
- ▷ Heavily reinforced for maximum safety and smoothness
- ▷ Railcut II Long Life for longer life and use on softer (new) rail - Best option for hydraulic saws
- ▷ Railcut II Fast Cut for faster cutting and minimal deflection on hardened (used) rail - Best option for gas saws

## PORTACUT™

High speed cutting with gas and electric power saws

These premium wheels stand out as the most reliable cut-off wheels for all on-site cutting jobs. Reinforced for added safety and formulated for an optimal cutting speed and wheel life ratio, PORTACUT™ is the preferred choice for professionals who demand "only the best" in performance and jobsite safety.

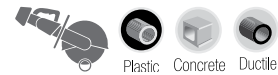
### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	20 mm STIHL	11-A 121	A-24	6,300	10	50
12"	1/8"	7/8" PARTNER	11-A 122	A-24	6,300	10	50
12"	1/8"	1"	11-A 123	A-24	6,300	10	50
14"	1/8"	20 mm STIHL	11-A 141	A-24	5,400	10	30
14"	1/8"	7/8" PARTNER	11-A 142	A-24	5,400	10	30
14"	1/8"	1"	11-A 143	A-24	5,400	10	30

⚠ California Proposition 65 Warning (See page 10 for details).

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	20 mm STIHL	11-D 121	C-24	6,300	10	50
12"	1/8"	7/8" PARTNER	11-D 122	C-24	6,300	10	50
12"	1/8"	1"	11-D 123	C-24	6,300	10	50
14"	1/8"	20 mm STIHL	11-D 141	C-24	5,400	10	30
14"	1/8"	7/8" PARTNER	11-D 142	C-24	5,400	10	30
14"	1/8"	1"	11-D 143	C-24	5,400	10	30

⚠ California Proposition 65 Warning (See page 10 for details).

## RAILCUT II™

Premium wheels for cutting all types of rail

RAILCUT II™ wheels are designed for fast cutting on all types of rails without glazing. They are heavily reinforced for maximum safety, smooth cutting and more cuts per wheel than ever before.

### RAILCUT II LONG LIFE

#### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
14"	5/32"	1"	11-V 143	A-24	5,400	10	30
16"	5/32"	1"	11-V 163	A-24	4,700	10	30

⚠ California Proposition 65 Warning (See page 10 for details).

### RAILCUT II FAST CUT

#### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
14"	5/32"	1"	11-V 145	A-24	5,400	10	30
16"	5/32"	1"	11-V 165	A-24	4,700	10	30

⚠ California Proposition 65 Warning (See page 10 for details).

#### Accessories

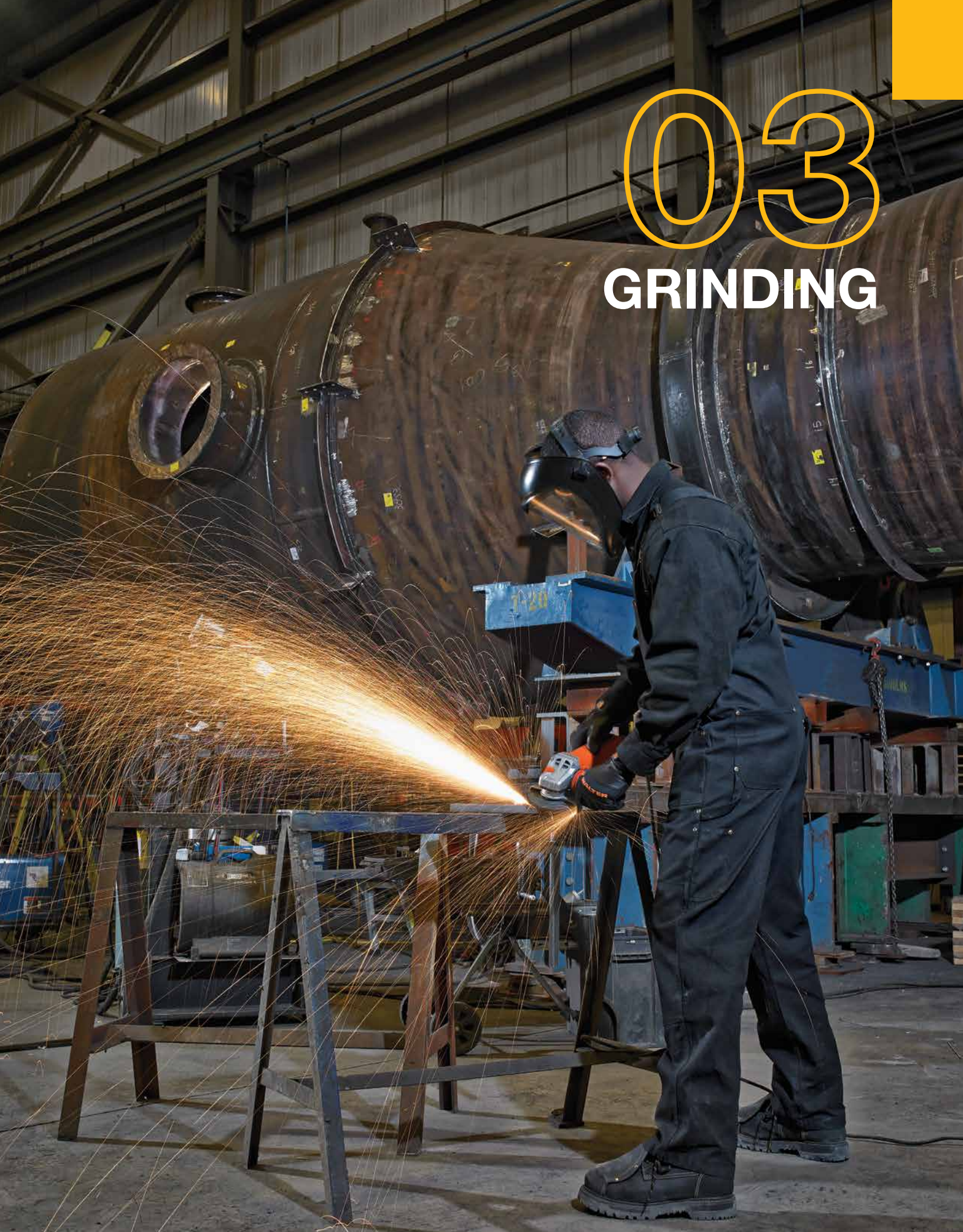
##### Reducer bushings

From	To	Order No.
1"	20 mm	10-A 989
1"	7/8"	10-A 988



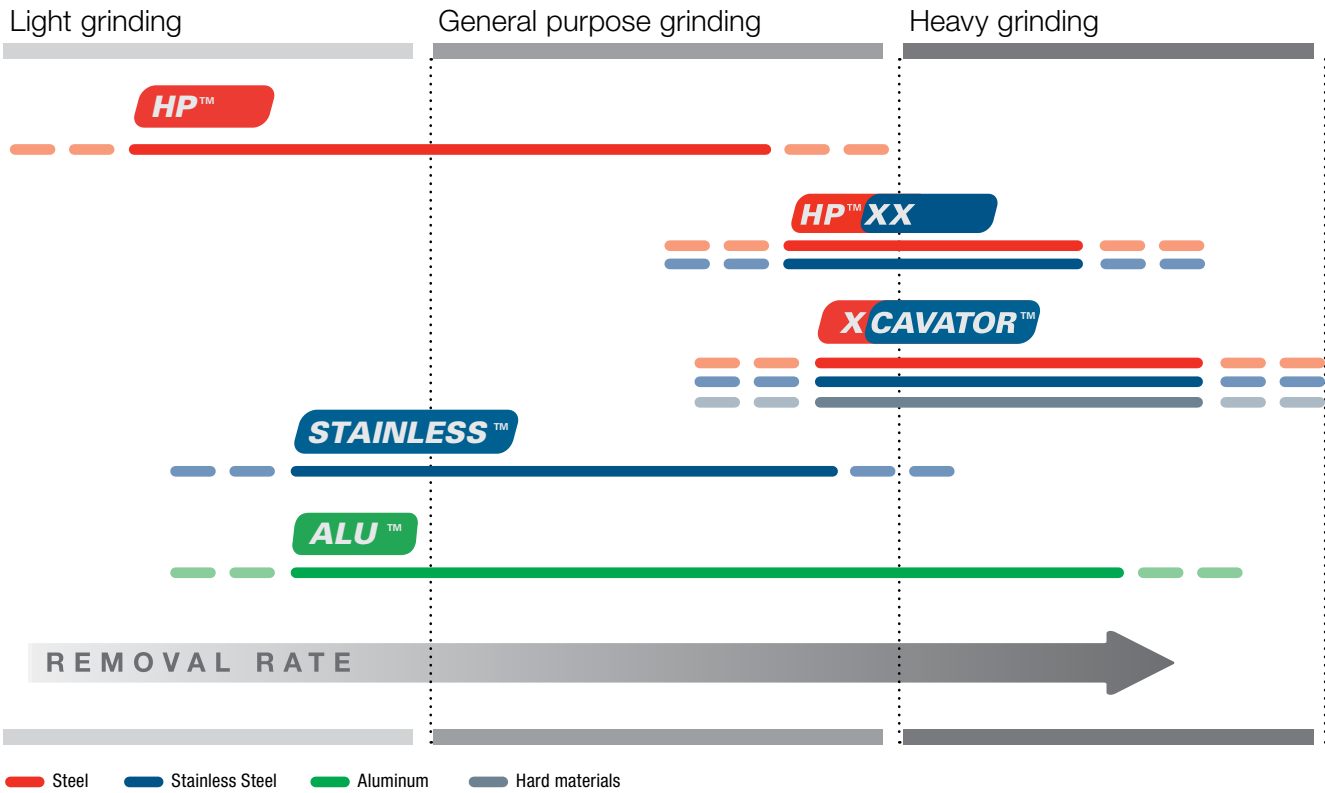
03

GRINDING



# GRINDING PRODUCTS AT A GLANCE

## RECOMMENDED BY TYPE OF USAGE



## EXCLUSIVE TO WALTER

### CONVENIENT AND SAFE!

#### SPIN-ON quick-change mounting

- Ultra resistant built-in threaded arbor for quick and easy disc changes while ensuring operator safety
- All the safety and comfort of using a wheel with a 5/8"-11 metal hub at just a fraction of the price





# XCAVATOR™

WITH COMFORT MAX™ TECHNOLOGY

The most aggressive removal rate on steel, stainless steel and hard metals

Xcavator™ has been redesigned to incorporate the latest innovation in Type 27 depressed center grinding wheels. The new Comfort Max™ Technology in the hub of the wheel helps to minimize vibration, providing the operator with more comfortable, ergonomic work conditions without sacrificing productivity. Xcavator™ delivers premium performance, the highest removal rate in steel and stainless steel and can confront some of the industry's toughest metals, such as tungsten carbide and quenched and tempered steel. Eliminate bottlenecks in your production process and reduce the amount of time spent grinding with the new and improved Xcavator™ with Comfort Max™ Technology, exclusive to Walter Surface Technologies.



## 1/4" TYPE 27



Fe-S-CI  
<0.1%



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-P 460	ZA-16	13,300	25	100
5"	1/4"	7/8"	08-P 510	ZA-16	12,200	25	100
6"	1/4"	7/8"	08-P 600	ZA-16	10,200	25	100
7"	1/4"	7/8"	08-P 700	ZA-16	8,600	25	50
9"	1/4"	7/8"	08-P 900	ZA-16	6,600	25	50

⚠ California Proposition 65 Warning (See page 10 for details).

## 1/4" TYPE 27S



Fe-S-CI  
<0.1%



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-P 450	ZA-16	13,300	20	80
5"	1/4"	5/8"-11	08-P 500	ZA-16	12,200	20	80

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).

## GUARANTEES

HIGH REMOVAL IN THE INDUSTRY'S TOUGHEST METALS

- ▶ The fastest removal rate, out of any of our grinding wheels
- ▶ Comfort Max™ Technology provides a smoother, more comfortable grinding experience without sacrificing productivity
- ▶ Patented multi-layer technology
- ▶ Advanced design prevents edge flaking for better balance and added safety
- ▶ Optimal power transfer from operator to working surface
- ▶ Fe-Free formulation (guaranteed not to contaminate stainless steel)



Video available at The Walter Network  
www.youtube.com/user/TheWalterNetwork



## SMOOTH GRINDING WITH AN AGGRESSIVE, CONTROLLED BITE

- ▶ High performance wheels grind off metal quickly
- ▶ Long wheel life
- ▶ The wheel of choice to reduce operator fatigue when grinding for long periods of time



## 1/4" HP™


High performance and exceptional comfort for everyday grinding

HP™ has set new industry benchmarks in general purpose grinding on steel. With an abrasive grain formula engineered for greater hardness and wear resistance, HP™ wheels remove metal faster and with less effort to provide one of the best overall values in grinding.

### 1/4" TYPE 27S SPIN-ON

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-B 450	A-24	13,300	20	80
4 1/2"	1/4"	5/8"-11 Metal hub	08-B 455	A-24	13,300	10	80
5"	1/4"	5/8"-11	08-B 500	A-24	12,200	20	80
5"	1/4"	5/8"-11 Metal hub	08-B 505	A-24	12,200	10	80
6"	1/4"	5/8"-11	08-B 630	A-24	10,200	20	80
7"	1/4"	5/8"-11 Metal hub	08-B 715	A-24	8,600	10	40
9"	1/4"	5/8"-11 Metal hub	08-B 915	A-24	6,600	10	40


Always use 1/4" wheels with flange 30-B 057.

 California Proposition 65 Warning (See page 10 for details).

### 1/4" TYPE 28S SPIN-ON

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-B 451	A-24	13,300	20	80
5"	1/4"	5/8"-11	08-B 501	A-24	12,200	20	80
7"	1/4"	5/8"-11 Metal hub	08-B 706	A-24	8,600	10	40
9"	1/4"	5/8"-11 Metal hub	08-B 906	A-24	6,600	10	40

Always use 1/4" wheels with flange 30-B 057.

 California Proposition 65 Warning (See page 10 for details).

### 1/4" TYPE 27

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/4"	3/8"	08-B 310	A-24	20,000	25	100
4"	1/4"	3/8"	08-B 410	A-24	15,300	25	100
4"	1/4"	5/8"	08-B 400	A-24	15,300	25	100
4 1/2"	1/4"	7/8"	08-B 460	A-24	13,300	25	100
5"	1/4"	7/8"	08-B 510	A-24	12,200	25	100
6"	1/4"	7/8"	08-B 600	A-24	10,200	25	100
7"	1/4"	7/8"	08-B 710	A-24	8,600	25	50
9"	1/4"	7/8"	08-B 910	A-24	6,600	25	50

 California Proposition 65 Warning (See page 10 for details).

### 1/4" TYPE 28

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
7"	1/4"	7/8"	08-B 701	A-24	8,600	25	50
9"	1/4"	7/8"	08-B 901	A-24	6,600	25	50

 California Proposition 65 Warning (See page 10 for details).

**GET DOUBLE THE LIFE OF YOUR  
HP WHEELS WHEN COMBINED  
WITH THE MINI-PLUS!**  
See page 154.



## 1/8" HP COMBO™

High performance cutting and grinding; all in one wheel

These 1/8" wheels set new standards for performance in combined depressed center wheels (for portable angle grinders). They are specially reinforced to withstand the stress in off-hand cutting operations. Whether cutting, grooving, notching or light grinding, these wheels are guaranteed to give you the longest wheel life, fastest material removal and maximum safety.



### 1/8" TYPE 27S SPIN-ON Steel

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	5/8"-11	08-B 452	A-30	13,300	25	200
4 1/2"	1/8"	5/8"-11 Metal hub	08-B 457	A-30	13,300	10	80
5"	1/8"	5/8"-11	08-B 502	A-30	12,200	25	200
5"	1/8"	5/8"-11 Metal hub	08-B 507	A-30	12,200	10	80
6"	1/8"	5/8"-11	08-B 630	A-24	10,200	25	100
7"	1/8"	5/8"-11 Metal hub	08-B 717	A-24	8,600	10	40
9"	1/8"	5/8"-11 Metal hub	08-B 917	A-24	6,600	10	40

Always use 1/8" wheels with flange 30-B 057.

 California Proposition 65 Warning (See page 10 for details).

### 1/8" TYPE 27 Steel

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/8"	3/8"	08-B 312	A-24	20,000	25	200
4"	1/8"	3/8"	08-B 412	A-24	15,300	25	200
4"	1/8"	5/8"	08-B 402	A-24	15,300	25	200
4 1/2"	1/8"	7/8"	08-B 462	A-30	13,300	25	200
5"	1/8"	7/8"	08-B 512	A-30	12,200	25	200
6"	1/8"	7/8"	08-B 602	A-30	10,200	25	100
7"	1/8"	7/8"	08-B 712	A-30	8,600	25	100
9"	1/8"	7/8"	08-B 912	A-30	6,600	25	100

 California Proposition 65 Warning (See page 10 for details).

## IDEAL FOR BOTH CUTTING AND GRINDING WORK

- ▷ Hold its cutting edge longer to provide more cuts per wheel
- ▷ Equipped with an exclusive metal hub cladding for extra strength and control
- ▷ Designed for maximum operator safety



Patented integrated center reinforcement design for extreme toughness



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



- ▷ Our longest lasting grinding wheel
- ▷ Improved bonding technology and state-of-the-art manufacturing ensure a working life that is unsurpassed

### Additional benefits of Spin-On **SPIN-ON**

- ▷ Built-in threaded arbor ensures minimum vibration for maximum operator comfort
- ▷ No need for a pin key



**GET DOUBLE THE LIFE OF YOUR HP XX WHEELS WHEN COMBINED WITH THE PRO 5 GRINDER!**  
See page 155

## HP XX™

Premium grinding at the lowest overall cost

HP XX™ incorporates the latest advances in abrasive grain, bonding and manufacturing technology to substantially lower your total grinding costs. With the longest life in our grinding wheel lineup and extremely aggressive material removal, HP XX™ will allow you to achieve the lowest overall cost of grinding on steel.

### 1/8" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	5/8"-11 Metal hub	08-H 457	A-24	13,300	10	80
4 1/2"	1/8"	7/8"	08-H 452	A-24	13,300	25	200
5"	1/8"	7/8"	08-H 502	A-24	12,200	25	200
6"	1/8"	7/8"	08-H 602	A-24	10,200	25	200
7"	1/8"	5/8"-11 Metal hub	08-H 707	A-24	8,600	10	40
7"	1/8"	7/8"	08-H 702	A-24	8,600	25	100
9"	1/8"	7/8"	08-H 902	A-24	6,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).

### 1/4" TYPE 27S



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-K 450	A-20	13,300	20	80
5"	1/4"	5/8"-11	08-K 500	A-20	12,200	20	80

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).

### 1/4" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11 Metal hub	08-H 455	ZA-24	13,300	10	80
4 1/2"	1/4"	7/8"	08-H 450	ZA-24	13,300	25	100
5"	1/4"	7/8"	08-H 500	ZA-24	12,200	25	100
6"	1/4"	7/8"	08-H 600	ZA-24	10,200	25	100
7"	1/4"	5/8"-11 Metal hub	08-H 705	ZA-24	8,600	10	40
7"	1/4"	7/8"	08-H 700	ZA-24	8,600	25	50
9"	1/4"	5/8"-11 Metal hub	08-H 905	ZA-24	6,600	10	40
9"	1/4"	7/8"	08-H 900	ZA-24	6,600	25	50

⚠ California Proposition 65 Warning (See page 10 for details).

### 1/4" TYPE 28



Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn
7"	1/4"	5/8"-11 Metal hub	08-K 706	ZA-16	8,600	10	40
7"	1/4"	7/8"	08-K 701	ZA-16	8,600	25	50
9"	1/4"	5/8"-11 Metal hub	08-K 906	ZA-16	6,600	10	40
9"	1/4"	7/8"	08-K 901	ZA-16	6,600	25	50

⚠ California Proposition 65 Warning (See page 10 for details).

All 7" x 1/8", 7" x 1/4", 9" x 1/8" and 9" x 1/4" depressed center wheels are available with threaded hubs 5/8"-11 mounted.

Order numbers for mounted wheels are 5-numbers higher.

For example:

08-B 712 + 5 = 08-B 717 = 7" x 1/8" x 5/8"-11

A-30-COMBO cutting/grinding wheel.

Std. Pkg.: 10.





**1/8" cutting and light grinding:**

- ▷ High performance cutting and intermittent light grinding
- ▷ Maintain a superior cutting edge



**1/4" grinding:**

- ▷ Fast and easy changeover of wheel for minimum downtime
- ▷ High performance and superior control in the most demanding grinding applications

**WILL NOT  
CONTAMINATE  
STAINLESS STEEL**

- ▷ Fast and cool stock removal
- ▷ High performance and superior control in the most demanding grinding applications

# STAINLESS™

Superior performance on stainless steel

When you need a wheel that is guaranteed not to contaminate stainless steel, this is the wheel for the job. These wheels do not contain any iron, sulfur or chlorine and are designed to hug the workpiece for controlled grinding and a smooth, high quality finish.

**1/8" TYPE 27S** **SPIN-ON**

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	5/8"-11	08-F 452	A-30	13,300	25	200
4 1/2"	1/8"	5/8"-11 Metal hub	08-F 457	A-30	13,300	10	80
5"	1/8"	5/8"-11	08-F 502	A-30	12,200	25	200
7"	1/8"	5/8"-11 Metal hub	08-F 707	A-30	8,600	10	40

Always use with flange 30-B 057.

California Proposition 65 Warning (See page 10 for details).

**1/8" TYPE 27**

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-F 462	A-30	13,300	25	200
5"	1/8"	7/8"	08-F 512	A-30	12,200	25	200
6"	1/8"	7/8"	08-F 602	A-30	10,200	25	100
7"	1/8"	7/8"	08-F 702	A-30	8,600	25	100
9"	1/8"	7/8"	08-F 902	A-30	6,600	25	100

Always use 1/8" wheels with flange 30-B 057.

California Proposition 65 Warning (See page 10 for details).

**1/4" TYPE 27S** **SPIN-ON**

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-F 450	A-30	13,300	20	80
4 1/2"	1/4"	5/8"-11 Metal hub	08-F 455	A-30	13,300	10	80
5"	1/4"	5/8"-11	08-F 500	A-30	12,200	20	80
7"	1/4"	5/8"-11 Metal hub	08-F 705	A-30	8,600	10	40
9"	1/4"	5/8"-11 Metal hub	08-F 905	A-30	6,600	10	40

California Proposition 65 Warning (See page 10 for details).

**1/4" TYPE 27**

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-F 460	A-30	13,300	25	100
5"	1/4"	7/8"	08-F 510	A-30	12,200	25	100
6"	1/4"	7/8"	08-F 600	A-30	10,200	25	100
7"	1/4"	7/8"	08-F 700	A-30	8,600	25	50
9"	1/4"	7/8"	08-F 900	A-30	6,600	25	50

California Proposition 65 Warning (See page 10 for details).

**1/4" TYPE 28S** **SPIN-ON**

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-F 451	A-30	13,300	10	80
5"	1/4"	5/8"-11	08-F 501	A-30	12,200	10	80

Always use 1/4" wheels with flange 30-B 057.

California Proposition 65 Warning (See page 10 for details).



## ALU™

For use on aluminum and other soft metals

These wheels will not clog or glaze when working with aluminum or other non-ferrous metals. They are free of waxes and lubricants, so there is no need to clean the surface before welding or applying a surface coating, eliminating a time-consuming step in surface preparation.



### 1/8" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-L 452	A-24	13,300	25	200
5"	1/8"	7/8"	08-L 502	A-24	12,200	25	200
6"	1/8"	7/8"	08-L 602	A-24	10,200	25	100
7"	1/8"	7/8"	08-L 702	A-24	8,600	25	100
7"	1/8"	7/8" Metal hub	08-L 707	A-24	8,600	10	40
9"	1/8"	7/8"	08-L 902	A-24	6,600	25	100
9"	1/8"	7/8" Metal hub	08-L 907	A-24	6,600	10	40

⚠ California Proposition 65 Warning (See page 10 for details).

### 1/4" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-L 450	A-24	13,300	25	100
4 1/2"	1/4"	7/8" Metal hub	08-L 455	A-24	13,300	10	80
5"	1/4"	7/8"	08-L 500	A-24	12,200	25	100
6"	1/4"	7/8"	08-L 600	A-24	10,200	25	100
7"	1/4"	7/8"	08-L 700	A-24	8,600	25	50
7"	1/4"	7/8" Metal hub	08-L 705	A-24	8,600	10	40
9"	1/4"	7/8"	08-L 900	A-24	6,600	25	50
9"	1/4"	7/8" Metal hub	08-L 905	A-24	6,600	10	40

⚠ California Proposition 65 Warning (See page 10 for details).

## HP CUP WHEELS

Walter HP cup wheels are designed for rough grinding or snagging work. Each wheel has a deeply anchored wrap-around steel hub for maximum safety and long life. A 5/8"-11 threaded arbor for SPIN-ON mounting reduces downtime for wheel changes and helps you finish your toughest grinding jobs faster.

### TYPE 11



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	A-16	12-A 004	9,100	1	10
5"	5/8"-11	A-16	12-A 005	7,260	1	10
6"	5/8"-11	A-16	12-A 006	6,050	1	10

⚠ California Proposition 65 Warning (See page 10 for details).

### TYPE 11



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	C-16	12-B 004	9,100	1	10
5"	5/8"-11	C-16	12-B 005	7,260	1	10
6"	5/8"-11	C-16	12-B 006	6,050	1	10

⚠ California Proposition 65 Warning (See page 10 for details).

## NO CLOGGING IN ANY TYPE OF ALUMINUM

### 1/8" cutting and light grinding:

- ▷ Formulated for cutting but may also be used for intermittent light grinding
- ▷ Fast and free cutting

### 1/4" grinding:

- ▷ Fast removal rate and long wheel life
- ▷ Free of waxes and lubricants



- ▷ For heavy-duty grinding
- ▷ Excellent wheel life
- ▷ Engineered for maximum operator safety



- ▷ Thin for fast and free cutting and grooving
- ▷ Can also be used for cutting sheet metal

- ▷ Ideal for use with low power angle grinders
- ▷ Grind joint welds with ease
- ▷ Can be used for intermittent light grinding, facing and bevelling work

- ▷ Formulated for light grinding, cutting and notching



## PIPEFITTER™

Designed for premium performance in pipeline construction

These wheels are specially formulated and reinforced for grinding the root pass and joint welds between passes in pipeline construction and pipe fabrication. They do not contain iron, sulfur or chlorine (Fe, S, Cl) and are guaranteed not to contaminate stainless steel.

### 3/32" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/32"	7/8"	08-N 453	A-36	13,300	25	200
5"	3/32"	7/8"	08-N 503	A-36	12,200	25	200
6"	3/32"	7/8"	08-N 603	A-36	10,200	25	100
7"	3/32"	7/8"	08-N 703	A-36	8,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).

### 1/8" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-N 452	A-36	13,300	25	200
5"	1/8"	7/8"	08-N 502	A-36	12,200	25	200
6"	1/8"	7/8"	08-N 602	A-24	10,200	25	100
7"	1/8"	7/8"	08-N 702	A-24	8,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).

### 5/32" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/32"	7/8"	08-N 454	A-36	13,300	25	200
5"	5/32"	7/8"	08-N 504	A-36	12,200	25	200
6"	5/32"	7/8"	08-N 604	A-20	10,200	25	100
7"	5/32"	7/8"	08-N 704	A-20	8,600	25	100
9"	5/32"	7/8"	08-N 904	A-20	6,600	25	100

⚠ California Proposition 65 Warning (See page 10 for details).

### TYPE 27S SPIN-ON



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
5"	3/32"	5/8"-11	08-N 533	A-36	12,200	25	200
6"	3/32"	5/8"-11	08-N 633	A-36	10,200	25	100
6"	5/32"	5/8"-11	08-N 634	A-20	10,200	25	100
7"	3/32"	5/8"-11 Metal hub	08-N 708	A-20	8,600	10	40
7"	5/32"	5/8"-11 Metal hub	08-N 709	A-20	8,600	10	40
9"	5/32"	5/8"-11 Metal hub	08-N 909	A-20	6,600	10	40

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).

## CONCRETE™

High performance grinding and cutting

These wheels have multiple high strength reinforcements and durable bond for extra safety in tough grinding and cutting applications. They are designed for fast material removal and smooth grinding and cutting of concrete, masonry, stone and other similar building materials.



### 1/8" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-D 452	C-24	13,300	25	200
5"	1/8"	7/8"	08-D 502	C-24	12,200	25	200
7"	1/8"	7/8"	08-D 702	C-24	8,600	25	100

\* Item available through special order. Allow for additional delivery time.  
Ask your Territory Manager for details.

⚠ California Proposition 65 Warning (See page 10 for details).

### 1/4" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-E 450	C-24	13,300	25	100
5"	1/4"	7/8"	08-E 500	C-24	12,200	25	100
7"	1/4"	7/8"	08-E 700	C-24	8,600	25	50

\* Item available through special order. Allow for additional delivery time.  
Ask your Territory Manager for details.

⚠ California Proposition 65 Warning (See page 10 for details).

- ▶ Fast and free cutting
- ▶ Formulated for cutting but may also be used for intermittent light grinding

- ▶ Excellent control in demanding applications
- ▶ Extra hard silicon carbide grain for fast material removal and long wheel life
- ▶ Superior performance in hard facing and cast iron

## PLUGS AND CONES

Very popular in foundries, steel mills and fabricating shops for heavy stock removal in hard to reach areas. Each abrasive has an internal threaded arbor for direct mounting.



Shape	Dia.	Lenght	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
16	1 1/2"	2 1/2"	3/8"-24	ZA16	12-C 101	24,200	1	10
16	1 1/2"	3"	5/8"-11	ZA16	12-C 111	24,200	1	10
16	2"	3"	5/8"-11	ZA16	12-C 121	18,100	1	10
17	1 1/2"	3"	5/8"-11	ZA16	12-C 401	24,200	1	10
17	2"	4"	5/8"-11	ZA16	12-C 421	18,100	1	10
18	1"	2"	3/8"-24	ZA16	12-C 301	36,200	1	10
18	1 1/2"	3"	5/8"-11	ZA16	12-C 311	24,200	1	10
18	2"	3"	5/8"-11	ZA16	12-C 321	18,100	1	10
18R	1 1/2"	3"	5/8"-11	ZA16	12-C 201	24,200	1	10
18R	2"	3"	5/8"-11	ZA16	12-C 211	18,100	1	10
18R	3"	4"	5/8"-11	ZA16	12-C 221	12,100	1	10

\* Item available through special order. Allow for additional delivery time.  
Ask your Territory Manager for details.

⚠ California Proposition 65 Warning (See page 10 for details).



- ▶ For grinding, shaping, cleaning, blending and deburring of internal and external contours
- ▶ Fast material removal, long life



## MOUNTED POINTS

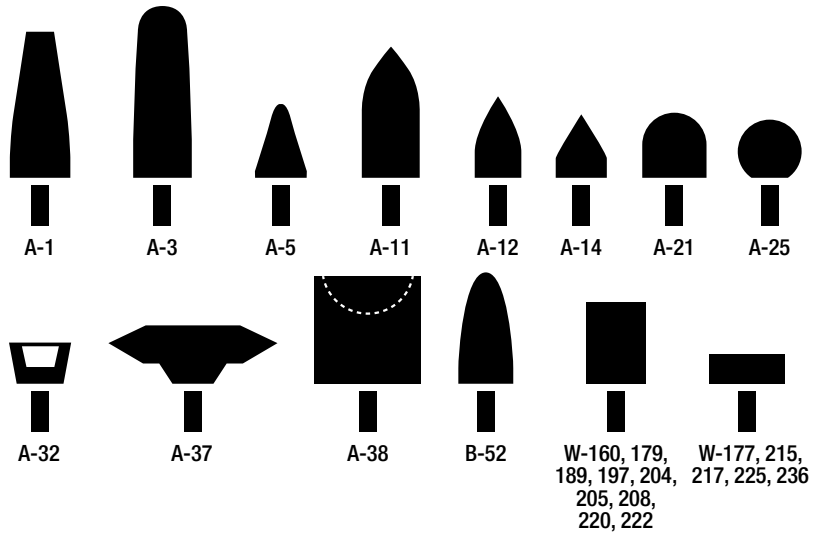
Versatile tools for fitting, shaping and enlarging holes

These mounted points are ideal for finishing work in confined spaces. They are made from the finest grade of abrasive grains, and each is perfectly balanced to minimize vibration.

**Blue-grey for mild steel and cast iron**

**Orange for tool and high tensile steel**

**Resin bond for stainless steel**



- ▷ For fitting, shaping, enlarging holes and finishing work in confined spaces
- ▷ For use on die grinders, point grinders, flexible shaft machines, etc.
- ▷ A complete line to address all your specific needs
- ▷ Faster removal AND longer lasting



### BLUE-GREY

Type	Dia.	Length	Shaft	Order No.	Grit	Max. RPM	Std. Pkg.	Std. Ctn.
A-1	3/4"	2 1/2"	1/4"	12-D 002	A36	19,800	1	10
A-3	1"	2 3/4"	1/4"	12-D 012	A36	16,100	1	10
A-5	3/4"	1 1/8"	1/4"	12-D 022	A36	45,000	1	10
A-11	7/8"	2"	1/4"	12-D 032	A36	19,800	1	10
A-12	1 1/16"	1 1/4"	1/4"	12-D 037	A36	48,000	1	10
A-14	1 1/16"	7/8"	1/4"	12-D 047	A36	48,000	1	10
A-21	1"	1"	1/4"	12-D 057	A36	34,500	1	10
A-25	1"	1"	1/4"	12-D 077	A36	35,600	1	10
A-32	1"	5/8"	1/4"	12-D 092	A36	38,200	1	10
W-179	3/8"	1 1/4"	1/4"	12-D 592	A36	45,750	1	10
W-197	5/8"	2"	1/4"	12-D 677	A36	21,000	1	10
W-205	3/4"	1"	1/4"	12-D 722	A36	34,500	1	10
W-217	1"	3/8"	1/4"	12-D 782	A36	38,200	1	10
W-220	1"	1"	1/4"	12-D 797	A36	25,500	1	10
W-222	1"	2"	1/4"	12-D 807	A36	15,900	1	10

⚠ California Proposition 65 Warning (See page 10 for details).

**Tech tip!**

Use dressing stones to extend product life and allow mounted points or bench grinding wheels to cut faster and produce a better surface finish.

**ORANGE**

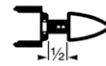
Type	Dia.	Length	Shaft	Order No.	Grit	Max. RPM	Std. Pkg.	Std. Ctn.
A-1	3/4"	2 1/2"	1/4"	12-D 001	A60	19,800	1	10
A-3	1"	2 3/4"	1/4"	12-D 011	A60	16,100	1	10
A-5	3/4"	1 1/8"	1/4"	12-D 021	A60	45,000	1	10
A-11	7/8"	2"	1/4"	12-D 031	A60	19,800	1	10
A-12	1 1/16"	1 1/4"	1/4"	12-D 036	A60	48,000	1	10
A-14	1 1/16"	7/8"	1/4"	12-D 046	A60	48,000	1	10
A-21	1"	1"	1/4"	12-D 056	A60	34,500	1	10
A-25	1"	1"	1/4"	12-D 076	A60	35,600	1	10
A-32	1"	5/8"	1/4"	12-D 091	A60	38,200	1	10
A-37	1 1/4"	1/4"	1/4"	12-D 116	A60	30,560	1	10
W-179	3/8"	1 1/4"	1/4"	12-D 591	A60	45,750	1	10
W-197	5/8"	2"	1/4"	12-D 676	A60	21,000	1	10
W-205	3/4"	1"	1/4"	12-D 721	A60	34,500	1	10
W-217	1"	3/8"	1/4"	12-D 781	A60	38,200	1	10
W-220	1"	1"	1/4"	12-D 796	A60	25,500	1	10
W-222	1"	2"	1/4"	12-D 806	A60	15,900	1	10

⚠ California Proposition 65 Warning (See page 10 for details).

**Accessories****Dressing stones**

Dimensions	Order No.	Std. Pkg.	Std. Ctn.
1" x 1" x 6"	12-D 900	1	10
1" x 1" x 8"	12-D 901	1	10

\* Max. RPM listed are for 1/2" free shaft.

**RESIN BOND**

Type	Dia.	Length	Shaft	Order No.	Grit	Max. RPM	Std. Pkg.	Std. Ctn.
A-3	1"	2 3/4"	1/4"	12-D 013	A36	16,100	1	10
A-5	3/4"	1 1/8"	1/4"	12-D 023	A36	45,000	1	10
A-11	7/8"	2"	1/4"	12-D 033	A36	19,800	1	10
A-12	1 1/16"	1 1/4"	1/4"	12-D 038	A36	48,000	1	10
A-21	1"	1"	1/4"	12-D 058	A36	34,500	1	10
A-25	1"	1"	1/4"	12-D 078	A36	35,600	1	10
W-197	5/8"	2"	1/4"	12-D 678	A36	21,000	1	10
W-205	3/4"	1"	1/4"	12-D 723	A36	34,500	1	10
W-217	1"	3/8"	1/4"	12-D 783	A36	38,200	1	10
W-220	1"	1"	1/4"	12-D 798	A36	25,500	1	10

⚠ California Proposition 65 Warning (See page 10 for details).



## BENCH GRINDING WHEELS

Long lasting and dependable, our bench grinding wheels are perfect for general purpose sharpening, shaping or deburring on bench and pedestal grinders. All wheels are supplied with nested reducer bushings to fit on 1", 3/4", 5/8" and 1/2" shafts.

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
6"	3/4"	1"	12-E 324	36 coarse	4,100	1	1
6"	3/4"	1"	12-E 325	46 medium	4,100	1	1
6"	3/4"	1"	12-E 328	80 fine	4,100	1	1
6"	1"	1"	12-E 344	36 coarse	4,100	1	1
6"	1"	1"	12-E 345	46 medium	4,100	1	1
6"	1"	1"	12-E 348	80 fine	4,100	1	1
7"	1"	1"	12-E 444	36 coarse	3,600	1	1
7"	1"	1"	12-E 447	60 fine	3,600	1	1
8"	7/8"	1"	12-E 533	24 coarse	3,600	1	1
8"	7/8"	1"	12-E 537	60 fine	3,600	1	1
8"	1"	1"	12-E 543	24 coarse	3,600	1	1
8"	1"	1"	12-E 545	46 medium	3,600	1	1
8"	1"	1"	12-E 547	60 fine	3,600	1	1
8"	1 1/4"	1"	12-E 553	24 coarse	3,600	1	1
8"	1 1/4"	1"	12-E 557	60 fine	3,600	1	1
10"	1"	1"	12-E 643	24 coarse	2,500	1	1
10"	1"	1"	12-E 647	60 fine	2,500	1	1
10"	1 1/4"	1"	12-E 657	60 fine	2,500	1	1

⚠ California Proposition 65 Warning (See page 10 for details).

### Accessories

#### Reducer bushings

	Order No.
Set 3/4" wide, from 1" to 3/4", 5/8" and 1/2"	12-E 006
Set 1" wide, from 1" to 3/4", 5/8" and 1/2"	12-E 007
Pair of bushings from 1" to 7/8"	12-E 008

#### Wheel dressers

	Order No.
Standard type	12-E 001
Heavy-duty	12-E 002

#### Replacement wheels

	Order No.
Set for 12-E 001	12-E 004
Set for 12-E 002	12-E 005

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
6"	3/4"	1"	12-E 329	80 fine	4,100	1	1
7"	1"	1"	12-E 449	80 fine	3,600	1	1
8"	1"	1"	12-E 549	80 fine	3,600	1	1
10"	1"	1"	12-E 649	80 fine	2,500	1	1

⚠ California Proposition 65 Warning (See page 10 for details).

04

BLENDING



# BLENDING PRODUCTS AT A GLANCE

## RECOMMENDED BY TYPE OF USAGE



Our **Enduro-Flex** flap discs feature trimmable backings made with our proprietary ECO-TRIM wood fiber backing material. When the flaps wear down to the outer diameter of the backing, trim away 1/4" of the backing at a time (up to three times total) to expose fresh abrasive grain, extending disc life and giving you a fresh new cutting edge.



\* Results based on a 5" Enduro-Flex used on steel.

\* Trimmed once

\* Trimmed twice



## ENDURO-FLEX ALU™

High-performance flap disc for aluminum surfaces

The new Enduro-Flex ALU™ uses a superior zirconia alumina grain blend that is free of iron, sulfur and chlorine to achieve maximum results when blending on aluminum surfaces. It's built using a special coating for extra long life. Thanks to its high removal rates, and resistance to glaze buildup, Enduro-Flex ALU™ is the optimal choice for operators looking to enhance both quality and productivity when working with aluminum or other heat sensitive metals.



### TYPE 27



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
7"	7/8"	40	15-U 704	8,600	10	40
7"	7/8"	60	15-U 706	8,600	10	40
7"	7/8"	80	15-U 708	8,600	10	40

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).

- ▷ Specially formulated for performance and productivity on aluminum surfaces
- ▷ Special coating prevents load up and glazing and extends disc life
- ▷ Eco-Trim™ trimmable backing extends disc life by up to 3 times

### TYPE 27S



SPIN-ON



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4-1/2"	5/8"-11	40	06-U 454	13,300	10	40
4-1/2"	5/8"-11	60	06-U 456	13,300	10	40
4-1/2"	5/8"-11	80	06-U 458	13,300	10	40
5"	5/8"-11	40	06-U 504	12,200	10	40
5"	5/8"-11	60	06-U 506	12,200	10	40
5"	5/8"-11	80	06-U 508	12,200	10	40
6"	5/8"-11	40	06-U 606	10,200	10	40
6"	5/8"-11	60	06-U 608	10,200	10	40
6"	5/8"-11	80	06-U 604	10,200	10	40

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).



THE LONGEST  
LASTING  
FLAP DISCS  
ON THE  
MARKET

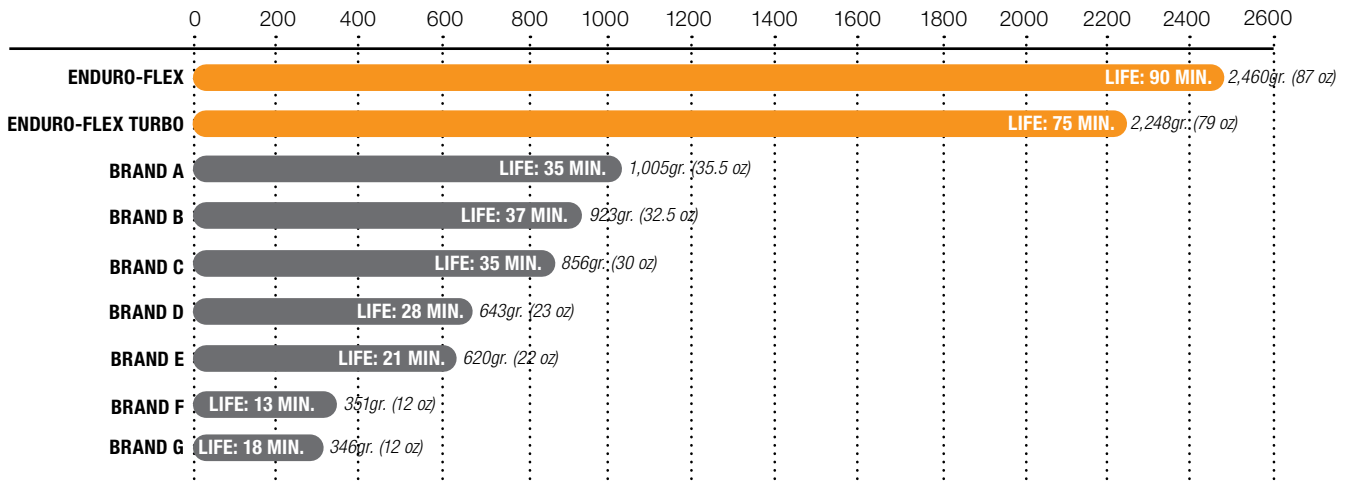


## ENDURO-FLEX

COMPARISON TEST BETWEEN 5" FLAP DISCS, GRIT 40

Tests were done using the PRO 5 grinder

**Total quantity of grams (ounces) removed on steel**





## ENDURO-FLEX™

The longest life and highest overall material removal in the industry

ENDURO-FLEX™ outperforms all competitive flap discs thanks to its innovative design and exclusive abrasive grain blend. Featuring an ECO-TRIM™ backing that can be trimmed back to extend disc life, ENDURO-FLEX™ is the longest lasting flap disc in the industry and removes more material than any competitive flap disc. Your employees will spend more time getting the job done and less time making trips to the tool crib, saving you time and money while maximizing your productivity.

### THE LONGEST LIFE FLAP DISC ON THE MARKET



- ▷ Longest lasting flap disc on the market
- ▷ Highest overall material removal in the industry
- ▷ New Eco-Trim backing is easier to trim and environmentally friendly
- ▷ Remove welds and finish surfaces in one step
- ▷ Quiet, vibration-free grinding
- ▷ Lightweight

**INCREASE YOUR REMOVAL RATE BY A MINIMUM OF 25% BY COMBINING YOUR ENDURO-FLEX TURBO™ WITH THE PRO 5 OR BIG 6 GRINDER!**  
See page 155.



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

#### TYPE 27S SPIN-ON



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	40	06-B 454	13,300	10	40
4 1/2"	5/8"-11	60	06-B 456	13,300	10	40
4 1/2"	5/8"-11	80	06-B 458	13,300	10	40
4 1/2"	5/8"-11	120	06-B 462	13,300	10	40
5"	5/8"-11	40	06-B 504	12,200	10	40
5"	5/8"-11	60	06-B 506	12,200	10	40
5"	5/8"-11	80	06-B 508	12,200	10	40
5"	5/8"-11	120	06-B 512	12,200	10	40
6"	5/8"-11	40	06-B 604	10,200	10	40
6"	5/8"-11	60	06-B 606	10,200	10	40
6"	5/8"-11	80	06-B 608	10,200	10	40
6"	5/8"-11	120	06-B 612	10,200	10	40

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).

#### TYPE 27



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	40	15-R 454	13,300	10	40
4 1/2"	7/8"	60	15-R 456	13,300	10	40
4 1/2"	7/8"	80	15-R 458	13,300	10	40
4 1/2"	7/8"	120	15-R 462	13,300	10	40
5"	7/8"	40	15-R 504	12,200	10	40
5"	7/8"	60	15-R 506	12,200	10	40
5"	7/8"	80	15-R 508	12,200	10	40
5"	7/8"	120	15-R 512	12,200	10	40
6"	7/8"	40	15-R 604	10,200	10	40
6"	7/8"	60	15-R 606	10,200	10	40
6"	7/8"	80	15-R 608	10,200	10	40
6"	7/8"	120	15-R 612	10,200	10	40
7"	7/8"	40	15-R 704	8,600	10	40
7"	7/8"	60	15-R 706	8,600	10	40
7"	7/8"	80	15-R 708	8,600	10	40
7"	7/8"	120	15-R 712	8,600	10	40

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).

# ENDURO-FLEX™ STAINLESS

Guaranteed not to contaminate stainless steel

ENDURO-FLEX™ Stainless offers all the benefits of the standard ENDURO-FLEX™ with a formula free of iron, sulfur and chlorine to meet quality control objectives in sensitive operations. ENDURO-FLEX™ Stainless is the flap disc of choice for workers nationwide for blending applications on stainless steel and other heat sensitive alloys.

**CONSISTENT FINISH**  
WITHOUT DISCOLORATION



**TYPE 27S** **SPIN-ON** **Fe-S-Cl <0.1%** Inox.

Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8" -11	40	06-F 454	13,300	10	40
4 1/2"	5/8" -11	60	06-F 456	13,300	10	40
4 1/2"	5/8" -11	80	06-F 458	13,300	10	40
4 1/2"	5/8" -11	120	06-F 462	13,300	10	40
5"	5/8" -11	40	06-F 504	12,200	10	40
5"	5/8" -11	60	06-F 506	12,200	10	40
5"	5/8" -11	80	06-F 508	12,200	10	40
5"	5/8" -11	120	06-F 512	12,200	10	40
6"	5/8" -11	40	06-F 604	10,200	10	40
6"	5/8" -11	60	06-F 606	10,200	10	40
6"	5/8" -11	80	06-F 608	10,200	10	40
6"	5/8" -11	120	06-F 612	10,200	10	40

Always use with flange 30-B 057.

**TYPE 27** **Fe-S-Cl <0.1%** Inox.

Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	40	15-Q 454	13,300	10	40
4 1/2"	7/8"	60	15-Q 456	13,300	10	40
4 1/2"	7/8"	80	15-Q 458	13,300	10	40
4 1/2"	7/8"	120	15-Q 462	13,300	10	40
5"	7/8"	40	15-Q 504	12,200	10	40
5"	7/8"	60	15-Q 506	12,200	10	40
5"	7/8"	80	15-Q 508	12,200	10	40
5"	7/8"	120	15-Q 512	12,200	10	40
7"	7/8"	40	15-Q 704	8,600	10	40
7"	7/8"	60	15-Q 706	8,600	10	40
7"	7/8"	80	15-Q 708	8,600	10	40
7"	7/8"	120	15-Q 712	8,600	10	40

Always use with flange 30-B 057.

- ▷ Environmentally friendly
- ▷ Superior performance on all heat sensitive metals
- ▷ Will not load or glaze
- ▷ The coolest cutting action on stainless
- ▷ The fastest removal rate and best overall life on non-ferrous alloys





## ENDURO-FLEX 2-IN-1™ FINISHING DISC

One-step finishing

Enduro-Flex 2-in-1™ flap discs remove TIG welds and finish the surface in just one step, substantially reducing your finishing costs. Save time and reduce your inventory by using just one disc instead of two or more to perform the same job.

Long lasting

Developed to blend light TIG welds, break edges, blend and remove surface imperfections, oxidation, discoloration etc. One Enduro-Flex 2-in-1™ disc will do the job of over twenty traditional discs while providing a smooth and consistent surface finish.

▶ Allows operators to achieve a food grade finish

### Tech tip!

**SPEED** To ensure the longest life and best performance, use at optimal speed of 4,000 to 6,000 RPM

**PRESSURE** More pressure will increase removal rate while less pressure will improve the surface finish

**WORKING ANGLE** For best performance, always use at a working angle of 4° to 10°. Never use flat.

TYPE 27S		SPIN-ON		Steel Inox. Alu. + n.t. metals		
Dia.	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 ½"	5/8"-11	15-1 453	13,300	4,000 to 6,000	10	40
5"	5/8"-11	15-1 503	12,200	4,000 to 6,000	10	40

Always use with flange 30-B 057.



## ENDURO-FLEX 2-IN-1™ TURBO FINISHING DISC

The most versatile and fastest finishing disc on the market

Achieving the ideal finish when blending welds has never been easier. With the new ENDURO-FLEX 2-in-1™ TURBO, remove material faster and get the finish you want in fewer steps. Designed for steel, stainless steel and aluminum, the ENDURO-FLEX 2-in-1™ TURBO provides unmatched versatility. Incorporating Walter's Cyclone™ Technology and high-tech Blendex™ Technology, the result is a smooth finish and product life that is simply unsurpassed.

Sanding flaps

- ▶ Special low heat generating top coat
- ▶ Non-loading
- ▶ High removal rate



BLENDEx flaps

- ▶ Combination that gives great performance on aluminum
- ▶ Non-woven material, will not smear or contaminate the workpiece
- ▶ Tear resistant for longest life



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

TYPE 27S		SPIN-ON		Steel Inox. Alu. + n.t. metals		
Dia.	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 ½"	5/8"-11	15-1 451	13,300	4,000 to 6,000	10	40
5"	5/8"-11	15-1 501	12,200	4,000 to 6,000	10	40

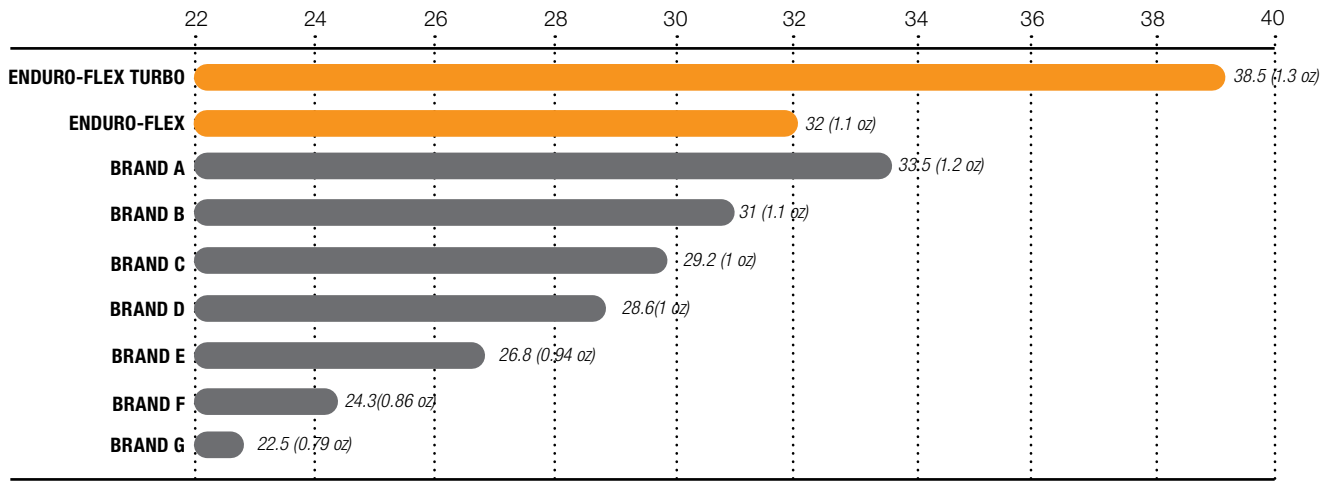
Always use with flange 30-B 057.



ENDURO-FLEX  
TURBO  
THE FASTEST  
FLAP DISCS  
ON THE  
MARKET

**ENDURO-FLEX TURBO**  
COMPARISON TESTS BETWEEN 5" FLAP DISCS

Tests were done using the PRO 5 grinder  
**Removal rate on steel - gr. (oz.)/min.**





- ▷ Exclusive flap configuration and Cyclone™ Technology for ultra fast metal removal
- ▷ Turbofan™ Cooling keeps the workpiece cooler for longer disc life
- ▷ Guaranteed cost savings!

**INCREASE YOUR REMOVAL RATE BY A MINIMUM OF 30% BY COMBINING YOUR ENDURO-FLEX TURBO WITH THE PRO 5 OR BIG 6 GRINDER!**  
See page 155.



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

## ENDURO-FLEX TURBO™

The fastest cutting flap disc on the market

If time is money, then ENDURO-FLEX TURBO is worth its weight in gold. This extremely aggressive flap disc removes material like a 36 grit but leaves a 60 grit, paint-ready finish, saving you a valuable step in the finishing process. The innovative backing pad design allows air to cool the workpiece, increasing product life and minimizing heat transfer to the surface. Whether you are working with steel or stainless steel, ENDURO-FLEX TURBO will help you blend welds and break edges faster, guaranteed.

**HIGHEST  
REMOVAL RATE  
IN THE INDUSTRY**

### TYPE 27S



Dia.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	06-A 452	36/60	13,300	10	40
4 1/2"	5/8"-11	06-A 458	80	13,300	10	40
5"	5/8"-11	06-A 502	36/60	12,000	10	40
5"	5/8"-11	06-A 508	80	12,200	10	40
6"	5/8"-11	06-A 602	36/60	10,200	10	40

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).

### TYPE 27



Dia.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	06-A 462	36/60	13,300	10	40
5"	7/8"	06-A 512	36/60	12,200	10	40
7"	7/8"	06-A 712	36/60	8,600	10	40

Always use with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).



# ERGOFLEX™

When employee safety and ergonomics are top priorities

ErgoFlex™ is an abrasive that combines our proprietary Cyclone™ Technology grain blend with a Type 29 disc design to provide a solution for professionals looking to maximize workplace safety and ergonomics without sacrificing productivity. These wheels allow for a more comfortable working angle than Type 27 depressed center grinding wheels while minimizing the amount of noise and dust created during weld blending operations. The aggressive 36 grit abrasive grain blend also removes material quickly, allowing you to strike a perfect balance between comfort, safety and productivity.

- ▷ **Advanced Cyclone™ Technology abrasive grain blend removes material fast for improved productivity**
- ▷ **Designed for extremely smooth, comfortable blending of both flat and curved surfaces**
- ▷ **Reduces the amount of dust generated by 95% compared to traditional grinding wheels**
- ▷ **Reduces the level of noise generated by 50% compared to a traditional grinding wheel**
- ▷ **Less risk of gouging compared to traditional grinding wheels**



**TYPE 29**

Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	36	15-T 453	13,300	25	200
4 1/2"	7/8"	60	15-T 456	13,300	25	200
4 1/2"	7/8"	80	15-T 458	13,300	25	200
5"	7/8"	36	15-T 503	12,200	25	200
5"	7/8"	60	15-T 506	13,000	25	200
5"	7/8"	80	15-T 508	13,000	25	200
6"	7/8"	36	15-T 603	10,200	25	100
6"	7/8"	60	15-T 606	10,200	25	100
6"	7/8"	80	15-T 608	10,200	25	100
7"	7/8"	36	15-T 703	8,600	25	100
7"	7/8"	60	15-T 706	8,600	25	100
7"	7/8"	80	15-T 708	8,600	25	100

Always use with flange 30-B 030.

California Proposition 65 Warning (See page 10 for details).

### Tech tip!

Use with backing flange set 30-B 030 for best results. (Each pack of 25 comes with one backing flange set for your convenience)



### Accessories

Backing flange set	<b>Order No. 30-B 030</b>
Ergoflange 1/4" (6 mm) Pack of 5	<b>Order No. 30-B 031</b>



# FLEXCUT™

Premium performance on curved or uneven surfaces

FLEXCUT™, the leading flexible grinding wheel for over 25 years, is specially formulated to deliver superior removal on all ferrous and non-ferrous metals without clogging or loading.



## TYPE 29



Fe-S-CI  
<0.1%



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	3/8"	A-36-X-FLEX	15-L 303	* 20,400	25	200
3"	3/8"	A-60-X-FLEX	15-L 306	* 20,400	25	200
4 1/2"	7/8"	A-36-X-FLEX	15-L 463	13,300	25	200
5"	7/8"	A-36-X-FLEX	15-L 513	12,200	25	200
5"	7/8"	A-60-X-FLEX	15-L 516	12,200	25	200
7"	7/8"	A-24-X-FLEX	15-L 702	8,600	25	100
7"	7/8"	A-36-X-FLEX	15-L 703	8,600	25	100
7"	7/8"	A-60-X-FLEX	15-L 706	8,600	25	100
7"	7/8"	A-100-X-FLEX	15-L 710	8,600	25	100

\* Use with 1/4" mandrel 11-L 007.

Always use SPIN-ON wheels with flange 30-B 057.

⚠ California Proposition 65 Warning (See page 10 for details).

**BLENDERS IN PERFECTLY**  
ON UNEVEN SURFACES  
AND WILL NEVER CLOG  
ON ALUMINUM



## TYPE 29S



SPIN-ON



Fe-S-CI  
<0.1%



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	A-36-X-FLEX	15-L 453	13,300	25	100
4 1/2"	5/8"-11	A-60-X-FLEX	15-L 456	13,300	25	100
4 1/2"	5/8"-11	A-100-X-FLEX	15-L 460	13,300	25	200
5"	5/8"-11	A-36-X-FLEX	15-L 503	12,200	25	100
5"	5/8"-11	A-60-X-FLEX	15-L 506	12,200	25	100
5"	5/8"-11	A-100-X-FLEX	15-L 510	12,200	25	200
6"	5/8"-11	A-24-X-FLEX	15-L 602	10,200	25	200
6"	5/8"-11	A-36-X-FLEX	15-L 603	10,200	25	200
6"	5/8"-11	A-60-X-FLEX	15-L 606	10,200	25	200

⚠ California Proposition 65 Warning (See page 10 for details).

Deep Diamond-Cut™ pattern and optimized formulation offer:

- ▷ More flexibility
- ▷ Best handling on flat and curved surfaces
- ▷ Cooler grinding
- ▷ Better stock removal in all materials (steel, stainless steel, aluminum)







Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

# FLEXCUT MILL SCALE™

Quick, consistent removal of mill scale





Are you tired of changing out wheels every few minutes as they glaze over or clog during mill scale removal? FLEXCUT MILL SCALE™ is a flexible grinding wheel designed to last longer and remove mill scale quicker than any other abrasive. That's because FLEXCUT MILL SCALE™ is the first abrasive ever designed exclusively for the purpose of removing mill scale from hot rolled steel. Save time and quit throwing away wheels every few minutes. Switch to FLEXCUT MILL SCALE™ today for easy removal of mill scale and rust.



**TYPE 29S**  **SPIN-ON**  **Fe-S-CI <0.1%**  

Dia.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	15-L 843	A-36-FLEX	13,300	25	100
5"	5/8"-11	15-L 853	A-36-FLEX	12,200	25	200
6"	5/8"-11	15-L 863	A-36-FLEX	10,200	25	100

Always use SPIN-ON wheels with flange 30-B 057.

**TYPE 29**   **Fe-S-CI <0.1%**  

Dia.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
7"	7/8"	15-L 873	A-36-FLEX	8,600	25	100

- ▷ Unique blend of highly refined abrasives allows ultra quick cutting action without glazing or clogging
- ▷ Open diamond cut pattern prevents clogging
- ▷ Extremely effective for heavily rusted plates, aluminum or galvanized metal and painted material
- ▷ Fe-free formulation – guaranteed not to contaminate aluminum
- ▷ Cool cutting action



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



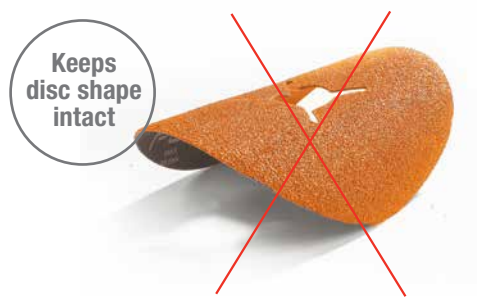
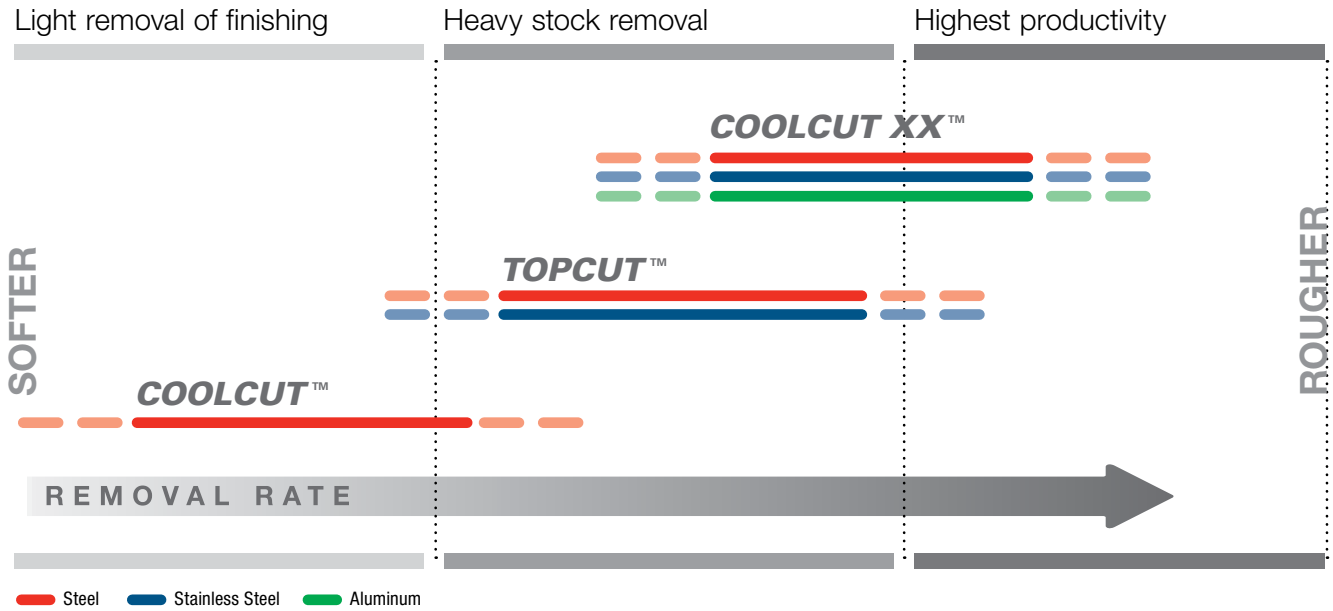
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SANDING



# SANDING PRODUCTS AT A GLANCE

## RECOMMENDED BY TYPE OF USAGE



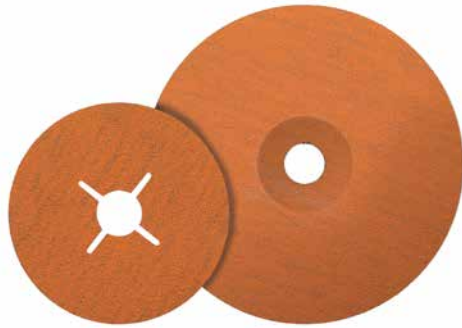
### Unique packaging for optimal performance

- Best preservation of sanding disc with “Humidity Control” feature
- Shrink wrapped in quantities of 25 (2 x 25 discs) to keep discs’ shape intact
- Ensures the longest life, most aggressive removal rate and best overall performance

### Exclusive packaging! COOLCUT XX™ 50 packs

Packaging that makes sense

Select grits and sizes of COOLCUT XX™ are now available in 50 packs. These specially designed packages are humidity-controlled to better preserve the sanding discs, essentially keeping them “factory fresh” and ensuring you get the best life and performance. Discs are also shrink wrapped to minimize warping.



- ▷ 6 times more total stock removal than aluminum oxide sanding discs
- ▷ 2 times faster cutting than aluminum oxide sanding discs
- ▷ Remove more material in less time, even when compared to some grinding wheels
- ▷ Provides a consistent surface finish, disc after disc
- ▷ Cooling agents ensure cool cutting to prevent burning and distortion

### Tech tip!

Use with Turbo backing pads to reduce heat built-up and prolong disc life



## COOLCUT XX™

The longest lasting, most aggressive sanding discs

COOLCUT XX™ sanding discs are formulated with our exclusive Cyclone™ Technology abrasive grain blend to provide extremely aggressive material removal rates and the longest life in the industry. These discs allow you to remove more material faster while also lasting longer than traditional aluminum oxide or zirconia alumina sanding discs, making them ideal for use in a production environment.

### REDUCE YOUR CYCLE TIME AND ELIMINATE BOTTLENECKS IN THE PRODUCTION PROCESS



Dia.	Arbor	Grit	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	24	15-X 452	25	250
4 1/2"	7/8"	36	15-X 453	25	250
4 1/2"	7/8"	50	15-X 455	25	250
4 1/2"	7/8"	60	15-X 456	25	250
4 1/2"	7/8"	80	15-X 458	25	250
4 1/2"	7/8"	100	15-X 460	25	250
4 1/2"	7/8"	120	15-X 462	25	250
5"	7/8"	24	15-X 502	25	250
5"	7/8"	36	15-X 503	25	250
5"	7/8"	50	15-X 505	25	250
5"	7/8"	60	15-X 506	25	250
5"	7/8"	80	15-X 508	25	250
5"	7/8"	100	15-X 510	25	250
5"	7/8"	120	15-X 512	25	250
6"	7/8"	24	15-X 602	25	250
6"	7/8"	36	15-X 603	25	250
6"	7/8"	50	15-X 605	25	250
6"	7/8"	60	15-X 606	25	250
6"	7/8"	80	15-X 608	25	250
6"	7/8"	100	15-X 610	25	250
6"	7/8"	120	15-X 612	25	250
7"	7/8"	24	15-X 702	25	250
7"	7/8"	36	15-X 703	25	250
7"	7/8"	50	15-X 705	25	250
7"	7/8"	60	15-X 706	25	250
7"	7/8"	80	15-X 708	25	250
7"	7/8"	100	15-X 710	25	250
7"	7/8"	120	15-X 712	25	250

⚠ California Proposition 65 Warning (See page 10 for details).

### YouTube

Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



## COOLCUT XX™ 50 pack



Dia.	Arbor	Grit	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	36	15-X 453B	50	400
4 1/2"	7/8"	50	15-X 455B	50	400
4 1/2"	7/8"	60	15-X 456B	50	400
4 1/2"	7/8"	80	15-X 458B	50	400
5"	7/8"	36	15-X 503B	50	400
5"	7/8"	50	15-X 505B	50	400
5"	7/8"	60	15-X 506B	50	400
5"	7/8"	80	15-X 508B	50	400

⚠ California Proposition 65 Warning (See page 10 for details).

# COOLCUT XX™ QUICK-CHANGE

Now with SPIN-ON™ system

Our COOLCUT XX™ sanding discs are now available in a Quick-Change format for easier mounting and faster disc change outs. Use with new Quick-Change Turbo backing pads for the best results.



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	36	15-X 473	13,300	25	250
4 1/2"	5/8"-11	50	15-X 475	13,300	25	250
4 1/2"	5/8"-11	60	15-X 476	13,300	25	250
4 1/2"	5/8"-11	80	15-X 478	13,300	25	250
4 1/2"	5/8"-11	120	15-X 482	13,300	25	250
5"	5/8"-11	36	15-X 523	12,200	25	250
5"	5/8"-11	50	15-X 525	12,200	25	250
5"	5/8"-11	60	15-X 526	12,200	25	250
5"	5/8"-11	80	15-X 528	12,200	25	250
5"	5/8"-11	120	15-X 532	12,200	25	250
7"	5/8"-11	36	15-X 723	8,600	25	250
7"	5/8"-11	60	15-X 726	8,600	25	250
7"	5/8"-11	80	15-X 728	8,600	25	250
7"	5/8"-11	120	15-X 732	8,600	25	250

⚠ California Proposition 65 Warning (See page 10 for details).

### Tech tip!

Use with new Turbo Quick-Change backing pads for 5/8"-11 threading



*New Quick-Change format allows you to save time on disc changes, significantly reducing lost time and associated labor costs over the course of the work day!*

**EASIER MOUNTING  
AND FASTER DISC  
CHANGE OUTS**





- ▷ High quality impact resistant plastic with maximum flexibility



- ▷ Hard black pad, for weld blending and high stock removal
- ▷ Excellent heat dissipation for longer life
- ▷ Recommended for grit 50 and coarser



- ▷ Soft white pad, extra flexible for surface finishing where a wider contact area is required
- ▷ Excellent heat dissipation for longer life
- ▷ Recommended for grit 60 and finer
- ▷ New nut – easier to tighten by hand



## BACKING PAD ASSEMBLIES



Dia.	Arbor	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	M10 × 1.25	15-D 030	15,000	1	10
4"	5/8"-24	15-D 035	15,000	1	10
4 1/2"	5/8"-11	15-D 044	13,300	1	10
5"	5/8"-11	15-D 054	12,200	1	10
6"	5/8"-11	15-D 064	10,200	1	10
7"	5/8"-11	15-D 027	8,600	1	10

## TURBO BACKING PAD ASSEMBLIES (Black and white)

Special saucer shaped backing pad with ribbed backing, ensures a continuous stream of air between pad and disc for cool operation and long disc life. The ideal choice for COOLCUT XX™.



Dia.	Arbor	Color	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	Black	15-M 044	13,300	1	10
4 1/2"	5/8"-11	White	15-M 045	13,300	1	10
5"	5/8"-11	Black	15-M 054	12,200	1	10
5"	5/8"-11	White	15-M 055	12,200	1	10
6"	5/8"-11	Black	15-M 064	10,200	1	10
6"	5/8"-11	White	15-M 065	10,200	1	10
7"	5/8"-11	Black	15-M 007	8,600	1	10
7"	5/8"-11	White	15-M 008	8,600	1	10

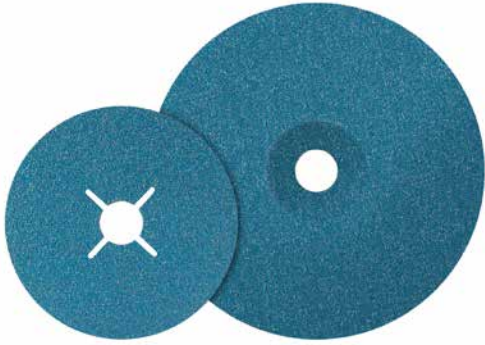
## TURBO QUICK-CHANGE BACKING PADS (Black and white)

Special saucer shaped backing pad with ribbed backing, ensures a continuous stream of air between pad and disc for cool operation and long disc life. The ideal choice for COOLCUT XX™ Quick-Change.



**SPIN-ON**

Dia.	Arbor	Color	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	Black	15-M 144	13,300	1	10
4 1/2"	5/8"-11	White	15-M 145	13,300	1	10
5"	5/8"-11	Black	15-M 154	12,200	1	10
5"	5/8"-11	White	15-M 155	12,200	1	10
7"	5/8"-11	Black	15-M 157	8,600	1	10
7"	5/8"-11	White	15-M 158	8,600	1	10



## TOPCUT™

Aggressive removal rate and extended disc life

TOPCUT™ sanding discs now remove material 50% faster than before, with a longer working life to help you maximize the efficiency of your production process. Designed using longer lasting abrasive grains, TOPCUT™ is ideal for finishing applications on stainless steel and can improve your stock removal in more aggressive applications. Cooler sanding also guarantees your metal will not overheat, helping to preserve it and resulting in a higher quality finished product.



- ▷ *Highest performance zirconia alumina sanding disc*
- ▷ *Highest total removal in the industry for a zirconia alumina disc*
- ▷ *Fast removal rate with cooler cutting to reduce heat generation and prevent warping or discoloration*
- ▷ *The ideal option for use on heat sensitive metals*

Dia.	Arbor	Grit	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	24	15-P 452	25	250
4 1/2"	7/8"	36	15-P 453	25	250
4 1/2"	7/8"	60	15-P 456	25	250
4 1/2"	7/8"	80	15-P 458	25	250
5"	7/8"	24	15-P 502	25	250
5"	7/8"	36	15-P 503	25	250
5"	7/8"	60	15-P 506	25	250
5"	7/8"	80	15-P 508	25	250
7"	7/8"	24	15-P 702	25	250
7"	7/8"	36	15-P 703	25	250
7"	7/8"	60	15-P 706	25	250
7"	7/8"	80	15-P 708	25	250

⚠ *California Proposition 65 Warning (See page 10 for details).*





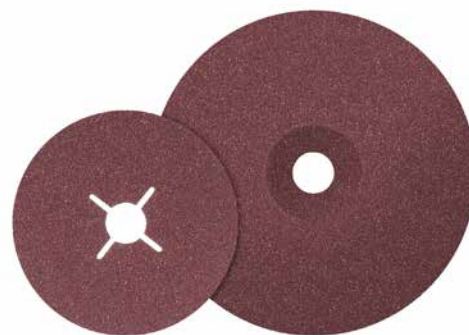
# COOLCUT™

General purpose sanding

COOLCUT™ is an economical solution for weld blending and finishing on steel surfaces.



Dia.	Arbor	Grit	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	24	15-C 452	25	250
4 1/2"	7/8"	36	15-C 453	25	250
4 1/2"	7/8"	40	15-C 454	25	250
4 1/2"	7/8"	50	15-C 455	25	250
4 1/2"	7/8"	60	15-C 456	25	250
4 1/2"	7/8"	80	15-C 458	25	250
4 1/2"	7/8"	100	15-C 460	25	250
4 1/2"	7/8"	120	15-C 462	25	250
5"	7/8"	24	15-C 502	25	250
5"	7/8"	36	15-C 503	25	250
5"	7/8"	40	15-C 504	25	250
5"	7/8"	50	15-C 505	25	250
5"	7/8"	60	15-C 506	25	250
5"	7/8"	80	15-C 508	25	250
5"	7/8"	100	15-C 510	25	250
5"	7/8"	120	15-C 512	25	250
7"	7/8"	24	15-C 702	25	250
7"	7/8"	36	15-C 703	25	250
7"	7/8"	40	15-C 704	25	250
7"	7/8"	50	15-C 705	25	250
7"	7/8"	60	15-C 706	25	250
7"	7/8"	80	15-C 708	25	250
7"	7/8"	100	15-C 710	25	250
7"	7/8"	120	15-C 712	25	250



- ▷ Premium aluminum oxide abrasive grain blend
- ▷ High removal rate, cool cutting
- ▷ Most economical choice for finishing applications on steel
- ▷ The greatest selection of grit sizes of any Walter sanding disc

## Tech tip!

Use Coolcut sanding discs with an orange backing pad to achieve a consistent scratch pattern for finishing operations.





### Accessories

#### Steel flanges

Reducer from 1" to 5/8" spindle

Order No. 15-G 962



## COOLCUT™ FLAP WHEELS

Excellent for weld blending and general finishing work. Mounted with a pair of flanges for use on straight shaft or bench grinders.



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
6 1/2"	1"	1"	60	15-G 206	5,200	1	10
6 1/2"	1"	1"	80	15-G 208	5,200	1	10
6 1/2"	1"	1"	120	15-G 212	5,200	1	10
6 1/2"	2"	1"	60	15-G 306	5,200	1	10
6 1/2"	2"	1"	80	15-G 308	5,200	1	10
6 1/2"	2"	1"	120	15-G 312	5,200	1	10

\* Item available through special order only. Allow for additional delivery time.  
Ask your Territory Manager for details.



### GRIT - FEPA EQUIVALENT

Medium	150
Fine	180
Extra fine	220
Extra fine, flexible	220
Polishing	360

### Accessories

#### Reducer bushing

1" wide, from 1 1/4" to 1", 3/4", 5/8", 1/2".

Order No. 12-E 010



## TWO-IN-ONE™ FLAP WHEELS

Combine two steps in one. The Two-In-One™ flap wheels remove material nearly as fast as regular flap wheels while leaving a finer finish.



Dia.	Width	Shaft thread Arbor	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	1"	1/4"	Fine	15-E 124	12,000	8,400	1	10
2"	1"	1/4"	Extra fine	15-E 126	12,000	8,400	1	10
3"	1 3/4"	1/4"	Medium	15-E 162	8,000	5,600	1	10
3"	1 3/4"	1/4"	Fine	15-E 164	8,000	5,600	1	10
3"	1 3/4"	1/4"	Extra fine	15-E 166	8,000	5,600	1	10
3"	1 3/4"	1/4"	Extra fine, flex.	15-E 167	8,000	5,600	1	10
3"	1 3/4"	1/4"	Polishing	15-E 168 *	8,000	5,600	1	10
3"	1 1/2"	1/4"-20	Medium	15-E 652	8,000	5,600	1	10
3"	1 1/2"	1/4"-20	Fine	15-E 654	8,000	5,600	1	10
3"	1 1/2"	1/4"-20	Extra fine	15-E 656	8,000	5,600	1	10
3"	1 1/2"	1/4"-20	Polishing	15-E 658 *	8,000	5,600	1	10
6"	1"	1 1/4"	Fine	15-E 295	3,600	2,500	1	10
6"	1"	1 1/4"	Extra fine	15-E 296	3,600	2,500	1	10

\* BLENDEX non-woven material only.

# COOLCUT™ FLAP WHEELS

High quality and a consistent finish

COOLCUT™ flap wheels are ideal for general purpose blending, shaping and deburring. They are made from the highest quality abrasive grains and are perfectly balanced to provide a uniform, grained satin finish. No matter the application, COOLCUT™ Flap Wheels provide consistently excellent results.



## 1/4" SHAFT



Dia.	Width	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
1"	3/8"	40	15-F 054	30,000	27,500	10	100
1"	3/8"	60	15-F 056	30,000	27,500	10	100
1"	3/8"	80	15-F 058	30,000	27,500	10	100
1"	3/8"	120	15-F 062	30,000	27,500	10	100
1"	1"	40	15-F 154	30,000	27,500	10	100
1"	1"	60	15-F 156	30,000	27,500	10	100
1"	1"	80	15-F 158	30,000	27,500	10	100
1"	1"	120	15-F 162	30,000	27,500	10	100
1 1/2"	3/8"	40	15-F 004	25,000	19,100	10	100
1 1/2"	3/8"	60	15-F 006	25,000	19,100	10	100
1 1/2"	3/8"	80	15-F 008	25,000	19,100	10	100
1 1/2"	3/8"	120	15-F 012	25,000	19,100	10	100
1 1/2"	1"	40	15-F 104	25,000	19,100	10	100
1 1/2"	1"	60	15-F 106	25,000	19,100	10	100
1 1/2"	1"	80	15-F 108	25,000	19,100	10	100
1 1/2"	1"	120	15-F 112	25,000	19,100	10	100
1 1/2"	1"	240	15-F 124	25,000	19,100	10	100
2"	3/8"	40	15-F 204	25,000	15,200	10	100
2"	3/8"	60	15-F 206	25,000	15,200	10	100
2"	3/8"	80	15-F 208	25,000	15,200	10	100
2"	3/8"	120	15-F 212	25,000	15,200	10	100
2"	1"	40	15-F 304	25,000	15,200	10	100
2"	1"	60	15-F 306	25,000	15,200	10	100
2"	1"	80	15-F 308	25,000	15,200	10	100
2"	1"	120	15-F 312	25,000	15,200	10	100
2"	1"	240	15-F 324	25,000	15,200	10	100
2 1/2"	1 1/2"	40	15-F 504	20,000	12,700	10	100
2 1/2"	1 1/2"	60	15-F 506	20,000	12,700	10	100
2 1/2"	1 1/2"	80	15-F 508	20,000	12,700	10	100
2 1/2"	1 1/2"	120	15-F 512	20,000	12,700	10	100
2 1/2"	1 1/2"	240	15-F 524	20,000	12,700	10	100
3"	1"	40	15-F 704	15,000	8,900	10	100
3"	1"	60	15-F 706	15,000	8,900	10	100
3"	1"	80	15-F 708	15,000	8,900	10	100
3"	1"	120	15-F 712	15,000	8,900	10	100
3"	1 1/2"	40	15-F 804	15,000	8,900	10	100
3"	1 1/2"	60	15-F 806	15,000	8,900	10	100
3"	1 1/2"	80	15-F 808	15,000	8,900	10	100
3"	1 1/2"	120	15-F 812	15,000	8,900	10	100
3"	1 1/2"	240	15-F 824	15,000	8,900	10	100
3"	2"	40	15-F 904	11,000	8,900	10	100
3"	2"	60	15-F 906	11,000	8,900	10	100
3"	2"	80	15-F 908	11,000	8,900	10	100
3"	2"	120	15-F 912	11,000	8,900	10	100





**Hand pads:**

- ▷ Pads are washable and can be reused
- ▷ Replace steel wool with no rusting, splintering or contamination of the workpiece

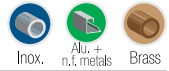


**Rolls:**

- ▷ Can easily be cut into strips of desired size
- ▷ For manual or machine operations
- ▷ Ideal for removing rust and corrosion

## BLENDIX™ HAND FINISHING ABRASIVES

Flexible rolls and sheets for general purpose sanding, deburring, surface cleaning and finishing. They easily adapt to irregular surfaces making them indispensable in repair or maintenance applications.



### HAND PADS

Size	Order No.	Color	Type	Std. Pkg.
6" × 9"	07-A 100	Maroon	Blending	60
6" × 9"	07-A 200	Grey	Finishing/Polishing	60
6" × 9"	07-A 300	Tan	Heavy-duty	60
6" × 9"	07-A 400	Green	General purpose	60
6" × 9"	07-A 500	White	Cleaning	60

### Accessory

**Hand pad holder**

With molded hook pattern for positive pad holding and easy grip handle

3" × 6"

**Order No.** 07-A 001



### ROLLS



Width	Lenght	Order No.	Color	Type	Std. Pkg.	Std. Ctn.
4"	30'	07-B 104	Maroon	Blending	1	10
4"	30'	07-B 204	Grey	Finishing/Polishing	1	10
4"	30'	07-B 304	Tan	Heavy-duty	1	10
4"	30'	07-B 404	Green	General purpose	1	10
4"	30'	07-B 504	White	Cleaning	1	10

**Tech tip!**

Use white hand pad (OrderNo.: 07-A 500) or roll (Order No.: 07-B 504) with SURFOX Pre-Weld to clean soiled surfaces.



**SURFOX Pre-Weld**  
Order No. 54-A 083

# COOLCUT™ SHOP ROLLS AND SHEETS

These premium shop rolls are a cut above the rest. With a fast cutting aluminum oxide abrasive grain bonded onto a high quality J-weight cloth, they are designed to remove material quickly while also maintaining a high degree of flexibility. Best of all, this design keeps the workpiece cool, minimizing wear and extending the life of the shop roll while making it safe to use on all metals.



## SHOP ROLLS



Width	Length	Grit	Order No.	Std. Pkg.	Std. Ctn.
1"	50 yards	60	14-C 106	1	10
1"	50 yards	80	14-C 108	1	10
1"	50 yards	100	14-C 110	1	10
1"	50 yards	120	14-C 112	1	10
1"	50 yards	180	14-C 118	1	10
1"	50 yards	240	14-C 124	1	10
1"	50 yards	320	14-C 132	1	10
1 ½"	50 yards	60	14-C 206	1	10
1 ½"	50 yards	80	14-C 208	1	10
1 ½"	50 yards	100	14-C 210	1	10
1 ½"	50 yards	120	14-C 212	1	10
1 ½"	50 yards	180	14-C 218	1	10
1 ½"	50 yards	240	14-C 224	1	10
1 ½"	50 yards	320	14-C 232	1	10
2"	50 yards	60	14-C 306	1	10
2"	50 yards	80	14-C 308	1	10
2"	50 yards	100	14-C 310	1	10
2"	50 yards	120	14-C 312	1	10
2"	50 yards	180	14-C 318	1	10
2"	50 yards	240	14-C 324	1	10
2"	50 yards	320	14-C 332	1	10



- ▷ Premium J-weight cloth backing for long life and flexibility
- ▷ Ideal for use in maintenance shops, machine shops, manufacturing plants and more
- ▷ Safe for use on all metals

## SHEETS



Dimensions	Grit	Order No.	Std. Pkg.	Std. Ctn.
9" x 11"	40	14-A 904	25	250
9" x 11"	60	14-A 906	25	250
9" x 11"	80	14-A 908	25	250
9" x 11"	100	14-A 910	25	250
9" x 11"	120	14-A 912	25	250
9" x 11"	180	14-A 918	25	250
9" x 11"	240	14-A 924	25	250
9" x 11"	320	14-A 932	25	250



- ▷ Woven backing is extra tough but tears straight for easy sizing
- ▷ Long lasting and cool cutting

\*Item available through special order only. Allow for additional delivery time.  
Ask your Territory Manager for details.

Visit The Walter Network for tips and shortcuts for the most common industrial finishes using WALTER products.

Visit [www.youtube.com/thewalternetwork](http://www.youtube.com/thewalternetwork)

Scroll through the Walter Academy playlist to see our library of videos that save you time and help you work better.



Looking to go from a fresh TIG weld to a #4 brushed finish on a flat stainless steel surface? We recommend:

STEP 1



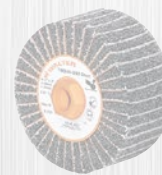
Quick-Step Flex 5" Grit 120  
no. 07-Q 512

STEP 2



Quick Step Blendex  
4-1/2" medium No. 07-R 453

STEP 3



Two-in-one drum 4-1/2"  
2" wide No. 07-K 322

**Visit [walter.com](http://walter.com) to see all our finishing products!**

Learn how to achieve the most popular finishes starting from a MIG weld, TIG weld, 2B, mill finish, etc.

#4 sanitary brush  
finish on stainless  
steel video



[www.walter.com](http://www.walter.com)

#4 brush  
finish on stainless  
steel video



[www.walter.com](http://www.walter.com)

#8 mirror  
finish on stainless  
steel video



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Brushed finish on  
structural aluminum  
video



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06

# FINISHING



# LINEAR SURFACE FINISHING SYSTEM



## The Line-Mate linear surface finishing system

is the most versatile tool for applications that involve applying a linear scratch pattern. Line-Mate features a complete range of innovative abrasives designed to match any linear finish and reduce your finishing costs. Whether you work with stainless steel, aluminum, brass, copper or other alloys, Line-Mate allows you to achieve the desired finish quickly and with minimal effort.

*This is the finish you get for each product if used on a 2B stainless steel surface.*



DRUMS	Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
				Ra	(>60 $\mu\text{in}$ )	(60-50 $\mu\text{in}$ )	(40-25 $\mu\text{in}$ )	(16-12 $\mu\text{in}$ )	(8-4 $\mu\text{in}$ )	(4-1 $\mu\text{in}$ )
				Grit size						
	FX Drums @2000 RPM	Cleaning	07-L	Coarse						
	COOLCUT Flap Drums @2000 RPM	Graining	07-J	40						
				60						
				80						
				120						
	BLENDEX Drums @2000 RPM	Finishing	07-M	Coarse						
				Medium						
				Fine						
				Super Fine						
				Ultra Fine						
2-in-1 TURBO Drums @2000 RPM	Graining	07-K	60							
2-in-1 Drums @2000 RPM	Linear finishing	07-K	80							
Buffing Drums and polishing pastes @2000 RPM	Applying a mirror finish	07-T + paste	Instant Polish 1000-1500							
		07-T + paste	Ultimate Shine 2000-2500							

BELTS	Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
				Ra	(>60 $\mu\text{in}$ )	(60-50 $\mu\text{in}$ )	(40-25 $\mu\text{in}$ )	(16-12 $\mu\text{in}$ )	(8-4 $\mu\text{in}$ )	(4-1 $\mu\text{in}$ )
				Grit size						
	Cloth Drum Belts @2000 RPM	Removing deep scratches (stock removal)	07-F	40						
				60						
				80						
				120						
Blendex Drum Belts @2000 RPM	Graining and finishing	07-H	Coarse							
			Medium							
			Fine							
			Super Fine							
High Polish Drum Belts, Instant Polish Drum Belts and polishing pastes	Applying a mirror finish	07-T + paste	Instant Polish 1000-1500							
		07-T + paste	Ultimate Shine 2000-2500							



# LINE-MATE LINEAR SURFACE FINISHING SYSTEM

The professional choice for applying a linear finish

The Line-Mate III surface finishing system is the most versatile method for all applications where a linear scratch pattern is required. Whether you need to grind, sand, clean, buff or polish a metal surface, this system offers the most complete range of products to match the desired surface finish.

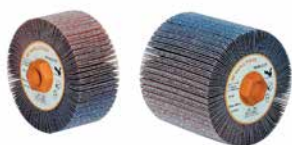
*Line-Mate III High efficiency drum sander  
(See p. 164 for details)*

*Pneumatic drum and belts*



*Drive roller and T-lock™ belts - for pipes, tubing and railings*

*Drums*



- ▷ *Ideal for graining and light metal removal and as a first step in the finishing process*
- ▷ *Will give a consistent and uniform finish*
- ▷ *Will not load or glaze*



- ▷ *Combine two finishing steps into one: The coated abrasive cloth cuts aggressively while the interweaved BLENDEX flaps produce a satin linear finish*



- ▷ *Removes like a grinding belt while the interweaved BLENDEX flaps produce a No. 3 finish*

## COOLCUT™ FLAP DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/4"	2"	5/8"-11	40	07-J 424	3,800	1	10
4 1/4"	2"	5/8"-11	60	07-J 426	3,800	1	10
4 1/4"	2"	5/8"-11	80	07-J 428	3,800	1	10
4 1/4"	2"	5/8"-11	120	07-J 432	3,800	1	10
4 1/4"	4"	5/8"-11	40	07-J 444	3,800	1	10
4 1/4"	4"	5/8"-11	60	07-J 446	3,800	1	10
4 1/4"	4"	5/8"-11	80	07-J 448	3,800	1	10
4 1/4"	4"	5/8"-11	120	07-J 452	3,800	1	10

## TWO-IN-ONE™ DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/4"	2"	5/8"-11	80	07-K 322	3,800	1	10
4 1/4"	4"	5/8"-11	80	07-K 342	3,800	1	10
4 1/2"	2"	5/8"-11	80	07-K 422	3,800	1	10
4 1/2"	4"	5/8"-11	80	07-K 442	3,800	1	10

## TWO-IN-ONE™ TURBO DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	60	07-K 421	3,800	1	10
4 1/2"	4"	5/8"-11	60	07-K 441	3,800	1	10

## BLENDEx™ DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/4"	2"	5/8"-11	Coarse	07-M 322	3,800	1	10
4 1/4"	2"	5/8"-11	Medium	07-M 323	3,800	1	10
4 1/4"	2"	5/8"-11	Fine	07-M 324	3,800	1	10
4 1/4"	4"	5/8"-11	Coarse	07-M 342	3,800	1	10
4 1/4"	4"	5/8"-11	Medium	07-M 343	3,800	1	10
4 1/4"	4"	5/8"-11	Fine	07-M 344	3,800	1	10
4 1/2"	2"	5/8"-11	Coarse	07-M 422	3,800	1	10
4 1/2"	2"	5/8"-11	Medium	07-M 423	3,800	1	10
4 1/2"	2"	5/8"-11	Fine	07-M 424	3,800	1	10
4 1/2"	2"	5/8"-11	Super fine	07-M 425	3,800	1	10
4 1/2"	4"	5/8"-11	Coarse	07-M 442 *	3,800	1	10
4 1/2"	4"	5/8"-11	Medium	07-M 443 *	3,800	1	10
4 1/2"	4"	5/8"-11	Fine	07-M 444	3,800	1	10
4 1/2"	4"	5/8"-11	Super fine	07-M 445	3,800	1	10
4 1/2"	4"	5/8"-11	Ultra fine	07-M 446 **	3,800	1	10

\* 07-M 442 and 07-M 443: Now with "Perfect Brushed Finish" technology. Exclusive to Walter, this technology provides a shadow-free finish right from the start.

\*\* Ultra-Fine HG (High Gloss) drums are ideal for enhancing and brightening existing finishes, taking out stains in metals and bringing out a new lustre in work surfaces.



▷ Can be used to polish, burnish, blend, deburr, clean and brighten stainless steel, aluminum, brass, copper and other alloys



▷ Blendex High Density (HD) drums are for demanding applications like deburring or working on outside corners as they are denser and have a longer life

## BLENDEx HD™ DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	Coarse	07-M 411	3,800	1	10

## INOX TAPE

Excellent for a perfect mitred corner finish

Lenght	Width	Thick.	Order No.	Std. Pkg.
16' 3/8"	1 3/64"	3/500"	07-T 100	1

▷ Thin stainless steel tape with adhesive strip  
▷ Use only on cool surfaces



## BUFFING DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 3/4"	2"	5/8"-11	Multi-ply cotton	07-T 425	3,800	1,700 to 2,200	1	10

Use with polishing pastes.



Harder multi-ply

▷ Ideal for enhancing and brightening existing finishes, taking out stains in metals and bringing out a new lustre in work surfaces  
▷ Use with polishing pastes for a mirror finish

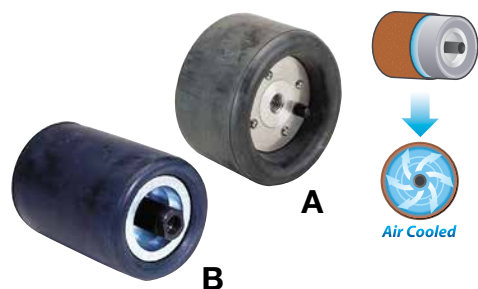
▷ Popular applications include upgrading of #4 finishes, polishing to a food grade finish, repairing minor scratches, etc.



## HIGH POLISH DRUM BELTS

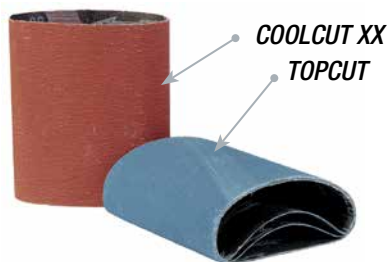


Width	Lenght	Dia.	Color	Order No.	Std. Pkg.	Std. Ctn.
5 3/8"	11 5/8"	3 1/2"	White	07-T 530	1	10
3 1/2"	15 1/2"	5"	Yellow	07-T 334	1	10
5 3/8"	11 5/8"	3 1/2"	Yellow	07-T 534	1	10



Put a cushion of air between your abrasives to:

- ▷ Eliminate edge cutting and swirl marks
- ▷ Increase sandpaper life by reducing heat build-up
- ▷ Allow more flexibility – conforms to curved surfaces



- ▷ Allows you to create or restore linear finishes, level off small welds, round corners, remove deep scratches, etc.
- ▷ Equipped with taped butt-joints for longer life and higher removal rates



- ▷ **Coarse:** For tough cleaning or removing rust and small scratches
- ▷ **Medium:** For conditioning and removing surface imperfections
- ▷ **Fine:** For fine surface refinements
- ▷ **Super fine:** Use to produce decorative finishes or as a last step before applying a mirror finish

## PNEUMATIC DRUMS

### Accessories

Photo	Width	Dia.	Arbor	Max. RPM	Order No.
A	3 1/2"	5"	5/8"-11	3,800	07-F 037*
B	5 3/8"	3 1/2"	5/8"-11	3,800	07-F 051
*MUST USE extension for pneumatic drum A					08-B 009

### Replacement rubber bladder assemblies

3 1/2" x 5" (for drum A)	07-F 093
5 3/8" x 3 1/2" (for drum B)	07-F 095
Drum Inflator	07-F 014
Valve core for both drums	07-F 013

## TOPCUT™ AND COOLCUT XX™ DRUM BELTS



Width	Lenght	Dia.	Grit	Order No.	Std. Pkg.	Std. Ctn.
3 1/2"	3 1/2"	5"	40 TOPCUT	07-F 364	5	100
3 1/2"	3 1/2"	5"	60 COOLCUT XX	07-F 366	5	100
3 1/2"	3 1/2"	5"	80 COOLCUT XX	07-F 368	5	100
3 1/2"	3 1/2"	5"	120 COOLCUT XX	07-F 371	5	100
5 3/8"	11 5/8"	3 1/2"	40 TOPCUT	07-F 504	5	100
5 3/8"	11 5/8"	3 1/2"	60 COOLCUT XX	07-F 506	5	100
5 3/8"	11 5/8"	3 1/2"	80 COOLCUT XX	07-F 508	5	100
5 3/8"	11 5/8"	3 1/2"	120 COOLCUT XX	07-F 511	5	100

## BLENDEX™ DRUM BELTS



Width	Lenght	Dia.	Grit	Order No.	Std. Pkg.	Std. Ctn.
3 1/2"	15 1/2"	5"	Coarse	07-H 362	1	10
3 1/2"	15 1/2"	5"	Medium	07-H 363	1	10
3 1/2"	15 1/2"	5"	Fine	07-H 364	1	10
3 1/2"	15 1/2"	5"	Super fine	07-H 365	1	10
5 3/8"	11 5/8"	3 1/2"	Coarse	07-H 502	1	10
5 3/8"	11 5/8"	3 1/2"	Medium	07-H 503	1	10
5 3/8"	11 5/8"	3 1/2"	Fine	07-H 504	1	10
5 3/8"	11 5/8"	3 1/2"	Super fine	07-H 505	1	10



- ▷ Achieve a #8 mirror finish in just one step
- ▷ The polishing paste comes pre-applied on the belt
- ▷ Packed in a resealable bag that protects the belt from contaminants and drying



- ▷ Ideal for cleaning or finishing pipes, tubes and railings
- ▷ Produces a new sheen on tarnished pipes
- ▷ T-Lock allows quick and easy access when finishing closed loop workpieces

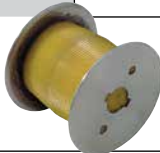


#### Accessory

##### Belt drive roller

3 1/4" x 2 3/4" x 5/8"-11

Order No. 07-F 002



- ▷ Allows you to use T-Lock belts with the Line-Mate III tool for finishing pipes, tubing and railing



## INSTANT POLISH™ DRUM BELTS

One-Step solution for achieving a #8 mirror finish



Width	Lenght	Dia.	Order No.	Std. Pkg.	Std. Ctn.
3 1/2"	5 1/2"	5"	07-T 336	1	10
5 3/8"	11 5/8"	3 1/2"	07-T 536	1	10

## BLENDEX™ T-LOCK BELTS



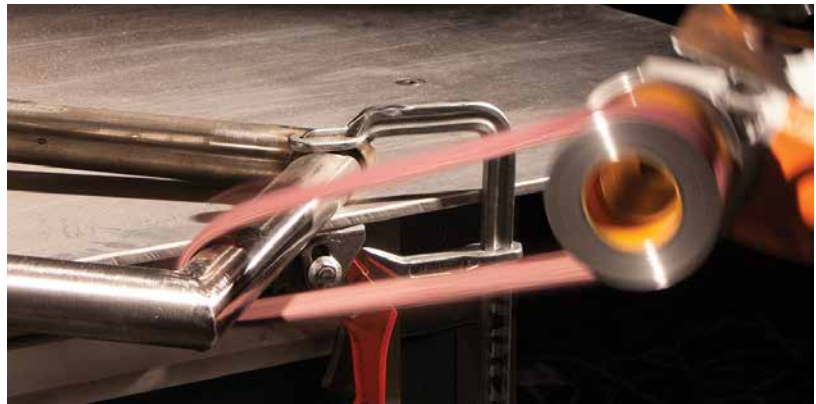
Width	Lenght	Grit	Color	Order No.	Std. Pkg.	Std. Ctn.
1 3/16"	24"	Coarse	Tan	07-H 242	3	48
1 3/16"	24"	Medium	Maroon	07-H 243	3	48
1 3/16"	24"	Fine	Blue	07-H 244	3	48
1 3/16"	24"	Super fine	Grey	07-H 245	3	48

## T-LOCK POLISHING FELT BELT



Width	Lenght	Color	Order No.	Std. Pkg.	Std. Ctn.
1 3/16"	24"	White	07-T 225	3	48

Use with polishing paste.



## HAND RAIL FINISHING KIT

Order No. 07-H 992

#### Includes:

- 1 Belt Drive Roller (07-F 002)
- 4 BLENDEX strip belts:
  - 1 coarse (07-H 242)
  - 1 medium (07-H 243)
  - 1 fine (07-H 244),
  - 1 super fine (07-H 245).

## FX™ FLEX DRUMS

Clean welds and finish the surface in one step

Use the new FX™ FLEX drum to easily clean TIG and MIG welds while leaving a fine #4 finish on your metal surfaces. This product is ideal for cleaning uneven surfaces like checker plate. FX™ FLEX drums are made with a lower density material which allows you to achieve a perfectly uniform fine #4 finish on your metal surfaces. Save time and replace multiple tools with just one with the new FX™ FLEX drums.



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	Flex coarse	07-L 422	3,800	1	10
4 1/2"	4"	5/8"-11	Flex coarse	07-L 442	3,800	1	10

## FX™ DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	Coarse	07-L 420	3,800	1	10
4 1/2"	4"	5/8"-11	Coarse	07-L 440	3,800	1	10

## LINEAR CRIMPED BRUSHES



Dia.	Width	Arbor	Wire size	Wire type	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	.01"	Tempered steel	13-M 454	4,000	1	10

## LINEAR CRIMPED BRUSHES



Dia.	Width	Arbor	Wire size	Wire type	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	.01"	S/S 304	13-M 464	4,000	1	10

## LINE-MATE III™ SYSTEM

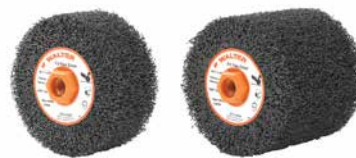
Linear finishing made easy

The Line-Mate III™ is a versatile variable speed tool that allows you to quickly and easily apply a wide range of linear finishes to metal surfaces. Its powerful motor will help you complete even the toughest jobs with ease. RPM remains constant under load for a consistent and uniform finish every time. When you have a project that requires a linear scratch pattern applied to the surface, trust Line-Mate to get the job done quickly and efficiently.

### Includes:

- 1 Line-Mate III™ with standard equipment plus carrying case
- 1 pneumatic drum (07-F 051)
- 6 cloth drum belts (2 each grit: 60: 07-F 506, 80: 07-F 508 and 120: 07-F 511)
- 2 BLENDEX drum belts (Coarse: 07-H 502, medium: 07-H 503)
- 1 TWO-IN-ONE drum (4 1/4" x 4": 07-K 342)
- 1 BLENDEX drum (4 1/4" x 4" medium: 07-M 343)

Model	Order No.	Spindle RPM	Thread	Motor	Amps	Weight
6268 KIT	30-A 269	1,000–3,800	5/8"-11	120V A.C. only	12.4 A	16 lbs



- ▷ *More flexible non woven mesh – cleans any uneven surface*
- ▷ *Clean TIG and MIG welds and leave a fine #4 finish*
- ▷ *Perfect on stainless steel*



- ▷ *Open web-like construction assures cool operation that resists loading*
- ▷ *Will strip paint with ease, remove rust and scale*
- ▷ *Firm coarse non-woven flaps for tough cleaning applications*

- ▷ *Perfect for a ready-to-paint finish*
- ▷ *Cleans large surfaces faster*
- ▷ *Provides a smooth linear finish*
- ▷ *The best solution to clean uneven surfaces*



- ▷ *Follows the direction of the grain*
- ▷ *The fastest way to clean oxidized and discolored welds*



# RAIL-MATE™

Remove welds and finish pipes, tubes and railings faster

The RAIL-MATE™ allows you to use our premium abrasive products in a new belt format to finish pipes, tubes and railings. This powerful finishing tool features variable speed settings so that you can tackle any job from blending welds or heavy stock removal all the way to polishing and finishing surfaces. Easily create a linear scratch pattern around the circumference of pipes, tubes and rails with RAIL-MATE™.

See page 163 for more details.



**TACKLE ANY APPLICATION**  
FROM HEAVY STOCK  
REMOVAL TO POLISHING

### Benefits

- ▷ Allows you to quickly switch between abrasives to take time and cost out of finishing jobs
- ▷ Durable industrial tool that is built to last, saving you from having to replace your power tools every few months
- ▷ Designed to exceed all safety standards, creating a safer work environment

### Features

- ▷ Dialspeed™ variable speed control allows you to quickly go from 1,600-3,200 RPM to tackle any application from heavy stock removal to polishing
- ▷ Powerful 1,200W industrial motor with Dynamax™ RPM monitoring to maintain constant RPM under load
- ▷ Soft Start™ technology helps to avoid kickback when starting the tool

### Tech tip!

Use faster speeds for heavy stock removal and lower speeds for finishing.

**Finish (roughness average) obtained when using each product on 2B stainless steel surface.**



Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
			Ra	(>60 μin)	(60-50 μin)	(40-25 μin)	(16-12 μin)	(8-4 μin)	(4-1 μin)
COOLCUT XX Drums	Blending	14-X	Grit size						
			40	■					
			60		■				
			80			■			
BLENDEX Belts	Surface conditioning	07-D	Coarse		■	■			
			Medium				■		
			Fine					■	
High Polish Belts	Mirror finishing	07-T + paste	Instant Polish 1000-1500						■
		07-T + paste	Ultimate Shine 2000-2500						

## COOLCUT XX BELTS

For heavy stock removal

These coated abrasive belts use our exclusive Cyclone™ Technology with a premium ceramic abrasive grain blend to provide an extremely aggressive removal rate and long working life. This means you can remove weld beads and finish surfaces faster, reducing cycle time and taking labor time and cost out of the operation.

### COOLCUT XX RAIL-MATE BELTS



Width	Lenght	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
1 ½"	30"	40	14-X 154	3,200	2,900	5	100
1 ½"	30"	60	14-X 156	3,200	2,900	5	100
1 ½"	30"	80	14-X 158	3,200	2,900	5	100
1 ½"	30"	120	14-X 162	3,200	2,900	5	100

## BLENDEX BELTS

For surface conditioning and removing fine scratches

Our proprietary BLENDEX belts outlast the competition and provide a consistent, uniform surface finish throughout the life of the belt. These non-woven belts excel at removing scratches and light corrosion or oxidation from stainless steel or aluminum tubes, rails or pipes.

### BLENDEX RAIL-MATE BELTS



Width	Lenght	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
1 ½"	30"	Coarse	07-D 152	3,200	2,500	5	100
1 ½"	30"	Medium	07-D 153	3,200	2,500	5	100
1 ½"	30"	Fine	07-D 154	3,200	2,500	5	100

## POLISHING BELTS

For applying a decorative or mirror finish

These durable belts are made of a special material that allows you to apply up to a #8 mirror finish with the use of our polishing pastes.

### RAIL-MATE POLISHING BELTS



Width	Lenght	Color	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
1 ½"	30"	Yellow	07-T 220	3,200	1,600	5	20

## POLISHING PASTES

For use with felt, high polish and instant polish discs



Name	Order No.	Weight	Grit	Std. Ctn.
White paste	07-T 901	600 g	1200-1500	10
Blue paste	07-T 905	650 g	2000	10
Instant polish paste	07-T 907	1200 g	1000-1500	5
Ultimate Shine™ paste	07-T 909	1300 g	2000-2500	5



### Benefits

- ▷ Reduce cycle time to take labor time and cost out of the job
- ▷ Long lasting performance to avoid frequent belt change outs and trips to the tool crib
- ▷ Consistent removal rate and surface finish throughout the life of the belt

### Features

- ▷ Premium Cyclone™ Technology ceramic abrasive grain blend for the fastest removal and longest life in the industry
- ▷ Flexible cloth backing for any curved surface
- ▷ Guaranteed not to contaminate stainless steel (Fe-S-CL free)



### Benefits

- ▷ Long lasting product that outlasts and outperforms the competition
- ▷ Quickly produces a new sheen on tarnished pipes
- ▷ Safe for use on all common metals and alloys

### Features

- ▷ Non-woven design ensures consistent performance from start to finish
- ▷ Premium abrasive grain blend for maximum performance
- ▷ Will not clog or load on aluminum and other non-ferrous metals



### Features

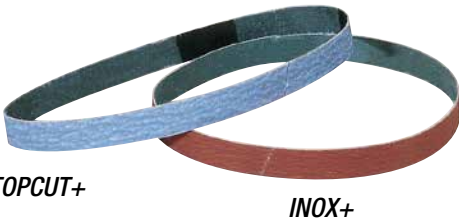
- ▷ Durable construction provides a long working life
- ▷ Extremely flexible to provide a superior surface finish



# COATED ABRASIVE FILE BELTS

Walter offers a complete line of file belts for general purpose sanding, light weld removal, surface cleaning, blending, deburring and finishing of intricate shapes and profiles. An extra heavy-duty backing (Y-polyester) with a special butt-joint and glue ensure the longest belt life even in the most demanding applications.

- ▷ *Made with premium abrasive grain blends for fast material removal on all metal surfaces*
- ▷ *Excellent for contour and shape sanding applications requiring flexibility and fray resistance*



- ▷ *Made from top quality grain for sanding and finishing of stainless steel*
- ▷ *Leaves a smooth and bright surface finish*

# NON-WOVEN ABRASIVE FILE BELTS

Assortment of non-woven abrasive file belts made with special reinforced nylon and abrasive grain to achieve a consistent and uniform finish. Conform to irregular surfaces with minimal smearing and discoloration of the workpiece.



- ▷ *Will not gouge or burn surfaces*
- ▷ *Specially formulated to resist loading and heat build-up*
- ▷ *Very flexible and suitable for edge finishing*
- ▷ *High performance butt joint eliminates breakage*

## TOPCUT+ FILE BELTS



Width	Lenght	Grit	Order No.	Std. Pkg.	Std. Ctn.
1/2"	18"	36	14-D 033	25	200
1/2"	18"	60	14-D 036	25	200
1/2"	18"	80	14-D 038	25	200
1/2"	24"	36	14-D 053	25	200
1/2"	24"	60	14-D 056	25	200
1/2"	24"	80	14-D 058	25	200
3/4"	18"	36	14-D 103	25	200
3/4"	18"	60	14-D 106	25	200
3/4"	18"	80	14-D 108	25	200
3/4"	24"	36	14-D 123	25	200
3/4"	24"	60	14-D 126	25	200
3/4"	24"	80	14-D 128	25	200

\* Item available through special order only. Allow for additional delivery time. Ask your Territory Manager for details.

## INOX+ FILE BELTS



Width	Lenght	Grit	Order No.	Std. Pkg.	Std. Ctn.
1/2"	18"	36	14-B 033	25	200
1/2"	18"	60	14-B 036	25	200
1/2"	18"	80	14-B 038	25	200
1/2"	18"	120	14-B 042	25	200
1/2"	24"	36	14-B 053	25	200
1/2"	24"	60	14-B 056	25	200
1/2"	24"	80	14-B 058	25	200
1/2"	24"	120	14-B 062	25	200
3/4"	18"	36	14-B 103	25	200
3/4"	18"	60	14-B 106	25	200
3/4"	18"	80	14-B 108	25	200
3/4"	18"	120	14-B 112	25	200
3/4"	24"	36	14-B 123	25	200
3/4"	24"	60	14-B 126	25	200
3/4"	24"	80	14-B 128	25	200
3/4"	24"	120	14-B 132	25	200

\* Item available through special order only. Allow for additional delivery time. Ask your Territory Manager for details.

## BLENDEX+™ FILE BELTS



Width	Lenght	Grit	Order No.	Std. Pkg.	Std. Ctn.
1/2"	18"	Coarse	07-D 032	10	50
1/2"	18"	Medium	07-D 033	10	50
1/2"	18"	Very fine	07-D 034	10	50
1/2"	24"	Coarse	07-D 052	10	50
1/2"	24"	Medium	07-D 053	10	50
1/2"	24"	Very fine	07-D 054	10	50
3/4"	18"	Coarse	07-D 102	10	50
3/4"	18"	Medium	07-D 103	10	50
3/4"	18"	Very fine	07-D 104	10	50
3/4"	24"	Coarse	07-D 122	10	50
3/4"	24"	Medium	07-D 123	10	50
3/4"	24"	Very fine	07-D 124	10	50

\* Item available through special order only. Allow for additional delivery time. Ask your Territory Manager for details.



# CIRCULAR FINISHING QUICK-STEP SYSTEM



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

## For all your surface finishing needs!

Whether you are blending in welds, cleaning surfaces, refining and enhancing existing finishes or bringing out a mirror finish on stainless steel, steel, aluminum or any other ferrous and non-ferrous metals, Walter provides a complete line of tools for the art of metalworking!

*This is the finish you get for each product if used on a 2B stainless steel surface.*



Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
			Ra	(>60 $\mu\text{in}$ )	(60-50 $\mu\text{in}$ )	(40-25 $\mu\text{in}$ )	(16-12 $\mu\text{in}$ )	(8-4 $\mu\text{in}$ )	(4-1 $\mu\text{in}$ )
			Grit size						
Quick-Step FX@5000 RPM	Cleaning	07-X	Coarse						
			Quick-Step Flex@7000 RPM	Blending	07-Q	40			
60									
80									
120									
Quick-Step XX@5000 RPM	Blending and surface conditioning	15-V	120						
			180						
			240						
Quick-Step Blendex@5000 RPM	Surface conditioning	07-R	X-tra Coarse						
			Coarse						
			Medium						
			Fine						
			Super fine						
Quick-Step Felt and Quick-Step High Polish with polishing pastes@2000 RPM	Mirror finishing	07-T + paste	Instant Polish 1000-1500						
		07-T + paste	Ultimate Shine 2000-2500						



Learn how to achieve the perfect finish every time with our online videos at

[www.youtube.com/thewalternetwork](http://www.youtube.com/thewalternetwork)



High Efficiency QUICK-STEP sander/polisher (See p. 160 for details)

Hook and loop fastening system for quick disc change outs between finishing steps



Simply center pin on the backing pad and mount QUICK-STEP disc



Built-in threaded arbor mounts directly onto grinder's spindle

Exclusive centering pin guarantees vibration-free operations



Torque resistant mushroom hooks hold discs securely in place

## QUICK-STEP™ BACKING PADS

This patented backing pad is the heart of the QUICK-STEP system. It is made of industrial strength nylon that is guaranteed to retain its strength and flexibility even at elevated temperatures. Disc changes take only seconds.

### QUICK-STEP MG BACKING PADS

For maximum grip when working at high speeds. Use this backing pad with BLENDEX surface conditioning discs for best results

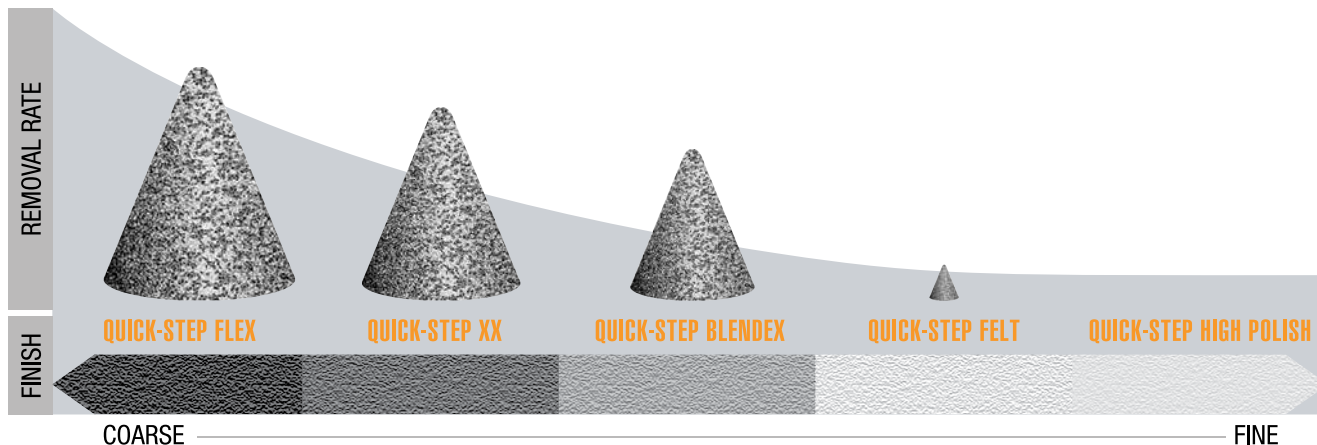
Pad dia.	For disc dia.	Thread	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	4 1/2"	5/8"-11	07-Q 149	1	10
5"	5"	5/8"-11	07-Q 154	1	10
6"	6"	5/8"-11	07-Q 164	1	10
7"	7"	5/8"-11	07-Q 174	1	10

### QUICK-STEP BACKING PADS

Pad dia.	For disc dia.	Thread	Order No.	Std. Pkg.	Std. Ctn.
4"	4 1/2"	5/8"-11	07-Q 044	* 1	10
4 1/2"	4 1/2"	5/8"-11	07-Q 049	1	10
5"	5"	5/8"-11	07-Q 054	1	10
6"	6"	5/8"-11	07-Q 064	1	10
7"	7"	5/8"-11	07-Q 074	1	10

\* QUICK-STEP flap discs and FX cleaning discs can be used with backing pad one diameter size below for more flexibility, to reach into corners and to use up worn discs.

# QUICK-STEP™ METAL SURFACE FINISHING SYSTEM



## QUICK-STEP™ FX QUICK-STEP FX SURFACE CLEANING DISCS



Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-X 845	6,000	2,000 to 3,000	5	40
6"	07-X 860	6,000	2,000 to 3,000	5	40



- ▶ Extra strong non-woven construction for removing heavy paint, gaskets, sealing compounds, rust and scale from all metals
- ▶ Cleans without gouging or damaging the surface

## QUICK-STEP™ FLEX



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	40	07-Q 454	11,000	8,000	10	40
4 1/2"	60	07-Q 456	11,000	8,000	10	40
4 1/2"	80	07-Q 458	11,000	8,000	10	40
4 1/2"	120	07-Q 462	11,000	8,000	10	40
5"	40	07-Q 504	10,000	7,300	10	40
5"	60	07-Q 506	10,000	7,300	10	40
5"	80	07-Q 508	10,000	7,300	10	40
5"	120	07-Q 512	10,000	7,300	10	40
6"	40	07-Q 604	8,600	6,500	10	40
6"	60	07-Q 606	8,600	6,500	10	40
6"	80	07-Q 608	8,600	6,500	10	40
6"	120	07-Q 612	8,600	6,500	10	40

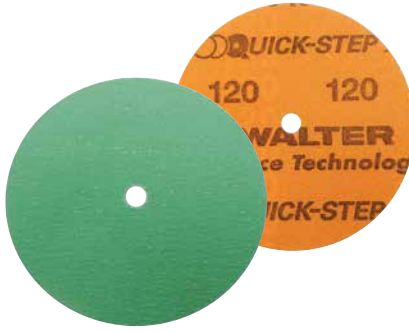
⚠ California Proposition 65 Warning (See page 10 for details).

### Tech tip!

Use a backing pad one size below disc diameter for even more flexibility!



- ▶ For removing and blending in light welds, for deburring, breaking edges and rounding corners
- ▶ Aggressive, cool cutting and provides a consistent uniform finish
- ▶ Abrasive flaps are secured onto a flexible backing making them ideal for working on curved surfaces



- ▷ **Extra long life** – 6x the stock removal compared to aluminum oxide sanding discs
- ▷ **Ultra High Removal Rate** – twice as fast as Velcro or PSA (pressure sensitive adhesive) sanding discs
- ▷ **Self-sharpening grain** – consistently high cutting rate throughout lifetime
- ▷ **Cooling agent** – prevents burning and distortion
- ▷ **Extra strong cloth backing** – Resistant to ripping when catching an edge, unlike regular paper discs



- ▷ **Reclosable polishing paste tube with convenient push-through system to protect paste from contaminants**
- ▷ **Suitable for use in food processing industries**
- ▷ **Achieve a mirror finish with only one paste**
- ▷ **Packed in a resealable bag that preserves the paste from contaminants and drying**



## QUICK-STEP XX™ SANDING DISCS

This high performance sanding disc leverages our Cyclone™ Technology, a hightech blend of abrasive grains, and combines it with a special cooling agent. This allows you to blend and finish more pieces to improve productivity. Paired with an interface pad, this sanding disc allows for more flexibility, making it ideal for curved surfaces.



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	120	15-V 412	7,400	5,000	25	250
4 1/2"	180	15-V 418	7,400	5,000	25	250
4 1/2"	240	15-V 424	7,400	5,000	25	250
5"	120	15-V 512	6,150	4,000	25	250
5"	180	15-V 518	6,150	4,000	25	250
5"	240	15-V 524	6,150	4,000	25	250
6"	120	15-V 612	5,100	3,000	25	250
6"	180	15-V 618	5,100	3,000	25	250
6"	240	15-V 624	5,100	3,000	25	250

## QUICK-STEP INTERFACE PADS

Ideal for working on curved surfaces or when greater flexibility is required. It provides a soft foam cushion between the abrasive and the backing pad to increase flexibility and produce a better finish without gouging the work surface.

Dia.	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	07-Q 045	1	10
7"	07-Q 070	1	10
6"	07-Q 060	1	10
5"	07-Q 050	1	10

## SPACER WASHERS

For grinders with: 5/8"-11 spindle

07-Q 001

For grinders with: M14×2.0 spindle

07-Z 005

## POLISHING PASTES

For use with felt, high polish and instant polish discs



Name	Order No.	Weight	Grit	Std. Pkg.	Std. Ctn.
White paste	07-T 901	600 g	1200-1500	1	10
Blue paste	07-T 905	650 g	2000	1	10
Instant polish paste	07-T 907	1200 g	1000-1500	1	5
Ultimate Shine™ paste	07-T 909	1300 g	2000-2500	1	5

# QUICK-STEP BLENDEX

SURFACE CONDITIONING DISCS



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	X-TRA COARSE, brown	07-R 450	11,000	4,000 to 6,500	10	100
4 1/2"	COARSE, tan	07-R 452	11,000	4,000 to 6,500	10	100
4 1/2"	MEDIUM, maroon	07-R 453	11,000	4,000 to 6,500	10	100
4 1/2"	FINE, blue	07-R 454	11,000	4,000 to 6,500	10	100
4 1/2"	SUPER FINE, grey	07-R 455	11,000	4,000 to 6,500	10	100
5"	X-TRA COARSE, brown	07-R 500	11,000	3,000 to 6,500	10	100
5"	COARSE, tan	07-R 502	11,000	3,000 to 6,500	10	100
5"	MEDIUM, maroon	07-R 503	11,000	3,000 to 6,500	10	100
5"	FINE, blue	07-R 504	11,000	3,000 to 6,500	10	100
6"	X-TRA COARSE, brown	07-R 600	8,600	3,000 to 6,500	10	100
6"	COARSE, tan	07-R 602	8,600	3,000 to 6,500	10	100
6"	MEDIUM, maroon	07-R 603	8,600	3,000 to 6,500	10	100
6"	FINE, blue	07-R 604	8,600	3,000 to 6,500	10	100
7"	X-TRA COARSE, brown	07-R 700	6,800	2,500 to 5,000	10	100
7"	COARSE, tan	07-R 702	6,800	2,500 to 5,000	10	100
7"	MEDIUM, maroon	07-R 703	6,800	2,500 to 5,000	10	100
7"	FINE, blue	07-R 704	6,800	2,500 to 5,000	10	100



**X-TRA COARSE:** *For blending*

**COARSE:** *For removing scratches*

**MEDIUM:** *For cleaning and eliminating superficial scratches*

**FINE:** *For fine striated finishes*

**SUPER FINE:** *Last step before decorative or polishing finishes*

## QUICK-STEP FELT DISCS



Dia.	Order No.	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 450	2,000 to 3,000	5	40
6"	07-T 600	2,000 to 3,000	5	40
6"	07-T 602 *	2,000 to 3,000	5	40
7"	07-T 700	2,000 to 3,000	5	40

\* For use with Ulti-Mate finishing tool.

▷ **Felt discs**  
Strong high density Merino felt discs for all heavy-duty finishing and polishing job



## QUICK-STEP HIGH POLISH DISCS



Dia.	Order No.	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 454	2,000 to 3,000	10	100
5"	07-T 504	2,000 to 3,000	10	100
6"	07-T 604	2,000 to 3,000	10	100
7"	07-T 704	2,000 to 3,000	10	100

▷ **High polish discs**  
Special soft polishing disc produces high gloss and mirror finishes faster



## QUICK-STEP INSTANT POLISH™ DISCS

One-step solution to achieving a #8 mirror finish



Dia.	Order No.	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 456	2,000 to 3,000	10	100
4 1/2"	07-T 457	2,000 to 3,000	2	20
5"	07-T 506	2,000 to 3,000	10	100
5"	07-T 507	2,000 to 3,000	2	20

▷ Achieve a #8 mirror stainless steel finish faster than ever

▷ The polishing paste is pre-applied on the disc

▷ Packed in resealable bag that preserves the disc from contaminants and drying



# BLENDEX U™

Superior finishes in less time

**BLENDEX™ Unitized Technology (BLENDEX U™)** is used for deburring, blending and finishing any kind of metal, including stainless steel, titanium, aluminum, alloys and or plastic and fiberglass. These versatile abrasives are long-lasting and can replace many traditional abrasives, saving you steps in the finishing process and reducing your cycle time.



- ▷ Long lasting Incredible resistance even when working on sharp edges to ensure maximum life and productivity
- ▷ Superb finish Consistent and uniform; as close as possible to a mirror finish without the use of pastes
- ▷ Non loading Resists loading, which minimizes heat buildup and prolongs the life of the disc
- ▷ Flexible Choices of density: either soft for finishing or hard for demanding applications like deburring

## BLENDEX U CUP DISCS

**SPIN-ON**



Dia.	Arbor	Grade	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	3SF	07-U 451	10,500	6,000	5	20
5"	5/8"-11	3SF	07-U 501	10,500	6,000	5	20



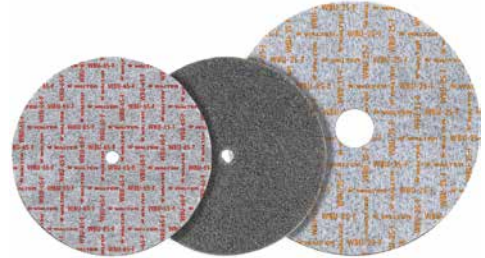
## BLENDEX U WHEELS



Dia.	Width	Arbor	Grade	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/4"	3/8"	2SF	07-U 321	15,100	20	200
3"	1/4"	3/8"	6SF	07-U 322	18,100	20	200
3"	1/4"	3/8"	6AM	07-U 323	18,100	20	200
6"	1/4"	1"	2SF	07-U 621	5,000	5	40
6"	1/4"	1"	6SF	07-U 622	7,500	5	40
6"	1/4"	1"	6AM	07-U 623	7,500	5	40
6"	1/2"	1"	2SF	07-U 651	5,000	4	36
6"	1/2"	1"	6SF	07-U 652	7,500	4	36
6"	1/2"	1"	6AM	07-U 653	7,500	4	36
6"	1"	1"	2SF	07-U 611	5,000	2	16
6"	1"	1"	6SF	07-U 612	7,500	2	16
6"	1"	1"	6AM	07-U 613	7,500	2	16

See reducer bushings.

- ▷ For use on portable or stationary machines
- ▷ Can be used on the edge or on either side of the wheel
- ▷ Safe for use on all metals



## BLENDEX U MOUNTED POINTS



Dia.	Width	Grade	Color	Order No.	Max. RPM	Std. Ctn.
3/8"	1 1/4"	2SF	Orange	07-U 101	37,210	5
3/8"	1 1/4"	6SF	Red	07-U 102	37,210	5
3/8"	1 1/4"	6AM	Black	07-U 103	37,210	5

Also see BLENDEX U Twist discs.

- ▷ These points are made with high quality BLENDEX U material and offer a fast way to blend, clean and polish in difficult to reach areas. 1/4" shaft



## POLISHING FLAP DISCS

High performance flap disc optimized for polishing and mirror finish applications

Get a professional shine efficiently and with the versatility of a flap disc. Strong removal rates and improved finishing capabilities ensure a consistent surface finish every time.



### INSTANT POLISH FLAP DISC

Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 452	7,300	2,000	5	20
5"	07-T 502	7,300	2,000	5	20



- ▷ To achieve a mirror finish in a single step
- ▷ For use on angle grinders with a suitable speed range

### ULTIMATE SHINE FLAP DISC

Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 453	7,300	2,000	5	20
5"	07-T 503	7,300	2,000	5	20



- ▷ As a second step to achieve the best mirror finish
- ▷ For use on angle grinders with a suitable speed range

### FELT CUP DISC

Hard density felt disc for polishing applications



Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
5"	1/2"	5/8"-11	07-T 505	10,500	2,000-4,000	5	20



- ▷ To be used with polishing pastes
- ▷ For use on angle grinders with a suitable speed range
- ▷ Reclosable polishing paste tube with convenient push-through system to protect paste from contaminants
- ▷ Suitable for use in food processing industries



### POLISHING PASTES

For use with felt, high polish and instant polish discs



Name	Order No.	Weight	Grit	Std. Pkg.	Std. Ctn.
White paste	07-T 901	600 g	1200-1500	1	10
Blue paste	07-T 905	650 g	2000	1	10
Instant polish paste	07-T 907	1200 g	1000-1500	1	5
Ultimate Shine™ paste	07-T 909	1300 g	2000-2500	1	5

- ▷ Achieve a mirror finish with only one paste
- ▷ Packed in a resealable bag that preserves the paste from contaminants and drying



# FX™ CLEANING ABRASIVES

Quick, easy surface cleaning on all metals

FX abrasives quickly remove paint, rust, scale, coatings, burn marks and gaskets without loading or clogging. Made from a high density, non-woven material, they are incredibly durable and can replace wire brushes in a wide variety of applications.



## SPIN-ON CUP DISCS



Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/4"	5/8"-11	07-X 450	10,500	6,000	5	20
5"	3/4"	5/8"-11	07-X 505	10,500	6,000	5	20

- ▷ Outstanding life and performance
- ▷ For use on angle grinders with a suitable speed range
- ▷ No backing pad required

## FX STAINLESS CUP WHEEL

Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4.5"	1/2"	5/8"-11	07-X 452	10,000	4,000	5	20
5"	1/2"	5/8"-11	07-X 502	8,000	4,000	5	20



### Accessories

#### Mounting accessories for 6" FX wheels

Mandrels for use on straight grinders and drills

1/4" shaft (1/2" arbor) **Order No. 07-X 006**

1/4" shaft (7/8" arbor) **Order No. 07-X 008**

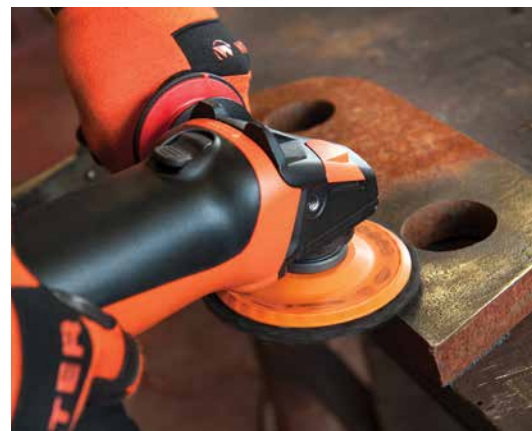


#### Extension mandrels for use on angle grinders

5/8"-11 thread **Order No. 07-C 006**



Video available at The Walter Network  
www.youtube.com/user/TheWalterNetwork







## FX™ STAINLESS

For cleaning welds on stainless steel

These specially formulated non-woven abrasives help to remove heat tint and discoloration from stainless steel surfaces while simultaneously leaving a #4 finish. They can replace wire brushes in many applications without any risk of contaminating stainless steel or aluminum surfaces.

Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
6"	½"	⅞"	07-X 661	4,000	2,400 to 2,700	5	20
6"	¼"	⅞"	07-X 662	4,000	2,400 to 2,700	5	20
6"	1"	⅞"	07-X 663	4,000	2,400 to 7000	5	20

### Features

- ▷ Premium abrasive grain blend guaranteed not to contaminate stainless steel
- ▷ Easily conforms to uneven surfaces like weld beads
- ▷ FX design ensures consistent performance throughout the life of the wheel

### Benefits

- ▷ Remove discoloration and finish weld surfaces in just one step
- ▷ Large diameter allows you to easily reach tight corners
- ▷ Safer to use than wire brushes (no risk of wires coming detached from the hub)



## BLENDEX U TURBO

For blending in fillet welds and deburring applications

Blendex U Turbo was engineered to provide the versatility and performance of Blendex U with a more aggressive grade of abrasive grains designed to remove more material. The end result is a wheel that is perfect for deburring and blending in fillet welds while leaving a uniform, consistent surface finish. Stop wasting flap discs and use the right tool for the job when confronted with weld beads in tight corners or other intricate areas.

### Features

- ▷ High grade unitized abrasive grain blend for premium performance
- ▷ Can be shaped to fit your specific application
- ▷ Provides a consistent, uniform surface finish throughout the life of the wheel

### Benefits

- ▷ Unitized design allows you to use the wheel at multiple angles for a variety of applications
- ▷ Extremely durable and long lasting
- ▷ The perfect system for blending in fillet welds when used with Ulti-Mate

### Tech tip!

Use with the Ulti-Mate system to blend and finish fillet welds with ease

Dia.	Width	Arbor	Grade	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
6"	⅞"	⅞"	7ZC	07-U 615	8,000	5,500	6	60
6"	¼"	⅞"	7ZC	07-U 625	8,000	5,500	4	200



## QUICK-STEP™ STARTER KIT

### Includes:

- 1 QUICK-STEP backing pad (07-Q 049)
- 1 QUICK-STEP flex grit 120 (07-Q 512)
- 1 QUICK-STEP interface pad (07-Q 045)
- 2 QUICK-STEP XX grit 120 (15-V 412)
- 2 QUICK-STEP XX grit 240 (15-V 424)
- 2 QUICK-STEP Blendex coarse (07-R 452)
- 2 QUICK-STEP Blendex med (07-R 453)
- 2 QUICK-STEP Blendex fine (07-R 454)
- 1 QUICK-STEP felt (07-T 450)
- 1 QUICK-STEP high polish (07-T 454)

### Features

- ▷ A complete range of abrasives for everything from weld blending to applying a #8 mirror finish

Dia.	Arbor	Order No.	Std. Pkg.	Std. Ctn.
4 ½"	⅝"-11	07-Q 953	1	5

# ULTI-MATE™ SYSTEM

Ulti-Mate system for finishing in tight corners

This versatile tool allows you to do everything from removing a weld to applying a #8 mirror finish when working in tight corners. The ideal tool for blending and finishing fillet welds, the Ulti-Mate™ allows you to take Walter abrasives to places that were previously inaccessible, allowing you to significantly reduce your cycle time and finish jobs faster.

See page 162 for more details.



**QUICK-STEP FELT DISC  
TO USE WITH ULTI-MATE SYSTEM**  
6" no. 07-T 602

**N° de comm.: 30-A 287**

**Includes:**

- Ulti-Mate powertool (30-A 287)
- 1 Enduro-Flex 2-in-1 Turbo (15-I 451)
- 1 Enduro-Flex 2-in-1 (15-I 453)
- 1 Blendex U Turbo, ¼" width (07-U 625)
- 1 Blendex U Turbo, 1/6" width (07-U 615)
- 1 Blendex U 2SF, ¼" width (07-U 621)
- 1 FX Stainless Wheel, ¼" width (07-X 662)

**Benefits**

- ▷ Allows you to quickly switch between abrasives to take time and cost out of finishing jobs
- ▷ Durable industrial tool that is built to last, saving you from having to replace your power tools every few months
- ▷ Designed to exceed all safety standards, creating a safer work environment

**Features**

- ▷ Dialspeed™ variable speed control allows you to quickly go from 1,600-3,200 RPM to tackle any application from heavy stock removal to polishing
- ▷ Powerful 1,450 W industrial motor with Dynamax™ RPM monitoring to maintain constant RPM under load
- ▷ Soft Start™ technology

*Finish (roughness average) obtained when using each product if used on a 2B stainless steel surface.*



DISCS	Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
				Ra	(>60 μin)	(60-50 μin)	(40-25 μin)	(16-12 μin)	(8-4 μin)	(4-1 μin)
				Grit size						
	Enduro-Flex 2-in-1 Turbo	Blending	15-I	36/60 + coarse						
	Enduro-Flex 2-in-1	Blending	15-I	80 + medium						
	BLENDEx U cup	Surface conditioning	07-U	3SF						
	FX cup	Surface cleaning	07-K	60						

WHEELS	BLENDEx U Turbo	Blending	07-U	7ZC							
	BLENDEx U	Surface conditioning	07-H	6AM							
				6SF							
				2SF							
	FX	Surface cleaning	07-X	FX							
FX Stainless											
Felt	Mirror finishing	07-T + paste	Instant Polish 1000-1500								
			Ultimate Shine 2000-2500								

# TWIST™ SURFACE FINISHING SYSTEM

The **TWIST™ quick-change system** makes changing discs on small air grinders quick and easy, reducing cycle time. Achieve the desired finish quickly and maximize your productivity with this versatile line of high quality abrasives.

## QUICK DISC CHANGE BETWEEN FINISHING STEPS

*Simply twist any abrasive to the backing pad and start working*

*Quickly change out abrasives to achieve the desired finish in fewer steps and with less time wasted making trips to the tool crib*



## TWIST™ QUICK-CHANGE SURFACE FINISHING SYSTEM

Use these backing pads with TWIST abrasives to reduce the time spent changing from one abrasive to the next. Use orange backing pads for contour work and finishing or black backing pads for blending and light weld removal.



### TWIST™ BACKING PADS

Dia.	Flexibility	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
2"	Medium	04-X 202	30,000	1	400
2"	Hard	04-X 203	30,000	1	400
3"	Medium	04-X 302	28,000	1	400
3"	Hard	04-X 303	28,000	1	400

Color code: Medium = orange, Hard = black

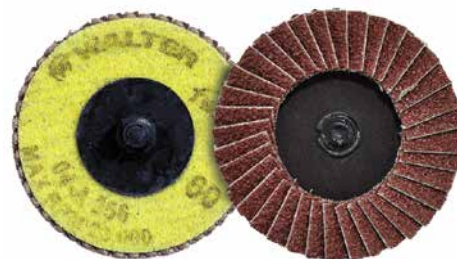
- ▷ *Molded polyurethane construction*
- ▷ *Removable mandrel*
- ▷ *Surface design ensures uniform disc support*
- ▷ *Allows for quick disc change-outs*

### TWIST™ FLAP DISCS



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2 1/2"	40	04-A 254	23,000	12,000	10	400
2 1/2"	60	04-A 256	23,000	12,000	10	400
2 1/2"	80	04-A 258	23,000	12,000	10	400
2 1/2"	120	04-A 262	23,000	12,000	10	400

Use with 2" backing pads



- ▷ *Long lasting with a consistent surface finish from start to end*
- ▷ *Very high removal rate*
- ▷ *Excellent for weld blending and finishing work*

## TWIST COOLCUT XX SANDING DISCS



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	36	04-C 203	30,000	15,000	50	500
2"	50	04-C 205	30,000	15,000	50	500
2"	60	04-C 206	30,000	15,000	50	500
2"	80	04-C 208	30,000	15,000	50	500
2"	120	04-C 212	30,000	15,000	50	500
3"	36	04-C 303	28,000	14,000	50	500
3"	50	04-C 305	28,000	14,000	50	500
3"	60	04-C 306	28,000	14,000	50	500
3"	80	04-C 308	28,000	14,000	50	500
3"	120	04-C 312	28,000	14,000	50	500



- ▷ Extremely aggressive removal rate for reduced cycle time
- ▷ The longest life in the industry to reduce your inventory needs
- ▷ Features Walter's exclusive Cyclone Technology™ high performance ceramic abrasive grain blend
- ▷ Grit is printed on the back for added convenience

## TWIST TOPCUT SANDING DISCS



Dia.	Grit	Color	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	36	Black	04-D 203	30,000	15,000	50	2000
2"	50	Yellow	04-D 205	30,000	15,000	50	2000
2"	60	Blue	04-D 206	30,000	15,000	50	2000
2"	80	Orange	04-D 208	30,000	15,000	50	2000
2"	100	Green	04-D 210	30,000	15,000	50	2000
2"	120	Beige	04-D 212	30,000	15,000	50	2000
3"	36	Black	04-D 303	28,000	14,000	50	1000
3"	50	Yellow	04-D 305	28,000	14,000	50	1000
3"	60	Blue	04-D 306	28,000	14,000	50	1000
3"	80	Orange	04-D 308	28,000	14,000	50	1000
3"	100	Green	04-D 310	28,000	14,000	50	1000
3"	120	Beige	04-D 312	28,000	14,000	50	1000



- ▷ High metal removal rate
- ▷ Long life due to special Zirconia alumina grain formulation
- ▷ Unique construction for optimal heat dissipation and wear resistance
- ▷ Color coded backing to easily distinguish between different grit sizes

### COLOR CODED FOR EASY IDENTIFICATION



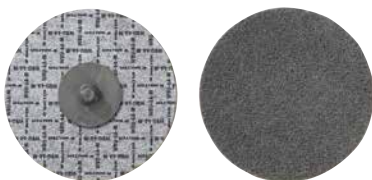
## TWIST BLENDEX CONDITIONING DISCS



Dia.	Grit	Color	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	Coarse	Tan	04-G 202	30,000	15,000	25	1000
2"	Medium	Maroon	04-G 203	30,000	15,000	25	1000
2"	Fine	Blue	04-G 204	30,000	15,000	25	1000
2"	Super fine	Grey	04-G 205	30,000	15,000	25	1000
3"	Coarse	Tan	04-G 302	28,000	14,000	25	500
3"	Medium	Maroon	04-G 303	28,000	14,000	25	500
3"	Fine	Blue	04-G 304	28,000	14,000	25	500
3"	Super fine	Grey	04-G 305	28,000	14,000	25	500



- COARSE:** For most heavy-duty applications
- MEDIUM:** For cleaning and removing surface imperfections
- FINE:** For producing a fine scratch pattern
- SUPER FINE:** Use as a last step before mirror finishing or to produce decorative finishes



▷ Designed for deburring, cleaning, blending, finishing light welds and polishing hard to reach areas

▷ Designed for polishing

▷ 100% pure premium wool product

▷ Use with Walter polishing pastes

▷ Reclosable polishing paste tube with convenient push-through system to protect paste from contaminants

▷ Suitable for use in food processing industries



▷ Extra strong non-woven construction for removing oxide, scale and gaskets

▷ Cleans without damaging the surface

▷ Leaves no residue on the surface



## TWIST BLENDEX U DISCS



Dia.	Grade	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	2SF	04-U 321	15,100	10	100
3"	6SF	04-U 322	15,100	10	100
3"	6AM	04-U 323	15,100	10	100

## TWIST FELT DISCS



Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	04-T 204	30,000	12,000	25	1000
3"	04-T 304	28,000	10,000	25	500

## POLISHING PASTES

For use with felt, high polish and instant polish discs



Name	Order No.	Weight	Grit	Std. Pkg.	Std. Ctn.
White paste	07-T 901	600 g	1200-1500	1	10
Blue paste	07-T 905	650 g	2000	1	10
Instant polish paste	07-T 907	1200 g	1000-1500	1	5
Ultimate Shine™ paste	07-T 909	1300 g	2000-2500	1	5

## FX SURFACE CLEANING DISCS



Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	04-L 200	30,000	12,000	10	400
3"	04-L 300	28,000	10,000	10	200

## TWIST STARTER KITS

### 2" assortment includes:

- 1 medium backing pad (04-X 202)
- 2 flap discs (1 of each grit, 40: 04-A 254 and 80: 04-A 258)
- 15 TOPCUT discs (3 of each grit 36: 04-D 203, 50: 04-D 205, 60: 04-D 206, 80: 04-D 208 and 120: 04-D 212);
- 12 BLENDEX discs (3 of each grit, coarse: 04-G 202, medium: 04-G 203, fine: 04-G 204 and super fine: 04-G 205) and 1 FX disc (04-L 200).

Order No. 04-Z 992

### 3" assortment includes:

- 1 medium backing pad (04-X 302)
- 10 TOPCUT discs (2 of each grit 36: 04-D 303, 50: 04-D 305, 60: 04-D 306, 80, 04-D 308 and 120, 04-D 312);
- 4 BLENDEX discs (1 of each grit, coarse: 04-G 302, medium: 04-G 303, fine: 04-G 304 and super fine: 04-G 305) and 1 FX disc (04-L 300).

Order No. 04-Z 993

# Safety Seminar

ABRASIVES | POWER TOOLS

**Walter Surface Technologies trains thousands of workers every year worldwide on safe practices with abrasives.**

For over 60 years, WALTER has been offering innovative solutions for the metalworking industry. Our Safety Seminar is part of our commitment to help you increase your productivity through safe practices.

Our Safety Seminar has been developed with years of industry experience, and input from users like you. Our trained instructors use an interactive format combining safety basics, PPE, proper identification and use of abrasives.



## The Walter Safety Seminar is ...

- Interactive On-Site
- Industry Relevant
- Adapted to your needs



Contact your local WALTER representative to book your on-site sessions.

**1.866.592.5837**  
**walter.com/support/safety-first**

## Safety Seminar Topics:

- Why Is Safety Important?
- Key Safety Points
- Personal Protective Equipment
- Abrasive Basics
- Proper Mounting
- Safe Practices
- Industry Ratings

*...and more*

Keep in mind  
**Safety Starts With You!**

 **WALTER**  
Surface Technologies

Only the best.™

07

BRUSHING



# HIGH PERFORMANCE POWER BRUSHES



**Power brushes have long been used** for edge and surface conditioning on a wide variety of materials. Unlike grinding wheels and other abrasives that remove base material along with surface contaminants, power brushes work on the metal surface without removing the base material. The tips of the wire hammer the metal surface like thousands of tiny ball peens to finish and work the surface.

To withstand that kind of abuse, every Walter power brush is made from only the finest industrial grade materials. Combined with the latest manufacturing technology and strictest quality control, every power brush is designed to guarantee the highest productivity, longest brush life and maximum operator safety.

## Perfect Balance

*Every knot is perfectly balanced through an accurate wire count and an even trim length before being permanently anchored in an individual hole. This ensures perfect concentricity and vibration-free brushing for maximum operator comfort.*

*Internal steel plate holds wires securely in place even under extreme pressure for maximum strength and safety.*





## Longest Life

*Premium high tensile wire is oil-hardened and tempered for the longest life. Wire quality is mill certified for every batch, ensuring consistent performance brush after brush.*

### Color coded hubs for easy identification






#### Hub color Wire type

<p><b>Orange</b></p> 	<p>Made with premium carbon steel wire that is oil hardened and tempered for longest life and maximum brushing action.</p>
<p><b>Blue</b></p> 	<p>Made with 304 stainless steel wire to help prevent contamination and surface rusting of brushed stainless steel parts. Also may be used on aluminum and other non-ferrous metals.</p>





Choose the right wire brush for your application

POWER TOOL USED	TYPE OF BRUSH	BRUSH DIA.	COMPATIBLE GRINDER DIAMETER	WIRE CONSTRUCTION	APPLICATION	METAL
 Flat cleaning	Wire cup brushes	3"	4", 4½", 5", 6"	<b>Crimped</b>	For quick, efficient cleaning, brushing and finishing of large flat surfaces.	● ●
		4"	7", 9"	<b>Knot-Twisted</b>	For heavy-duty applications such as deburring, weld cleaning or removing significant oxidation from surfaces.	● ●
		5" 6"	7", 9" 9"	<b>Knot-Twisted with ring</b>	Heavy-duty cleaning with thicker wire and a supporting ring for added safety and a longer working life.	● ●
 Angle cleaning	Saucer-Cup brushes	4"	4", 4½", 5"	<b>Knot-Twisted</b>	For weld cleaning and deburring in hard to reach areas such as inside corners, fillet welds and contours.	● ●
		5" 6", 7"	5", 6" 7", 9"	<b>Crimped</b>	For cleaning wider root passes and rough surfaces. Can clean on both sides of a weld at the same time.	●
 Vertical cleaning	Wire wheel brushes	4"	4", 4½", 5"	<b>Crimped</b>	For cleaning welds or over uneven surfaces, such as pipe and tubing.	● ●
		4½" 5"	4½", 5" 5", 6"	<b>Stringer Bead</b>	For cleaning in narrow spaces such as in between passes on pipes or narrow groves, etc.	● ●
		6", 6⅝"	7", 9"	<b>Knot-Twisted</b>	For cleaning wider root passes as well as removing scale, spatter and corrosion.	● ●
 Vertical cleaning	Wire wheel brushes	4" to 10"	All bench and pedestal grinders with suitable speed range	<b>Crimped</b>	For light deburring and similar cleaning jobs, to remove paint, rust, etc.	● ●
				<b>Knot-Twisted</b>	For heavy-duty applications such as removal of rust, corrosion and gaskets.	● ●
 Vertical cleaning	Mounted brushes	½" to 4"	All drill or die grinders with a suitable speed range	<b>Crimped</b>	For cleaning hard to reach areas such as pipe interiors and confined spaces.	● ●
				<b>Knot-Twisted</b>	For heavy-duty applications such as removal of rust, corrosion and gaskets.	● ●

# Wire cup brushes

For angle grinders

Designed for high performance brushing of large flat surfaces. Our wire cup brushes are designed to outlast all competitive brushes. Whether you are removing paint, spatter, rust or cleaning weld edges, we have a brush that can help you work faster and more safely.

## CRIMPED



Dia.	Arbor	Order No.	Wire	Max. RPM	Std. Pkg.	Std. Ctn.
3"	M10 x 1.25	13-D 300	.0118"	12000	1	10
3"	M14 X 2.0	13-D 302	.0118"	12000	1	10
3"	5/8"-11	13-D 304	.0118"	12000	1	10
5"	5/8"-11	13-E 504	.020"	8600	1	10



▷ *Crimped for light surface cleaning, rust and paint removal, etc.*

## CRIMPED WITH RING



3"	5/8"-11	13-D 324	.0118"	12000	1	10
4"	5/8"-11	13-D 424	.0118"	8600	1	10
5"	5/8"-11	13-D 524	.0118"	8600	1	10



▷ *Safety supporting ring controls flaring to extend brush life. Once wires are worn down to the ring, the ring can be removed to expose more wire for extra brush life*

## CRIMPED



3"	M14 X 2.0	13-D 312	.0118"	12000	1	10
3"	5/8"-11	13-D 314	.0118"	12000	1	10
5"	5/8"-11	13-E 514	.020"	8600	1	10

## KNOT-TWISTED



Dia.	Arbor	Order No.	Wire	Max. RPM	Std. Pkg.	Std. Ctn.
3"	M10 x 1.25	13-F 300	.015"	12000	1	10
3"	M10 x 1.5	13-F 301	.015"	12000	1	10
3"	M14 X 2.0	13-F 302	.015"	12000	1	10
3"	1/2"-13	13-F 303	.015"	12000	1	10
3"	5/8"-11	13-F 304	.015"	12000	1	10
3"	5/8"-11	13-F 354	.020"	12000	1	10



Video available at *The Walter Network*  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



▷ *Knot-twisted for heavy-duty brushing such as deburring, weld edge cleaning, removal of scale, spatter, heavy rust and corrosion, etc.*

## KNOT-TWISTED



3"	M10 x 1.5	13-F 310	.015"	12000	1	10
3"	M14 X 2.0	13-F 312	.015"	12000	1	10
3"	5/8"-11	13-F 314	.015"	12000	1	10



- ▷ Knot-twisted with safety supporting ring for heavy-duty brushing
- ▷ Safety supporting ring controls flaring to extend brush life. Once worn down to the ring, it can be removed to expose more wire for extra brush life



## Wire cup brushes



Double-row

- ▷ Work two times faster on large surfaces
- ▷ Requires less torque from the power tool for the same efficiency
- ▷ Unbeatable life and added working hours per brush

### **KNOT-TWISTED WITH RING**



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	M14 x 2.0	13-G 302	.020"	½"	12,000	1	10
3"	½"-13	13-G 303	.020"	½"	12,000	1	10
3"	⅝"-11	13-G 304	.020"	½"	12,000	1	10
4"	⅝"-11	13-G 404	.020"	½"	8,600	1	10
5"	⅝"-11	13-G 504	.020"	½"	8,600	1	10
5"	⅝"-11	13-G 554	.035"	½"	8,600	1	10
6"	⅝"-11	13-G 604	.020"	½"	6,800	1	10

### **KNOT-TWISTED WITH RING**



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	M14 x 2.0	13-G 312	.020"	½"	12,000	1	10
3"	⅝"-11	13-G 314	.020"	½"	12,000	1	10
5"	⅝"-11	13-G 514	.020"	½"	8,600	1	10

### **DOUBLE-ROW KNOT-TWISTED CUP BRUSHES WITH RING**



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
5"	⅝"-11	13-G 574	.020"	1"	8,600	1	10

### **DOUBLE-ROW KNOT-TWISTED CUP BRUSHES WITH RING**



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
5"	⅝"-11	13-G 584	.020"	1"	8,600	1	10

# Wire wheel brushes

For precision cleaning with angle grinders

These brushes are made from top quality wire that is perfectly knotted and balanced for minimal vibration and maximum operator safety. Quicker surface cleaning, the longest product life in the industry and an emphasis on operator safety make our wire wheel brushes the preferred choice for professionals throughout North America.

## CRIMPED WIRE WHEEL



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"	5/8"-11	13-J 454	0.0118"	12,500	1	10
5"	5/8"	5/8"-11	13-J 504	0.0118"	10,000	1	10
6"	5/8"	5/8"-11	13-J 604	0.0118"	9,000	1	10

## CRIMPED WIRE WHEEL



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"	5/8"-11	13-J 464	0.0118"	12,500	1	10
5"	5/8"	5/8"-11	13-J 514	0.0118"	10,000	1	10
6"	5/8"	5/8"-11	13-J 614	0.0118"	9,000	1	10

## STRINGER BEAD



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/16"	5/8"-11	13-K 404	.020"	20,000	1	10
4 1/2"	3/16"	5/8"-11	13-K 454	.020"	15,000	1	10
5"	1/4"	5/8"-11	13-K 504	.020"	15,000	1	10
6"	1/4"	5/8"-11	13-K 604	.020"	10,000	1	10
6 7/8"	1/4"	5/8"-11	13-K 654	.020"	9,000	1	10

## STRINGER BEAD



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/16"	5/8"-11	13-K 414	.020"	20,000	1	10
4 1/2"	3/16"	5/8"-11	13-K 464	.020"	15,000	1	10
5"	1/4"	5/8"-11	13-K 514	.020"	15,000	1	10
6"	1/4"	5/8"-11	13-K 614	.020"	10,000	1	10

## KNOT-TWISTED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/8"	5/8"-11	13-L 404	.020"	20,000	1	10
4 1/2"	3/8"	5/8"-11	13-L 454	.020"	15,000	1	10
5"	3/8"	5/8"-11	13-L 504	.020"	15,000	1	10
6"	3/8"	5/8"-11	13-L 604	.020"	10,000	1	10

## KNOT-TWISTED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/8"	5/8"-11	13-L 414	.020"	20,000	1	10
4 1/2"	3/8"	5/8"-11	13-L 464	.020"	15,000	1	10
5"	3/8"	5/8"-11	13-L 514	.020"	15,000	1	10
6"	3/8"	5/8"-11	13-L 614	.020"	10,000	1	10



▷ Stringer bead brushes are extra narrow to clean in tight areas such as between weld passes in pipe fitting



▷ Knot-twisted brushes are for surface cleaning after welding, to remove scale, spatter, rust and corrosion

# SAUCER-CUP BRUSHES

For cleaning hard-to-reach areas

These brushes have a built-in working angle of 45° to clean surfaces in hard-to-reach areas such as inside corners, edges and contours. Knot-twisted brushes are tightly knotted to remove surface imperfections quickly and ensure a long, productive lifespan. Crimped brushes provide excellent cleaning on uneven surfaces.

- ▷ For surface cleaning such as removing paint, rust and corrosion
- ▷ Tightly knotted for maximum impact and long brush life (knot-twisted only)

## CRIMPED



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	13-H 454	.012"	1/2"	12,500	1	10
5"	5/8"-11	13-H 554	.012"	3/4"	10,000	1	10
6"	5/8"-11	13-H 654	.012"	3/4"	9,000	1	10



## KNOT-TWISTED



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	13-H 404	.015"	1/2"	20,000	1	10
5"	5/8"-11	13-H 504	.020"	1/2"	15,000	1	10
6"	5/8"-11	13-H 604	.020"	1/2"	12,500	1	10
7"	5/8"-11	13-H 704	.020"	1/2"	10,000	1	10



## KNOT-TWISTED



Dia.	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	13-H 414	.015"	20,000	1	10
5"	5/8"-11	13-H 514	.020"	15,000	1	10
6"	5/8"-11	13-H 614	.020"	12,500	1	10
7"	5/8"-11	13-H 714	.020"	10,000	1	10

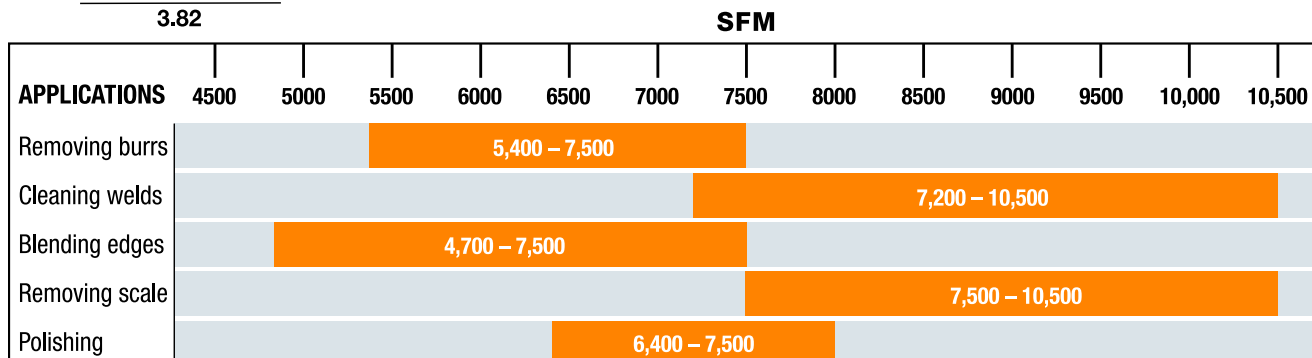


To convert brushes with 5/8"-11 arbor, please see special threaded adaptors.

## Choose the right speed for your application

TO CONVERT SURFACE FEET PER MINUTE (SFM) TO RPM:

SFM =  $\frac{\text{DIAMETER} \times \text{RPM}}{3.82}$





▷ Crimped wire for general surface cleaning, rust, scale and paint removal, etc.

Spherical



▷ The spherical shape allow you to clean in almost any position around the working area. Perfect for cleaning inside pipes and custom hard to reach areas.

Straight



Conical



Wheel



Cup



## Mounted Wire Brushes

Our mounted wire brushes come in a variety of sizes and configurations to fit numerous industrial applications on die grinders, power drills or automated equipment.

For die grinders 1/4" shaft.

### MOUNTED CRIMPED



Type	Dia.	Width	Order No.	Wire	Max. RPM	Std. Pkg.	Std. Ctn.
Straight	1/2"		13-C 003	.010"	25,000	1	10
Straight	1/2"		13-C 005	.020"	25,000	1	10
Straight	3/4"		13-C 008	.014"	25,000	1	10
Conical	3/4"		13-C 028	.014"	25,000	1	10
Wheel	1 3/8"	1/4"	13-C 110	.008"	25,000	1	10
Wheel	2"	5/8"	13-C 120	.0118"	25,000	1	10
Wheel	3"	1/4"	13-C 123	.0118"	25,000	1	10
Wheel	3"	3/4"	13-C 125	.0118"	25,000	1	10
Wheel	4"	1/4"	13-C 128	.0118"	15,000	1	10
Cup	1 1/2"		13-C 015	.0118"	13,000	1	10
Cup	2 3/8"		13-C 018	.0118"	13,000	1	10
Spherical	1 1/2"	1 1/2"	13-C 215	.008"	20,000	1	10
Spherical	2"	2"	13-C 225	.010"	20,000	1	10
Spherical	3"	3"	13-C 230	.0118"	15,000	1	10

### MOUNTED CRIMPED



Type	Dia.	Width	Order No.	Wire	Max. RPM	Std. Pkg.	Std. Ctn.
Straight	1/2"		13-C 053	.010"	25,000	1	10
Straight	1/2"		13-C 055	.020"	25,000	1	10
Straight	3/4"		13-C 058	.014"	25,000	1	10
Conical	3/4"		13-C 078	.0118"	25,000	1	10
Wheel	1 3/8"	1/4"	13-C 160	.008"	25,000	1	10
Wheel	2"	5/8"	13-C 170	.0118"	25,000	1	10
Wheel	3"	1/4"	13-C 173	.0118"	25,000	1	10
Wheel	3"	3/4"	13-C 175	.0118"	25,000	1	10
Wheel	4"	1/4"	13-C 178	.0118"	15,000	1	10
Cup	1 1/2"		13-C 065	.0118"	13,000	1	10
Cup	2 3/8"		13-C 068	.0118"	13,000	1	10
Spherical	1 1/2"	1 1/2"	13-C 265	.008"	20,000	1	10
Spherical	2"	2"	13-C 275	.010"	20,000	1	10
Spherical	3"	3"	13-C 280	.0118"	15,000	1	10

**KNOT-TWISTED**

Type	Dia.	Width	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
Straight	1 1/8"		13-C 020	.020"	25,000	1	10
Wheel	2 3/4"	3/8"	13-C 130	.020"	25,000	1	10
Saucer-cup	3"	1/2"	13-C 270	.020"	25,000	1	10
Cup	3"	1/2"	13-C 370	.020"	12,000	1	10

**KNOT-TWISTED**

Type	Dia.	Width	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
Straight	1 1/8"		13-C 070	.020"	25,000	1	10
Wheel	2 3/4"	3/8"	13-C 180	.020"	25,000	1	10

**DOUBLE SIDED KNOT-TWISTED**

Type	Dia.	Width	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
Wheel	3"	3/8"	13-C 303	.0118"	25,000	1	10
Wheel	4"	3/8"	13-C 404	.0118"	20,000	1	10

Mandrels for double sided brushes, order No. 13-D 008 (for 13-C 303) and 13-D 009 (for 13-C 404).



COMBINE YOUR WIRE BRUSH WITH THE BEST POWER TOOL!  
See page 166

Straight



Wheel



Saucer-cup



Cup



Mandrel shown on picture sold separately.

Wheel

**LINEAR CRIMPED BRUSHES**

Our linear wire brushes can be used with the LINE-MATE III™ system for efficient cleaning over wide surface areas.

**LINEAR CRIMPED BRUSHES**

Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	13-M 454	.01"	4,000	1	10

**LINEAR CRIMPED BRUSHES**

Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	13-M 464	.01"	4,000	1	10



# Wire wheel brushes

For bench and pedestal grinders

These brushes are made from industrial quality wire perfectly balanced for smooth operation and long life. They are most commonly used to remove paint, rust and corrosion, for light deburring and similar cleaning jobs.

## CRIMPED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/4"	1/2"	13-B 040	.0118"	6,000	1	10
6"	7/8"	1 1/4"	* 13-B 060	.0118"	6,000	1	10
6"	1 1/8"	1 1/4"	* 13-B 061	.0118"	6,000	1	10
6"	3/4"	1 1/4"	* 13-B 065	.0118"	6,000	1	10
7"	7/8"	1 1/4"	* 13-B 070	.0118"	6,000	1	10
7"	3/4"	1 1/4"	* 13-B 075	.0118"	6,000	1	10
8"	1"	1 1/4"	* 13-B 080	.0118"	4,500	1	10
8"	1/2"	5/8"	** 13-B 082	.0118"	4,500	1	10
8"	3/4"	1 1/4"	* 13-B 085	.0118"	4,500	1	10
6"	1"	1 1/4"	* 13-B 100	.0118"	3,600	1	10
8"	1"	1 1/4"	* 13-B 180	.0118"	4,500	1	10

\* All brushes with 1 1/4" arbor are equipped with a set of reducer bushings to fit the following shaft diameters: 1/2", 5/8", 3/4", 7/8" and 1".

\*\* This brush comes with 1/2" reducer bushings.



- ▷ Crimped wire has optimal density and wire trim for the most effective brushing action and longest life
- ▷ For general surface cleaning and deburring applications

## CRIMPED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
6"	3/4"	1 1/4"	* 13-B 165	.0118"	6,000	1	10
6"	7/8"	1 1/4"	* 13-B 160	.0118"	6,000	1	10
8"	3/4"	1 1/4"	* 13-B 185	.0118"	4,500	1	10
8"	1"	1 1/4"	* 13-B 180	.0118"	4,500	1	10

\* All brushes with 1 1/4" arbor are equipped with a set of reducer bushings to fit the following shaft diameters: 1/2", 5/8", 3/4", 7/8" and 1".

Accessory	
Replacement set of bushings	
Complete set	13-B 015



## KNOT-TWISTED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
6"	3/8"	5/8"	** 13-B 260	.0118"	9,000	1	10
8"	3/8"	5/8"	** 13-B 280	.0118"	8,500	1	10

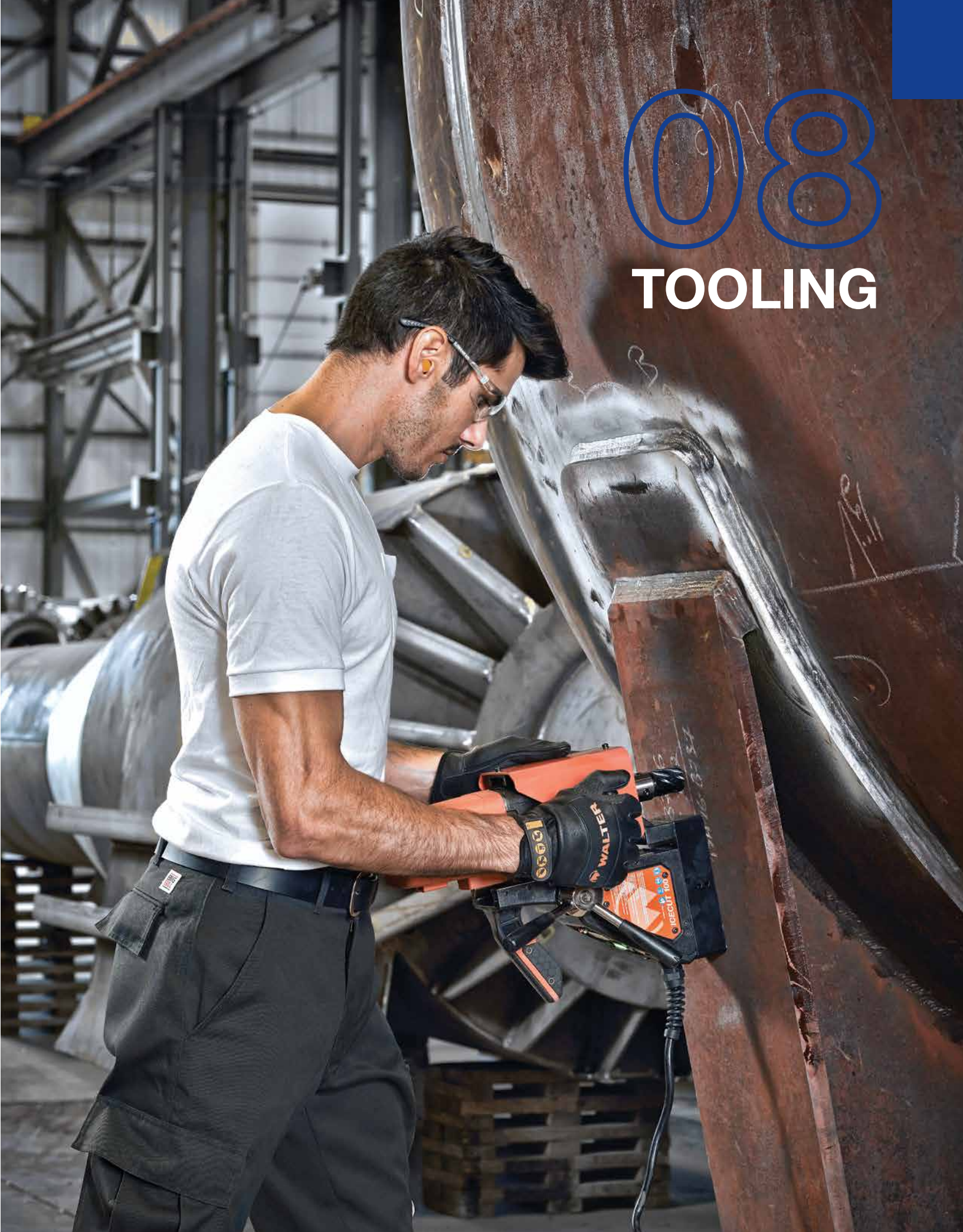
\*\* These brushes come with 1/2" reducer bushings.

- ▷ These brushes are designed to be flipped and mounted in the opposite direction
- ▷ This self-sharpens the wires, increasing the life while maintaining fast cleaning and deburring rates











08

TOOLING



# How to choose the right drill bit

## For drilling holes smaller than 1/2 in. <sup>(1)</sup>

Power tool	Material to drill	Thickness of mat. <sup>(2)</sup>	Required drill bit	Products	Why?
Drill press, magnetic drilling unit, automated drilling machine	Mild steel	< 1/2"	SST+ 135° Stub Round Shank		Strongest drill bit, won't break if you get stuck.
		> 1/2"	SST+ 135° Jobbers Round Shank		Most effective in thick material, won't break if you get stuck.
	High tensile steel	< 1/2"	SST+ 135° Stub Round Shank		Strongest drill bit, won't break if you get stuck.
		> 1/2"	SST+ 135° Jobbers Round Shank		Most effective in thick material, won't break if you get stuck.
Hand held power tool	Mild steel	< 1/2"	SST+ 135° Stub Quick Shank		Best grip on your power tool, allows you to drill fast and precise.
		> 1/2"	SST 118° Jobbers Quick Shank		Best grip for hand held tools. Allows you to drill fast and precise.
	High tensile steel	< 1/2"	SST+ 135° Stub Quick Shank		Best grip on your power tool, allows you to drill fast and precise.
		> 1/2"	SST+ 135° 3/8" Reduced Shank		Most effective in thick material, won't break if you get stuck.

(1) For drilling bigger holes, use a reduced shank or a Prentice drill bit.  
 (2) For best performance, never drill a hole deeper than 1/2 the length of the drill bit's fluting

### All Walter drill bits feature:

- Special HSS M35 with cobalt blend (HSS+Co) for premium life and performance
- High flow spiral and chisel edge design to maximize chip evacuation
- Proven SST heat and surface treatment to reduce friction and increase the chip flow
- Heavy-duty, fully ground body construction
- Self-centering split point allowing you to drill any size of hole in a single operation and prevents the "walking effect" on curved surfaces

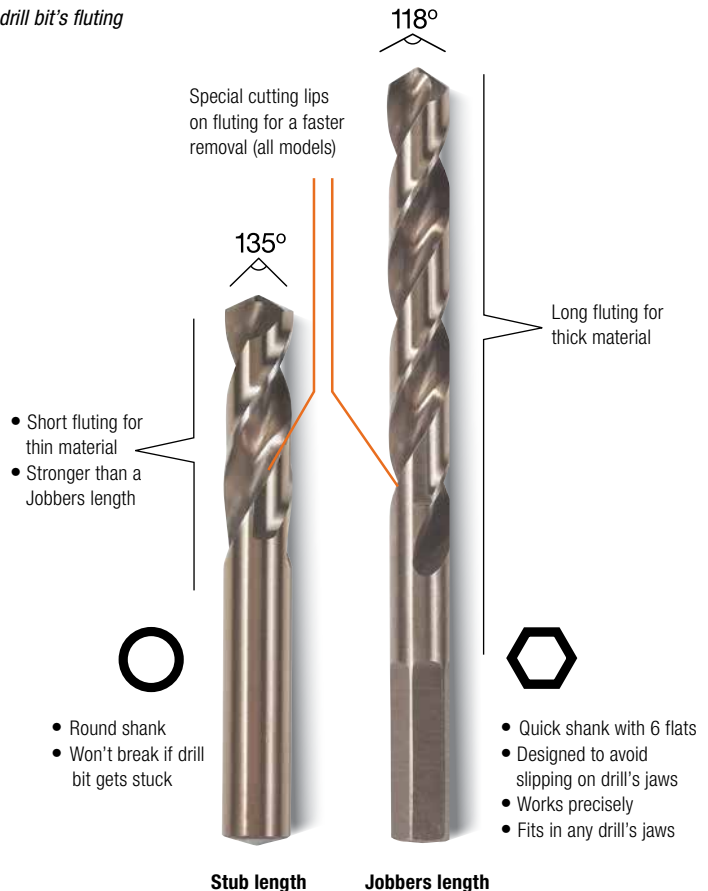
## Drill more holes... faster!

### Tech tip!

Three ways to maximize drilling efficiency:

- Use the correct feed rate
- Use the correct RPM speed
- Use Walter's COOLCUT lubricant stick

Order No.: 53-B 013



118°

Special cutting lips on fluting for a faster removal (all models)

135°

Long fluting for thick material

- Short fluting for thin material
- Stronger than a Jobbers length

- Round shank
- Won't break if drill bit gets stuck

- Quick shank with 6 flats
- Designed to avoid slipping on drill's jaws
- Works precisely
- Fits in any drill's jaws

Stub length      Jobbers length

# SST™ 118° JOBBERS LENGTH FRACTIONAL

## Quick shank drill bits

For hand held tools in mild steel

The proven original SST™ drill bit, made with M35 cobalt blend, is designed with an exclusive quick shank that ensures fast and secure tightening inside any keyed or keyless chucks. Ideal for cordless drills, allowing you to drill more holes per charge. Recommended for drilling on any type of thin gauge metal or sheet metal where a jobber's length bit is required. Ability to drill through multiple layers of metal quickly and easily.

- ▷ **Unique shank design with six long flats**
- ▷ **Self-centering 118° split point geometry**
- ▷ **Proven SST heat and surface treatment**
- ▷ **Back tapered body**
- ▷ **Heavy-duty HSS+Co body construction**



Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.	Available individually Order No.
1/16"	3/16"	13/16"	01-A 004	10	100	01-A 004A
5/64"	15/16"	1 15/16"	01-A 005	10	100	01-A 005A
3/32"	1 3/16"	2 1/4"	01-A 006	10	100	01-A 006A
7/64"	1 5/16"	2 3/8"	01-A 007	10	100	01-A 007A
1/8"	1 7/16"	2 9/16"	01-A 008	10	100	01-A 008A
9/64"	1 9/16"	2 3/4"	01-A 009	10	100	01-A 009A
5/32"	1 11/16"	2 15/16"	01-A 010	10	100	01-A 010A
11/64"	1 7/8"	3 1/8"	01-A 011	10	100	01-A 011A
3/16"	2 1/16"	3 3/8"	01-A 012	10	100	01-A 012A
13/64"	2 1/4"	3 3/8"	01-A 013	10	100	01-A 013A
7/32"	2 1/4"	3 11/16"	01-A 014	10	100	01-A 014A
15/64"	2 1/4"	3 11/16"	01-A 015	10	100	01-A 015A
1/4"	2 1/2"	4"	01-A 016	10	100	01-A 016A
17/64"	2 11/16"	4 5/16"	01-A 017	10	100	01-A 017A
9/32"	2 11/16"	4 9/16"	01-A 018	10	100	01-A 018A
19/64"	2 15/16"	4 5/8"	01-A 019	10	100	01-A 019A
5/16"	2 15/16"	4 5/8"	01-A 020	10	100	01-A 020A
21/64"	2 15/16"	4 5/8"	01-A 021	10	100	01-A 021A
11/32"	3 3/16"	4 15/16"	01-A 022	10	100	01-A 022A
23/64"	3 3/16"	4 15/16"	01-A 023	10	100	01-A 023A
3/8"	3 7/16"	5 1/4"	01-A 024	10	100	01-A 024A
25/64"	3 7/16"	5 1/4"	01-A 025	5	50	01-A 025A
13/32"	3 7/16"	5 1/4"	01-A 026	5	50	01-A 026A
27/64"	3 11/16"	5 9/16"	01-A 027	5	50	01-A 027A
7/16"	3 11/16"	5 9/16"	01-A 028	5	50	01-A 028A
29/64"	3 11/16"	5 9/16"	01-A 029	5	50	01-A 029A
15/32"	4"	5 15/16"	01-A 030	5	50	01-A 030A
31/64"	4"	5 15/16"	01-A 031	5	50	01-A 031A
1/2"	4"	5 15/16"	01-A 032	5	50	01-A 032A

Packaged in reusable plastic boxes.

Sizes 1/64" and smaller have a round shank.



Video available at The Walter Network  
www.youtube.com/user/TheWalterNetwork



NOW AVAILABLE INDIVIDUALLY



SHOCK-RESISTANT, EXTRA-THICK POLYETHYLENE DRILL BIT CARRYING CASE

1/16" to 1/2" by 64<sup>th</sup>s  
29 drill bits

Order No. 01-E 118



1/16" to 1/2" by 64<sup>th</sup>s  
29 Jobbers Length drill bits  
Order No. 01-E 178

### Tech tip!

For increased cutting efficiency and tool life, use COOLCUT solid stick lubricant.

Order No.: 53-B 013

# SST+™ 135° JOBBERS LENGTH FRACTIONAL Round shank drill bits

For high tensile steel

Walter SST+™ drill bits are made from M35 cobalt blend to drill even more holes faster on any type of material.



Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1/64"	3/16"	19/16"	01-A 501	10	100
1/32"	3/8"	1 3/16"	01-A 502	10	100
3/64"	5/8"	1 1/2"	01-A 503	10	100
1/16"	13/16"	1 11/16"	01-A 504	10	100
5/64"	15/16"	1 15/16"	01-A 505	10	100
3/32"	1 3/16"	2 1/4"	01-A 506	10	100
7/64"	1 5/16"	2 3/8"	01-A 507	10	100
1/8"	1 7/16"	2 9/16"	01-A 508	10	100
9/64"	1 9/16"	2 3/4"	01-A 509	10	100
5/32"	1 11/16"	2 15/16"	01-A 510	10	100
11/64"	1 7/8"	3 1/8"	01-A 511	10	100
3/16"	2 1/16"	3 3/8"	01-A 512	10	100
19/64"	2 1/16"	3 3/8"	01-A 513	10	100
7/32"	2 1/4"	3 11/16"	01-A 514	10	100
15/64"	2 1/4"	3 11/16"	01-A 515	10	100
1/4"	2 1/2"	4"	01-A 516	10	100
17/64"	2 11/16"	4 5/16"	01-A 517	10	100
9/32"	2 11/16"	4 5/16"	01-A 518	10	100
19/64"	2 15/16"	4 5/8"	01-A 519	10	100
5/16"	2 15/16"	4 5/8"	01-A 520	10	100
21/64"	2 15/16"	4 5/8"	01-A 521	10	100
11/32"	3 3/16"	4 15/16"	01-A 522	10	100
29/64"	3 3/16"	4 15/16"	01-A 523	10	100
3/8"	3 7/16"	5 1/4"	01-A 524	10	100
25/64"	3 7/16"	5 1/4"	01-A 525	5	50
13/32"	3 7/16"	5 1/4"	01-A 526	5	50
27/64"	3 11/16"	5 9/16"	01-A 527	5	50
7/16"	3 11/16"	5 9/16"	01-A 528	5	50
29/64"	3 11/16"	5 9/16"	01-A 529	5	50
15/32"	4"	5 15/16"	01-A 530	5	50
31/64"	4"	5 15/16"	01-A 531	5	50
1/2"	4"	5 15/16"	01-A 532	5	50

Packaged in reusable plastic packaging.  
Sizes 3/64" and smaller have a regular point.



- ▷ Self-centering 135° split point geometry
- ▷ Proven SST heat and surface treatment
- ▷ Heavy-duty HSS+Co body construction
- ▷ High flow flute design

## SHOCK-RESISTANT, EXTRA-THICK POLYETHYLENE DRILL BIT CARRYING CASE

1/16" to 1/2" by 64<sup>ths</sup>  
29 drill bits  
**Order No. 01-E 618**



1/16" to 1/2" by 64<sup>ths</sup>  
29 Jobbers Length drill bits  
**Order No. 01-E 678**

- ▷ Refillable
- ▷ Protects drill bits from water, rust, oil and other contaminants
- ▷ Quick-release belt clip



## SST+™ 135° STUB LENGTH

For thin gauge material and sheet metal

These drill bits have short flutes as well as a short overall length for maximum rigidity when drilling in sheet metal. They are made with a cobalt blend to provide a long service life in hard materials such as stainless steel.

Excellent for drilling into sheet metal and other thin-walled material. The 135° split point prevents center-punching and its short length helps prevent breakage, making it an ideal option for drilling in confined spaces.

### Tech tip!

Remember this rule:

Small diameter bits = High speed, low feed

Large diameter bits = Low speed, high feed

- ▷ Produce minimal burr when drilling in sheet metal
- ▷ Self-centering 135° split point
- ▷ Heavy-duty body construction
- ▷ No center punching necessary



## Quick shank drill bits

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1/16"	3/8"	1 5/16"	01-H 104	10	100
5/64"	1/2"	1 1/2"	01-H 105	10	100
3/32"	9/16"	1 11/16"	01-H 106	10	100
7/64"	5/8"	1 13/16"	01-H 107	10	100
1/8"	11/16"	1 15/16"	01-H 108	10	100
9/64"	13/16"	2 1/16"	01-H 109	10	100
5/32"	7/8"	2 3/16"	01-H 110	10	100
11/64"	15/16"	2 5/16"	01-H 111	10	100
3/16"	1"	2 7/16"	01-H 112	10	100
13/64"	1"	2 7/16"	01-H 113	10	100
7/32"	1 1/8"	2 5/8"	01-H 114	10	100
15/64"	1 1/8"	2 5/8"	01-H 115	10	100
1/4"	1 1/4"	2 3/4"	01-H 116	10	100
17/64"	1 5/16"	2 15/16"	01-H 117	10	100
9/32"	1 5/16"	2 15/16"	01-H 118	10	100
19/64"	1 5/16"	2 15/16"	01-H 119	10	100
5/16"	1 7/16"	3 1/8"	01-H 120	10	100
21/64"	1 7/16"	3 1/8"	01-H 121	10	100
11/32"	1 9/16"	3 5/16"	01-H 122	10	100
23/64"	1 9/16"	3 5/16"	01-H 123	10	100
3/8"	1 11/16"	3 1/2"	01-H 124	10	100
25/64"	1 11/16"	3 1/2"	01-H 125	5	50
13/32"	1 11/16"	3 1/2"	01-H 126	5	50
27/64"	1 7/8"	3 3/4"	01-H 127	5	50
7/16"	1 7/8"	3 3/4"	01-H 128	5	50
29/64"	1 7/8"	3 3/4"	01-H 129	5	50
15/32"	2"	4"	01-H 130	5	50
31/64"	2"	4"	01-H 131	5	50
1/2"	2"	4"	01-H 132	5	50

Packaged in reusable plastic packaging. Sizes 11/64" and smaller have a round shank.



## Round shank drill bits

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1/16"	3/8"	1 5/16"	01-H 004	10	100
5/64"	1/2"	1 1/2"	01-H 005	10	100
3/32"	9/16"	1 11/16"	01-H 006	10	100
7/64"	5/8"	1 13/16"	01-H 007	10	100
1/8"	11/16"	1 15/16"	01-H 008	10	100
9/64"	13/16"	2 1/16"	01-H 009	10	100
5/32"	7/8"	2 3/16"	01-H 010	10	100
11/64"	15/16"	2 5/16"	01-H 011	10	100
3/16"	1"	2 7/16"	01-H 012	10	100
13/64"	1"	2 7/16"	01-H 013	10	100
7/32"	1 1/8"	2 5/8"	01-H 014	10	100
15/64"	1 1/8"	2 5/8"	01-H 015	10	100
1/4"	1 1/4"	2 3/4"	01-H 016	10	100
17/64"	1 5/16"	2 15/16"	01-H 017	10	100
9/32"	1 5/16"	2 15/16"	01-H 018	10	100
19/64"	1 5/16"	2 15/16"	01-H 019	10	100
5/16"	1 7/16"	3 1/8"	01-H 020	10	100
21/64"	1 7/16"	3 1/8"	01-H 021	10	100
11/32"	1 9/16"	3 5/16"	01-H 022	10	100
23/64"	1 9/16"	3 5/16"	01-H 023	10	100
3/8"	1 11/16"	3 1/2"	01-H 024	10	100
25/64"	1 11/16"	3 1/2"	01-H 025	5	50
13/32"	1 11/16"	3 1/2"	01-H 026	5	50
27/64"	1 7/8"	3 3/4"	01-H 027	5	50
7/16"	1 7/8"	3 3/4"	01-H 028	5	50
29/64"	1 7/8"	3 3/4"	01-H 029	5	50
15/32"	2"	4"	01-H 030	5	50
31/64"	2"	4"	01-H 031	5	50
1/2"	2"	4"	01-H 032	5	50

Packaged in reusable plastic packaging.

## SST+™ 135° 3/8" REDUCED SHANK FRACTIONAL

### Round shank bits

For high tensile steel, fits in a 3/8" chuck

Our SST+ 3/8" reduced shank drill bits allow for the drilling of larger holes with drills that have a 3/8" chuck capacity. Their 135° self-centering split point allows for outstanding performance with much less pressure.



Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
25/64"	3 7/16"	5 1/4"	01-R 225	5	50
13/32"	3 7/16"	5 1/4"	01-R 226	5	50
27/64"	3 11/16"	5 1/2"	01-R 227	5	50
7/16"	3 11/16"	5 9/16"	01-R 228	5	50
29/64"	3 11/16"	5 9/16"	01-R 229	5	50
15/32"	4"	5 15/16"	01-R 230	5	50
31/64"	4"	5 15/16"	01-R 231	5	50
1/2"	4"	5 15/16"	01-R 232	5	50
17/32"	4 13/16"	6 5/8"	01-R 234	5	50
9/16"	4 13/16"	6 5/8"	01-R 236	5	50
5/8"	5 3/16"	7 1/8"	01-R 240	5	50

Packaged in reusable plastic packaging.

For sizes smaller than 29/64", use our jobber's length drill bits.

## SST+™ 135° 1/2" PRENTICE FRACTIONAL

### Three flats shank drill bits

For hole diameters >1/2", fits in a 1/2" chuck

SST+ 1/2" Prentice are heavy-duty large diameter drill bits for use in portable power drills, drill presses and magnetic base drills with 1/2" chuck capacity. Their extra hard tips allow for the drilling of many more holes between re-sharpenings. They are made with a cobalt blend for unmatched life and durability



Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
39/64"	3 1/8"	6"	01-M 533	1	10
17/32"	3 1/8"	6"	01-M 534	1	10
35/64"	3 1/8"	6"	01-M 535	1	10
9/16"	3 1/8"	6"	01-M 536	1	10
37/64"	3 1/8"	6"	01-M 537	1	10
19/32"	3 1/8"	6"	01-M 538	1	10
39/64"	3 1/8"	6"	01-M 539	1	10
5/8"	3 1/8"	6"	01-M 540	1	10
41/64"	3 1/8"	6"	01-M 541	1	10
21/32"	3 1/8"	6"	01-M 542	1	10
49/64"	3 1/8"	6"	01-M 543	1	10
11/16"	3 1/8"	6"	01-M 544	1	10
45/64"	3 1/8"	6"	01-M 545	1	10
23/32"	3 1/8"	6"	01-M 546	1	10
47/64"	3 1/8"	6"	01-M 547	1	10

3/4"	3 1/8"	6"	01-M 548	1	10
49/64"	3 1/8"	6"	01-M 549	1	10
25/32"	3 1/8"	6"	01-M 550	1	10
51/64"	3 1/8"	6"	01-M 551	1	10
13/16"	3 1/8"	6"	01-M 552	1	10
53/64"	3 1/8"	6"	01-M 553	1	10
27/32"	3 1/8"	6"	01-M 554	1	10
55/64"	3 1/8"	6"	01-M 555	1	10
7/8"	3 1/8"	6"	01-M 556	1	10
57/64"	3 1/8"	6"	01-M 557	1	10
29/32"	3 1/8"	6"	01-M 558	1	10
59/64"	3 1/8"	6"	01-M 559	1	10
15/16"	3 1/8"	6"	01-M 560	1	10
61/64"	3 1/8"	6"	01-M 561	1	10
31/32"	3 1/8"	6"	01-M 562	1	10
63/64"	3 1/8"	6"	01-M 563	1	10
1"	3 1/8"	6"	01-M 600	1	10
1 1/16"	3 1/8"	6"	01-M 604	1	10
1 1/8"	3 1/8"	6"	01-M 608	1	10
1 3/16"	3 1/8"	6"	01-M 612	1	10
1 1/4"	3 1/8"	6"	01-M 616	1	10
1 5/16"	3 1/8"	6"	01-M 617	1	10
1 3/8"	3 1/8"	6"	01-M 618	1	10
1 7/16"	3 1/8"	6"	01-M 619	1	10
1 1/2"	3 1/8"	6"	01-M 620	1	10

Packaged in reusable plastic packaging. For sizes smaller than 39/64", use our jobber's length drill bits.

## DRILL BIT SETS

Packaged in sturdy metal index containers or shock resistant, extra-thick polyethylene carrying case. Drill bit sizes are clearly marked on inside panels for easy identification and selection. The sets in metal boxes are ideal for use in a shop environment where they can be easily stored in a drawer or tool box. Sets in orange polyethylene carrying cases are an excellent option for contractors or off-site operations. They have a belt clip for ease of use and a threaded top that helps prevent the drill bits from going everywhere if the set is dropped.

Photo	Type	Sizes	Order No.	Qty Inside	Std. Pkg.	Std. Ctn.
A	SST+ 135° Jobbers length round shank, fractional	1/16" to 1/2" by 32 <sup>nds</sup>	01-E 606	15	1	10
B	SST+ 135° Jobbers length round shank, fractional	1/16" to 3/8" by 64 <sup>ths</sup>	01-E 621	21	1	10
B	SST 118° Jobbers length quick shank, fractional	1/16" to 3/8" by 64 <sup>ths</sup>	01-E 121	21	1	10
C	SST 118° Jobbers length quick shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 178	29	1	10
C	SST+ 135° Jobbers length round shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 678	29	1	10
C	SST+ 135° 3/8" reduced shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 818	29	1	10
D	SST+ 135° Stub length round shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 229	29	1	10
D	SST+ 135° Stub length quick shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 239	29	1	10
E	SST 118° Jobbers length quick shank, fractional/round case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 118	29	1	10
E	SST+ 135° Jobbers length round shank, fractional/round case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 618	29	1	10
F	SST+ 135° Jobbers length round shank, wire gauge	No. 1 to 60	01-E 619	60	1	10



**A**  
1/16" to 1/2" by 32<sup>nds</sup>  
15 drill bits



**B**  
1/16" to 3/8" by 64<sup>ths</sup>  
21 drill bits



**C**  
1/16" to 1/2" by 64<sup>ths</sup>  
29 Jobbers Length drill bits



**D**  
1/16" to 1/2" by 64<sup>ths</sup>  
29 Stub Length drill bits



**E**  
1/16" to 1/2" by 64<sup>ths</sup>  
29 drill bits



**F**  
No. 1 to 60  
60 wire gauge drill bits



# MULTI-STEP™ DRILL BITS

Now with the exclusive ICECUT coating

Multi-Step drill bits are the fastest and easiest way to enlarge holes in sheet metal and other materials up to 1/8" thick.

- ▷ *Special AICrN coating provides additional toughness and wear resistance to prolong tooling life, even when compared to titanium based coatings such as TiN or TiAlN*
- ▷ *2 wide cylindrical flutes eliminate chip build-up for faster drilling and to produce holes with minimal vibration or distortion*
- ▷ *Each shank has three flats for easy mounting*
- ▷ *Spiral fluting is ideal to improve speed when working with cordless power tools*
- ▷ *Straight fluting is ideal to ensure you get the proper hole size without warping on corded power tools*

Type	Order No.	Type of flute	Shank Dia	Overall Length	Step qty	Step thick.	Step size	Std. Pkg.	Std. Ctn.
A	01-W 001	SPIRAL	1/4"	2 15/16"	13	1/8"	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	1	10
B	01-W 005	SPIRAL	3/8"	3 1/4"	12	1/8"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	1	10
C	01-W 011	SPIRAL	3/8"	2 3/4"	9	1/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	1	10
D	01-W 012	SPIRAL	3/8"	3 3/16"	10	9/64"	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 3/8"	1	10
E	01-W 021	SPIRAL	1/4"	3 1/8"	6	1/8"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	1	10
F	01-W 029	SPIRAL	3/8"	3 1/4"	10	1/8"	1/4", 13/32", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	1	10
A	01-W 101	STRAIGHT	1/4"	2 15/16"	13	1/8"	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	1	10
B	01-W 105	STRAIGHT	3/8"	2 15/16"	12	1/8"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	1	10
C	01-W 111	STRAIGHT	3/8"	2 3/4"	9	1/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	1	10
D	01-W 112	STRAIGHT	3/8"	3 3/16"	10	9/64"	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 3/8"	1	10

Packaged in reusable plastic packaging.



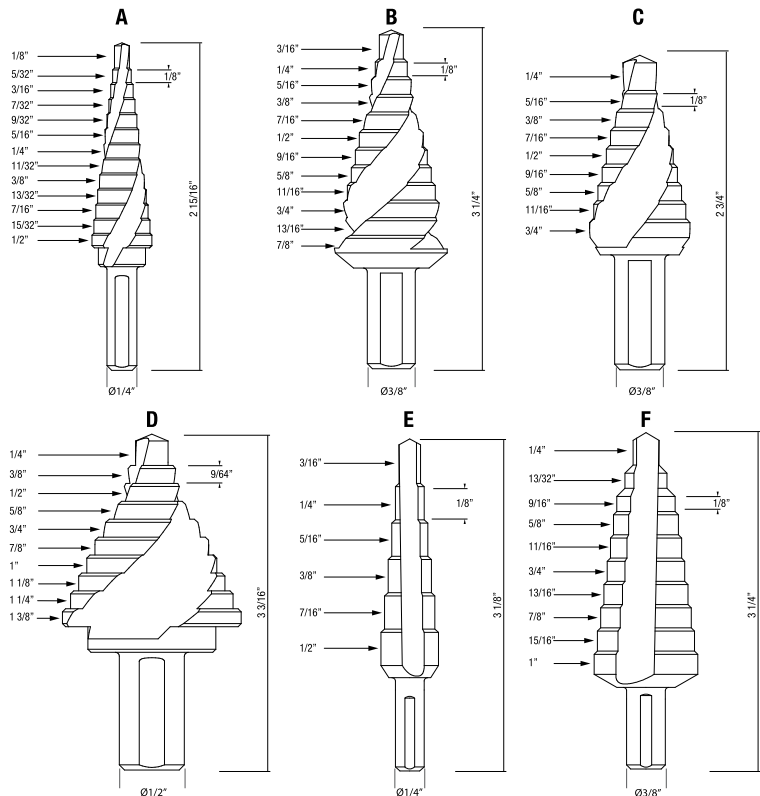
## STEP DRILL SET

Contains the three Multi-Step bits needed for all hole sizes from 1/8" - 1 1/8".

Each kit contains:

- 01-W 001
- 01-W 005
- 01-W 012

Order No. 01-W 951



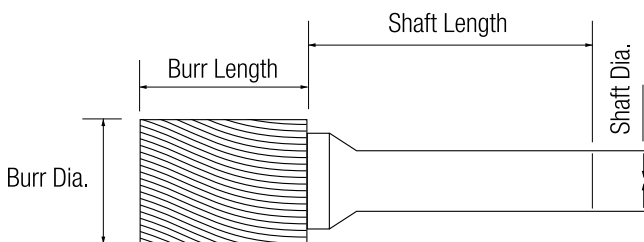




## CARBIDE BURRS

High performance

Walter carbide burrs are made from the highest grade tungsten carbide and are manufactured to ensure perfect concentricity and balance. This means you get a product that is safer, removes material faster and is guaranteed to provide the longest working life in the industry.




















































## HIGH STRENGTH BRAZED JOINT GUARANTEED TO PREVENT BREAKAGE

- ▷ *Precise manufacturing – Burrs run perfectly true without vibration*
- ▷ *First grade tungsten carbide – For the toughest applications in a wide range of materials*
- ▷ *Exclusive tooth design – Guarantees maximum cutting performance*
- ▷ *Advanced flute geometry – Ensures maximum cutting capacity and chip evacuation from tip to bottom*

### 1/4" SHANK Ø, DOUBLE CUT



Burr Dia.xLength	USCTI Type	Std. Lgth. Order No.	6" Shank Order No.	Std. Pkg.	Std. Ctn.
<b>Cylindrical (SA)</b>					
 1/4" x 5/8"	SA-1	01-V 001	01-V 601	1	10
 5/16" x 3/4"	SA-2	01-V 037		1	10
 3/8" x 3/4"	SA-3	01-V 002	01-V 602	1	10
 7/16" x 1"	SA-4	01-V 038		1	10
 1/2" x 1"	SA-5	01-V 004	01-V 604	1	10
 5/8" x 1"	SA-6	01-V 055		1	10
<b>Cylindrical (SB)</b>					
 1/4" x 5/8"	SB-1	01-V 056		1	10
 3/8" x 3/4"	SB-3	01-V 057		1	10
 1/2" x 1"	SB-5	01-V 059		1	10
<b>Cylindrical round nose (SC)</b>					
 1/4" x 5/8"	SC-1	01-V 005	01-V 605	1	10
 5/16" x 3/4"	SC-2	01-V 039		1	10
 3/8" x 3/4"	SC-3	01-V 006	01-V 606	1	10
 7/16" x 1"	SC-4	01-V 040		1	10
 1/2" x 1"	SC-5	01-V 007	01-V 607	1	10
 5/8" x 1"	SC-6	01-V 062		1	10
 3/4" x 1"	SC-7	01-V 073		1	10
<b>Ball (SD)</b>					
 1/4" x 7/32"	SD-1	01-V 009	01-V 609	1	10
 3/8" x 5/16"	SD-3	01-V 010	01-V 610	1	10
 1/2" x 7/16"	SD-5	01-V 026	01-V 626	1	10
 5/8" x 9/16"	SD-6	01-V 011		1	10
<b>Egg (SE)</b>					
 3/8" x 5/8"	SE-3	01-V 027		1	10
 1/2" x 7/8"	SE-5	01-V 028		1	10
<b>Tree (SF)</b>					
 1/4" x 5/8"	SF-1	01-V 041	01-V 641	1	10
 5/16" x 5/8"	SF-2	01-V 042		1	10
 3/8" x 3/4"	SF-3	01-V 014	01-V 614	1	10
 7/16" x 1"	SF-4	01-V 043		1	10
 1/2" x 1"	SF-5	01-V 015	01-V 615	1	10
 5/8" x 1"	SF-6	01-V 066		1	10
<b>Tapered (SG)</b>					
 1/4" x 5/8"	SG-1	01-V 044	01-V 644	1	10
 5/16" x 3/4"	SG-2	01-V 045		1	10
 3/8" x 3/4"	SG-3	01-V 046	01-V 646	1	10
 1/2" x 1"	SG-5	01-V 013	01-V 613	1	10
<b>Flame (SH)</b>					
 5/16" x 3/4"	SH-3	01-V 029		1	10
 1/2" x 1 1/4"	SH-5	01-V 030		1	10
<b>Cone 90° (SK)</b>					
 3/8" x 1/8"	SK-3	01-V 067		1	10
 1/2" x 1/4"	SK-5	01-V 068		1	10
<b>Cone (SL)</b>					
 1/4" x 5/8"	SL-1 14°	01-V 017		1	10
 5/16" x 7/8"	SL-2	01-V 051		1	10
 3/8" x 1 1/16"	SL-3 14°	01-V 031	01-V 631	1	10
 1/2" x 1 1/8"	SL-4 14°	01-V 032		1	10
 5/8" x 3/16"	SL-5	01-V 052	01-V 652	1	10
<b>Conical (SM)</b>					
 1/4" x 1/2"	SM-1	01-V 047		1	10
 1/4" x 3/4"	SM-2	01-V 048		1	10
 1/4" x 1"	SM-3	01-V 049		1	10
 3/8" x 5/8"	SM-4	01-V 050		1	10
 1/2" x 7/8"	SM-5 28°	01-V 018		1	10
<b>Inverted cone (SN)</b>					
 1/4" x 1/2"	SN-1	01-V 070		1	10
 1/4" x 3/4"	SN-2	01-V 071		1	10
 1/4" x 1"	SN-4	01-V 072		1	10

**1/4" SHANK Ø, NON-FERROUS,  
ALUMINUM AND SOFT METALS**



Burr Dia.x.Length	USCTI Type	Order No.	Std. Pkg.	Std. Ctn.
3/8" x 3/4"	SA-3	01-V 003	1	10
1/2" x 1"	SA-5	01-V 054	1	10
3/8" x 3/4"	SB-3	01-V 058	1	10
1/4" x 5/8"	SC-1	01-V 060	1	10
3/8" x 3/4"	SC-3	01-V 061	1	10
1/2" x 1"	SC-5	01-V 008	1	10
1/2" x 1/2"	SD-5	01-V 063	1	10
1/2" x 1/2"	SE-5	01-V 064	1	10
3/8" x 3/4"	SF-3	01-V 065	1	10
1/2" x 1"	SF-5	01-V 016	1	10
3/8" x 1 1/4"	SL-3	01-V 036	1	10
1/2" x 1 1/8"	SL-4	01-V 069	1	10



**CARBIDE BURR  
PRODUCTION KIT**

Contains one of each of the following:  
01-V 002, 006, 011, 015 and 018

Order No. 01-V 990

**1/4" SHANK Ø, HARD ALLOYS**



Burr Dia.x.Length	USCTI Type	Order No.	Std. Pkg.	Std. Ctn.
1/2" x 1"	SC-5	01-V 033	1	10
1/2" x 1"	SF-5	01-V 034	1	10
1/2" x 1 1/8"	SL-4	01-V 035	1	10

**5-PIECE ALU CUT  
CARBIDE BURR KIT**

Order No. 01-V 995

\* Special order item.

**1/8" SHANK Ø, DOUBLE CUT**



Burr Dia.x.Length	USCTI Type	Order No.	Std. Pkg.	Std. Ctn.
1/8" x 9/16"	SA-43	01-V 020	1	10
1/8" x 1/8"	SD-42	01-V 021	1	10
1/8" x 1/2"	SF-42	01-V 022	1	10
1/8" x 1/2"	SG-44	01-V 023	1	10
1/8" x 1/2"	SL-42	01-V 024	1	10
1/8" x 7/16"	SM-42 12°	01-V 025	1	10

**10-PIECE DOUBLE CUT  
CARBIDE BURR KIT**

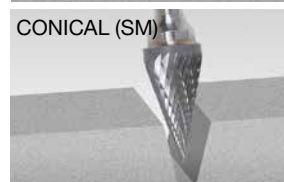
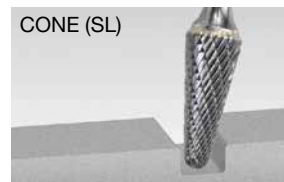
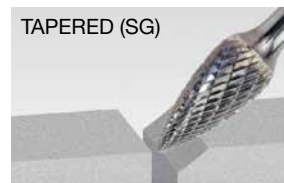
Order No. 01-V 996

\* Special order item.

Burr diameter	Maximum cutting speed (RPM)	
	for standard length burrs	for 6" long burrs
1/4"	70,000	35,000
5/16"	68,000	34,000
3/8"	66,000	33,000
7/16"	58,000	29,000
1/2"	50,000	25,000
5/8"	40,000	20,000

For safety reasons, never use the 6" tungsten carbide burrs below 20,000 RPM.

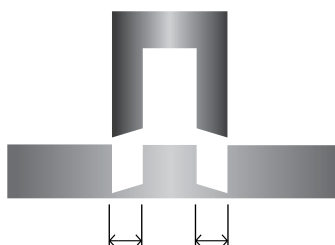
Material	Double cut	Non-ferrous	Material	Double cut	Non-ferrous
Aluminum	-	x	Steel - 45-55Rc	x	-
Brass	x	x	Steel - 55-60Rc	x	-
Bronze	x	-	Steel - Carbon	x	-
Cast iron	x	-	Steel - Nickel Chrome	x	-
Copper	-	x	Steel - Stainless	x	-
Carbon fiber	-	x	Steel - Weldments	x	-
Fiberglass	x	-	Titanium	x	-
Hard rubber	x	-	Zinc	-	x
Inconel	x	-			
Magnesium	-	x			
Plastics	x	-			



# HIGH PERFORMANCE ANNULAR CUTTERS

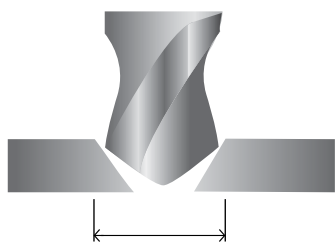
**When drilling large holes through thick, flat metal surfaces, it is often more cost effective to use an annular cutter, which cuts at the circumference of the circle, instead of cutting through the entire area of the circle. This allows you to make holes faster and more efficiently.**

## Annular cutters



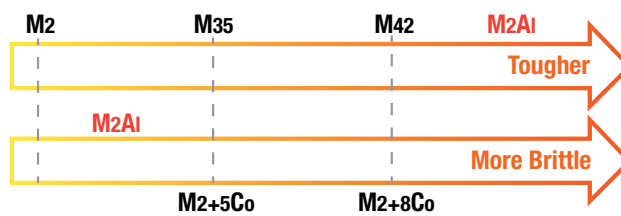
Less metal to metal contact reduces friction, reducing heat, increasing tool life and efficiency

## Regular twist drills



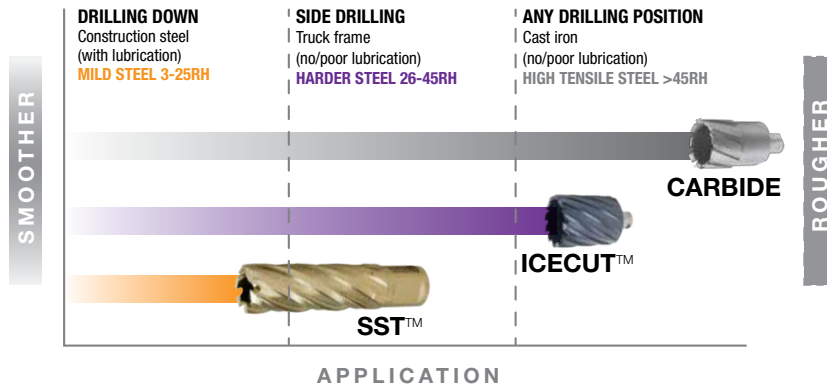
More metal to metal contact increases friction and heat, causing tooling to wear prematurely and resulting in longer cutting time

Walter annular cutters are tougher because they are made with a sophisticated high speed steel and aluminum blend (M2Al). This advanced HSS blend extends the life of the core cutters by providing excellent toughness and durability, while also reducing the brittleness of the cutter. Conventional cutting tools are typically enhanced with cobalt to increase the resistance to wear (M35 or M42). However, as more cobalt is added, the product actually becomes more brittle, which increases the risk of breakage under load. Through a graduated hardening of the cutter body, and by adding aluminum to the base material, Walter core cutters have more “micro-flexibility” than M35 or M42 core cutters. This makes Walter HSS annular cutters less brittle than a regular M42 annular cutter, and also makes them last much longer than other high speed steels. An exclusive triple tooth design and special fluting angle help optimize chip evacuation and eliminate chip debris. Walter’s exclusive AlCrN coating on the ICECUT™ line of coated annular cutters forms a nano-sized lubrication layer when heated, making it self-lubricating and preventing materials from sticking, melting or deforming during hole-making. The ICECUT™ annular cutters provide the longest life of all coated HSS annular cutters.



Adding Cobalt makes cutters more resistant to wear, but also more brittle which makes them more susceptible to breakage under pressure. M2Al provides an ideal blend of extreme toughness without a kind of “micro-flexibility” not found in standard cobalt blends.

# HIGH PERFORMANCE ANNULAR CUTTERS



Recommended usage			
	SST Core Cut	Icecut	Carbide Core Cut
<b>SPECIFICATIONS</b>			
Diameter Range	1/2" - 2 3/8"	1/2" - 2 3/8"	1/2" - 2 3/8"
Drilling Depth	1" and 2"	1" and 2"	1 1/2" and 2"
Shank Size	3/4"	3/4"	3/4"
Shank Type	Universal & Weldon shank with 2 flats	Universal & Weldon shank with 2 flats	Universal & Weldon shank with 2 flats
<b>MATERIAL</b>			
Mild Steel (3 to 25 HRC)	✓	✓	✓
Harder Steel (26 to 45 HRC)	✓	✓	✓
Stainless Steel (300 and 400 series)	✓	✓	✓
Cast Iron	—	✓	✓
Aluminum	✓	✓	✓
Brass and Bronze	✓	✓	✓
Hardox / Scandia	—	—	✓
Rough / Uneven material	—	—	✓
Railroad Track	—	—	✓
<b>CHARACTERISTICS</b>			
Cutting Speed	Fast	Very Fast	Extra Fast
Cutter Life	Long	Very Long	Extra Long

- ✓ Highly Recommended
- ✓ Recommended

## CUTTING LUBRICANTS

To improve the life and cutting speed of annular cutters, we highly recommend that you use these Walter high performance cutting lubricants.



Material worked on	Description	Order No.	Size	MSDS
Mild and hard steel	COOLCUT, solid stick	53-B 013	300 g	L-22E
Mild and hard steel	ICECUT, liquid	* 53-C 055	3.78 L	L-122E
Mild and hard steel	ICECUT, liquid	* 53-C 057	20 L	L-122E
Aluminum	ALUCUT, solid stick	53-B 303	300 g	L-04E
All metals	TAPCUT, bottle	53-A 103	350 ml	L-115E
All metals	TAPCUT, liquid	53-A 105	3.78 L	L-115E
All metals	TAPCUT, liquid	53-A 107	20 L	L-115E

\* ICECUT lubricants are biodegradable

# SST™ CORE CUT ANNULAR CUTTERS

Guaranteed to outperform all uncoated cutters

Super Speed Tip (SST) Core Cutters are made with state-of-the-art surface treatment technology that removes porosity during the fabrication process. This creates a perfectly smooth finish which allows for a better evacuation of material while drilling. It also helps to improve product life and reduce drilling time as it decreases friction with the work surface, which in turn reduces the amount of heat generated.



			Weldon Shank*			Universal Shank	
Diameter	Pqt		1" cutters	2" cutters	3" cutters	1" cutters	2" cutters
Inches	mm	std	Order No.	Order No.	Order No.	Order No.	Order No.
Use with pilot pin			05-Z 001	05-Z 002	05-Z 018	05-Z 029	05-Z 002
7/16"	11.1	1				05-E 007	
1/2"	12.7	1	05-A 008	05-A 308		05-E 008	05-E 308
9/16"	14.3	1	05-A 009	05-A 309		05-E 009	05-E 309
5/8"	15.9	1	05-A 010	05-A 310		05-E 010	05-E 310
11/16"	17.5	1	05-A 011	05-A 311	05-A 611	05-E 011	05-E 311
3/4"	19.0	1	05-A 012	05-A 312		05-E 012	05-E 312
13/16"	20.6	1	05-A 013	05-A 313	05-A 613	05-E 013	05-E 313
7/8"	22.2	1	05-A 014	05-A 314		05-E 014	05-E 314
15/16"	23.8	1	05-A 015	05-A 315	05-A 615	05-E 015	05-E 315
1"	25.4	1	05-A 100	05-A 400		05-E 100	05-E 400
1 1/16"	27.0	1	05-A 101	05-A 401	05-A 701	05-E 101	05-E 401
1 1/8"	28.6	1	05-A 102	05-A 402		05-E 102	05-E 402
1 3/16"	30.2	1	05-A 103	05-A 403		05-E 103	05-E 403
1 1/4"	31.8	1	05-A 104	05-A 404		05-E 104	05-E 404
1 5/16"	33.3	1	05-A 105	05-A 405		05-E 105	05-E 405
1 3/8"	34.9	1	05-A 106	05-A 406		05-E 106	05-E 406
1 7/16"	36.5	1	05-A 107	05-A 407		05-E 107	05-E 407
1 1/2"	38.1	1	05-A 108	05-A 408		05-E 108	05-E 408
1 9/16"	39.7	1	05-A 109	05-A 409			05-E 409
1 5/8"	41.3	1	05-A 110	05-A 410			
1 3/4"	44.5	1	05-A 112	05-A 412			
1 13/16"	46.0	1	05-A 113	05-A 413			
1 7/8"	47.6	1	05-A 114	05-A 414			
1 15/16"	49.2	1	05-A 115	05-A 415			
2"	51.0	1	05-A 200	05-A 500			
2 1/16"	52.4	1	05-A 201	05-A 501			
2 1/8"	54.0	1	05-A 202	05-A 502			
2 3/16"	55.6	1	—	05-A 503			
2 1/4"	57.2	1		05-A 504			
2 5/16"	58.7	1		05-A 505			
2 3/8"	60.3	1		05-A 506			

- ▷ Drills faster
- ▷ Lasts longer
- ▷ Universal shank
- ▷ Exclusive SST surface treatment
- ▷ Multiple tooth design



Packaged in reusable plastic packaging.

Other sizes are available upon special request. Please speak with your Walter sales representative.

\* Allow two weeks extra for delivery.

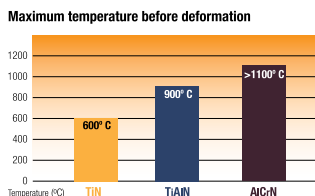
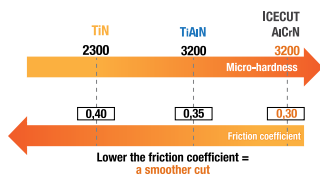
# ICECUT™ ANNULAR CORE CUTTERS

Guaranteed to drill more holes in less time!

ICECUT annular cutters are coated with an exclusive mixture of chromium and aluminum (AlCrN) and are designed to be used where lubricants are not permitted or problematic to apply. This new technology outperforms any annular core cutters coated with Titanium (TiN) or Titanium-Aluminum (TiAlN). By incorporating a chromium aluminum blend into the coating, Walter ICECUT annular cutters generate less heat and can withstand temperatures at least 200°C higher than conventional TiAlN cutters. This exclusive coating makes the ICECUT more resistant to higher stress under load and impact.



- ▶ Well known quality and durability
- ▶ Lasts longer than uncoated core cutters
- ▶ Exclusive ICECUT AlCrN coating
- ▶ Fully ground extra large flutes



Diameter	Std	Weldon Shank*				Universal Shank		
		1" cutters	2" cutters	3" cutters	4" cutters	1" cutters	2" cutters	
Inches	mm	Pkg.	Order No.	Order No.	Order No.	Order No.	Order No.	
Use with pilot pin			<b>05-Z 001</b>	<b>05-Z 002</b>			<b>05-Z 029</b>	<b>05-Z 030</b>
7/16"	11.1	1					05-F 007	05-F 307
1/2"	12.7	1	05-B 008	05-B 308			05-F 008	05-F 308
9/16"	14.3	1	05-B 009	05-B 309			05-F 009	05-F 309
5/8"	15.9	1	05-B 010	05-B 310			05-F 010	05-F 310
11/16"	17.5	1	05-B 011	05-B 311	05-B 611	05-B 811	05-F 011	05-F 311
3/4"	19.0	1	05-B 012	05-B 312			05-F 012	05-F 312
13/16"	20.6	1	05-B 013	05-B 313	05-B 613	05-B 813	05-F 013	05-F 313
7/8"	22.2	1	05-B 014	05-B 314			05-F 014	05-F 314
15/16"	23.8	1	05-B 015	05-B 315	05-B 615	05-B 815	05-F 015	05-F 315
1"	25.4	1	05-B 100	05-B 400			05-F 100	05-F 400
1 1/16"	27.0	1	05-B 101	05-B 401	05-B 701	05-B 901	05-F 101	05-F 401
1 1/8"	28.6	1	05-B 102	05-B 402			05-F 102	05-F 402
1 3/16"	30.2	1	05-B 103	05-B 403			05-F 103	05-F 403
1 1/4"	31.8	1	05-B 104	05-B 404			05-F 104	05-F 404
1 5/16"	33.3	1	05-B 105	05-B 405			05-F 105	05-F 405
1 3/8"	34.9	1	05-B 106	05-B 406			05-F 106	05-F 406
1 7/16"	36.5	1	05-B 107	05-B 407			05-F 107	05-F 407
1 1/2"	38.1	1	05-B 108	05-B 408			05-F 108	05-F 408
1 9/16"	39.7	1	05-B 109	05-B 409				
1 5/8"	41.3	1	05-B 110	05-B 410				
1 3/4"	44.5	1	05-B 112	05-B 412				
1 13/16"	46.0	1	05-B 113	05-B 413				
1 7/8"	47.6	1	05-B 114	05-B 414				
1 15/16"	49.2	1	05-B 115	05-B 415				
2"	51.0	1	05-B 200	05-B 500				
2 1/16"	52.4	1	05-B 201	05-B 501				
2 1/8"	54.0	1	05-B 202	05-B 502				
2 3/16"	55.6	1		05-B 503				
2 1/4"	57.2	1		05-B 504				
2 5/16"	58.7	1		05-B 505				
2 3/8"	60.3	1		05-B 506				

Packaged in reusable plastic packaging.

Other sizes are available upon special request. Please speak with your Walter sales representative.

\* Allow two weeks extra for delivery.

# CARBIDE CORE CUT ANNULAR CUTTERS

Top performance and maximum productivity on hard metals and uneven surfaces!

Walter Carbide Core Cut annular cutters accurately drill large diameter holes in a variety of hard or abrasive materials such as stainless steel, cast iron, tough alloys or composite materials. They outperform and outlast conventional HSS cutters and allow for higher speed and feed rates while requiring less effort to cut through some of the industry's toughest metals.

Diameter		Std Pkg.	Weldon Shank*		Universal Shank	
Inches	mm		1 1/2" cutters Order No.	2" cutters Order No.	1" cutters Order No.	2" cutters Order No.
Use with pilot pin			<b>05-Z 019</b>	<b>05-Z 021</b>	<b>05-Z 029</b>	<b>05-Z 030</b>
1/2"	12.7	1	05-D 008	05-D 308	05-H 008	05-H 308
9/16"	14.3	1	05-D 009	05-D 309	05-H 009	05-H 309
5/8"	15.9	1	05-D 010	05-D 310	05-H 010	05-H 310
11/16"	17.5	1	05-D 011	05-D 311	05-H 011	05-H 311

- ▷ Specially designed lubricant zone (maintains lubrication at the TCT – Tungsten Carbide Tips)
- ▷ Improved heat transfer
- ▷ Longer life
- ▷ Faster cutting

Diameter		Std Pkg.	Weldon Shank*				Universal Shank	
Inches	mm		1 1/2" cutters Order No.	2" cutters Order No.	3" cutters Order No.	4" cutters Order No.	1" cutters Order No.	2" cutters Order No.
Use with pilot pin			<b>05-Z 020</b>	<b>05-Z 022</b>	05-Z 018 or 05-Z 032	05-Z 031 or 05-Z 033	<b>05-Z 020</b>	<b>05-Z 022</b>
3/4"	19.0	1	05-D 012	05-D 312		05-D 812	05-H 012	05-H 312
13/16"	20.6	1	05-D 013	05-D 313	05-D 613	05-D 813	05-H 013	05-H 313
7/8"	22.2	1	05-D 014	05-D 314			05-H 014	05-H 314
15/16"	23.8	1	05-D 015	05-D 315	05-D 615	05-D 815	05-H 015	05-H 315
1"	25.4	1	05-D 100	05-D 400	05-D 700	05-D 900	05-H 100	05-H 400
1 1/16"	27.0	1	05-D 101	05-D 401	05-D 701	05-D 901	05-H 101	05-H 401
1 1/8"	28.6	1	05-D 102	05-D 402			05-H 102	05-H 402
1 3/16"	30.2	1	05-D 103	05-D 403			05-H 103	05-H 403
1 1/4"	31.8	1	05-D 104	05-D 404			05-H 104	05-H 404
1 5/16"	33.3	1	05-D 105	05-D 405			05-H 105	05-H 405
1 3/8"	34.9	1	05-D 106	05-D 406			05-H 106	05-H 406
1 7/16"	36.5	1	05-D 107	05-D 407			05-H 107	05-H 407
1 1/2"	38.1	1	05-D 108	05-D 408			05-H 108	05-H 408
1 9/16"	39.7	1	05-D 109	05-D 409				
1 5/8"	41.3	1	05-D 110	05-D 410				
1 3/4"	44.5	1	05-D 112	05-D 412				
1 13/16"	46.0	1	05-D 113	05-D 413				
1 7/8"	47.6	1	05-D 114	05-D 414				
1 15/16"	49.2	1	05-D 115	05-D 415				
2"	50.8	1	05-D 200	05-D 500	05-D 716	05-D 916		
2 1/16"	52.4	1	05-D 201	05-D 501				
2 1/8"	54.0	1	05-D 202	05-D 502				
2 3/16"	55.6	1		05-D 503				



Weldon Shank



Universal Shank

Diameter		Std Pkg.	Weldon Shank*		
Inches	mm		2" cutters Order No.	3" cutters Order No.	4" cutters Order No.
Use with pilot pin			<b>05-Z 034</b>	<b>05-Z 035</b>	<b>05-Z 036</b>
2 1/4"	57.2	1	05-D 504	05-D 720	05-D 920
2 5/16"	58.7	1	05-D 505		
2 3/8"	60.3	1	05-D 506		
2 7/16"	61.9	1	05-D 507		
2 1/2"	63.5	1	05-D 508	05-D 724	05-D 924
2 9/16"	65.1	1	05-D 509	05-D 725	05-D 925
2 5/8"	66.7	1	05-D 510		
2 3/4"	69.8	1	05-D 512	05-D 728	05-D 928
2 7/8"	73.0	1	05-D 514		
3"	76.2	1	05-D 532	05-D 732	05-D 932
3 1/4"	82.55	1	05-D 536	05-D 736	05-D 936
3 1/2"	88.9	1	05-D 540	05-D 740	
3 3/4"	95.2	1	05-D 544	05-D 744	
4"	100.16	1	05-D 548	05-D 748	

**PREMIUM  
PERFORMANCE**  
ON THE INDUSTRY'S  
TOUGHEST METALS

Packaged in reusable plastic packaging. \*Allow two weeks extra for delivery.

## PILOT PINS

Precisely position annular cutters over drilling spot and eject slug after drilling is completed. All Walter pilot pins are hardened and precision ground to provide the longest life in the industry.



Cutter family	Diameter	Max. drilling depth	Order No.	Std. Pkg.	Std. Ctn.
<b>For use with these cutters</b>					
SST Core Cut et ICECUT	1/2" - 2 3/8" dia.	1"	05-Z 001	1	10
SST Core Cut et ICECUT	1/2" - 2 3/8" dia.	2"	05-Z 002	1	10
SST Core Cut et ICECUT	19/16" - 1 1/16" dia.	3"	05-Z 018*	1	10
SST Core Cut et ICECUT	1 1/16" - 2" dia.	4"	05-Z 031*	1	10
2-piece, SST and ICECUT	1 1/16" - 2" dia.	3"	05-Z 032*	1	10
2-piece, SST and ICECUT	1 1/16" - 2" dia.	4"	05-Z 033*	1	10
<b>For use with these cutters</b>					
CARBIDE core cutters	1/2" - 1 1/16" dia.	1 1/2"	05-Z 019	1	10
CARBIDE core cutters	3/4" - 2 3/8" dia.	1 1/2"	05-Z 020	1	10
CARBIDE core cutters	1/2" - 1 1/16" dia.	2"	05-Z 021	1	10
CARBIDE core cutters	3/4" - 2 3/8" dia.	2"	05-Z 022	1	10
CARBIDE core cutters	2 7/16" - 4" dia.	2"	05-Z 034*	1	10
SST Core Cut and ICECUT	19/16" - 1 1/16" dia.	3"	05-Z 018*	1	10
CARBIDE core cutters	2 7/16" - 4" dia.	3"	05-Z 035*	1	10
CARBIDE core cutters	2 7/16" - 4" dia.	4"	05-Z 036*	1	10

\* Allow two weeks extra for delivery.



### Morse taper shank adaptors with coolant inducer

For use of Walter annular cutters on drilling units with a Morse taper spindle. Coolant inducer feeds coolant through the pilot pin to increase cutter life

Morse taper	Order No.	Std. Pkg.	Std. Ctn.
No. 2	05-Z 012	1	10
No. 3	05-Z 013	1	10
No. 3 (with 1 1/4" Weldon)	05-Z 037	1	10



### Morse taper shank adaptors without coolant inducer

For use of Walter annular cutters on drilling units with a Morse taper spindle. Ideal for all drilling machines that are equipped with an external cooling source.

Morse taper	Order No.	Std. Pkg.	Std. Ctn.
No. 2	05-Z 010	1	10
No. 3	05-Z 011	1	10



### Fein and Nitto adaptors

For use of Walter annular cutters on all Fein and Nitto magnetic drills.

Drilling Unit	Order No.	Std. Pkg.	Std. Ctn.
Fein	05-Z 014	1	10
Nitto	05-Z 015	1	10



### Extension adaptors

Leverage an arbor adaptor with your Walter core cutters to drill deeper holes. These durable arbor adaptors allow you to drill up to 4" for a fraction of the price of a full size core cutter.

Extension Length	Description	Order No.	Std. Pkg.	Std. Ctn.
1"	Adaptor	05 -Z 023	1	10
	Pilot pin	05-Z 025	1	10
2"	Adaptor	05-Z 024	1	10
	Pilot pin	05-Z 026	1	10



# ICECUT 100™ AND ICECUT 200™

## Features

When you pair the best drilling machines with highly engineered annular cutters and superior cooling solutions, you know you have the best overall system for consistently drilling holes quickly and precisely with minimal interruption for changing out worn tooling.

## DRILLING MADE EASY AND SAFE



“ACCUDRILL” system protects against overload and reduces the risk of cutter breakage. When you want to achieve the most productive drilling operation, you need to make sure you use the most power. This prevents the motor from overloading to reduce damage to the tool itself while also minimizing the risk of eventual damage to the cutter from overheating or movement.



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

# ICECUT 250™ AND ICECUT 250P™

## Features

Get all the power and versatility from the ICECUT magnetic drilling systems, now available in a more compact size for easy portability. Use the ICECUT 250™ for ultimate versatility when drilling or tapping larger holes. The ICECUT 250P™ is the unit for choice for working on curved surfaces or pipes thanks to a convenient pivoting permanent magnets



**Variable Dialspeed**  
Electronic speed control for an optimized drilling operation ensuring a constant speed under load.

**Reversible speed**  
Enables tapping operations.

**Weighs only 35 pounds!**

**Taper Morse #2 with 1/4" Weldon shank**  
For easy mounting.

**Powerful electromagnet**



“ACCUDRILL” system protects against overload and reduces the risk of cutter breakage. When you want to achieve the most productive drilling operation, you need to make sure you use the most power. This prevents the motor from overloading to reduce damage to the tool itself while also minimizing the risk of eventual damage to the cutter from overheating or movement.



**Variable Dialspeed**  
Electronic speed control for an optimized drilling operation ensuring a constant speed under load.

**Reversible speed**  
Enables tapping operations.

**Two pivoting permanent magnets**  
For curved surface drilling capability.

**YouTube**  
Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

# ICECUT 300™ AND ICECUT 400™

## Features

Now you can get all the benefits of using an ICECUT magnetic drilling machine while using annular cutters up to 4" wide and a depth of up to 4". To make the drilling operation even safer and easier, each machine features a swivel base for easy positioning of the tool along with our top-of-the-line safety features such as DIALSPEED™, POWERGUARD™ and DYNAMAX™.

**Drill more, bigger, faster and safer!**



# FEATURES

## ALL ICECUT™ MAGNETIC DRILLING UNITS



### 1 CENTERED CONTROL PANEL

Centered positioning of the electronics for easy control from any position. Whether it's a personal preference, or if the operation requires drilling from a specific side, the central control panel allows for efficient and easy operation.



### 2 MANDREL SUPPORT

Absorbs vibration for added stability and easy centering. The ball bearing support ensures the motor and chuck are perfectly aligned. It also provides smooth and precise cutting operations, and reduces chipping or breakage of the cutter.



### 3 FULL BODY INTEGRATED WIRING

For convenience and improved durability. No electrical wires will get in the way while drilling or moving your unit. Moreover, this prevents common failures due to mishandling (like carrying the unit by the wire, or the wire catching on an object).



### 4 STEEL SLIDING GUARD

Easily accessible, and extra safe. Slide guard upwards, position unit, slide guard down and start drilling safely while containing chips and lubricant to prevent them from spilling out onto the rest of the work surface.



### LIGHTWEIGHT

At 10 kg (22 lbs.) and 12.2 kg (27 lbs.) respectively, the ICECUT 100 and ICECUT 200 are the lightweight champions in their category. With a slim body, simplified carrying handle and powerful magnet, these units were designed with portability and ergonomics in mind.



### SWIVEL BASE

As a feature for the ICECUT 300 and ICECUT 400, it allows to swivel the magnetic drill by 60° on each side, and also slide by 3" for a perfect and easy alignment.



### 5 DIRECT ACCESS

Direct access to carbon brushes makes maintenance simple. The powerful motor will always operate at maximum efficiency, and when it is time to change out the carbon brushes, their easily accessible location makes maintenance very convenient!



### 6 ERGONOMIC HANDLE

The ergonomic handle with a smooth grip – sturdy and lightweight - makes moving the unit easy. Its design further reduces overall weight, and the smooth grip ensures easy portability.



### 7 QUICK RELEASE REVERSIBLE HANDLE

Quick release reversible handle – allows for positioning in confined or restricted spaces. The handle can be removed and reattached on whichever side the operator prefers, making this a very user friendly system.



### 8 MATERIAL & THICKNESS DETECTOR

Unit will not start when the magnetic holding power is insufficient to secure the unit to the workpiece and operate safely. Prevents accidental starts: unit will not start on any non-ferrous material like wood, plastic, or when held in the air.



### 9 MECHANICAL CLUTCH

The ICECUT 200 has a safety slip clutch, built into the gear drive, that will neutralize momentum and eliminate dangerous backlash for added safety. Prevents cutter breakage.



### EQUIPPED WITH SAFETY STRAP

For added security when hung upside down or for frame drilling operations.

# ICECUT 100™ AND ICECUT 200™

## ICECUT 100™

Compact and portable

Compact – extra lightweight – perfect when mobility is key.



## ICECUT 200™

The versatile unit

Powerful – 2-speed – yet only 27 lbs – ideal for a wide range of production or job site operations.



### TECHNICAL DATA



Order No.	39-D 100	39-D 200
Watts	850 W	1200 W
Speed	1 speed	2 speeds
No load RPM	600 RPM	Vitesse #1: 300 RPM / Vitesse #2: 600 RPM
Rated Current	8A	10A
Core cutter capacity (diameter)	1 3/8" (35 mm)	2" (52 mm)
Core cutter capacity (depth)	1 1/2" (38 mm)	2" (52 mm)
Twist drill capacity (diameter)	1/2" (stub length only)	1/2"
Tapping function	None	None
Weight	22 lbs (10 kg)	27 lbs (12.2 kg)
Swivel and sliding magnet	None	None
Max drill point pressure	1875 lbs (850 kg)	1875 lbs (850 kg)
Reversible handle	Tool free press-button	Tool free press-button
Powerguard electronic overload protection	Overload at 15A	Overload at 15A
Motor overload protection	None	Mechanical clutch
Short-Circuit protection	Integrated fuse	Integrated fuse
Accudrill LED torque display	Integrated Ampmeter	Integrated Ampmeter
Magnetic field sensor	Material and thickness detector	Material and thickness detector
Tool free guard	Metal, sliding up	Metal, sliding up
Wiring	Internal	Internal
Lubrication	On motor head	On motor head
Control board	Centered, s/s switches with LEDS	Centered, s/s switches with LEDS
Handle	Open on main housing	Open with anti-slip support
Arbor	WELDON shank with support	WELDON shank with support
Maintenance	Easy access to carbon brushes	Easy access to carbon brushes
Total Stroke	2.6"	2.9"

# ICECUT 300™ AND ICECUT 400™

## ICECUT 300™

For deeper, wider holes

With a swivel base and electronic speed control, allows you to drill safer and faster.



## ICECUT 400™

The most powerful and most versatile unit

With 4 mechanically-controlled speeds and a wider RPM range, this powerful tool can tackle any drilling operation with ease.



### TECHNICAL DATA

Order No.	39-D 300	39-D 400
Watts	1800 W	2000 W
Speed	2 speeds reversible	4 speeds reversible
Dynamax variable speed control	Yes	Yes
No load RPM	Speed #1: 70-180 RPM / Speed #2: 200-500 RPM	Speed #1: 45-129 RPM / Speed #2: 70-208 RPM Speed #3: 150-434 RPM / Speed #4: 240-700 RPM
Rated Current	18A	20A
Core cutter capacity (diameter)	3" (75 mm)	4" (100 mm)
Core cutter capacity (depth)	3" (75 mm)	4" (100 mm)
Twist drill capacity (diameter)	1 ¼" (31.75 mm)	1 ¼" (31.75 mm)
Tapping function	Yes (1 ⅛")	Yes (1 ⅛")
Weight	52 lbs (23.5 kg)	54.5 lbs (24.8 kg)
Swivel and sliding magnet	Swivel 120°, sliding 2"	Swivel 120°, sliding 2"
Max drill point pressure	4160 lbs (1890 kg)	4950 lbs (2240 kg)
Reversible handle	Tool free press-button	Tool free press-button
Powerguard motor overload protection	Overload at 22A	Overload at 24A
Powerguard electronic overload protection	Overload at 25A	Overload at 27A
Short-Circuit protection	Integrated fuse	Integrated fuse
Accudrill LED torque display	Integrated Ampmeter	Integrated Ampmeter
Magnetic field sensor	Material and thickness detector	Material and thickness detector
Tool free guard	Metal, sliding up	Metal, sliding up
Wiring	Internal	Internal
Lubrication	On motor head	On motor head
Control board	Centered, s/s switches with LEDs	Centered, s/s switches with LEDs
Handle	1 on main housing, 1 rear handle	1 on main housing, 1 rear handle
Arbor	WELDON taper morse #3	WELDON taper morse #3
Maintenance	Easy access to carbon brushes	Easy access to carbon brushes
Total Stroke	9.4"	10.2"

# ICECUT 250™ AND ICECUT 250P™

## ICECUT 250™

Lightweight, powerful with variable speed

The powerful, intuitive and lightweight ICECUT 250™ is a truly versatile machine, especially for its size.

## ICECUT 250P™

Drill faster and easier on pipe-related jobs

The double magnet ICECUT 250P™ sets up fast for pipe applications and is curved surface-ready.



### TECHNICAL DATA

Order No.	39-D 250	39-D 251
Watts	1550	1500
Speed	2-speeds + Reversible	2-speeds + Reversible
Dynamax variable speed control	YES	YES
No load RPM	100-500 RPM	100-500 RPM
Rated Current	15 amps	15 amps
Core cutter capacity (diameter)	2 3/8"	2 3/8"
Core cutter capacity (depth)	3" (w/ 2-piece pilot pin)	3" (w/ 2-piece pilot pin)
Twist drill capacity (diameter)	1/2"	1/2"
Tapping function	YES, up to 3/4" - 16	YES, up to 3/4" - 16
Weight	34.1 lbs	39.6 lbs
Swivel and sliding magnet	NO	NO
Max drill point pressure	3035 lbs (1376 kg)	3035 lbs (1376 kg)
Reversible handle	YES, TOOL-FREE press button	YES, TOOL-FREE press button
Powerguard motor overload protection	20A	20A
Powerguard electronic overload protection	27A	27A
Short-Circuit protection	YES, Integrated Fuse	YES, Integrated Fuse
Accudrill LED torque display	YES, Intergrated Ampmeter	YES, Intergrated Ampmeter
Magnetic field sensor	Material & thickness detector	NO (Permanent Magnet)
Tool free guard	Metal, sliding	Metal, sliding
Wiring	Internal	Internal
Lubrication	Internal thru feed, on motor head	Internal thru feed, on motor head
Control board	Centered, S/S switches with LEDs	Centered, S/S switches with LEDs
Handle	1 reversible on main housing, 1 pistol grip	1 reversible on main housing, 1 pistol grip
Arbor	Morse Taper 2 shank; 3/4" Weldon	Morse Taper 2 shank; 3/4" Weldon
Maintenance	Easy access to carbon brushes	Easy access to carbon brushes
Total Stroke	5.5"	5.5"

# ICECUT 100™, ICECUT 200™, ICECUT 250™, ICECUT 250P™, ICECUT 300™, ICECUT 400™ SYSTEMS



Includes a 1/2" chuck adaptor for drilling smaller holes



For larger holes, 1/2" and above, use the magnetic base with the standard Weldon shank



**COMES IN A FOAM PADDED CASE FOR SUPERIOR PROTECTION**

ICECUT 300 (39D300)	RPM			
	SPEED 1	SPEED 2	SPEED 3	SPEED 4
DIALSPEED™ RPM Setting	↓	↑		
1	70	200	x	x
2	92	260	x	x
3	114	320	x	x
4	136	380	x	x
5	158	440	x	x
6	180	500	x	x

ICECUT 400 (39D400)	RPM			
	SPEED 1	SPEED 2	SPEED 3	SPEED 4
DIALSPEED™ RPM Setting (Left/Right)	↓/↑	↓/↓	↑/↑	↑/↓
1	45	70	150	240
2	62	98	207	332
3	79	126	264	424
4	96	154	321	516
5	113	181	378	608
6	129	208	434	700

Model	Order No.	No load RPM	Motor	Amps	Twist drill capacity (diameter)	Annular cutter	Max. drilling depth	Magnet strength	Weight
ICECUT 100	39-D 100	600 RPM	120V .A.C. 8A	8A	1/2" (stub length only)	1 3/8"	1 1/2"	1875 lbs	22 lbs
ICECUT 200	39-D 200	Vitesse #1: 300 RPM Vitesse #2: 600 RPM	120V .A.C. 10A	10A	1/2"	2"	2"	1875 lbs	27 lbs
ICECUT 300	39-D 300	Speed #1: 70-180 RPM Speed #2: 200-500 RPM	120V .A.C. 18A	18A	1 1/4" (31.75 mm)	3"	4"	4160 lbs	52 lbs
ICECUT 400	39-D 400	Speed #1: 45-129 RPM Speed #2: 70-208 RPM Speed #3: 150-434 RPM Speed #4: 240-700 RPM	120V .A.C. 20A	20A	1 1/4" (31.75 mm)	4"	4"	4950 lbs	54.5 lbs
ICECUT 250	39-D 250	Speed #1: 100-265 RPM Speed #2: 200-500 RPM	120V .A.C. 15A	15A	1/2"	2 3/8"	3"	3035 lbs	34.1 lbs
ICECUT 250P	39-D 251	Speed #1: 100-265 RPM Speed #2: 200-500 RPM	120V .A.C. 15A	15A	1/2"	2 3/8"	3"	3035 lbs	39.6 lbs

**STANDARD EQUIPMENT FOR ICECUT 100 AND 200:** Carrying case 48-H 423 (ICECUT 100), 48-H 422 (ICECUT 200), lubrication system (48-H 310), 1/2" keyed chuck (39-D 006), Chuck adaptor (39-D 005), M6 T-handle hexagonal key (48-Z 004), Allen key (48-Z 003), safety strap (48-H 329), safety glasses (48-H 424), reversible press button (48-H 324), triple handle (48-H 323).

**STANDARD EQUIPMENT FOR ICECUT 300 AND 400:** Carrying case, chuck, arbor assembly, safety glasses, arbor shank, drift punch, safety belt, 3 mm hexagonal, spanner, stationary ring, spare carbon brushes, coolant bottle assembly.

## Straight Drill 716-B – 5/8"



End handle drill with a heavy-duty 120V motor and 2-speed gear box. Use low speed to drill large holes with extra torque and high speed to drill small holes. The reversing feature makes this drill also suitable for tapping applications.

Model	Order No.	Speed under load	Motor	Capacities - Steel		Twist drill	Hole saw	Weight
				Max. torque	Amps			
716-B	38-A 716	0-430/760 rev.	120V A.C.	30/17 Nm	9.2	5/8"	3"	9 lbs

**STANDARD EQUIPMENT:** 5/8" capacity keyed chuck 22-A 072, chuck key 22-A 202, side handle (model 716) 48-E 063 and 9 ft. cord.



## Decimals and metric equivalents of drill sizes

Drill size	Dec. equiv.	mm	Drill size	Dec. equiv.	mm	Drill size	Dec. equiv.	mm	Drill size	Dec. equiv.	mm
1/64"	.0156	0.40	—	.1142	2.90	5	.2055	5.22	41/64"	.6406	16.27
1/32"	.0313	0.80	32	.1160	2.95	4	.2090	5.31	21/32"	.6562	16.67
60	.0400	1.02	31	.1200	3.05	3	.2130	5.41	43/64"	.6719	17.07
59	.0410	1.04	1/8"	.1250	3.18	7/32"	.2188	5.56	11/16"	.6875	17.46
58	.0420	1.07	30	.1285	3.26	2	.2210	5.61	45/64"	.7031	17.86
57	.0430	1.09	—	.1299	3.30	1	.2280	5.79	23/32"	.7188	18.26
56	.0465	1.18	29	.1360	3.45	15/64"	.2344	5.95	47/64"	.7344	18.65
3/64"	.0469	1.19	28	.1405	3.57	1/4"	.2500	6.35	3/4"	.7500	19.05
55	.0520	1.32	9/64"	.1406	3.58	F	.2570	6.53	49/64"	.7656	19.45
54	.0550	1.40	27	.1440	3.66	—	.2638	6.70	25/32"	.7812	19.84
53	.0595	1.51	26	.1470	3.73	17/64"	.2656	6.75	13/16"	.8125	20.64
1/16"	.0625	1.59	25	.1495	3.80	9/32"	.2812	7.15	27/32"	.8438	21.43
52	.0635	1.61	24	.1520	3.86	19/64"	.2969	7.54	7/8"	.8750	22.23
51	.0670	1.70	23	.1540	3.91	5/16"	.3125	7.94	57/64"	.8906	22.62
50	.0700	1.78	5/32"	.1562	3.97	21/64"	.3281	8.33	29/32"	.9062	23.02
49	.0730	1.85	22	.1570	3.99	—	.3346	8.50	59/64"	.9219	23.42
48	.0760	1.93	21	.1590	4.04	11/32"	.3438	8.73	15/16"	.9375	23.81
5/64"	.0781	1.98	20	.1610	4.09	23/64"	.3594	9.13	61/64"	.9531	24.21
47	.0785	1.99	—	.1654	4.20	U	.3680	9.35	31/32"	.9688	24.61
—	.0787	2.00	19	.1660	4.22	3/8"	.3750	9.53	63/64"	.9844	25.00
46	.0810	2.06	18	.1695	4.31	25/64"	.3906	9.92	1"	1.0000	25.40
45	.0820	2.08	11/64"	.1719	4.37	—	.4016	10.20	1 1/32"	1.0312	26.19
44	.0860	2.18	17	.1730	4.39	13/32"	.4062	10.32	1 1/16"	1.0625	26.98
43	.0890	2.26	16	.1770	4.50	27/64"	.4219	10.72	1 3/32"	1.0938	27.78
42	.0935	2.37	15	.1800	4.57	7/16"	.4375	11.11	1 1/8"	1.1250	28.58
3/32"	.0938	2.38	14	.1820	4.62	29/64"	.4531	11.51	1 5/32"	1.1562	29.37
41	.0960	2.44	13	.1850	4.70	15/32"	.4688	11.91	1 3/16"	1.1875	30.16
40	.0980	2.49	3/16"	.1875	4.76	31/64"	.4844	12.30	1 7/32"	1.2188	30.96
—	.0984	2.50	12	.1890	4.80	1/2"	.5000	12.70	1 1/4"	1.2500	31.75
39	.0995	2.53	11	.1910	4.85	33/64"	.5156	13.10	1 9/32"	1.2812	32.54
38	.1015	2.58	10	.1935	4.91	17/32"	.5312	13.50	1 5/16"	1.3125	33.34
37	.1040	2.64	9	.1960	4.98	35/64"	.5469	13.90	1 11/32"	1.3438	34.13
36	.1065	2.71	—	.1969	5.00	9/16"	.5625	14.29	1 3/8"	1.3750	34.93
7/64"	.1094	2.78	8	.1990	5.05	37/64"	.5781	14.68	1 13/32"	1.4062	35.72
35	.1100	2.79	7	.2010	5.11	19/32"	.5938	15.08	1 7/16"	1.4375	36.51
34	.1110	2.82	13/64"	.2031	5.16	39/64"	.6094	15.48	1 15/32"	1.4688	37.31
33	.1130	2.87	6	.2040	5.18	5/8"	.6250	15.88	1 1/2"	1.5000	38.10

**Recommended cutting speed for HSS+Co  
Twist Drill Bits**

Cutter Dia.		Mild Steel	Steel	Stainless Steel	Aluminium
Inch	mm	500N/mm <sup>2</sup>	900N/mm <sup>2</sup>		
1/16"	1.6	6112	4278	2445	12224
1/8"	3.2	3056	2139	1222	6112
3/16"	4.8	2037	1426	815	4075
1/4"	6.4	1528	1070	611	3056
5/16"	7.9	1222	856	489	2445
3/8"	9.5	1019	713	407	2037
7/16"	11.1	873	611	349	1746
1/2"	12.7	764	535	306	1528
9/16"	14.3	679	475	272	1358
5/8"	15.9	611	428	244	1222
11/16"	17.5	556	389	222	1111
3/4"	19.1	509	357	204	1019
13/16"	20.6	470	329	188	940
7/8"	22.2	437	306	175	873
15/16"	23.8	407	285	163	815
1"	25.4	382	267	153	764
1 1/16"	27	360	252	144	719
1 1/8"	28.6	340	238	136	679
1 3/16"	30.2	322	225	129	643
1 1/4"	31.8	306	214	122	611
1 5/16"	33.3	291	204	116	582
1 3/8"	34.9	278	194	111	556
1 7/16"	36.5	266	186	106	531
1 1/2"	38.1	255	178	102	509

\* SFM = Surface Feet per Minute  
Optimal RPM = SFM x 3.82/Diameter (in.)

**Recommended cutting speed for MULTI-STEP<sup>MC</sup>  
M2Al HSS Drill Bits**

Diameter	Aluminium	Copper	Mild Steel	Stainless Steel	Non-metallic
mm      Inch					
12.7      1/2"	1003	878	502	376	1128
14.3      9/16"	892	781	446	335	1004
15.9      5/8"	802	702	401	301	902
17.5      1 1/16"	730	638	365	274	821
19.1      3/4"	669	585	334	251	752
20.6      13/16"	617	540	309	231	694
22.2      7/8"	573	502	287	215	645
23.8      15/16"	535	468	268	201	602
25.4      1"	502	439	251	188	564
27.0      1-1/16"	472	413	236	177	531
28.6      1-1/8"	446	390	223	167	502
30.2      1-3/16"	422	370	211	158	475
31.8      1-1/4"	401	351	201	150	451
33.3      1-5/16"	382	334	191	143	430
34.9      1-3/8"	365	319	182	137	410

\* Choose RPM based on LARGEST step diameter

### Recommended cutting speed for CARBIDE CORE CUT annular cutter

Diameter		Mild Steel	Steel	Steel	Steel	Steel	Stainless	Aluminium
mm	Inch	500N/mm <sup>2</sup>	750N/mm <sup>2</sup>	900N/mm <sup>2</sup>	1200N/mm	1400N/mm <sup>2</sup>	Steel	
11.1	7/16"	1147	1061	1003	860	717	573	2580
12.7	1/2"	1003	928	878	752	627	502	2257
14.3	9/16"	892	825	781	669	558	446	2007
15.9	5/8"	802	742	702	602	501	401	1805
17.5	11/16"	730	675	638	547	456	365	1642
19.1	3/4"	669	619	585	502	418	334	1505
20.6	13/16"	617	571	540	463	386	309	1389
22.2	7/8"	573	530	502	430	358	287	1290
23.8	15/16"	535	495	468	401	334	268	1204
25.4	1"	502	464	439	376	313	251	1128
27.0	1-1/16"	472	437	413	354	295	236	1062
28.6	1-1/8"	446	412	390	334	279	223	1003
30.2	1-9/16"	422	391	370	317	264	211	950
31.8	1-1/4"	401	371	351	301	251	201	903
33.3	1-5/16"	382	353	334	287	239	191	860
34.9	1-3/8"	365	337	319	274	228	182	821
36.5	1-7/16"	349	323	305	262	218	174	785
38.1	1-1/2"	334	309	293	251	209	167	752
39.7	1-9/16"	321	297	281	241	201	161	722
41.3	1-5/8"	309	285	270	231	193	154	694
42.9	1-11/16"	297	275	260	223	186	149	669
44.5	1-3/4"	287	265	251	215	179	143	645
46.0	1-13/16"	277	256	242	208	173	138	623
47.6	1-7/8"	267	247	234	201	167	134	602
49.2	1-15/16"	259	239	227	194	162	129	582
50.8	2"	251	232	219	188	157	125	564
52.4	2-1/16"	243	225	213	182	152	122	547
54.0	2-1/8"	236	218	207	177	148	118	531
55.6	2-3/16"	229	212	201	172	143	115	516
57.2	2-1/4"	223	206	195	167	139	111	502
58.7	2-5/16"	217	201	190	163	136	108	488
60.4	2-3/8"	211	195	185	158	132	106	475
61.9	2-7/16"	206	190	180	154	129	103	463
63.5	2-1/2"	201	186	176	150	125	100	451
65.1	2-9/16"	196	181	171	147	122	98	440
66.7	2-5/8"	191	177	167	143	119	96	430
68.3	2-11/16"	187	173	163	140	117	93	420
69.9	2-3/4"	182	169	160	137	114	91	410
71.4	2-13/16"	178	165	156	134	111	89	401
73.0	2-7/8"	174	161	153	131	109	87	393
74.6	2-15/16"	171	158	149	128	107	85	384
76.2	3"	167	155	146	125	104	84	376
77.8	3-1/16"	164	151	143	123	102	82	368
79.4	3-1/8"	160	148	140	120	100	80	361
81.0	3-3/16"	157	146	138	118	98	79	354
82.6	3-1/4"	154	143	135	116	96	77	347
84.1	3-5/16"	151	140	132	114	95	76	341
85.7	3-3/8"	149	137	130	111	93	74	334
87.3	3-7/16"	146	135	128	109	91	73	328
88.9	3-1/2"	143	133	125	107	90	72	322
90.5	3-9/16"	141	130	123	106	88	70	317
92.1	3-5/8"	138	128	121	104	86	69	311
93.7	3-11/16"	136	126	119	102	85	68	306
95.3	3-3/4"	134	124	117	100	84	67	301
96.8	3-13/16"	132	122	115	99	82	66	296
98.4	3-7/8"	129	120	113	97	81	65	291
100.0	3-15/16"	127	118	111	96	80	64	287
101.6	4"	125	116	110	94	78	63	282

### Recommended cutting speed for SST<sup>MC</sup> CORE CUT et ICECUT<sup>MC</sup> annular cutter

Diameter		Mild Steel	Steel	Steel	Steel	Steel	Stainless Steel	Aluminium
mm	Inch	500N/mm <sup>2</sup>	750N/mm <sup>2</sup>	900N/mm <sup>2</sup>	1200N/mm	1400N/mm <sup>2</sup>		
11.1	7/16"	717	573	373	287	201	344	1433
12.7	1/2"	627	502	326	251	176	301	1254
14.3	9/16"	558	446	290	223	156	268	1115
15.9	5/8"	501	401	261	201	140	241	1003
17.5	11/16"	456	365	237	182	128	219	912
19.1	3/4"	418	334	217	167	117	201	836
20.6	13/16"	386	309	201	154	108	185	771
22.2	7/8"	358	287	186	143	100	172	717
23.8	15/16"	334	268	174	134	94	161	669
25.4	1"	313	251	163	125	88	150	627
27.0	1-1/16"	295	236	153	118	83	142	590
28.6	1-1/8"	279	223	145	111	78	134	557
30.2	1-3/16"	264	211	137	106	74	127	528
31.8	1-1/4"	251	201	130	100	70	120	502
33.3	1-5/16"	239	191	124	96	67	115	478
34.9	1-3/8"	228	182	119	91	64	109	456
36.5	1-7/16"	218	174	113	87	61	105	436
38.1	1-1/2"	209	167	109	84	59	100	418
39.7	1-9/16"	201	161	104	80	56	96	401
41.3	1-5/8"	193	154	100	77	54	93	386
42.9	1-11/16"	186	149	97	74	52	89	372
44.5	1-3/4"	179	143	93	72	50	86	358
46.0	1-13/16"	173	138	90	69	48	83	346
47.6	1-7/8"	167	134	87	67	47	80	334
49.2	1-15/16"	162	129	84	65	45	78	324
50.8	2"	157	125	81	63	44	75	313
52.4	2-1/16"	152	122	79	61	43	73	304
54.0	2-1/8"	148	118	77	59	41	71	295
55.6	2-3/16"	143	115	75	57	40	69	287
57.2	2-1/4"	139	111	72	56	39	67	279
58.7	2-5/16"	136	108	70	54	38	65	271
60.4	2-3/8"	132	106	69	53	37	63	264

#### Taper pipe tap drill sizes NPT et NPTF

Tap size	Drill size	Tap size	Drill size
1/8" - 27	11/32"	1" - 11 1/2	1 5/32"
1/4" - 18	7/16"	1 1/4" - 11 1/2	1 1/2"
3/8" - 18	37/64"	1 1/2" - 11 1/2	1 47/64"
1/2" - 14	45/64"	2" - 11 1/2	2 7/32"
3/4" - 14	29/32"		

#### Recommended feed for annular cutter

Material	feed (mm/r)	Coolant (ml/min)
Steel 500N/mm <sup>2</sup>	0.08-0.13	60-80
Steel 750N/mm <sup>2</sup>	0.08-0.13	60-80
Steel 900N/mm <sup>2</sup>	0.05-0.1	80-100
Steel 1200N/mm <sup>2</sup>	0.05-0.1	80-100
Steel 1400N/mm <sup>2</sup>	0.05-0.1	80-100
Stainless Steel	0.05-0.1	150-200
Aluminium	0.1-0.15	80-100

#### Tap drill sizes - fractional

Tap size	Thread form	Drill size	Tap size	Thread form	Drill size	Tap size	Thread form	Drill size
2-56	NC	50	1/4"-28	NF	3	9/16"-18	NF	39/64"
3-48	NC	47	5/16"-18	NC	F	5/8"-11	NC	17/32"
4-40	NC	43	5/16"-24	NF	17/64"	5/8"-18	NF	37/64"
5-40	NC	38	3/8"-16	NC	5/16"	3/4"-10	NC	21/32"
6-32	NC	36	3/8"-24	NF	21/64"	3/4"-16	NF	11/16"
8-32	NC	29	7/16"-14	NC	U	7/8"-9	NC	49/64"
10-24	NC	25	7/16"-20	NF	25/64"	7/8"-14	NF	13/16"
10-32	NF	21	1/2"-13	NC	27/64"	1-8	NC	7/8"
12-24	NC	16	1/2"-20	NF	29/64"	1-12	NF	15/16"
1/4"-20	NC	7	9/16"-12	NC	31/64"	1-14	NS	15/16"

#### Tap drill sizes - metri

SIZE gauge/	PITCH	Drill wire	
	mm	mm	
M2.5	.45	2.0	46
M3	.5	2.5	40
M3.5	.6	2.9	33
M4	.7	3.3	30
M5	.8	4.2	19
M6	1.0	5.0	9
M8	1.25	6.7	17/64"
M10	1.5	8.5	21/64"
M12	1.75	10.2	13/32"



09

# POWER TOOLS

WALTER

WALTER

5.2

CAUTION  
ATTENTION

CAUTION  
ATTENTION

# POWER TOOLS

## Features



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

### Power, safety and improved productivity

Our line of angle grinders is designed to excel in all applications, whether it be in grinding, cutting, sanding, or cleaning. Each of our grinders is compact and packs a punch, providing you with the highest removal rate in the industry when paired with Walter abrasives. These industrial tools are designed with safety in mind and are built to last.

We also have classified our grinders to help you select the very best tool for your specific needs. Is improving safety the key decision factor? Perhaps maximum productivity is really what matters. Rest assured that whichever grinder you select, it will deliver the strongest, most efficient output available, reducing your overall costs.



	Anti-vibration side handle	Tool-free guard	Quick-R™ release	Safety clutch	Paddle switch (non-locking)	Soft Start™	Safety restart	DYNAMAX™ electronics	Powerguard™	Stabilizer	Variable Dialspeed™	Mechanical brake system
<b>ZIPCUTTER</b>	✗	✗		✗		✗	✗	✗	✗			
<b>MINI GRINDER</b>	✗	✗	✗	✗								
<b>MINI PS</b>	✗	✗	✗	✗	✗							
<b>MINI PLUS</b>	✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	
<b>SUPER 5</b>	✗	✗	✗	✗								
<b>SUPER 5 PS</b>	✗	✗	✗	✗	✗	✗	✗	✗	✗			
<b>PRO 5</b>	✗	✗	✗	✗		✗	✗	✗	✗	✗		
<b>BIG 6</b>	✗	✗	✗	✗		✗	✗	✗	✗	✗		
<b>BIG 6 PS</b>	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗		✗
<b>IRONMAN</b>	✗	✗	✗	✗		✗	✗	✗	✗	✗		
<b>IRONMAN PS</b>	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗		✗
<b>MAXI</b>	✗	✗			✗**							
<b>QUICK-STEP FINISHER</b>	✗	✗	✗	✗		✗	✗	✗	✗		✗	
<b>QUICK-STEP BIG-BUFF III</b>						✗	✗	✗	✗		✗	
<b>ULTI-MATE</b>	✗	✗		✗		✗	✗	✗	✗		✗	
<b>RAIL-MATE</b>						✗	✗	✗	✗		✗	
<b>QUICK-STEP LINE-MATE III</b>						✗	✗	✗	✗		✗	
<b>DIALSPEED 6141</b>						✗	✗	✗	✗		✗	
<b>DIALSPEED 6145</b>						✗	✗	✗	✗		✗	
<b>STRAIGHT-MATE</b>						✗		✗			✗	

\*Non-locking paddle switch on models 6352 and 6362 only. \*\*Non-locking switch available upon request on MAXI™ models.

## Total performance

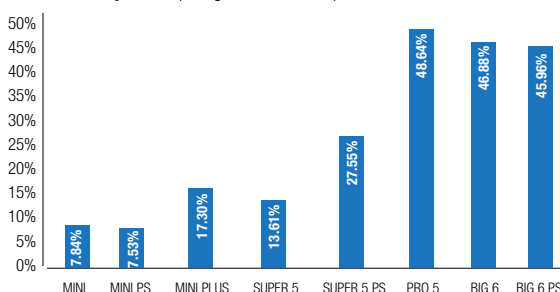
When you combine the most powerful grinders with premium Walter abrasives, you get the best overall performance in the industry. Whether you need to cut, grind or finish surfaces, our line of angle grinders gets the job done faster and easier while extending the life of your abrasives. Walter's next generation grinders are setting new standards in the metalworking industry.

### New angle grinders vs. the previous generation (both using HP XX grinding wheels)

Model	Total removal (g)			Removal rate (g/min.)		
	New	Old	%	New	Old	%
MINI	1020	1111	8.92%	20.40	22	7.84%
MINI PS	1023	1111	8.60%	20.46	22	7.53%
MINI PLUS	1023	1230	20.23%	20.46	24	17.30%
SUPER 5	1176	1200	2.04%	29.40	33.4	13.61%
SUPER 5 PS	1176	2100	78.57%	29.40	37.5	27.55%
PRO 5	1176	2300	95.58%	29.40	43.7	48.64%
BIG 6	2200	2765	25.68%	32.00	47	46.88%
BIG 6 PS	2200	2765	25.68%	32.20	47	45.96%

● Double the life of your HP XX wheels by combining them with our PRO 5 grinder!

### Productivity gain with our grinders compared to closest competitor (using HP XX wheels)



## OUR GRINDERS

### GENERAL FEATURES

**Variable DialSpeed™** Electronic speed control at the back of the machine to adjust the speed for optimum performance. DYNAMAX™ electronics regulate the power supply to the motor to ensure constant speed under full load for optimal control.

**Soft Start™** Tools equipped with Soft Start™ will ensure a progressive increase of RPM for a safer use, as opposed to a high start-up "kick".

**Brake system** Fastest mechanical brake available on the market, that will stop the tool within two seconds, for optimal user safety.

**Powerguard™** A temperature sensor is built into the electric motor to help protect the tool from burn-out.

**Quick-R™ release** Lets you change grinding and cut-off wheels in seconds, without any keys or wrenches.

**Anti-vibration side handle** High-tech, vibration absorbing side handle offers a safer and more comfortable operation without fatigue.

**Paddle switch (non-locking)** For added safety, the double action non-locking paddle switch will stop the grinder if you are not holding it.

**Safety restart** Following a power interruption the power tool will not restart on its own when power is restored. If the switch is left in the ON position, the LED will start blinking when the power is restored. To restart the grinder, it must be reset by switching it OFF and then ON. If the cord breaks, the LED link will flash.

**Tool-free guard** New, quick-release guard lever lets you adjust or remove the wheel guard without any tools, in a matter of seconds.

**Stabilizer** Significantly reduces vibration during operation, making the tools more ergonomic and extending the life of both the tool and abrasives by up to 200%.

**DYNAMAX™ electronics** Ensure that spindle RPM speeds remain constant even under load for maximum productivity.

**2 SEC** Brake system

### More protection

All Walter 4 1/2", 5" and 6" angle grinders are covered by our 24-month LONG-RUN warranty and exclusive SERVICEGUARD™ protection plan.





# ZIP WHEEL CUTTER

A powerful cordless cutting tool

The Zip Wheel cutter is a powerful cordless cutting tool that delivers the most cuts and longest battery life when paired with Walter cut-off wheels. It comes with an 18V/ 5.2 Ah battery pack and a Ventilated Charging System, allowing you to charge faster and reduce downtime. This cordless cutter features the DYNAMAX electronic RPM control, which protects the unit from overloading and overheating. It also contains a 270° rotating battery pack so you can adjust the battery for greater comfort while working and offers easy access to the internal carbon brushes.

This cordless cutter features electronic single cell protection, which prevents the cutter from short-circuiting and emptying the battery prematurely. Its special design prevents misalignment and vibration, allowing for more precise cutting and greater operator safety. The tool is available in two versions, a versatile 4.5"/5" version and a 6" version for greater cutting depth.



## Can accommodate up to 6" wheels

One of the most powerful cordless tools on the market, and one of the few that can accommodate a 6" wheel.

**No.: 34-B 160**

### ZIP WHEEL CUTTER SYSTEM

**Includes:**

- 1 ZIP WHEEL CUTTER (34-A 150 for 045 kit and 050 kit / 34-A 160 for 060 kit) with standard equipment plus carrying case (34-B 013)
- 2 battery packs 5.2Ah (34-B 001)
- 1 ventilated charging station (34-B 002),
- 1 closed guard adaptor (34-B 011 for 045 and 050 /34-B 012 for 060)

Model	Order No.	Disc dia.	RPM	Spindle thread	Voltage	Weight with battery
050	34-A 150	4.5" / 5"	8,000	5/8"-11	18 V	2.4 kg
060	34-A 160	6"	8,000	5/8"-11	18 V	2.4 kg
045 KIT	34-A 949	4.5"	8,000	5/8"-11	18 V	
050 KIT	34-A 950	5"	8,000	5/8"-11	18 V	
060 KIT	34-A 951	6"	8,000	5/8"-11	18 V	

**STANDARD EQUIPMENT 050/060:** 1 wheel guard (050 = 48-M 519 / 060 = 48-M 520), 1 Anti-vibration handle (32-B 027), 1 flange (30-B 057), nut (30-B 037).

**OPTIONAL ACCESSORY:** 4 1/2" guard (48-M 518)

\* Items available through special order only. Allow for additional delivery time. Ask your Territory Manager for details.

**Battery pack 5.2Ah**

**Order No.:** 34-B 001

One of the most powerful batteries available on the market, and the ideal battery suited to handle aggressive cutting wheels for an extended period of time. More amps for added endurance under load. The only battery that fits with our **Ventilated charging station**.



**Ventilated charging station 110V-18V**

**Order No.:**34-B 002

Integrated fan to cool down the battery and extend battery life. Allows for a faster battery recharge. LED lights incorporated to indicate shortage, overheating or full charge level.

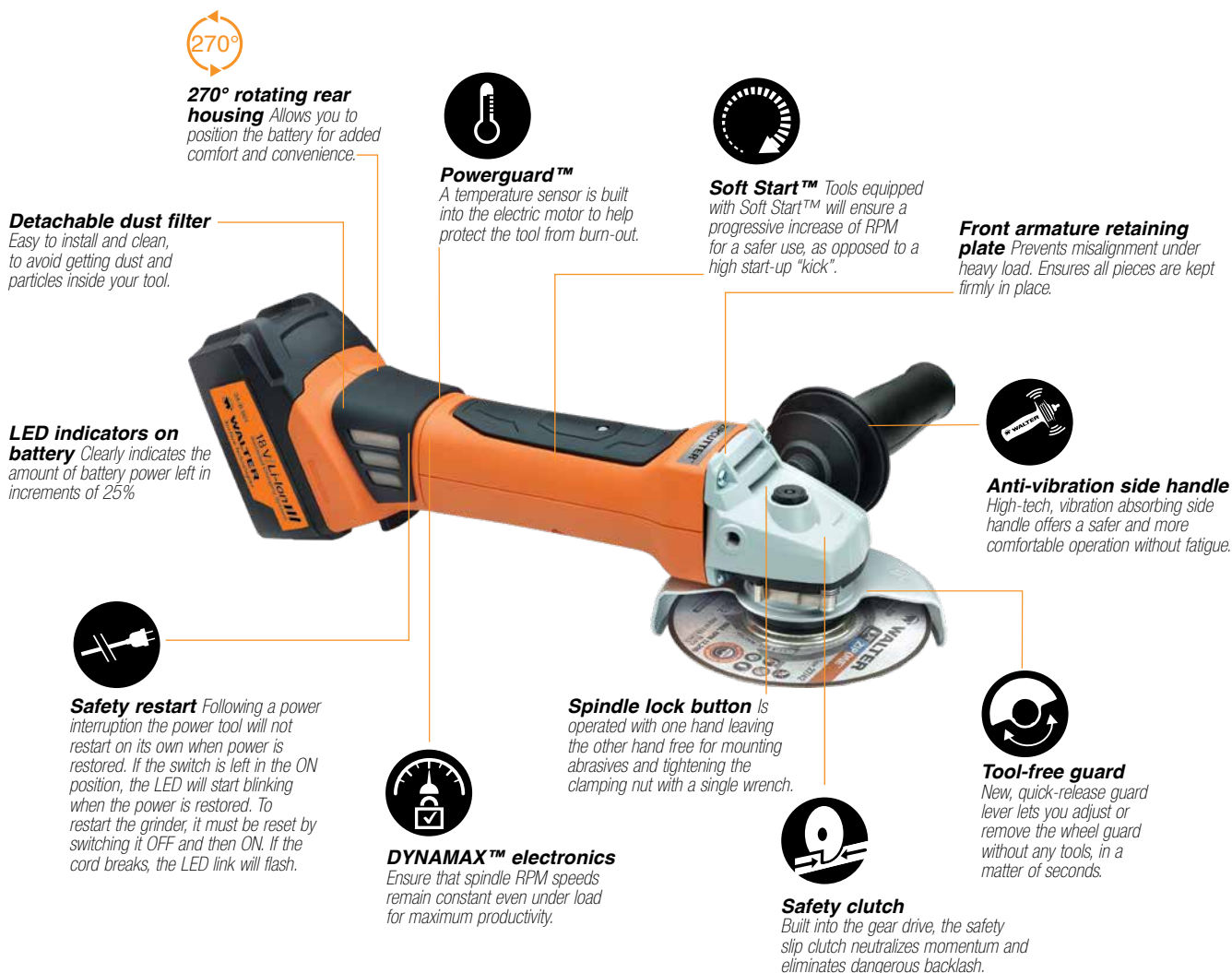


Video available at The Walter Network  
www.youtube.com/user/TheWalterNetwork



## LIGHTWEIGHT CORDLESS GRINDER

### FEATURES



#### Accessories



**Closed guard adaptor**  
Order No. 4 ½": 34-B 010  
Order No. 5": 34-B 011  
Order No. 6": 34-B 012

Lightweight and portable. Provides optimal protection while cutting. Easily installed onto the cutting guard. Does not get in the way when changing your cutting wheel.



**Carrying case**  
Order No.: 34-B 013  
Conveniently fits your cordless cutter and all standard equipment for easy portability.

# 4.5" ANGLE GRINDERS



WARRANTY  
LONG-RUN SERVICEGUARD™ Protection Plan  
24 MONTHS

## MINI GRINDER™

Order no. 30-A 161

Light, compact and durable

The Mini™ 4.5" grinder's state-of-the-art features include the new Walter anti-vibration handle that makes the grinder more comfortable to use and Walter's QUICK-R™ instant release function for disc change outs that take just seconds. The Mini™ has an additional 100 watts of power and features a rear vent to keep the armature cooler, allowing you to work longer while extending the life of the tool.



WARRANTY  
LONG-RUN SERVICEGUARD™ Protection Plan  
24 MONTHS

## MINI PS™

Order no. 30-A 163

Additional job site safety

The Mini PS™ is the ideal choice when a paddle switch is needed on a 4 1/2" grinder. It can be plugged into a generator, making it the perfect fit for construction sites. The double action non-locking paddle switch will stop when you release it, making it the safest choice without sacrificing productivity.



WARRANTY  
LONG-RUN SERVICEGUARD™ Protection Plan  
24 MONTHS

## MINI PLUS™

Order no. 30-A 255

Powerful variable speed grinder

The MINI PLUS™ grinder provides premium performance and the most advanced features in the industry. Put it to work taking down welds, cutting tubing, light sanding, or removing rust and paint. With an autobalancer, our DYNAMAX™ speed control and POWERGUARD™ protection from overheating, the MINI PLUS™ delivers superior performance no matter the job. Remove more material faster while also significantly extending the life of your abrasives with a premium power tool.

Description	MINI™	MINI PS™	MINI PLUS™
Model name	6161K	6163B	6255J
Order No.	30-A 161	30-A 163	30-A 255
Anti vibration side handle	√	√	√
Safety clutch	√	√	√
QUICK-R™ instant release function	√	√	√
Tool-free rotating guard	√	√	√
Non-locking paddle switch		√	√
Lock-on switch		√	√
AC/DC compatibility	√	√	AC compatibility only
Stabilizer™			√
Soft-Start™			√
Restart protection			√
DYNAMAX™ RPM monitoring			√
POWERGUARD™ overheat protection			√
LED indicator			√
DIALSPEED™ variable RPM selector			√
Spindle	5/8" - 11	5/8" - 11	5/8" - 11
RPM no-load	10,500	10,500	2,800 to 10,500
Amps	8.5 A	8.5 A	9.5 A
Power	900 W	900 W	1000 W
Tool weight	4.6 lbs	4.6 lbs	4.8 lbs
Maximum wheel diameter	4 1/2"	4 1/2"	5"
<b>Standard Equipment</b>			
Wheel guard type 27	48-M 441	48-M 441	48-M 444
Side handle	30-B 075		30-B 075
Inner flange	30-B 057		30-B 057
QUICK-R™ front nut	30-B 020		30-B 020
<b>Optional Equipment</b>			
Close guard adaptor	34-B 010	34-B 010	34-B 011
Manual clamping nut	30-B 037	30-B 037	30-B 037
Nut holder	30-B 023	30-B 023	30-B 023
Pin key wrench	48-Z 148	48-Z 148	48-Z 148
SPIN-ON™ kit	30-B 024	30-B 024	30-B 024

## 5" ANGLE GRINDERS



### SUPER 5™

**Order no.** 30-A 150

The perfect intermediate size grinder

Now boasting a 10.5A motor, this grinder is the right choice for those jobs that require extra power from a lightweight tool. This industrial grade power tool is built to last, and when paired with 5" Walter abrasives it provides one of the safest and most productive systems to tackle a wide range of jobs.

### SUPER 5 PS™

**Order no.** 30-A 153

Safety and performance

The Super 5 PS™ allows you to grind, cut, sand, finish and clean at a much faster and smoother rate. Furthermore, rest assured that when you hold the Super 5 PS™, you are holding the safest grinder thanks to Soft Start™, Powerguard™, a safety clutch and a safety restart that prevents the tool from starting on its own after a power interruption.

### PRO 5™

**Order no.** 30-A 157

The best ratio of weight and performance

The Pro 5™ has no peers among 5" angle grinders when it comes to removal rate or cutting speed. Equipped with the Walter Stabilizer™, DYNAMAX™, Powerguard™, and Soft Start™ technologies, the Pro 5™ is in a class of its own and offers the most comprehensive safety and productivity enhancing features.

Description	SUPER 5™	SUPER 5 PS™	PRO 5™
Model name	6150i	6153B	6157A
Order No.	30-A 150	30-A 153	30-A 157
Anti vibration side handle	√	√	√
Safety clutch	√	√	√
QUICK-R™ instant release function	√	√	√
Tool-free rotating guard	√	√	√
Non-locking paddle switch		√	
Lock-on switch	√		√
AC/DC compatibility	√		AC compatibility only
Stabilizer™			√
Soft-Start™		√	√
Restart protection		√	√
DYNAMAX™ RPM monitoring		√	√
POWERGUARD™ overheat protection		√	√
LED indicator		√	√
Spindle	5/8" - 11	5/8" - 11	5/8" - 11
RPM no-load	11,000	11,000	11,000
Amps	10.5 A	13.5 A	13.5 A
Power	1200 W	1550 W	1550 W
Tool weight	5.3 lbs	5.5 lbs	5.7 lbs
Maximum wheel diameter	5"	5"	5"
<b>Standard Equipment</b>			
Wheel guard type 27	48-M 444	48-M 444	48-M 444
Side handle	30-B 075	30-B 075	30-B 075
Inner flange	30-B 057	30-B 057	30-B 057
QUICK-R™ front nut	30-B 020	30-B 020	30-B 020
<b>Optional Equipment</b>			
Close guard adaptor	34-B 011	34-B 011	34-B 011
Manual clamping nut	30-B 037	30-B 037	30-B 037
Nut holder	30-B 023	30-B 023	30-B 023
Pin key wrench	48-Z 148	48-Z 148	48-Z 148
SPIN-ON™ kit	30-B 024	30-B 024	30-B 024

# 6" ANGLE GRINDERS



WARRANTY  
LONG-RUN  
SERVICEGUARD™  
Protection Plan **24**  
MONTHS

## BIG 6™

**Order no.** 30-A 260

The best ratio of weight and performance

The Big 6™ is the most powerful grinder in its class. The only grinder that can deliver 1,700 watts with a 6" wheel capacity, the Big 6™ is built for heavy duty applications. It offers a secure grip thanks to the new Walter Stabilizer™ system, which reduces vibration and increases the life of each wheel by at least 30%. The Big 6™ has extensive safety features, making it ideal for production environments that require the performance of a 7" or even 9" grinder without the weight that contributes to operator fatigue.



WARRANTY  
LONG-RUN  
SERVICEGUARD™  
Protection Plan **24**  
MONTHS

## BIG 6 PS™

**Order no.** 30-A 263

Heavy-duty performance with additional safety features

The Big 6 PS™ comes with a paddle switch and a mechanical brake to stop the grinder within 2 seconds of relieving the trigger. The Big 6 PS™ is the safest heavy duty grinder on the market and also comes with a Walter Stabilizer™ to reduce vibration, improving workplace ergonomics while improving the life and removal rate of your abrasives.

Description	BIG 6™	BIG 6 PS™
Model name	6260J	6263B
Order No.	30-A 260	30-A 263
Anti vibration side handle	✓	✓
Safety clutch	✓	✓
QUICK-R™ instant release function	✓	✓
Tool-free rotating guard	✓	✓
Lock-on switch	✓	✓
Non-locking paddle switch	✓	✓
Mechanical brake system		✓
AC/DC compatibility	AC compatibility only	AC compatibility only
Stabilizer™	✓	✓
Soft-Start™	✓	✓
Restart protection	✓	✓
DYNAMAX™ RPM monitoring	✓	✓
POWERGUARD™ overheat protection	✓	✓
LED indicator	✓	✓
Spindle	5/8" - 11	5/8" - 11
RPM no-load	9,600	9,600
Amps	14.5 A	14.5 A
Power	1700 W	1700 W
Tool weight	5.9 lbs	6.2 lbs
Maximum wheel diameter	6"	6"
<b>Standard Equipment</b>		
Wheel guard type 27	48-M 446	48-M 446
Side handle	30-B 075	30-B 075
Inner flange	30-B 057	30-B 057
QUICK-R™ front nut	30-B 020	30-B 020
<b>Optional Equipment</b>		
Close guard adaptor	34-B 011	34-B 011
Manual clamping nut	30-B 037	30-B 037
Nut holder	30-B 023	30-B 023
Pin key wrench	48-Z 148	48-Z 148
SPIN-ON™ kit	30-B 024	30-B 024

# IRONMAN™ GRINDERS

## WARRANTY

**LONG-RUN**  
SERVICEGUARD™  
Protection Plan

**24**  
MONTHS



## IRONMAN™

**Order no.** 30-A 560

Top performance in strenuous and prolonged applications

With its ergonomic rat-tail design, the Ironman™ delivers 1,750 watts with 6" wheel capacity. It comes with a Walter Stabilizer™ to reduce vibration and extend the life and removal rate of your abrasives by up to 30%. Ideal for prolonged applications, when combined with Walter abrasives, Ironman™ is among the industry's most productive systems available.

## IRONMAN™ PS

**Order no.** 30-A 563

Exceptional performance with added safety features

If it's high performance and added safety you're after, the Ironman™ PS comes with a paddle switch and a mechanical brake to stop grinding wheels from turning within 2 seconds of relieving the trigger, and cutting wheels within 1.5 seconds. It delivers 1,750 watts of power and comes with a Walter Stabilizer™ to reduce vibration, improve ergonomics and extend the life and removal rate of your abrasives.

Description	IRONMAN™	IRONMAN™ PS
Model name	6560A	6563A
Order No.	30-A 560	30-A 563
Anti vibration side handle	√	√
Safety clutch	√	√
QUICK-R™ instant release function	√	√
Tool-free rotating guard	√	√
Lock-on switch		√
Mechanical brake system		2-second brake system
AC/DC compatibility	AC compatibility only	AC compatibility only
Stabilizer™	√	√
Soft-Start™	√	√
Restart protection	√	√
DYNAMAX™ RPM monitoring	√	√
POWERGUARD™ overheat protection	√	√
LED indicator	√	√
Spindle	5/8" - 11	5/8" - 11
RPM no-load	9,600	9,600
Amps	14.5 A	14.5 A
Power	1750 W	1750 W
Tool weight	6.2 lbs	6.2 lbs
Maximum wheel diameter	6"	6"
<b>Standard Equipment</b>		
Wheel guard type 27	48-M 444	48-M 446
Side handle	30-B 075	30-B 075
QUICK-R™ front nut	30-B 020	30-B 020
<b>Optional Equipment</b>		
Close guard adaptor	34-B 011	34-B 012
Manual clamping nut	30-B 037	30-B 037
Nut holder	30-B 023	30-B 023
Pin key wrench	48-Z 148	48-Z 148
SPIN-ON™ kit	30-B 024	30-B 024

# MAXI™ GRINDERS



**WARRANTY**  
**LONG-RUN** **24**  
 SERVICEGUARD™  
 Protection Plan MONTHS

## MAXI™ 7"

Order no. 30-A 170

## MAXI™ 9"

Order no. 30-A 190

Pound for pound, they deliver more power and better performance

These full-size industrial angle grinders now deliver even more power and speed to get heavy-duty grinding and finishing jobs done faster and with less effort. Well established and recognized quality motors generate less heat and deliver a higher removal rate under load. These grinders will stay on the job longer in the most demanding applications such as bevelling, grinding and taking down heavy welds.

Description	MAXI™ 7"	MAXI™ 9"
Model name	6170i	6190i
Order No.	30-A 170	30-A 190
Anti vibration side handle	√	√
Lock-on switch	√	√
AC/DC compatibility	√	√
Swivel rear handle	√	√
Spindle	5/8" - 11	5/8" - 11
RPM no-load	8,500	6,800
Amps	15 A	15 A
Power	2400 W	2400 W
Tool weight	12.8 lbs	12.8 lbs
Maximum wheel diameter	7"	9"
<b>Standard Equipment</b>		
Wheel guard	48-M 472	48-M 517
Side handle	48-M 401	48-M 401
Inner flange	30-B 057	30-B 057
Clamping nut	30-B 037	30-B 037
Pin key wrench	48-M 483	48-M 483
<b>Optional Equipment</b>		
Cut-off guard	34-B 065	34-B 066

\* Non-locking switch available upon request for MAXI™ grinder models.

# Straight-Mate™

**Order no.** 30-A 606 (30-A 607 for the kit)

The ultimate straight grinder and lightweight polishing and buffing tool

The Straight-Mate™ packs a punch as the ultimate lightweight straight grinder with Walter's Dynamax™ variable speed control and RPM range of 1,600 to 4,800. A versatile grinding, polishing and buffing tool.



## Features

- ▷ *Dynamax™ variable speed control*
- ▷ *RPM range: 1,600-4,800*
- ▷ *Lightweight: 7 lbs (3.2 kg)*
- ▷ *Max wheel diameter: 6" (150mm).*
- ▷ *Compatible with cotton wheels and polishing pastes*
- ▷ *Compatible with wire brush and Line-Mate™ drums*
- ▷ *Compatible with non-woven abrasives, Plugs and cones*
- ▷ *Compatible with snagging wheels*

## STRAIGHT-MATE KIT

**Order no.** 30-A 607

### Includes:

- 1 FX Stainless (07-X 661)
- 1 Blendex U (07-U 613)
- 1 2-in-1 Turbo Drum (07-K 441)
- 1 2-in-1 Drum (07-K 342)
- 1 Blendex Drum (07-M 323)
- 1 Cotton Drum (07-T 425)
- 1 Polishing Paste (07-T 907)
- 1 Wire Drums (13-M 454)
- 1 Straight-Mate (30-A 606)

Description	STRAIGHT-MATE™
Model Name	6606A
Order No.	30-A 606 (30A607 for kit)
Lock-on switch	yes
AC compatibility only	yes
Soft-Start <sup>MC</sup>	yes
Restart protection	no
DYNAMAX™ RPM monitoring	yes
LED indicator	no
DIALSPEED™ variable RPM selector	yes
Spindle	5/8" - 11
RPM no-load	1600-4800
Amperage	11.8
Power	1300W
Tool weight	6.6 lbs
Maximum wheel diameter	6" (150mm)

# SANDER-POLISHER

## QUICK-STEP FINISHER™

**Order no.** 30-A 275

The perfect tool for surface finishing and polishing

This variable speed tool was specifically designed to get the most out of the QUICK-STEP™ surface finishing system. Whether you sand, buff or polish, the QUICK-STEP Finisher™ will provide you with a uniform, top quality finish and reduced finishing times. With all the latest electronic safety controls, the QUICK-STEP Finisher™ is the smart choice for professionals looking to reduce cycle time and finishing costs.



## QUICK-STEP Finisher™ system

**Order no.** 30-A 277

**Includes:**

- 1 Quick-Step Finisher (30-A 275) with standard equipment plus carrying case
- 1 Quick-Step backing pad MG (07-Q 149)
- 1 Quick-Step FX (07-X 845)
- 1 Quick-Step FLEX grit 120 (07-Q 512)
- 1 Quick-Step FLEX grit 60 (07-Q 506)
- 1 Quick-Step interface pad (07-Q 045)
- 2 Quick-Step XX grit 120 (15-V 412)
- 2 Quick-Step XX grit 240 (15-V 424)
- 2 Quick-Step Blendex med (07-R 453)
- 1 Quick-Step Blendex fine (07-R 454)



Description	QUICK-STEP FINISHER™
Model name	6275B
Order No.	30-A 275
Anti vibration side handle	✓
Safety clutch	✓
QUICK-R™ instant release function	✓
Lock-on switch	✓
AC/DC compatibility	AC compatibility only
Soft-Start™	✓
Restart protection	✓
DYNAMAX™ RPM monitoring	✓
POWERGUARD™ overheat protection	✓
LED indicator	✓
DIALSPEED™ variable RPM selector	✓
Spindle	5/8" - 11
RPM no-load	2,000 to 7,600
Amps	12.2 A
Power	1550 W
Tool weight	5.5 lbs
Maximum wheel diameter	6"
<b>Standard Equipment</b>	
Wheel guard type 27	48-M 446
Side handle	30-B 075
Inner flange	30-B 057
QUICK-R™ front nut	30-B 020
<b>Optional Equipment</b>	
Manual clamping nut	30-B 037
Nut holder	30-B 023
Pin key wrench	48-Z 148



# SANDER-POLISHER

## QUICK-STEP BIG-BUFF III™

**Order no.** 30-A 265

The most comfortable and versatile tool for metal polishing

The Quick-Step Big-Buff III™ is a variable speed tool designed to provide operators with the power and versatility to tackle any job that requires sanding, buffing or polishing. The ergonomic design reduces operator fatigue and ensures smooth operation during the most demanding jobs.



### QUICK-STEP BIG-BUFF III™ SYSTEM – 4 1/2"

**Order no.** 30-A 267

**Includes:**

- 1 Quick-Step backing pad MG (07-Q 149)
- 1 Quick-Step FX (07-X 845)
- 1 Quick-Step FLEX grit 120 (07-Q 512)
- 1 Quick-Step FLEX grit 60 (07-Q 506),
- 1 Quick-Step interface pad (07-Q 045)
- 2 Quick-Step XX grit 120 (15-V 412)
- 2 Quick-Step XX grit 240 (15-V 424)
- 2 Quick-Step Blendex med (07-R 453)
- 2 Quick-Step Blendex fine (07-R 454)
- 1 Quick-Step Felt (07-T 450)
- 1 Quick-Step high polish (07-T 454)
- 1 instant polishing paste (07-T 907)
- 1 Quick-Step Big-Buff and carrying case (30-A 265)



Description	QUICK-STEP BIG-BUFF III™
Model name	6265C
Order No.	30-A 265
Lock-on switch	√
AC/DC compatibility	AC compatibility only
Soft-Start™	√
Restart protection	√
DYNAMAX™ RPM monitoring	√
POWERGUARD™ overheat protection	√
DIALSPEED™ variable RPM selector	√
Spindle	5/8" - 11
RPM no-load	2,000 to 7,300
Amps	12.4 A
Power	1500 W
Weight	6 lbs
Maximum wheel diameter	6"
<b>Standard Equipment</b>	
Side handle	48-A 054
Inner flange	30-B 057
Manual clamping nut	30-B 037
Pin key wrench	48-Z 148

# FILLET WELD GRINDER

## ULTI-MATE™

Variable speed fillet weld grinder

Ulti-Mate™ is a variable speed fillet weld grinder and finishing tool designed to work in tight corners that other tools have a difficult time reaching. By combining this tool and our range of quality abrasives, you can go from a rough weld all the way to a mirror finish in just minutes.



### ULTI-MATE™ FILLET WELD GRINDER SYSTEM

Order no. 30-A 287

**Includes:**

- 1 Ulti-Mate grinder
- 1 Enduro-Flex 2-in-1 Turbo (15-I 451)
- 1 Enduro-Flex 2-in-1 (15-I 453)
- 1 Blendex U Turbo, 1/4" width (07-U 625)
- 1 Blendex U Turbo, 1/8" width (07-U 615)
- 1 Blendex U 2SF, 1/4" width (07-U 621)
- 1 FX Stainless wheel, 1/4" width (07-X 662)



Description	ULTI-MATE™ WELD GRINDER SYSTEM
Model name	6285A
Order No.	30-A 287
Anti vibration side handle	✓
Safety clutch	✓
Lock-on switch	✓
AC/DC compatibility	AC compatibility only
Soft-Start™	✓
Restart protection	✓
DYNAMAX™ RPM monitoring	✓
POWERGUARD™ overheat protection	✓
LED indicator	✓
DIALSPEED™ variable RPM selector	✓
Spindle	5/8" - 11
RPM no-load	2,500 to 8,750
Amps	12.2 A
Power	1550 W
Weight	7.7 lbs
Maximum wheel diameter	6"

# TUBE / PIPE SANDER

## RAIL-MATE™

Remove welds and finish pipes, tubes and railings faster

This power tool allows you to use our premium abrasive products to finish pipes, tubes and railings. This powerful finishing tool features Soft-Start technology to avoid kickback when starting the tool, Dialspeed™ variable speed control and Dynamax™ RPM Monitoring to maintain consistent speed under load.



### RAIL-MATE™ SANDER SYSTEM

Order no. 30-A 289

#### Includes:

- 1 Rail-Mate sander
- 6 Coolcut XX belts (2 of each: grit 60, 14-X 156; grit 80, 14-X 158; grit 120: 14-X 162)
- 3 Blendex belts (1 of each grade: Coarse, 07-D 152; Medium 07-D 153; Fine 07-D 154)



Description	RAIL-MATE™ SANDER SYSTEM
Model name	6288A
Order No.	30-A 289
Lock-on switch	√
AC/DC compatibility	AC compatibility only
Soft-Start™	√
Restart protection	√
DYNAMAX™ RPM monitoring	√
POWERGUARD™ overheat protection	√
LED indicator	√
DIALSPEED™ variable RPM selector	√
Spindle	5/8" - 11
RPM no-load	1,600 to 3,200
Surface speed	3-12 m/sec.
MAX belt size L x W	760 mm x 40 mm
MAX pipe diameter	7 in. (180 mm)
MAX polishing deg.	270°
Amps	10A
Power	1200 W
Tool weight	6.8 lbs
QUICK-R™ front nut	30-B 020

# DRUM SANDER

## QUICK-STEP LINE-MATE III™

Order no. 30-A 268



### Linear finishing made easy

The Line-Mate III™ is a versatile variable speed tool that allows you to quickly and easily apply a wide range of linear finishes to metal surfaces. Its powerful motor will help you complete even the toughest jobs with ease. RPM remains constant under load for a consistent and uniform finish every time. When you have a project that requires a linear scratch pattern applied to the surface, trust Line-Mate to get the job done quickly and efficiently.

## LINE-MATE III™ SYSTEM

Order no. 30-A 269

### Includes:

- 1 Line-Mate III™ with standard equipment plus carrying case
- 1 pneumatic drum (07-F 051)
- 6 cloth drum belts (2 each grit: 60: 07-F 506, 80: 07-F 508 and 120: 07-F 511)
- 2 BLENDEX drum belts (Coarse: 07-H 502, medium: 07-H 503)
- 1 TWO-IN-ONE drum (4 ¼" x 4": 07-K 342)
- 1 BLENDEX drum (4 ¼" x 4" medium: 07-M 343)



Description	QUICK-STEP LINE-MATE III™
Model name	6268C
Order No.	30-A 268
Lock-on switch	✓
AC/DC compatibility	AC only
Soft-Start™	✓
Restart protection	✓
DYNAMAX™ RPM monitoring	✓
POWERGUARD™ overheat protection	✓
DIALSPEED™ variable RPM selector	✓
Spindle	5/8" - 11
RPM no-load	1,000 to 3,800
Amps	12.4 A
Power	1500 W
Weight	6 lbs
Max. wheel dimensions	4 ½" diameter x 4" length
<b>Standard Equipment</b>	
Side handle	48-Z 034
Manual clamping nut	30-B 037
Pin key wrench	48-Z 148
Inner flange	30-B 057

# POINT GRINDER

## DIALSPEED™ 6141

Order no. 30-A 141

For fitting and finishing work

The convenient design of this very popular point grinder results in increased performance and operator comfort to let you reach new levels of productivity. Proven electronics and the quality construction of the motor deliver more power to the spindle while the ergonomic housing minimizes fatigue. This tool is the perfect companion to our premium carbide burs for any deburring or shaping applications.

SPEED 1	10,000 rpm
SPEED 2	14,000 rpm
SPEED 3	18,500 rpm
SPEED 4	22,000 rpm
SPEED 5	26,000 rpm
SPEED 6	30,500 rpm



Description	DIALSPEED™ 6141
Model name	6141E
Order No.	30-A 141
Lock-on switch	√
AC/DC compatibility	AC compatibility only
Soft-Start™	√
Restart protection	√
DYNAMAX™ RPM monitoring	√
POWERGUARD™ overheat protection	√
DIALSPEED™ variable RPM selector	√
Collet	¼"
RPM no-load	10,000 to 30,500
Amps	6.4 A
Power	710 W
Tool weight	4.2 lbs
Tool length	13.75"
Maximum wheel diameter	1.5"
<b>Standard Equipment</b>	
¼ collet	30-B 046
Spanner	48-Z 019
<b>Optional Equipment</b>	
Cutting guard	30-B 051

# STRAIGHT GRINDER

## DIALSPEED™ 6145

**Order no.** 30-A 145

For finishing, brushing and polishing work

Our Dialspeed™ Straight Grinder operates at a lower RPM range, making it the perfect companion for mounted flap wheels or wire brushes for brushing, finishing or polishing applications. The newly designed planetary gears allow you to get closer to the workpiece, producing a uniform and straight finish. This industrial power tool is built to last and also features a side handle for increased control in applications requiring a delicate touch.

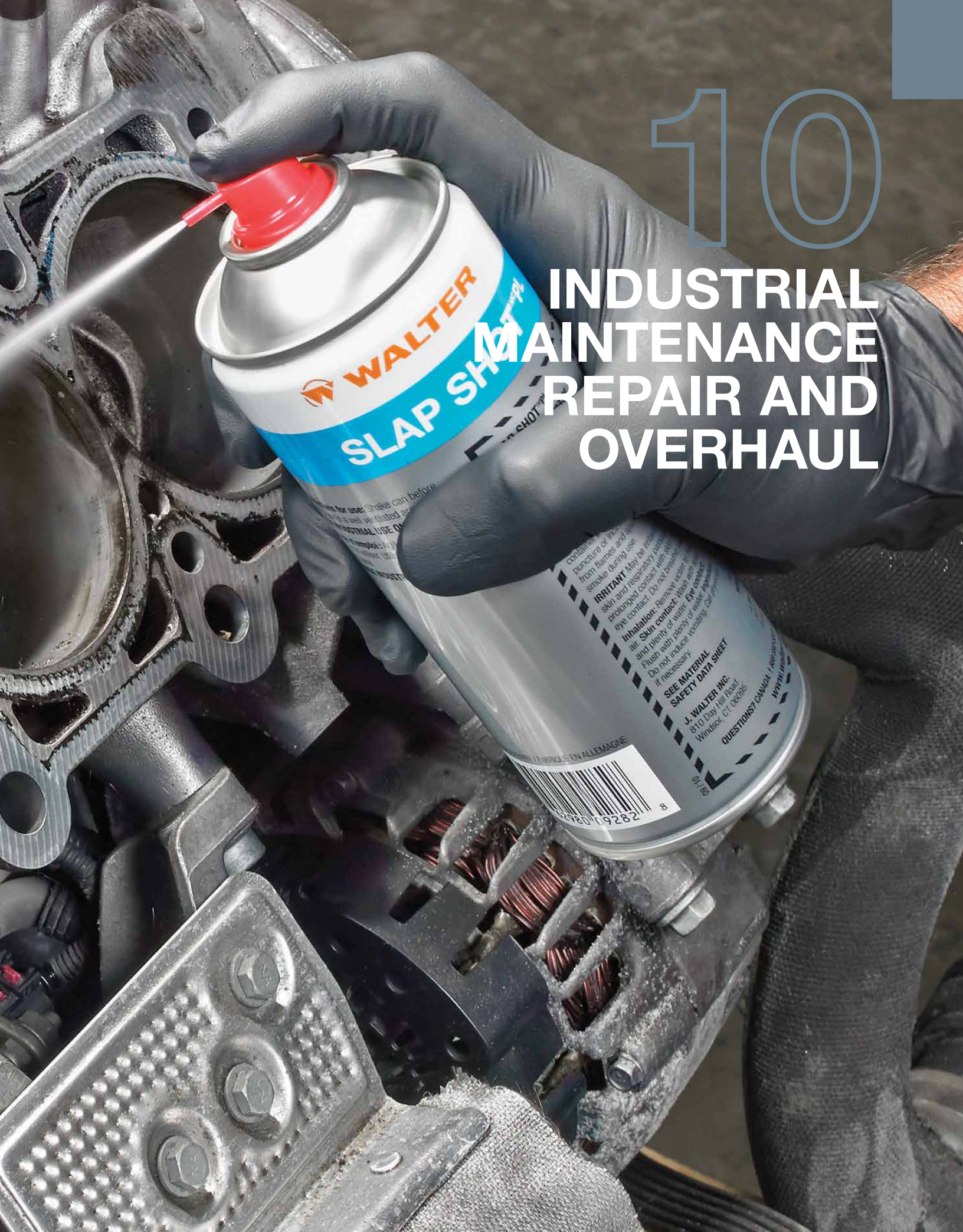


SPEED 1	2,500 rpm
SPEED 2	4,000 rpm
SPEED 3	5,500 rpm
SPEED 4	7,000 rpm
SPEED 5	8,000 rpm
SPEED 6	8,700 rpm

Description	DIALSPEED™ STRAIGHT GRINDER 6145
Model name	6145E
Order No.	30-A 145
Lock-on switch	✓
AC/DC compatibility	AC compatibility only
Soft-Start™	✓
Restart protection	✓
DYNAMAX™ RPM monitoring	✓
POWERGUARD™ overheat protection	✓
DIALSPEED™ variable RPM selector	✓
Collet	¼"
RPM no-load	2,500 to 8,700
Amps	8.5 A
Power	950 W
Tool weight	4.3 lbs
Tool length	14"
Maximum wheel diameter	1.5"
<b>Standard Equipment</b>	
Side handle	48-L 555
¼ collet	30-B 046
Spanner	48-Z 019
<b>Optional Equipment</b>	
Cutting guard	30-B 051

# 10

## INDUSTRIAL MAINTENANCE REPAIR AND OVERHAUL



**WALTER**  
**SLAP SHOT**

Shake can before use.  
Industrial Use Only

Contains...  
Irritant...  
Inhalation...  
Flush with plenty of water...  
SEE MATERIAL SAFETY DATA SHEET  
J. WALTER INC.  
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Windsor, CT 06095  
QUESTIONS? CALL 1-800-4-A-WALTER  
WWW.WALTERINC.COM

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# FAST EVAPORATING CLEANING AND DEGREASING

AF-PL™ is a system with a base unit that automatically dispenses AF-PL™ liquid cleaner and compressed air into refillable spray cans. Save money by buying your cleaner in bulk and reduce costs associated with the disposal of aerosol cans, all while reducing your environmental impact.



## Air Force AF-PL™

Plastic-safe, fast-evaporating parts degreaser

AF-PL™ is a residue-free, fast-evaporating cleaner/degreaser that dissolves and removes grease, oil, and grime safely and effectively. Specially formulated for maximum compatibility with plastics and rubber-like compounds. Bulk packaging provides great cost-effectiveness.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	53-C 557	L-65	1
Liquid	200 L	52.8 gal	53-C 558	L-65	1

**⚠️ California Proposition 65 Warning (See page 10 for details).**

ACCESSORIES	Order no.
Industrial pump sprayer for SC 400, PRO CLEAN, CB 100, AF-PL, FT 100 and OMNI.	53-L 120
Spout for 20 L round metal pail and 200L metal drum 3/4" NPT	53-L 208

### Applications

- ▷ *Cleaning metal parts in presence of plastic or gaskets*
- ▷ *Removal of grease and oil*

### Benefits

- ▷ *Eliminates aerosol disposal costs*
- ▷ *Reduces environmental impact*
- ▷ *Improves sustainability*

### Features

- ▷ *Cost-effective brake cleaner alternative*
- ▷ *Safe for most plastics and rubber compounds*
- ▷ *Non-chlorinated solvents penetrate and displace moisture*
- ▷ *Evaporates fast—no residues, no rinsing*



# AIR FORCE AF-PL™ START-UP PACKAGES

## Air Force AF-PL™ 20 L / 5.3 gal.

The start-up package includes:

- ▷ 1 x 53-C 557 AF-PL 20 L / 5.3 gal. pail
- ▷ 1 x 53-M 041 pail adaptor
- ▷ 6 x 53-M 101 refillable bottle
- ▷ 6 x 53-M 054 variable spray valve

Order no.: 53-M 012AFPLP



## Air Force AF-PL™ 200 L / 52.8 gal.

The start-up package includes:

- ▷ 1 x 53-C 558 AF-PL 200 L / 52.8 gal. drum
- ▷ 1 x 53-M 038 drum adaptor
- ▷ 1 x 53-M 025 safety valve
- ▷ 6 x 53-M 101 refillable bottle
- ▷ 6 x 53-M 054 variable spray valve

Order no.: 53-M 012AFPLD



## AF-PL™

Refillable sprayer

Durable and light weight aluminum AF-PL sprayer comes with an AF-PL specific label to clearly identify the contents and ensure full WHMIS and OSHA compliance.

**Fill capacity:** 400 ml / 13.5 oz

**Operating pressure:** 90 - 125 psi

**Order no. 53-M 101** (sold in package of 2)



Optional nozzles	Order No.
Wide spray	53-M 022
Long extension tube	53-M 052
Short extension tube	53-M 053
Variable spray	53-M 054
Accessories	Order No.
Air refilling station	53-M 010
Air nozzle	53-M 015
Replacement valve kit (includes 2 valves and 2 spray tips)	53-M 030
Brass screw cap	53-M 037
Replacement filling valve	53-M 039
Pail adaptor	53-M 041
Drum adaptor	53-M 038
Safety valve	53-M 025



*No more disposing  
of hazardous  
aerosol cans*



53-M 010

# FAST EVAPORATING CLEANING AND DEGREASING

## SLAP SHOT™

Plastic safe fast evaporating degreaser

SLAP SHOT™ is a highly effective, residue-free, fast evaporating cleaner/degreaser that dissolves and removes grease, oil, and grime on contact. **NSF category K1, registration #154299 (Aerosol) #154300 (Liquid)**

### Applications

- ▷ *Cleaning and degreasing for maintenance and repair*
- ▷ *Preparing surfaces for painting or relubrication*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	500 ml	16.9 fl.oz.	53-C 502	L-39	12
Liquid, trigger sprayer	500 ml	16.9 fl.oz.	53-C 503	L-40	12
Liquid	5 L	1.3 gal	53-C 506	L-40	1
Liquid	20 L	5.2 gal	53-C 507	L-40	1
Liquid	200 L	52.8 gal	53-C 508	L-40	1

⚠ *California Proposition 65 Warning (See page 10 for details).*

ACCESSORIES	Order no.
Spout for 20 L round metal pail and 200L metal drum 3/4" NPT	53-L 208
Refillable trigger sprayer bottles	53-L 311

## SLAP SHOT™ PL

Plastic safe fast evaporating degreaser

SLAP SHOT™ PL is a highly effective, residue-free, fast evaporating cleaner/degreaser that dissolves and removes grease, oil, and grime on contact. Specially formulated for maximum compatibility with plastics and rubber-like compounds.

### Applications

- ▷ *Cleaning metal parts in presence of plastic or gaskets*
- ▷ *Removal of grease and oil*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 fl.oz.	53-C 552	L-64	12

⚠ *California Proposition 65 Warning (See page 10 for details).*



### Benefits

- ▷ *Fast acting—dissolves stubborn contaminants quickly and completely*
- ▷ *No residues, no rinsing*

### Features

- ▷ *Multipurpose*
- ▷ *Safe on all metals*
- ▷ *Free of chlorinated solvent*
- ▷ *Strong aerosol jet*



### Benefits

- ▷ *Fast acting—dissolves stubborn contaminants quickly and completely*
- ▷ *No residues, no rinsing*

### Features

- ▷ *Multipurpose*
- ▷ *Safe on all metals and most plastics and rubber compounds*
- ▷ *Free of chlorinated solvent*
- ▷ *Strong aerosol jet*

# ELECTRONIC CONTACT CLEANING

## CONTACT CLEAN™

Nonflammable electronics and electrical equipment cleaner

Contact Clean™ removes grease, oil, and contaminants from sensitive electronics and electrical equipment to prevent contact failure. Fast-evaporating formula dries residue-free in seconds. Safe to use on most plastics.

**NSF category K2, registration #154540**



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	340 g	12 oz.	53-C 712	L-165	12

### Applications

- ▷ Removing contaminants from electrical parts
- ▷ Instrument and equipment junction cleaning (PLCs, printed circuit boards, vehicle fuse boxes)

### Benefits

- ▷ Fast acting—dissolves stubborn contaminants quickly and completely
- ▷ Fast evaporating
- ▷ No residues, no rinsing

### Features

- ▷ Safely cleans most plastics and rubber compounds
- ▷ Strong aerosol jet
- ▷ Nonconductive
- ▷ VOC compliant (per CARB310)



# FOOD GRADE LUBRICANTS

## FOOD ZONE™

Food grade general purpose lubricant

FOOD ZONE™ is a multipurpose lubricant and penetrating oil developed for food industry manufacturing plants. Extends equipment life by protecting against friction, wear, and corrosion.

**NSF category H1, registration #148372**

### Applications

- ▷ Lubrication and temporary corrosion protection of food and beverage processing equipment
- ▷ Loosening of rust, scale, grime, and corrosion

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 602	L-153	12



### Benefits

- ▷ Lubricates and protects
- ▷ Displaces moisture and water
- ▷ Loosens rusted parts

### Features

- ▷ Fast-penetrating oil leaves a thin protective film
- ▷ Multipurpose

## FOOD ZONE™ V

High viscosity food grade lubricant

FOOD ZONE™ V is an industrial-strength lubricant designed for heavy-duty applications and chain lubrication in food-manufacturing facilities. Foamy, non-drying formula adheres to surfaces and reduces friction, wear, and corrosion in heavy-loaded machinery.

**NSF category H1, registration #148374**

### Applications

- ▷ Lubrication of chains and conveyor systems
- ▷ Lubrication of moving parts in heavy-loaded industrial machinery

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 652	L-154	12



### Benefits

- ▷ Easy to apply
- ▷ Maximum adherence
- ▷ Protects against wear and corrosion

### Features

- ▷ Heavy-duty, high-grade formula with PTFE additives
- ▷ Thick, non-drying, water-resistant film
- ▷ Ideal for vertical surfaces

## OPEN GEAR™

High-load drive lubricant

OPEN GEAR™ is an adherent, long-lasting, high-load gear grease that prevents metal-to-metal contact. Increases efficiency and service life of drives and gears—even in harsh environments.

### Applications

- ▷ All types of heavy-duty chains, drives, and gears



All Metals

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-E 102	L-16	12

## CHAIN GANG™

High load chain lubricant

CHAIN GANG™ is a high-performance synthetic lubricant that lasts longer than traditional lubricants. Effectively penetrates fine pins and bushings to seal out dust, dirt, water, and other contaminants. Provides excellent protection and enhances the life of any machinery that uses chains or wire cables.

### Applications

- ▷ All types of chain drives, O-ring chains, and wire rope
- ▷ Machinery (especially forklifts)



All Metals

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 102	L-05	12

⚠ California Proposition 65 Warning (See page 10 for details).



### Benefits

- ▷ Excellent lubrication under tremendous load and in harsh environments
- ▷ Won't fly off gears
- ▷ Extends machine life
- ▷ Minimizes downtime

### Features

- ▷ Contains moly and EP additives for high-load lubrication
- ▷ Highly adhesive
- ▷ Water- and dirt-resistant
- ▷ Resists loads up to 90 000 lbs/in<sup>2</sup>



### Benefits

- ▷ Reduces costly downtime due to seized chains, pin breakage, and premature wear
- ▷ Stays cleaner and lasts longer than hot grease dips
- ▷ Requires fewer applications than other lubricants
- ▷ Prolongs chain life

### Features

- ▷ Contains microscopic moly particles for excellent lubricity
- ▷ Penetrates fine clearances
- ▷ Water-resistant and dust-resistant
- ▷ Repels dirt particles

## HANG-ON™

Adhesive lubricant

HANG-ON™ is a highly adhesive maintenance lubricant that provides effective, long-lasting lubrication under harsh conditions and over extended periods of time.

### Applications

- ▷ Forklift truck chains, locking pins, snowplows, hinges, etc.
- ▷ Differentials in coupling units



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 812	L-33	12
Liquid	20 L	5.2 gal	53-D 817	L-45	1

ACCESSORIES	Order no.
Refillable trigger sprayer bottles	53-L 331



### Benefits

- ▷ Outperforms and lasts longer than all-purpose and standard thin-film lubricants
- ▷ Resists exposure to weather, salt water, mild chemicals, high loads, and temperatures up to 200 °C (390 °F)
- ▷ Doesn't drip or stain vertical surfaces
- ▷ Efficient, long-lasting action reduces downtimes and maintenance frequencies

### Features

- ▷ Silicone-free chlorinated solvent
- ▷ Adheres extremely well to surfaces
- ▷ Penetrates fine clearances
- ▷ Displaces water and moisture

## BOLT-OUT™

Penetrating Lubricant

BOLT-OUT™ is a heavy-duty, non-chlorinated liquid solution that penetrates and lubricates to efficiently free seized parts while inhibiting further rust. Works well in a wide range of temperatures.

### Applications

- ▷ Loosening seized bolts, nuts, studs, and pins
- ▷ Disassembly of seized bolts, nuts, mechanisms, pins, bushings, etc.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 892	L-08	12
Liquid, trigger sprayer	500 ml	16.9 fl.oz.	53-D 893	L-26	12
Liquid	20 L	5.2 gal	53-D 897	L-26	1

ACCESSORIES	Order no.
Refillable trigger sprayer bottles	53-L 332



### Benefits

- ▷ Enables faster, easier disassembly
- ▷ Prevents/protects against further corrosion

### Features

- ▷ Nonflammable, silicone-free, no chlorinated solvents
- ▷ Contains microscopic moly particles for excellent lubricity
- ▷ Displaces moisture
- ▷ Effective from -20 °C to 250 °C (-4 °F to 482 °F)

## COLD SHOCK™ **NEW**

Seized parts are no match for fast penetrating Cold Shock™

Cold Shock™ is a high tech lubricant that frees corroded and seized parts by creating a sudden, shock-freezing effect to -31°F. Cold Shock™ penetrates micro-fissures to loosen nuts, bolts, studs, pins and other seized parts in an instant.

### Applications

- ▷ For use on corroded and seized nuts, bolts, studs, pins and other components.



### Benefits

- ▷ Loosens corroded and seized parts through cooling
- ▷ Powerful 1 to 2-minute penetration time

### Features

- ▷ Decreases parts temperatures to -31°F Shock-effect lubricant
- ▷ Straw extension for precise targeting

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 882	L-98	12

⚠ California Proposition 65 Warning (See page 10 for details).

## ROCK'N ROLL™

Ceramic anti-seize lubricant

ROCK'N ROLL™ is an inert, non toxic, metal-free white lubricant that prevents seizing of assemblies. Provides long-term protection against corrosion. Highly effective in a wide range of temperatures (-30C or -22°F to 1400C or 2500°F) and in extreme conditions.

### Applications

- ▷ Lubrication of all threaded components, bushings, and press fits
- ▷ Lubrication of highly stressed bearings



### Benefits

- ▷ Makes disassembly easy and efficient
- ▷ Provides long-term corrosion protection
- ▷ No galling or seizing
- ▷ Safe for food industry applications

### Features

- ▷ Inert ingredients
- ▷ Non-carbonizing
- ▷ (Paste) highly resistant to water, seawater, benzene, and most acids and alkalis



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 852	L-43	12
Paste/Brush	300 g	10.6 oz.	53-D 854	L-44	12

⚠ California Proposition 65 Warning (Aerosol only) (See page 10 for details).

# CUTTING FLUIDS

## COOLCUT™

Metal cutting lubricant

Coolcut™ is a ready-to-use, high-performance metal cutting lubricant that stands up to pressure and heat to reduce tool wear and prevent tool breakage.

### Applications

- ▷ Machining operations
- ▷ Drilling



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	312 g	11 oz.	53-B 002	L-01	12
Solid Stick	300 g	300 g	53-B 013	L-22E	12
Liquid/Squeeze bottle	350 ml	11.8 fl.oz.	53-B 003	L-09	12
Trigger sprayer	500 ml	16.9 oz.	53-B 004	L-09	12
Liquid	3.78 L	1 gal	53-B 005	L-09	1
Liquid	20 L	5.2 gal	53-B 007	L-09	1
Liquid	208 L	55 gal	53-B 008	L-09	1

⚠ California Proposition 65 Warning (Aerosol only) (See page 10 for details).

### ACCESSORIES

	Order no.
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209
Spout for 208L plastic drum 3/4" NPT	53-L 210



### Benefits

- ▷ Reduces friction and heat
- ▷ Extends cutting tool life
- ▷ Improves finish
- ▷ Increases productivity

### Features

- ▷ Contains extreme pressure additives (EP)
- ▷ Suitable for all ferrous and non-ferrous metals
- ▷ Non hazardous, biodegradable
- ▷ Free of solvents and chlorinated ingredients





## COOLCUT S-30™

Water miscible cutting lubricant

Coolcut S-30™ is a ready-to-use, high-performance metal cutting lubricant specially designed for automatic and semiautomatic metal removing operations.

### Applications

- ▷ Drilling
- ▷ Milling

### Benefits

- ▷ Will not gum up slides and guides
- ▷ Increases feed, speed, and production
- ▷ Prevents bacterial growth when not in use
- ▷ Reduces friction and heat



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-C 005	L-119	1
Liquid	20 L	5.2 gal	53-C 007	L-119	1
Liquid	208 L	55 gal	53-C 008	L-119	1

### ACCESSORIES

	Order no.
SB-30 System booster	53-C 011
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209

## COOLCUT S-50™

Water-miscible cutting lubricant for high-pressure applications

Coolcut S-50™ is a ready-to-use, high-performance metal cutting lubricant specially designed for automatic and semi-automatic metal removing operations, even in severe machining processes and high-pressure conditions. Ideal for hard-to-machine materials.

### Applications

- ▷ Drilling
- ▷ Milling

### Benefits

- ▷ Increases feed, speed and production
- ▷ Extends cutting tool life

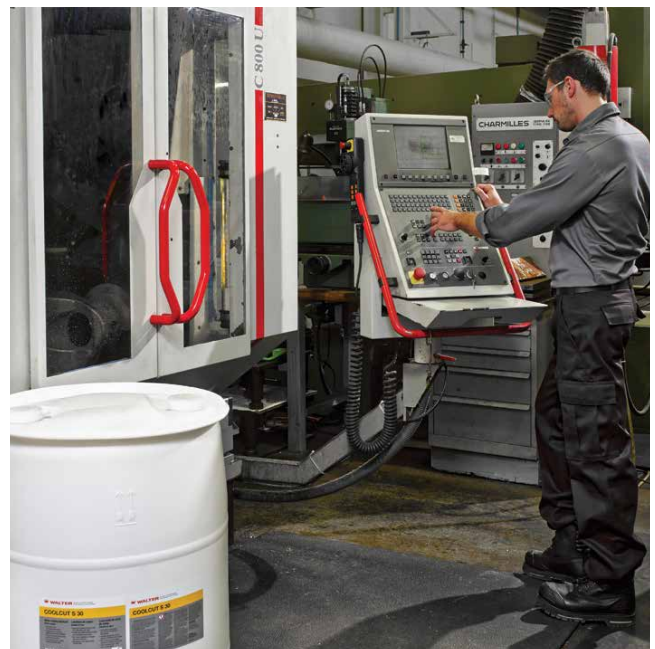


Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-C 025	L-109	1
Liquid	20 L	5.2 gal	53-C 027	L-109	1
Liquid	208 L	55 gal	53-C 028	L-109	1



### Features

- ▷ Formulated with extended corrosion protection
- ▷ Stable emulsion
- ▷ Contains extreme pressure additives (EP), bacterial control ingredients, and no chlorine
- ▷ Can be diluted up to 1:30



### Features

- ▷ Contains extreme pressure additives (EP)
- ▷ Formulated with extended corrosion protection
- ▷ Bactericide-free
- ▷ Can be diluted up to 1:30

## ALUCUT™

Solid stick aluminum cutting lubricant

Alucut™ is a high-performance lubricant that extends cutting tool life. Specially formulated for use with aluminum and other non-ferrous metals.

### Applications

- ▷ *Cutting with circular chopsaws*
- ▷ *Drilling*

### Benefits

- ▷ *Reduces scoring and chatter marks*
- ▷ *Improves finish*
- ▷ *Increases productivity*
- ▷ *Minimizes waste*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Solid Stick	300 g	10.5 oz.	53-B 303	L-04E	12

## STAINLESSCUT™

Stainless steel cutting lubricant

STAINLESSCUT™ is a heavy-duty cutting lubricant designed for tough metal cutting operations. Formulated for stainless steel, alloys, and ferrous alloys.

### Applications

- ▷ *Machining operations*
- ▷ *Drilling*

### Benefits

- ▷ *Washes off completely with water*
- ▷ *Easy clean-up*
- ▷ *Improves finish to prolong tool life*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	312 g	11 oz.	53-B 202	L-53	12
Liquid/Squeeze bottle	350 ml	11.8 fl.oz.	53-B 203	L-114	12
Liquid	3.78 L	1 gal	53-B 205	L-114	1

⚠ *California Proposition 65 Warning (Aerosol only) (See page 10 for details).*



### Features

- ▷ *Solid stick*
- ▷ *Clean, precise, stain-free application*
- ▷ *Coats cutting edge or workpiece*
- ▷ *Ideal for inclined, vertical, and overhead surfaces*



### Features

- ▷ *Contains extreme pressure additives (EP)*
- ▷ *Solvent-free, sulfur-free, and chlorine-free*
- ▷ *High lubricity and cooling properties*
- ▷ *Non hazardous, biodegradable*

## ICECUT™

Ready-to-use coolant/lubricant

ICECUT™ is a ready-to-use coolant/lubricant specially formulated for use with magnetic drilling units to reduce tool wear and improve production rates.

### Applications

- ▷ *Drilling with annular cutters, carbide core cutters, and drill bits*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-C 055	L-122E	1
Liquid	20 L	5.2 gal	53-C 057	L-122E	1

⚠ *California Proposition 65 Warning (See page 10 for details).*

### ACCESSORIES

Spout for 20 L square plastic pail

Order no.  
53-L 207

## TAPCUT™

Thread cutting lubricant

TAPCUT™ lubricant is specially formulated for thread cutting with taps and dies.

### Applications

- ▷ *Hand tapping*
- ▷ *Machine tapping*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid / Squeeze bottle	350 ml	11.8 fl.oz.	53-A 103	L-115E	12
Liquid	3.78 L	1 gal	53-A 105	L-115E	1
Liquid	20 L	5.2 gal	53-A 107	L-115E	1

### ACCESSORIES

Spout for 20 L square plastic pail

Order no.  
53-L 207



### Benefits

- ▷ *Reduces friction and heat*
- ▷ *Extends cutting tool life*
- ▷ *Increases productivity*
- ▷ *Improves finish*

### Features

- ▷ *Nitrate-free, amine-free, boron-free, phenol-free and active sulfur-free*



### Benefits

- ▷ *Taps and dies cut faster and last longer*
- ▷ *Cleans up easily with water*

### Features

- ▷ *Special antiwear additives for thread cutting*
- ▷ *Produces clean, accurate threads*
- ▷ *Non hazardous, biodegradable*

# CORROSION PROTECTION

## ZINC 100™

Bright galvanizing spray

ZINC 100™ is a bright, long-lasting corrosion protection spray specially formulated for the touch-up and repair of hot galvanized parts.

### Applications

- ▷ Food processing equipment
- ▷ Water and storage tanks

### Benefits

- ▷ Effective, long-lasting corrosion protection
- ▷ Resists chemical and water attack
- ▷ Can be painted over



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	11.5 oz.	53-H 102	L-54	12

⚠ California Proposition 65 Warning (See page 10 for details).

## ZINC 200™

Cold galvanizing spray

ZINC 200™ is a high-performance, fast-drying corrosion protection spray specially formulated for ferrous metals. Provides the ultimate protection—even when surfaces get scratched.

### Applications

- ▷ Marine equipment
- ▷ Weather-exposed parts

### Benefits

- ▷ Longest lasting corrosion protection in the marketplace
- ▷ Extremely effective when used as a primer
- ▷ Withstands harsh environmental conditions



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	11.5 oz.	53-H 152	L-95	1

⚠ California Proposition 65 Warning (See page 10 for details).

## SHIELD PRO™

Heavy-duty industrial corrosion protection

SHIELD PRO™ is an adherent, non-drying solution that coats metal parts to protect against corrosion. Ideal for indoor and outdoor storage.

### Applications

- ▷ Corrosion protection of outdoor equipment and tools, overseas storage and shipments, cables, chains, pulleys, pump and hose assemblies, and more
- ▷ Suitable for all types of maintenance and repair applications

### Benefits

- ▷ Long-term indoor and outdoor corrosion protection
- ▷ Withstands harsh conditions

### Features

- ▷ Non-drying film
- ▷ Penetrates and displace moistures
- ▷ Salt water resistant



### Features

- ▷ Zinc flakes permanently bond to metallic surfaces
- ▷ Bright metallic finish matches hot dipped look
- ▷ Fast drying
- ▷ Zinc-rich formula meets ASTM A780 standard



### Features

- ▷ Actively fights rust & corrosion
- ▷ Dual-action protection (resin coat and galvanic action)
- ▷ Meets ASTM A780
- ▷ Dull finish, dries to touch in 3-5 min.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-H 255	L-170	1
Liquid	20 L	5.2 gal	53-H 257	L-170	1
Liquid	200 L	52.8 gal	53-H 258	L-170	1

### ACCESSORIES

	Order no.
Spout for 20 L round metal pail and 200L metal drum 3/4" NPT	53-L 208

\* Item available through special order only. Allow for additional delivery time. Ask your Territory Manager for details.

11

# BIO-CIRCLE<sup>®</sup> PRODUCT LINE

ECO-FRIENDLY  
HIGH PERFORMANCE  
CLEANING, DEGREASING  
AND LUBRICATING  
SOLUTIONS



CAP: 3T

WALTER  
CB 100

WALTER  
CB 100

# BETTER WORKER SAFETY AND PRODUCTIVITY FROM BETTER CLEANING SOLUTIONS



Walter Surface Technologies' Bio-Circle® product line offers high-performance cleaning, degreasing and lubricating solutions that are eco-friendly and improve worker health and safety. Our bio-remediating and bio-renewable liquids replace hazardous solvents and reduce the costs of protecting workers from exposure to toxic chemicals.

Bio-Circle® products create a safer and healthier work environment by using nonflammable, biodegradable, VOC-reduced and VOC-free formulas. Our nature-powered products come in a wide range of sizes and formats to suit your needs. From small, no-drip, continuous spray mist bottles to bulk barrels or totes, Walter's got you covered.

Because our focus is maintenance, repair and overhaul (MRO) businesses, as well as industrial manufacturing processes, you can be confident we understand your needs. Walter representatives will analyze your contaminants and cleaning processes and recommend ways to improve productivity. We'll provide a detailed cost-analysis report to help you make informed decisions.

Our industry-leading formulas satisfy ultra-specific, high-volume surface treatment and cleaning needs, making the Bio-Circle® family of products the clear choice for manufacturing applications of all kinds.

No matter how stringent your cleaning requirements, we can provide the perfect custom solution—to improve working conditions, reduce waste, protect the environment and maximize productivity. Refer to our selection chart on page 192 for quick tips on choosing the right cleaner to get the job done.

# CLEANING BASICS

Before exploring all that Walter’s Bio-Circle® product line has to offer, here are some quick and easy tips that will help you choose the right cleaner to get the job done.

Cleaning products are divided into water-based cleaners and solvents. What differentiates water-based cleaners (and the way they remove contaminants) is their pH; they can be acidic, neutral or alkaline. Once you know the required pH for your application, you can easily choose the best cleaner to remove the given contaminant quickly and easily.

Acidic cleaners are used to remove inorganic contaminants such as rust, limescale and mineral deposits from metallic surfaces.

Neutral cleaners are used whenever the use of acidic or alkaline cleaners is a concern, or if the items to be cleaned are delicate.

Alkaline cleaners are used to remove organic contaminants such as grease, oil and protein residues.

Cleaner type	Products	Comparatives
pH 0 <b>Acidic</b> Oxidation Rust Mineral deposits	E-NOX CLEAN POWER CLEANER 100	Battery acid Gastric acid Vinegar Cola Coffee Beer, wine Saliva
	BIO-RUST	
pH 5 <b>Neutral</b> Oil, grease, rust	BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO CB 100 ALU	Seawater Baking soda Drinking water
pH 10 <b>Alkaline</b> Oil, proteins, grease, wax, resin	CB 100 E-NOX SHINE, UNO S, UNO S F, FT 100, FT 200 ALUSTAR 200 STAR 200 ALUSTAR 300	Liquid ammonia Soapy water
pH 14		

## The Cleaning Matrix

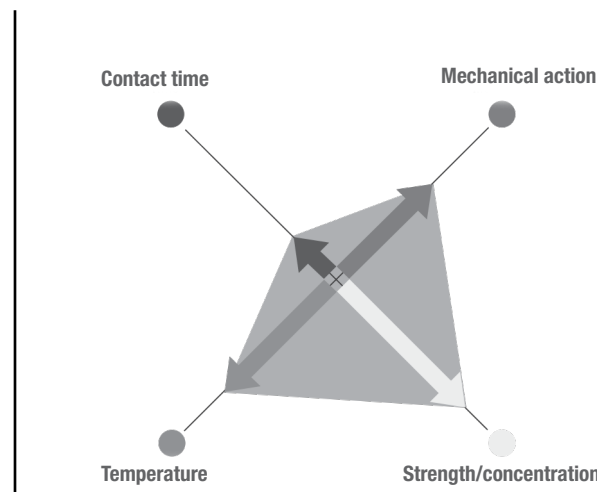
When it comes to cleaning and cleaning efficiency, each product’s cleaning performance can be improved by four key elements:

- Contact time
- Mechanical action
- Temperature
- Strength/concentration

If any of these four elements are increased, the performance of your given product will be improved.

For example:

Using a high pressure washer (mechanical) and hot tap water (temperature) mixed with a cleaner in its strongest concentration (power) for 1 minute (time) will result in a given cleaner performance. By increasing the time or the temperature at which you use the product, you will increase the performance of the product.



# CLEANING AND DEGREASING SELECTION CHART

TYPE OF CLEANERS		ALKALINE / NEUTRAL							
Contaminant		<i>Organic: grease, oil, corrosion protection, lubricants, smoke, finger prints, dust, carbon, graphite, soot, etc.</i>							
Cleaning process		Spray and wipe	Ultrasonic bath	Floor washing machine and general maintenance	Pressure washer	Hot parts washer	Automated parts washer	Dip tank	Manual parts washer
Parent material	Steel	UNO S F UNO S FT 100 FT 200	CB 100 STAR 200	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	Bio-Circle L Bio-Circle Ultra CB 100
	Stainless steel	UNO S F UNO S FT 100 FT 200 E-Nox Shine	CB 100 STAR 200	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	
	Aluminum	FT 100 FT 200 E-Nox Shine	CB 100 ALU ALUSTAR 200 ALUSTAR 300			ALUSTAR 200 ALUSTAR 300	ALUSTAR 200 ALUSTAR 300	CB 100 ALU	Bio-Circle Aero CB 100 ALU
	Copper / Brass	FT 100 FT 200	CB 100 ALU			ALUSTAR 200 ALUSTAR 300	ALUSTAR 200 ALUSTAR 300	CB 100 ALU	
	Glass	UNO S F UNO S FT 100 FT 200	CB 100	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	—
	Plastic	UNO S F UNO S FT 100 FT 200	CB 100	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	—

Note: It is very important to know the next step after cleaning. For instance, if painting is required after the cleaning operation, a surface preparation cleaner may be recommended.

**Inorganic contaminant:** Mineral-based compounds such as rust, limescale, etc.

**Organic contaminants:** Carbon-based compounds such as oil, grease, etc.

**Other contaminants:** Can be a combination of organic and inorganic contaminants

Neutralization of acidic cleaners: Proper neutralization with an alkaline cleaner is always required to deactivate the acid and prevent damages to the parent material

Steps to proper neutralization:

1. Wipe off the excess of acid
2. Apply an alkaline cleaner
3. Wipe off the surface with a clean rag (rinse and dry when necessary)



ACIDIC					ULTRA-POWERFUL NATURAL CLEANER AND DEGREASER		
<i>Inorganic:</i> rust, corrosion, limescale, calamine, heat tint, etc.					<i>Other:</i> paint, glue, adhesive, ink, wax, tar, etc.		
Spray and wipe	Ultrasonic bath	Hot parts washer	Automated parts washer	Dip tank	Spray and wipe	Ultrasonic bath	Dip tank
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Bio-Rust and Power Cleaner 100	PRO CLEAN SC 400	CB 100	PRO CLEAN CB 100
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100	PRO CLEAN CB 100
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100 ALU CB 100 ALU	PRO CLEAN CB 100 ALU
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100 ALU	PRO CLEAN CB 100 ALU
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100	PRO CLEAN CB 100
—	—	—	—	—	—	CB 100	CB 100



# CLEANER CHARACTERISTICS

	Fast evaporating	Flammability	pH level	Residue	Short term protection	Long term protection	Rinsable	Dilutable	Biodegradable
BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO	No	None	Neutral	Yes	Yes	No	Yes	No	Yes
CB 100	No	None	Slightly alkaline	Yes	Yes	No	Yes	No	Yes
CB 100 ALU	No	None	Slightly alkaline	Yes	Yes	No	Yes	No	Yes
UNO S	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes
UNO S F	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes
STAR 200	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:200)	Yes
ALUSTAR 200	No	None	Alkaline	Low (when used as directed)	Yes	No	Yes	Yes (up to 1:200)	Yes
ALUSTAR 300	No	None	Alkaline	Low	Yes	No	Yes	Yes (up to 1:200)	Yes
E-NOX CLEAN	No	None	Acidic	Yes	No	No	Yes	Yes (up to 40:1)	Yes
E-NOX SHINE	No	None	Alkaline	Yes	Yes	No	Yes	No	Yes
BIO-RUST	No	None	Slightly acidic	Yes	Yes	No	Yes	No	Yes
POWER CLEANER 100	No	None	Acidic	Yes	No	No	Yes	Yes (up to 40:1)	Yes
PRO CLEAN	No	Low (102°C/215°F)	---	Yes	No	No	No	No	Yes
SC 400	No	Mod. (45°C/113°F)	---	Yes	No	No	No	No	Yes
OMNI	No	Low (125°C/257°F)	---	Yes	Yes	Yes	No	No	No
FT 100	Yes (after wiping)	Mod.(43°C/104°F)	Slightly alkaline	Low	No	No	Yes	No	Yes
FT 200	Yes (after wiping)	Mod.(40°C/104°F)	Slightly alkaline	Low	No	No	Yes	No	Yes
AF-PL	Yes	High (-24°C/-11°F)	---	No	No	No	No	No	No
SLAP SHOT	Yes	High (-24°C/-11°F)	---	No	No	No	No	No	No
CONTACT CLEAN	Yes	None	---	No	No	No	No	No	No

Legend: ● Water-based ● Natural solvent-based ● Oil-based ● Solvent-based



### Volatile Organic Compounds Free

Consumers today are far more knowledgeable regarding products containing potentially toxic levels of volatile organic compounds, commonly known as VOCs. Paints, stains, and varnishes have long contributed considerably to the prolific release of VOCs, sometimes known as off-gassing. This explains the growing popularity of low-VOC and VOC-free products. Products where you see the VOC-free logo guarantee that they contain no volatile organic compounds.



### CAS - Clean Air Solvent Certification

The Clean Air Act Solvent Certification is delivered by the SCAQMD (South Coast Air Quality Management District). They are committed to protect the health of residents in the Orange County and the urban portion of Los Angeles, Riverside and San Bernardino counties (California). Their environmental certification criteria are among the most strict around the world.

# CLEANER APPROVALS

	EPA <sup>4</sup> 40CFR <sup>5</sup> compliant	HAP <sup>6</sup> FREE	TSCA compliant	DSL compliant <sup>3</sup>	NSF approved <sup>1</sup>	Accepted for use in food plants in Canada	SCAQMD <sup>2</sup>
BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO	Yes	Yes	Yes	Yes	Yes	Yes	No
CB 100	Yes	Yes	Yes	Yes	Yes	No	No
CB 100 ALU	Yes	Yes	Yes	Yes	No	No	Yes
UNO S	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNO S F	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STAR 200	Yes	Yes	Yes	Yes	No	Yes	Yes
ALUSTAR 200	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ALUSTAR 300	Yes	Yes	Yes	Yes	Yes	Yes	Yes
E-NOX CLEAN	Yes	Yes	Yes	Yes	Yes	Yes	No
E-NOX SHINE	Yes	Yes	Yes	Yes	Yes	Yes	No
BIO-RUST	Yes	Yes	Yes	Yes	Yes	No	Yes
POWER CLEANER 100	Yes	Yes	Yes	Yes	Yes	Yes	No
PRO CLEAN	Yes	Yes	Yes	Yes	Yes	Yes	No
SC 400	No	Yes	Yes	Yes	No	No	No
OMNI	Yes	Yes	Yes	Yes	Yes	Yes	No
FT 100	Yes	Yes	Yes	Yes	Yes	No	No
FT 200	Yes	Yes	Yes	Yes	Yes	Yes	No
AF-PL	No	Yes	Yes	Yes	No	No	No
SLAP SHOT	No	Yes	Yes	Yes	Yes	Yes	No
CONTACT CLEAN	No	Yes	Yes	Yes	Yes	No	No

<sup>1</sup> National Sanitation Foundation, <sup>2</sup> South Coast Air Quality Management District, <sup>3</sup> Domestic Substances List,

<sup>4</sup> Environmental Protection Agency, <sup>5</sup> Code of Federal Regulations, <sup>6</sup> Hazardous Air Pollutants



### Nonfood Compounds Program

The global food industry relies upon nonfood compounds to facilitate the efficient processing, handling and storage of food throughout the supply chain. Nonfood compounds include such substances as cleaners, sanitizers, boiler compounds and lubricants. NSF International Nonfood Compounds Registration Program provides beneficial product information to three important stakeholder groups.



### Low Energy Surfactant (LES) technology

These unique surfactants can clean and degrease effectively at lower temperatures, thus generating substantial energy savings. Lower the temperature of your automated industrial parts washers today! NOTE: Dilution up to 1:200

# BIO-CIRCLE VOC GUIDE

To reduce ground-level ozone and smog, certain U.S. states regulate the sales of volatile organic compounds (VOC) in consumer and industrial products. The goal is to decrease the use of high-VOC products in consumer, commercial, and industrial applications and incentivize suppliers to create lower-VOC alternatives.

Bio-Circle® offers powerful solutions for industrial applications. Whenever possible, we offer low-VOC or VOC-free alternatives to replace high-VOC products. For example, we use compressed air as an alternative to high-VOC propellants for some of our aerosol solutions.

We are committed to keeping our customers informed of any restrictions on the use of our products. Below, you'll find a list of our products and the states that restrict their use in some applications.

All states provide exemptions for high-VOC products used in the manufacturing process. Contact your local air quality regulators to learn more about VOC restrictions that may apply in your state or county.

Products	Order No.	COMPLIANCE as per CARB 310*	Restricted for sale in the following States to manufacturing use only, not for retail sale: CA, UT, NH, CT, DC, DE, IN, IL, MD, ME, MA, MI, NY, NJ, OH, PA, RI, VA
CB 100 ALU	53-G 123, 53-G 125, 53-G 127, 53-G 128, 53-G 129	✓	
PRO CLEAN	53-G 523, 53-G 525, 53-G 527, 53-G 528		✓
SC 400	53-G 512, 53-G 513, 53-G 516, 53-G 517, 53-G 518		✓
FT 100	53-G 183, 53-G 187, 53-G 188	✓	
FT 100 aerosol	53-G 182		✓
FT 200	53-G 173, 53-G 177, 53-G 178		✓
AF-PL	53-C 553-, 53-C 556, 53-C 557, 53-C 558		✓
Contact Clean	53-C 712	✓	
Slap Shot Aerosol	53-C 502		✓
Slap Shot Liquid	53-C 503, 53-C 506, 53-C 508		✓
Slap Shot PL Aerosol	53-C 552		✓
Coolcut Aerosol	53-B 002		✓
Open Gear Aerosol	53-E 102		✓
Chain Gang Aerosol	53-D 102		✓
Hang-On	53-D 812, 53-D 817		✓
Bolt Out	53-D 893, 53-D 897		✓
Rock'N Roll Aerosol	53-D 852		✓
Zinc 100 Aerosol	53-H 102		✓
Zinc 200 Aerosol	53-H 152		✓

\*California Environmental Protection Agency Air Resources Board, method 310 for determination of Volatile Organic Compounds (VOC) in consumer products and reactive organic compounds in aerosol coating products.

# LIQUIDS AVAILABLE SIZES

Our Bio-Circle® nature-powered cleaning and degreasing products come in a wide range of sizes and formats to suit your needs. From small, no-drip, continuous spray mist bottles to bulk barrels or totes, Walter's got you covered.

Our industry-leading Bio-Circle® formulas and delivery systems can satisfy ultra-specific, high-volume surface treatment and cleaning needs, making the Bio-Circle® family of products the clear choice for manufacturing applications of all kinds. No matter how stringent your cleaning requirements, Walter's team of Bio-Circle® experts will provide you with the perfect custom solution—one that improves working conditions, reduces waste, protects the environment, and maximizes productivity.



1000 L / 264 gal.

208 L / 55 gal.

20 L / 5.2 gal.

500 ml / 16.9 oz

20 L / 5.2 gal.

480 ml / 16.2 oz

3.78 L / 1 gal.

# BIO-RENEWABLE AND BIO-REMEDICATING SOLUTIONS



## BIO-RENEWABLE SOLUTIONS

Heavy-duty cleaning for removing ink, adhesive, synthetic oils, heavy grease and other tough contaminants. Working exceptionally well at room temperature, these solutions only need periodical oil skimming.

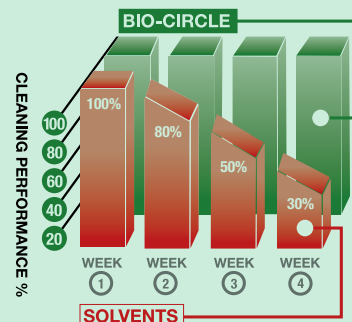
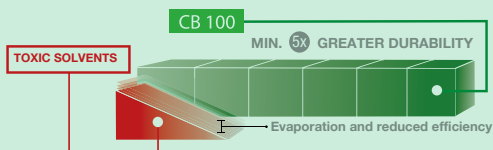
Bio-renewable cleaning liquids are powered by Nature Boost™ an exclusive and powerful ingredient derived from plant-based extracts. Bio-renewable solutions keep their full cleaning power over a longer period of time than toxic solvents because the oil separates and floats to the surface, allowing you to skim oils from the top of your tank.

## BIO-REMEDICATING SOLUTIONS

These self-regenerating solutions contain micro-organisms that break down oils and greases into CO<sub>2</sub> and H<sub>2</sub>O, with almost ZERO waste products to dispose of.

Our bio-remediating family of cleaners contain live micro-organisms that digest oils and other organic contaminants, turning them into water and carbon dioxide. Bio-remediating liquids maintain their cleaning power over time, an economical and environmental advantage over toxic solvents and weaker water based systems.

### Durability comparison





# BIO-RENEWABLE SOLUTIONS

Heavy-duty cleaning for removing ink, adhesive, synthetic oils, heavy grease and other tough contaminants. These solutions work exceptionally well at room temperature and only require periodical oil skimming.

## CB 100™

Natural industrial-strength cleaner and degreaser

CB 100™ is next-generation cleaning technology. Powered by our exclusive Nature Boost™ formula, CB 100™ is unsurpassed in its ability to remove the most stubborn industrial contaminants.

**NSF category C1, registration #148555**

### Applications

- ▷ *Cleaning asphalt from paving equipment*
- ▷ *Removing tough greases from gears and bearings*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz.	53-G 163	L-155	12
Liquid	3.78 L	1 gal	53-G 165	L-155	1
Liquid	20 L	5.2 gal	53-G 167	L-155	1
Liquid	208 L	55 gal	53-G 168	L-155	1
Liquid	1000 L	264 gal	53-G 169	L-155	1

⚠ *California Proposition 65 Warning (See page 10 for details).*

## CB 100 ALU™

Natural industrial-strength cleaner and degreaser for non-ferrous alloys

CB 100™ ALU is a powerful cleaner/degreaser powered by our unique Nature Boost™ technology. Similar to the CB 100™ cleaning solution, yet specially designed for cleaning aluminum and sensitive alloys. Replaces hazardous solvents and petroleum-based products for improved health and safety in the workplace.

### Applications

- ▷ *Removing coolants and cutting oils from parts in machine shops*
- ▷ *Degreasing engine components during repair and rebuild operations*
- ▷ *New and improved formula coming in the summer of 2019.*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 fl.oz.	53-G 123	L-158	12
Liquid	3.78 L	1 gal	53-G 125	L-158	1
Liquid	20 L	5.2 gal	53-G 127	L-158	1
Liquid	208 L	55 gal	53-G 128	L-158	1
Liquid	1000 L	264 gal	53-G 129	L-158	1

⚠ *California Proposition 65 Warning (See page 10 for details).*



### Benefits

- ▷ *Outlasts solvent cleaners by 3-5x*
- ▷ *Shortens cleaning time*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *Reduces workplace liability*

### Features

- ▷ *Ready-to-use, non-caustic, non-hazardous, phosphate-free, and butyl-free*
- ▷ *Cuts through contaminants most solvents can't touch*
- ▷ *Great cleaning power at room temperature*
- ▷ *VOC-free*



### Benefits

- ▷ *Outlasts solvent cleaners by 3-5x*
- ▷ *Shortens cleaning time*
- ▷ *Eliminates material compatibility issues*
- ▷ *Reduces workplace liability*

### Features

- ▷ *Ready-to-use, non-caustic, non-hazardous, phosphate-free, and butyl-free*
- ▷ *Great cleaning power at room temperature*
- ▷ *VOC free*
- ▷ *Formulated with special corrosion protection*

# BIO-REMEDIATING SOLUTIONS

These self-regenerating solutions contain micro-organisms that break down oils and greases into CO<sub>2</sub> and H<sub>2</sub>O, with almost ZERO waste products to dispose of.

## BIO-CIRCLE® L

Bio-remediating parts cleaner and degreaser

Bio-Circle® L is a top-selling Bio-remediating parts cleaner and degreaser used in thousands of operations worldwide. Maintains its cleaning power over time, offering an economical and environmental advantage over toxic solvents and weaker water-based systems.

**NSF category C1, registration #141285**

### Applications

- ▷ *Parts cleaning*
- ▷ *Facility maintenance*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 007	L-78	1
Liquid	200 L	55 gal	55-A 008	L-78	1
Liquid	1000 L	264 gal	55-A 009	L-78	1

⚠ *California Proposition 65 Warning (See page 10 for details).*



### Benefits

- ▷ *Maximum strength for life of product*
- ▷ *Reduces waste and disposal costs*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *No respiration equipment required*

### Features

- ▷ *Continuously self-renewing with minimal waste streams*
- ▷ *Non-hazardous, nonflammable, VOC-free*
- ▷ *Pleasant scent—no harsh fumes or vapors*
- ▷ *Safe on skin*

## BIO-CIRCLE® ULTRA



Extra powerful bio-remediating parts cleaner and degreaser

Bio-Circle® Ultra is a bio-remediating parts cleaner and degreaser that easily cuts through some of the toughest industrial contaminants including crude oil, bitumen, and heavy grease. Maintains its cleaning power over time, offering an economical and environmental advantage over toxic solvents and weaker water-based systems.

**NSF category C1, registration #145549**

### Applications

- ▷ *MRO and production*
- ▷ *Rebuild and repair operations*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 107	L-148	1
Liquid	208 L	55 gal	55-A 108	L-148	1
Liquid	1000 L	264 gal	55-A 109	L-148	1



### Benefits

- ▷ *Maximum strength for life of product*
- ▷ *Reduces waste and disposal costs*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *No respiration equipment required*

### Features

- ▷ *Continuously self-renewing with minimal waste streams*
- ▷ *Non-hazardous, nonflammable, VOC-free*
- ▷ *Powered by Nature Boost™, an exclusive, highly effective natural ingredient*
- ▷ *Pleasant scent—no harsh fumes or vapors*



# BIO-CIRCLE® Aero

Bio-remediating parts cleaner and degreaser for aircraft use

Bio-Circle® Aero liquid is a bio-remediating parts cleaner and degreaser designed to meet the aeronautical industry's stringent requirements. Safe for use with aluminum and other sensitive alloys.

## Applications

- ▷ Airport maintenance
- ▷ Aerospace parts manufacturing



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 207	L-161	1
Liquid	208 L	55 gal	55-A 208	L-161	1
Liquid	1000 L	264 gal	55-A 209	L-161	1

⚠ California Proposition 65 Warning (See page 10 for details).

## Benefits

- ▷ Maximum strength for life of product
- ▷ Eliminates material compatibility issues
- ▷ Reduces waste and disposal costs
- ▷ Creates a safer, more pleasant work environment

## Features

- ▷ Continuously self-renewing with minimal waste streams
- ▷ Conforms to: Boeing D6-17487 Revision R Douglas Aircraft Company CSD No.1 (Type I) AMS 1526C
- ▷ Non-hazardous, nonflammable, Non-hazardous, VOC-free, pH neutral
- ▷ Safe for all metals and most surfaces



# PARTS WASHER FEATURES

If you're looking to create a safer workplace without compromising performance, our Bio-Circle® MAXI industrial parts washer is built for you. This cutting-edge cleaning and degreasing system is sturdy, reliable, low maintenance, and specially designed for water-based cleaning, allowing you to quickly power through the most demanding cleaning jobs. When paired with Bio-Circle® or CB 100™ solutions, our parts washer will transform your cleaning operations, making them easy, eco-friendly, efficient and safe.

- 1 Electronically controlled PCB board with onboard diagnostics
- 2 LED flashing push button: *Flashing LED push button displays machine status*
- 3 Air pump: *Provides air circulation and convection*
- 4 In-line filter housing: *Ensures filtration of heavy metal pieces and contaminants*
- 5 CSA certified: *Conforms to industry standards for safety compliance materials and electronics*
- 6 Fluid pump: *Electronically controlled fluid pump for liquid circulation*
- 7 Air diffuser: *Distributes air evenly for maximum circulation*
- 8 Probe: *Rugged stainless probe construction houses temperature and thermal shut-off safety sensors*
- 9 Heater: *Liquid heating ensures optimal cleaning performance*
- 10 Under-sink filter bag : *Ensures filtration of heavy metal pieces and contaminants*
- 11 Gasket: *Prevents unwanted liquid evaporation*
- 12 Sink filter assembly:
  - Magnet: *Traps metallic particles*
  - Flapper: *Prevents unwanted liquid evaporation*
  - In-sink filters: *Filter meshes (2 sizes) trap heavy metal pieces and contaminants*
- 13 Two-way valve:
  - Flexible articulated hose: *Provides steady stream of liquid for cleaning*
  - Multijet flow-through brush: *Provides steady stream of liquid for cleaning, plus integration brush for scrubbing*



## BIO-CIRCLE® MAXI

Order No.	Dimensions	Max tank capacity	Load capacity
55-D 600	97 x 69 x 110 (38" x 27" x 43")	140 L (37 gal)	220 Kg (500 lbs)

ACCESSORIES	Order No.
Sink lid	55-B 047
Stainless steel sink insert	55-B 048
Casters	55-B 049

# BIO-RENEWABLE START-UP PACKAGES

Each start-up package includes the Bio-Circle® MAXI industrial parts washer and ultra-powerful natural cleaning and degreasing solutions.



***INCLUDED: 6 PAILS (20L / 5.2 GAL.)***

Name	Order No.
CB 100	55-D 615CBP
CB 100 ALU	55-D 615CBAP

***INCLUDED: 1 DRUM (208L / 55 GAL.)***

Name	Order No.
CB 100	55-D 615CBD
CB 100 ALU	55-D 615CBAD

# BIO-REMEDICATING START-UP PACKAGES

Each start-up package includes the Bio-Circle® MAXI industrial parts washer and safe and efficient BIO-REMEDICATING cleaning solutions. These Bio-Circle® liquids maintain their cleaning power over time, a clear advantage over solvents.



***INCLUDED: 6 PAILS (20L / 5.2 GAL.)***

Name	Order No.
Bio-Circle® L	55-D 600BCLP
Bio-Circle® ULTRA	55-D 600BCUP
Bio-Circle® Aero	55-D 600BCAP

***INCLUDED: 1 DRUM (208L / 55 GAL.)***

Name	Order No.
Bio-Circle® L	55-D 600BCLD
Bio-Circle® ULTRA	55-D 600BCUD
Bio-Circle® Aero	55-D 600BCAD

# WALTER AND GRAYMILLS

PARTNERS IN SUPERIOR PARTS CLEANING SOLUTIONS

*Graymills parts washer systems perfectly complement Walter's cleaning and degreasing solutions.*

*We've got you covered! Combine Bio-Circle's array of parts washing liquids with Graymills' range of ultrasonic, automated or small parts washers for great results.*



## GRAYMILLS

Graymills order no. PH922

*Easy to use, it offers quick on-site cleaning of shop parts. This modular washer features an integrated sink and holding tank for efficient cleaning.*



## BIOMATIC

Graymills order no. BIO922

*Uses a bioremediation process involving hydrocarbon converting microbes to reduce solid waste and eliminate fluid disposal.*



## THE PERFECT MATCH!

*Get great results when paired with Walter's CB 100™, Bio-Circle® or STAR™ parts washing liquids.*



For more information, visit  
**Graymills.com**

Toll-free customer service: 1 877-465-7867

# INDUSTRIAL CLEANING AND DEGREASING

Bio-Circle's UNO™ family of cleaning and degreasing products are ideal for various applications conducted at room temperature. Save time and money with UNO™ and its Low Energy Surfactant (LES) technology which allows the product to achieve optimal results at ambient temperature.

## UNO™ S

Concentrated cleaner and degreaser

UNO™ S is a highly concentrated, powerful foaming cleaner/degreaser that lifts dirt and grease fast. Ideal for manual spraying applications. Excellent substitute for solvent-base cleaners.

**NSF category A1, registration #142608**

### Applications

- ▷ *Cleaning stainless steel equipment in food industry*
- ▷ *Removal of cutting fluids, stamping oils & grease*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid, trigger sprayer	500 ml	16.9 oz.	53-G 033	L-143	12
Liquid	3.78 L	1 gal	53-G 035	L-143	1
Liquid	20 L	5.2 gal	53-G 037	L-143	1
Liquid	208 L	55 gal	53-G 038	L-143	1
Liquid	1000 L	264 gal	53-G 039	L-143	1

⚠ *California Proposition 65 Warning (See page 10 for details).*

## UNO™ SF

Concentrated foamless cleaner and degreaser

UNO™ SF is a highly concentrated, powerful foamless cleaner/degreaser that can cut through dirt and grease throughout your facility. Uses range from floor washing and pressure washing of large parts to automatic parts washers. Excellent substitute for solvent-base cleaners. **NSF category A1, registration #142609**

### Applications

- ▷ *Cleaning of stainless steel equipment*
- ▷ *Removal of cutting fluids, stamping oils & grease*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 023	L-48	12
Liquid	3.78 L	1 gal	53-G 015	L-48	1
Liquid	20 L	5.2 gal	53-G 017	L-48	1
Liquid	208 L	55 gal	53-G 018	L-48	1
Liquid	1000 L	264,6 gal	53-G 019	L-48	1

⚠ *California Proposition 65 Warning (See page 10 for details).*



### Benefits

- ▷ *Versatile — can be used for a variety of applications*
- ▷ *Less chemical required per cleaning*
- ▷ *Creates a safer, healthier work environment*

### Features

- ▷ *Nonflammable, phosphate-free, VOC-free*
- ▷ *Foaming action for increased contact time*
- ▷ *Low Energy Surfactant Technology cleans at lower temperatures*
- ▷ *Dilutable up to 1:40*



### Benefits

- ▷ *Versatile—can be used for a variety of applications*
- ▷ *Less chemical required per cleaning*
- ▷ *Creates a safer, healthier work environment*

### Features

- ▷ *Nonflammable, VOC-free*
- ▷ *Low Energy Surfactant Technology cleans at lower temperatures*
- ▷ *Foamless for high-pressure or agitation cleaning systems*
- ▷ *Dilutable up to 1:40*

# STAR™ LINE OF CLEANERS AND DEGREASERS FOR AUTOMATED PARTS WASHERS

An excellent substitute to solvent-based cleaners! Save on energy and costs with Low Energy Surfactant (LES) Technology! These unique surfactants can clean and degrease effectively at lower temperatures, thus generating substantial energy savings. Lower the temperature of your automated industrial parts washers today!

## STAR™ 200

Concentrated alkaline cleaner/degreaser for parts washing systems

STAR™ 200 is a foamless demulsifying alkaline cleaner/degreaser specially formulated for cleaning iron, cast iron, steel, and stainless steel. Excellent at dissolving thick oil, grease, lubricants, and grime.

### Applications

- ▷ Hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Maintenance, repair, and cleaning applications



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	53-G 067	L-107	1
Liquid	208 L	55 gal	53-G 068	L-107	1
Liquid	1000 L	264 gal	53-G 069	L-107	1

⚠ California Proposition 65 Warning (See page 10 for details).



### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Built-in corrosion inhibitors

## ALUSTAR™ 200

Automated parts washer cleaner and degreaser for non-ferrous alloys

Alustar™ 200 is a foamless demulsifying cleaner/degreaser that dissolves and removes thick oil, grease, lubricants, and grime from aluminum and other nonferrous alloys. Ideal for applications that are subject to strict cleaning specifications.

**NSF category A8, registration #145452**

### Applications

- ▷ Automated and semi-automated hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Removing cutting oils after machining

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-G 705	L-79	1
Liquid	20 L	5.2 gal	53-G 707	L-79	1
Liquid	208 L	55 gal	53-G 708	L-79	1
Liquid	1000 L	264 gal	53-G 709	L-79	1



### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Low Energy Surfactant Technology cleans at lower temperatures

## ALUSTAR 300™

Heavy-duty automated parts washer cleaner and degreaser for non-ferrous alloys

Alustar™ 300 is a foamless demulsifying cleaner/ degreaser that easily dissolves and removes persistent oil, grease, lubricants and grime from aluminum, steel, and stainless steel. Excellent for heavy-duty maintenance, repair, and operations cleaning applications.

**NSF category A8, registration #145453**

### Applications

- ▷ Automated and semi-automated hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Heavy-duty maintenance, repair, and cleaning applications

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	53-G 757	L-106	1
Liquid	208 L	55 gal	53-G 758	L-106	1
Liquid	1000 L	264 gal	53-G 759	L-106	1



### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Built-in corrosion inhibitors

⚠ California Proposition 65 Warning (See page 10 for details).

# Corrosion Inhibitor

For STAR and UNO family of aqueous cleaners

Provides additional corrosion protection when used with aqueous cleaners. Is concentrated, 100% active ingredients and is foamless.

### Applications

- ▷ Use with any UNO Cleaning Solution
- ▷ Add to cleaning solution and/or rinsing water



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	950 ml	32.1 fl.oz.	53-G 001	L-56	1
Liquid	20 L	5.2 gal	53-G 927	L-56	1
Liquid	208 L	55 gal	53-G 928	L-56	1

# Defoamer additive

For STAR and UNO family of aqueous cleaners

Quick and permanent foam dissipation for aqueous cleaners. Comes concentrated with a suggested dilution rate of 0.5% to 1%.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	950 ml	32.1 fl.oz.	53-G 002	L-57	1
Liquid	20 L	5.2 gal	53-G 937	L-57	1

⚠ California Proposition 65 Warning (See page 10 for details).

# Titration Kit

For use with STAR and UNO family of products

High concentration cleaning solutions such as the STAR™ and UNO™ family can be diluted with water to alter the cleaning strength of the product. With the titration kit, you can easily determine the exact level of concentration of your solution to maintain a high level of cleaning productivity.

### Applications

- ▷ For use with automated mechanical cleaning systems
- ▷ For immersion tank

Order No.	MSDS	Std. Pkg.
53-L 160	L-145 L-144	1

# Proportioning system

Offers a complete system for dispensing BIO-CIRCLE® bulk aqueous cleaners. It will automatically dilute the solution and fill spray bottles, buckets and other containers.

Order No.	Std. Pkg.
53-L 162	1



### Features

- ▷ Non-flammable. Not controlled under WHMIS 2015
- ▷ Solvent, phosphate and butyl-free. Biodegradable
- ▷ Protects steel parts and equipment from flash-rust



### Features

- ▷ Silicone-free
- ▷ Eliminates all foaming with water-based products



### Features

- ▷ 2 high flow (bucket feed)
- ▷ 2 low flow (bottle feed)
- ▷ Push button activated
- ▷ Metering tips from 350:1 to 3.5:1 at 3.5 GPM



# STAINLESS CLEANING

## E-NOX CLEAN™

High strength stainless steel cleaner

E-NOX CLEAN™ is a highly concentrated gel formulation cleaner that removes tarnish, rust, and mineral deposits and brightens surfaces. Outperforms abrasives while saving time and energy.

**NSF category A3, registration #142614**

### Applications

- ▷ *Brightening stained and exposed finishes*
- ▷ *Cleaning of food and pharmaceutical equipment*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Gel, trigger sprayer	500 ml	16.9 fl.oz.	53-G 303	L-59	12
Liquid	3.78 L	1 gal	53-G 305	L-59	1
Liquid	20 L	5.2 gal	53-G 307	L-59	1
Liquid	208 L	55 gal	53-G 308	L-59	1

⚠ California Proposition 65 Warning (See page 10 for details).

## E-NOX SHINE™

Stainless steel cleaner and protector

E-NOX SHINE™ is a surface cleaner designed to remove light contaminants such as dust, light oils, and fingerprints prior to shipping. Creates a thin, invisible protective film to preserve the quality of your work until it reaches its final destination.

**NSF category P1, registration #131393**

### Applications

- ▷ *Removing oil, carbon, light dirt, and fingerprints*
- ▷ *Brightening and protecting indoor finishes*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 403	L-102	12
Liquid	3.78 L	1 gal	53-G 405	L-102	1
Liquid	20 L	5.2 gal	53-G 407	L-102	1
Liquid	208 L	55 gal	53-G 408	L-102	1

⚠ California Proposition 65 Warning (See page 10 for details).



### Benefits

- ▷ *Fast acting*
- ▷ *Clean, precise application minimizes dripping*
- ▷ *Improves efficiency*

### Features

- ▷ *Nonflammable, VOC-free*
- ▷ *Safe for use on aluminum, chrome, and other nonferrous metals*
- ▷ *Free of nitric and hydrochloric acid*
- ▷ *Gel sticks to vertical surfaces*



### Benefits

- ▷ *Gives finished work a polished, flawless look*

### Features

- ▷ *Nonflammable, solvent-free, silicone-free, phosphate-free*
- ▷ *Uniform finish, no streaking*
- ▷ *NSF Registered*
- ▷ *Ready to use*

# RUST-REMOVAL AND BRIGHTENING

## BIO-RUST™

Non-caustic rust remover

BIO-RUST™ is a non-caustic that safely eliminates rust on all ferrous alloys. **NSF category A2, registration #146173**

### Applications

- ▷ Removal of rust and other metallic particles
- ▷ We recommend degreasing parts before using BIO-RUST™.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 243	L-134	12
Liquid	20 L	5.2 gal	53-G 247	L-134	1
Liquid	208 L	55 gal	53-G 248	L-134	1

⚠ California Proposition 65 Warning (See page 10 for details).

### ACCESSORIES

	Order No.
Chrome plated drum pump	53-L 116
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209

Use with CleanBox® Dip for pre-soaking

Order no. 55-D 010



### Benefits

- ▷ Reduces scrap rate
- ▷ Requires less time and effort than abrasives
- ▷ Safe to handle and store

### Features

- ▷ Removes rust without attacking surface material
- ▷ Slightly acidic pH range, non-caustic and biodegradable
- ▷ Nonflammable, phosphate-free, VOC-free
- ▷ Non-hazardous—OSHA and WHMIS compliant

## POWER CLEANER 100™

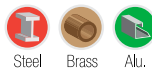
Rust and mineral remover plus brightener

POWER CLEANER 100™ is a highly concentrated cleaner/brightener that quickly breaks down rust, dissolves limescale, eliminates mineral deposits, and brightens metallic surfaces.

**NSF category A3, registration #141944**

### Applications

- ▷ Removing rust, limescale, and mineral deposits on sheet metal, metallic structures, heating coils, pumps, heat exchanger plates, and storage tanks
- ▷ Brightening metallic surfaces



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 253	L-23	12
Liquid	3.78 L	1 gal	53-G 255	L-23	1
Liquid	20 L	5.2 gal	53-G 257	L-23	1

⚠ California Proposition 65 Warning (See page 10 for details).

### ACCESSORIES

	Order No.
Spout for 20 L square plastic pail	53-L 207
Empty refillable trigger sprayer for POWER CLEANER 100	53-L 309



### Benefits

- ▷ Fast acting
- ▷ Easier and more efficient than manual rust removal
- ▷ No need to salvage rusted parts or equipment

### Features

- ▷ Does not contain nitric, hydrofluoric or hydrochloric acid
- ▷ Fully restores dull or tarnished metal surfaces
- ▷ Can be diluted up to 1:40 with water

# PAINT, INK, GLUE AND ADHESIVE CLEANING

## SC 400™

High strength citrus solvent

Formulated with citrus peel extracts (not aerosol), SC 400™ is a heavy duty, powerful, fast-acting alternative to petroleum-based solvent cleaners. Easily removes adhesives, glues, sealants, rubber residues, tar, paint, ink, pen marks, grease, lubricants, and oils.

### Applications

- ▷ *Cleaning machine parts, tools, pumps, gears*
- ▷ *Not for use on plastics, rubber, and other solvent-sensitive materials*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	11.5 fl.oz.	53-G 512	L-68	12
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 513	L-68	12
Liquid	3.78 L	1 gal	53-G 516	L-68	1
Liquid	20 L	5.2 gal	53-G 517	L-68	1
Liquid	200 L	52.8 gal	53-G 518	L-68	1

⚠ *California Proposition 65 Warning (See page 10 for details).*

ACCESSORIES	Order No.
Industrial pump sprayer for SC 400, PRO CLEAN, CB 100, AF-PL, FT 200, FT 100 and OMNI.	53-L 120
Spout for 20 L round metal pail and 200L metal drum 3/4" NPT	53-L 208
Empty refillable trigger sprayer for SC 400	53-L 313
Bio-Circle Air Drying Gun	55-B 085



### Benefits

- ▷ *Cuts through contaminants quickly and effectively*
- ▷ *Slow drying formula covers larger surface areas*
- ▷ *Safer than more flammable alternatives*

### Features

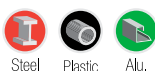
- ▷ *Formulated with 100% natural and renewable ingredients*
- ▷ *Low residue, slow drying*
- ▷ *High flashpoint 113°F (45°C)*

## PRO CLEAN™

High strength natural solvent

Made from bio-renewable extracts, PRO CLEAN™ is a powerful, 100% concentrated solvent that removes hard-to-clean contaminants. Its Nature Boost™ formula quickly and easily removes paint, ink, adhesives, anti-corrosion waxes, resins and tar.

**NSF category K3, registration number 146172**



Description	Size		Order No.	MSDS
	Metric	US Gal		
Trigger sprayer	500 ml	16.9 oz.	53-G 523	L-169
Liquid	3.78 L	1 gal	53-G 525	L-169
Liquid	20 L	5.2 gal	53-G 527	L-169
Liquid	208 L	55 gal	53-G 528	L-169

⚠ *California Proposition 65 Warning (See page 10 for details).*



### Benefits

- ▷ *Creates a safer, more pleasant work environment*
- ▷ *Safer to handle than toxic and volatile solvents*
- ▷ *Improves sustainability*
- ▷ *Reduces workplace liability*

### Features

- ▷ *Formulated with natural and bio-renewable ingredients*
- ▷ *Test before use on rubber*
- ▷ *Non-corrosive*
- ▷ *High-strength formulation—fast acting, very effective*

# PRE-PRIMING PRE-SHIPPING

## FT 100™

Stainless steel and glass surface cleaner

FT 100™ is a surfactant-free, fast-drying cleaning agent that removes light oil pollution, dust, fingerprints, felt pen, and pencil residues from lacquered surfaces, plastics, glass, mirrors, metals, and all highly polished glossy surfaces.

**NSF category A1, registration #154672**

### Applications

- ▷ Final step before any treatment in process (painting, varnish, sealing, gluing, coating, etc.)
- ▷ Final step before showcasing a final product

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-G 182	L-172	12
Sprayer	500 ml	16.9 oz.	53-G 183	L-167	12
Liquid	20 L	5.2 gal	53-G 187	L-167	1
Liquid	208 L	55 gal	53-G 188	L-167	1



### Benefits

- ▷ Leaves no residue, streaks, or stains
- ▷ Ready to use

### Features

- ▷ One product for multiple processes and surfaces
- ▷ Fast acting, fast drying
- ▷ VOC compliant (per CARB 310)

## FT 200™

Fast drying surface preparation cleaner

FT 200™ prepares metallic surfaces for painting, priming, coating, bonding, corrosion protection, metalizing, welding, and a variety of other processes. Evaporates after it's wiped off surfaces. Lasts 7x longer than traditional fast-evaporating surface preparation solvents such as acetone.

**NSF category A1, registration #142612**

### Applications

- ▷ Preparing metallic surfaces prior to coating
- ▷ Removal of light contaminants such as processing oils, anti-corrosion oils, and light waxes

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid, trigger sprayer	500 ml	16.9 oz.	53-G 173	L-128	12
Liquid	20 L	5.2 gal	53-G 177	L-128	1
Liquid	208 L	55 gal	53-G 178	L-128	1



### Benefits

- ▷ Increased surface coverage
- ▷ Improves adhesion quality in coating applications
- ▷ A safer alternative to traditional solvents

### Features

- ▷ Phosphate free and biodegradable
- ▷ Low VOC (7% content), slow evaporation rate, and minimal odor
- ▷ High flash point
- ▷ Residue-free after wiping

⚠ California Proposition 65 Warning (See page 10 for details).

# CLEANING, LUBRICATING AND TEMPORARY PROTECTION

## OMNI™

Cleaner/lubricant/protector (CLP)

Multifunctional maintenance cleaner/lubricant/protector.  
Excellent penetrating and lubricating capability.  
Protects surfaces from oxidation.

**NSF category A8, registration #142610**

### Applications

- ▷ Dissolving light rust and graphite
- ▷ Loosening rusted and seized hardware

### Benefits

- ▷ Cleans, penetrates, lubricates, and protects in one easy step
- ▷ Versatile—can be used for multiple maintenance applications
- ▷ Reduces rework
- ▷ Creates a safer, healthier work environment

### Features

- ▷ Nonflammable, silicone-free, Teflon-free
- ▷ High flash point 257 °F (125 °C)
- ▷ Dielectric strength 350 Volts/Mil, dielectric breakdown voltage 35 000 Volts as per ASTM D877-13, procedure A
- ▷ Pleasant scent—no harsh fumes or vapors



All Metals

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	480 ml	16.2 fl.oz.	53-X 002	L-73	12
Trigger sprayer	500 ml	16.9 oz.	53-X 003	L-74	12
Liquid	3.78 L	1 gal	53-X 005	L-74	1
Liquid	20 L	5.2 gal	53-X 007	L-74	1
Liquid	208 L	55 gal	53-X 008	L-74	1
Liquid	1000 L	264.6 gal	53-X 009	L-74	1

⚠ California Proposition 65 Warning (See page 10 for details).

### ACCESSORIES

	Order No.
Industrial pump sprayer for SC 400, PRO CLEAN, CB 100, AF-PL, FT 200, FT 100 and OMNI.	53-L 120
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209
Empty refillable trigger sprayer for OMNI	53-L 314
Bio-Circle Microfiber / Pack of 10	57-M 001

# AIR FORCE AF-OMNI™

AF-OMNI is a system with a base unit that automatically dispenses AF-OMNI liquid and compressed air into refillable spray cans. Save money by buying in bulk and reduce costs associated with the disposal of aerosol cans, all while reducing your environmental impact.



### Benefits

- ▷ Eliminates aerosol disposal costs
- ▷ Reduces environmental impact
- ▷ Improves sustainability

*No more disposing  
of hazardous  
aerosol cans*



# AIR FORCE AF-OMNI™ START-UP PACKAGES

## Air Force AF-OMNI™ 20 L / 5.3 gal.

**Includes:**

- ▷ Use of Air Force OMNI station
- ▷ 1 x 53-X 007 OMNI 20 L / 5.3 gal
- ▷ 1 x 53-M 058 pail adaptor
- ▷ 6 x 53-M 132 refillable bottles
- ▷ 6 x 53-M 054 variable spray valves

**Order No.:** 53-M 012AF0BB

⚠ California Proposition 65 Warning (See page 10 for details).



## Air Force AF-OMNI™ 208 L / 55 gal.

**Includes:**

- ▷ Use of Air Force OMNI station
- ▷ 1 x 53-X 008 OMNI 208 L / 55 gal
- ▷ 1 x 53-M 038 drum adaptor
- ▷ 1 x 53-M 025 safety valve
- ▷ 6 x 53-M 132 refillable bottles
- ▷ 6 x 53-M 054 variable spray valves

**Order No.:** 53-M 012AF0D

⚠ California Proposition 65 Warning (See page 10 for details).



## AF-OMNI™

Refillable sprayer

Durable and light weight aluminum OMNI™ sprayer comes with an OMNI™ specific label to clearly identify the contents and ensure full workplace compliance.

Fill capacity	Operating pressure	Order No.
400 ml / 13.5 oz	90 - 125 psi	53-M 132

⚠ California Proposition 65 Warning (See page 10 for details).



53-M 010



	Order No.
<b>Optional nozzles</b>	
Wide spray	53-M 022
Long extension tube	53-M 052
Short extension tube	53-M 053
Variable spray	53-M 054
<b>Accessories</b>	
Air refilling station	53-M 010
Air nozzle	53-M 015
Replacement valve kit (includes 2 valves and 2 spray tips)	53-M 030
Brass screw cap	53-M 037
Replacement filling valve	53-M 039
Pail adaptor	53-M 041
Drum adaptor	53-M 038
Safety valve	53-M 025

# ACCESSORIES





## Threaded throw-away adaptors

Description	Order No.
For 1/8" wheels (5/8"NC)	08-B 002
For 1/4" wheels (5/8"NC)	08-B 001
For 1/2" wheels (5/8"NC)	08-B 003



## Reusable adaptor kit

Description	Order No.
For depressed center wheels	08-B 031



## Mandrels for ZIP wheels

Description	Order No.
<b>Flush mandrels with 1/4" shaft</b>	
For 2 and 3" wheels, 1/4" and 3/8" arbor	11-L 007
For 2" wheels, 5/16" arbor	11-L 001
For 3" and 4" wheels, 1/4" arbor	11-L 006
For 3" and 4" wheels, 3/8" arbor	11-L 003
<b>General purpose mandrels with 1/4" shaft</b>	
For 2" wheels, 3/8" arbor	11-L 008
For 2" wheels, 5/16" arbor	11-L 002
For 3" and 4" wheels, 3/8" arbor	11-L 004
<b>with 5/16" shaft</b>	
For 3" and 4" wheels, 3/8" arbor	11-L 005



## 1/4" shaft for TWIST backing pads

Description	Order No.
with 1/4"-20 thread	
For 2" and 3" pads	04-X 001



## Mounting accessories for FX wheels

Mandrels for use on straight grinders and drills

Description	Order No.
<b>For use with 6" FX wheels</b>	
1/4" shaft	07-X 006
1/4" shaft (7/8" arbor)	07-X 008
<b>Extension mandrels for use on angle grinders</b>	
5/8"-11 thread	07-C 006



Two wheels can be mounted on each mandrel.

## Wheel dressers

Description	Order No.
<b>For bench grinder wheels</b>	
Standard	12-E 001
Heavy-duty	12-E 002
<b>Replacement wheels</b>	
Set for 12-E 001	12-E 004
Set for 12-E 002	12-E 005



## Extra clamping nuts



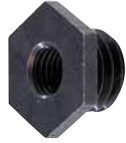
Description	Order No.
<b>For 4" backing pads</b>	
3/8"-24	15-D 015
<b>For 4 1/2" and 5" backing pads</b>	
M10 x 1.25	15-D 010
5/8"-11	15-D 014
<b>For 6" and 7" backing pads</b>	
5/8"-11	15-H 014
<b>For 7" Turbo Action backing pad</b>	
5/8"-11	15-M 014

## SPACER WASHERS

Description	Order No.
For grinders with: 5/8"-11 spindle	07-Q 001
For grinders with: M14x2.0 spindle	07-Z 005

## Wire brush adaptors and mandrels

Description	Order No.
<b>Use these threaded adaptors to convert brushes with 5/8"-11 arbor</b>	
To M10 x 1.25 female	13-D 001
To M10 x 1.5 female	13-D 002
To 3/8"-24 female	13-D 003
To 3/8"-16 female	13-D 007
<b>Use these mandrels for double-sided knot-twisted mounted brushes.</b>	
To fit with 13-C 303 (3/8" X 1/4")	13-D 008
To fit with 13-C 404 (1/2" X 1/4")	13-D 009



## Clamping flanges

Description	Order No.
Clamping flanges set to mount 9" cut-off wheels on 5/8"-11 spindles	30-B 022



## SPIN-ON performance kit

Description	Order No.
Contains 1 universal clamping nut holder for all types of clamping flanges. Allows quick and easy storage of clamping flange when not in use. Also includes 2 silicone rings.	30-B 024



## Mounting flanges

Description	Order No.
5/8"-11 clamping nut for 6150, 6161, 6170, 6190, 6255, 6260, 6350 and 6360.	30-B 037
Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: 5/8"-11 spindles and M14 spindle : 30-B 016	30-B 017



## Quick release backing flange

Description	Order No.
For quick and easy removal of wheel	30-B 057
Special heat resistant silicone ring for retention of the back flange to the spindle. Package of 10.	30-B 027
Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: M14x2.0 spindles	30-B 016
Quick nut 5/8"-11	30-B 020



## Flanges for flush mounting wheels

Description	Order No.
Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: 5/8"-11 spindles and M14 spindle : 30-B 016	30-B 017
<b>Flush mounting set (includes special flange and clamping nut)</b>	
Complete set for a flush fit and minimal spindle exposure beyond the clamping nut, for other brands of grinders with: 5/8"-11 spindles	30-B 021
<b>ErgoFlex mounting set</b>	
5/8"-11 spindle	30-B 030



## Spacer washers

Description	Order No.
For grinders with: 5/8"-11 spindle	07-Q 001
For grinders with: M14x2.0 spindle	07-Z 005



## Pin keys

Description	Order No.
Pin key for clamping nuts: 15-H 009, 15-H 010, 15-H 011, 15-H 012, 15-D 013 and 15-H 024	15-H 021
For all other clamping nuts	48-Z 148



## Side handles

Description	Order No.
4-1/2", 5" and 6"	32-B 027
7" and 9"	48-M 401
Quick-Step Big Buff	48-A 054
Line-Mate III	48-A 034
6145 straight grinder	48-L 555



## Nut holder

Description	Order No.
Thread your clamping nut directly on your grinder when not in use. Prevents losses.	30-B 023



## Carrying case

Description	Order No.
Sturdy steel carrying case with protective foam and ample room for accessories. For 6141, 6145, 6150, 6161, 6255, and 6260 grinders.	30-B 010



## Flexible shaft

Description	Order No.
For delicate finishing work with 6141 and 6145. 1/4" collet, 5 ft. long.	30-B 050



## Bench mount

Description	Order No.
For use with flexible shaft, for 6141 and 6145.	30-B 002



## Replacement collets

Size	Order No.
<b>For 6141 and 6145.</b>	
1/4"	30-B 046
1/8"	30-B 047
6 mm	30-B 048



## Special "Top-Up" lubricants

Description	Order No.
For models: 6145, 6150, 6161, 6170, 6190, 6255, 6260, 6265, 6268, 6330, 6350, 6352, 6360 and 6362.	48-Z 392



## Carbon brush Diamond brush seating stick

Order No.
48-Z 449



## Spouts



53-L 210\*



53-L 209\*



53-L 207\*



53-L 113\*

Description	Order No.
Spout for 5 L / 1.3 gal plastic pail	53-L 113
Spout for 20 L / 5.3 gal square plastic pail	53-L 207
Spout for 208 L plastic drum and 200 L / 55 gal metal drum, 2" NPT	53-L 209
Spout for 200 L metal drum, 3/4" NPT	53-L 210

## Accessories for air grinders

Description	Order No.
-------------	-----------

### Use these adaptors to convert accessories with 5/8"-11 arbors

To 3/8"-16 (male)	13-D 004
To 5/16"-24 (male)	13-D 005



### Use these extensions to mount accessories

With 3/8"-24 on spindles with 3/8"-24 thread	08-B 006
With 3/8"-24 on spindles with 7/16"-20 thread	08-B 005
With 5/8"-11 on spindles with 1/2"-13 thread	08-B 008



### Clamping nut for use with above extension 3/8"-24 thread, to mount grinding wheels

With 5/8" arbor	08-B 007
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### Mounting flange to mount 4" type 27 grinding wheels on air grinders

with 3/8"-24 spindle	08-B 004
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## Cutting guard

Size	Order No.
------	-----------

### Designed to make all cutting operations even safer.

3"	30-B 051
4 1/2"	30-B 062
5"	30-B 063
6"	30-B 064
7"	30-B 065
9"	30-B 066



## Walter industrial gloves

Protective, sleek, and tight fitting for comfort. Walter's newly-designed work gloves are made to last in the toughest applications. They are made of 100% Black Goatskin leather, with neoprene inserts that reduce vibration. The thumb curve is made with Kevlar™, a natural anti-slip solution. Simply put, these gloves are the toughest and most comfortable for demanding industrial applications.



Size	Order No.
Large	30-B 093
Extra-Large	30-B 095

## REFILLABLE TRIGGER SPRAYERS

Sprayers equipped with precision mechanism – guarantees minimal constant spray mist / no dripping. Clearly identified with product specific labels showing product features, GHS information and directions for use.



Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
E-Weld	500 ml	16.9 oz	53-L 321	1
E-Weld 3	500 ml	16.9 oz	53-L 320	1
E-Weld 4	500 ml	16.9 oz	53-L 338	1



## Bio-Circle® POWERCLOTH™

- ▷ Ideal for streak free clean-ups
- ▷ Non-abrasive, won't scratch mirror finish, paint or clear coat



Description	Order No.	Std. Pkg.
Bag	57-M 001	10
Box	57-M 005	50
Case	57-M 010	100

## REFILLABLE TRIGGER SPRAYERS

Practical and sturdy, all bottles are clearly identified with product specific labels showing product features, hazard information and directions for use. High-quality, resistant trigger for longest life. Transparent bottle allows you to see product level. Can be refilled hundreds of times.



Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
UNO S F	950 ml	32.1 oz	53-L 158	1
POWER CLEANER 100	500 ml	16.9 oz	53-L 309	1
SC 400	500 ml	16.9 oz	53-L 313	1
OMNI	500 ml	16.9 oz	53-L 314	1
UNO S	500 ml	16.9 oz	53-L 315	1
E-NOX SHINE	500 ml	16.9 oz	53-L 316	1
FT 200	500 ml	16.9 oz	53-L 322	1
UNO SV	500 ml	16.9 oz	53-L 336	1
E-NOX CLEAN	500 ml	16.9 oz	53-L 337	1
PRO CLEAN	500 ml	16.9 oz	53-L 341	1
SLAP SHOT	500 ml	16.9 oz	53-L 311	1
HANG-ON	500 ml	16.9 oz	53-L 331	1
BOLT-OUT	500 ml	16.9 oz	53-L 332	1
CB 100	500 ml	16.9 oz	53-L 342	1
CB 100 ALU	500 ml	16.9 oz	53-L 343	1

## INDUSTRIAL PUMP SPRAYERS

Rugged and convenient sprayers designed to effectively dispense a variety of Bio-Circle® cleaners and lubricants.

The spray pattern can easily be adjusted from a pin pointjet for accurate product dispensing to a wide fan for fast surface coverage. Viton gaskets and corrosion-proofspring for optimal chemical resistance. These thick walled polyethylene bottles feature a wide neck for easy filling hundreds of times.



Description	Size		Order No.	Std. Pkg.	Std. Pkg.
	Metric	US Gal			
<b>Industrial pump sprayer for SC 400, PRO CLEAN, CB 100, AF-PL, FT 200 and OMNI.</b>					
For SC 400, PRO CLEAN, CB 100, AF-PL, FT 200, OMNI	900 ml	30 oz	53-L 120	1	1

ACCESSORIES	Order No.
Replacement Viton gasket set	53-L 100
Replacement spray nozzle (without gaskets)	53-L 104
Replacement swirl piece (without gaskets)	53-L 114

# BIO-CIRCLE® PARTS CLEANING SYSTEM ACCESSORIES

## Parts washing basket

- 9" dia x 8 1/4" high
  - 1/4" holes
- 55-B 004



## Filter cartridge

- Reusable 350 micron
  - Reusable 200 micron
  - Reusable 150 micron
  - Reusable 100 micron
  - Disposable 100 micron
  - Disposable 200 micron
- 55-B 011  
55-B 038  
55-B 037  
55-B 036  
55-B 012  
55-B 021



## Bio-Circle® scraper

55-B 063



## Angled flow through brush

55-B 007



## Disposable filter bags for Bio-Circle® machines

- 50 micron
  - 100 micron
  - 200 micron
- 55-B 041  
55-B 042  
55-B 043



## Bio-Circle® Air Drying Gun

55-B 085



## Sink lid

- For MAXI
- 55-B 047



## Replacement flow-through brush

55-B 005



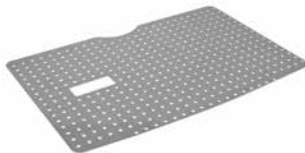
## Filter housing spanner

- For MAXI
- 55-B 035



## Stainless steel sink insert

- For MAXI
- 55-B 048



## Small industrial parts washing basket

55-B 087



## Casters

- For MAXI
- 55-B 049



# SPROUTS

**Tech tip!**  
 When transferring flammable liquids, always ensure containers are grounded and follow normal safety rules.

Description	Order No.
Spout for 5 L / 1.3 gal plastic pail	53-L 113 *
Spout for 20 L / 5.3 gal square plastic pail	53-L 207 *
Spout for 20 L / 5.3 gal round metal pail (plastic spout)	53-L 211 *
Spout for 20 L / 5.3 gal round metal pail and 200 L / 55 gal metal drum, (metal spout), 3/4" NPT	53-L 208 *
Spout for 208 L plastic drum and 200 L / 55 gal metal drum, 2" NPT	53-L 209
Spout for 200 L metal drum, 3/4" NPT	53-L 210 *

\* Allows to fill 500 ml trigger sprayer bottles or any other larger container directly.



## Metal drum pump

For use with lubricants or viscous liquids



Description	Order No.
Delivers 12 oz per stroke.	53-L 115

## Chrome plated drum pump

For use with aqueous or solvent based cleaners



Description	Order No.
Delivers 8 oz per stroke	53-L 116

## Hand Pump

For effective fluid transfer



Description	Order No.
Use with Bio-Circle®	55-B 051



# Product Listing

Order No.	Description	Page	Order No.	Description	Page
01A004	1/16 SST JOBBER QCK SHANK	123	01A023A	23/64 SST JOB Q/S, BLISTER	123
01A004A	1/16 SST JOBBER Q/S BLISTER	123	01A024	3/8 SST JOBBER QCK SHANK	123
01A005	5/64 SST JOBBER QCK SHANK	123	01A024A	3/8 SST JOB Q/S, BLISTER	123
01A005A	5/64 SST JOBBER Q/S BLISTER	123	01A025	25/64 SST JOBBER QCK SHANK	123
01A006	3/32 SST JOBBER QCK SHANK	123	01A025A	25/64 SST JOB Q/S, BLISTER	123
01A006A	3/32 SST JOBBER Q/S BLISTER	123	01A026	13/32 SST JOBBER QCK SHANK	123
01A007	7/64 SST JOBBER QCK SHANK	123	01A026A	13/32 SST JOB Q/S, BLISTER	123
01A007A	7/64 SST JOBBER Q/S BLISTER	123	01A027	27/64 SST JOBBER QCK SHANK	123
01A008	1/8 SST JOBBER QCK SHANK	123	01A027A	27/64 SST JOB Q/S, BLISTER	123
01A008A	1/8 SST JOBBER Q/S BLISTER	123	01A028	7/16 SST JOBBER QCK SHANK	123
01A009	9/64 SST JOBBER QCK SHANK	123	01A028A	7/16 SST JOB Q/S, BLISTER	123
01A009A	9/64 SST JOBBER Q/S BLISTER	123	01A029	29/64 SST JOBBER QCK SHANK	123
01A010	5/32 SST JOBBER QCK SHANK	123	01A029A	29/64 SST JOB Q/S, BLISTER	123
01A010A	5/32 SST JOBBER Q/S BLISTER	123	01A030	15/32 SST JOBBER QCK SHANK	123
01A011	11/64 SST JOBBER QCK SHANK	123	01A030A	15/32 SST JOB Q/S, BLISTER	123
01A011A	11/64 SST JOBBER Q/S BLISTER	123	01A031	31/64 SST JOBBER QCK SHANK	123
01A012	3/16 SST JOBBER QCK SHANK	123	01A031A	31/64 SST JOB Q/S, BLISTER	123
01A012A	3/16 SST JOBBER Q/S BLISTER	123	01A032	1/2 SST JOBBER QCK SHANK	123
01A013	13/64 SST JOBBER QCK SHANK	123	01A032A	1/2 SST JOB Q/S, BLISTER	123
01A013A	13/64 SST JOBBER Q/S BLISTER	123	01A501	1/64 SST+ DRILL BIT	124
01A014	7/32 SST JOBBER QCK SHANK	123	01A502	1/32 SST+ DRILL BIT	124
01A014A	7/32 SST JOBBER Q/S BLISTER	123	01A503	3/64 SST+ DRILL BIT	124
01A015	15/64 SST JOBBER QCK SHANK	123	01A504	1/16 SST+ DRILL BIT	124
01A015A	15/64 SST JOBBER Q/S BLISTER	228	01A505	5/64 SST+ DRILL BIT	124
01A016	1/4 SST JOBBER QCK SHANK	123	01A506	3/32 SST+ DRILL BIT	124
01A016A	1/4 SST JOBBER Q/S BLISTER	123	01A507	7/64 SST+ DRILL BIT	124
01A017	17/64 SST JOBBER QCK SHANK	123	01A508	1/8 SST+ DRILL BIT	124
01A017A	17/64 SST JOBBER Q/S BLISTER	123	01A509	9/64 SST+ DRILL BIT	124
01A018	9/32 SST JOBBER QCK SHANK	123	01A510	5/32 SST+ DRILL BIT	124
01A018A	9/32 SST JOBBER Q/S BLISTER	123	01A511	11/64 SST+ DRILL BIT	124
01A019	19/64 SST JOBBER QCK SHANK	123	01A512	3/16 SST+ DRILL BIT	124
01A019A	19/64 SST JOB Q/S, BLISTER	123	01A513	13/64 SST+ DRILL BIT	124
01A020	5/16 SST JOBBER QCK SHANK	123	01A514	7/32 SST+ DRILL BIT	124
01A020A	5/16 SST JOB Q/S, BLISTER	123	01A515	15/64 SST+ DRILL BIT	124
01A021	21/64 SST JOBBER QCK SHANK	123	01A516	1/4 SST+ DRILL BIT	124
01A021A	21/64 SST JOB Q/S, BLISTER	123	01A517	17/64 SST+ DRILL BIT	124
01A022	11/32 SST JOBBER QCK SHANK	123	01A518	9/32 SST+ DRILL BIT	124
01A022A	11/32 SST JOB Q/S, BLISTER	123	01A519	19/64 SST+ DRILL BIT	124
01A023	23/64 SST JOBBER QCK SHANK	123	01A520	5/16 SST+ DRILL BIT	124

Order No.	Description	Page	Order No.	Description	Page
01A521	21/64 SST+ DRILL BIT	124	01H117	17/64 HEX SST STUB DRILL	128
01A522	11/32 SST+ DRILL BIT	124	01H118	9/32 HEX SST STUB DRILL	128
01A523	23/64 SST+ DRILL BIT	124	01H119	19/64 HEX SST STUB DRILL	128
01A524	3/8 SST+ DRILL BIT	124	01H120	5/16 HEX SST STUB DRILL	128
01A525	25/64 SST+ DRILL BIT	124	01H121	21/64 HEX SST STUB DRILL	128
01A526	13/32 SST+ DRILL BIT	124	01H122	11/32 HEX SST STUB DRILL	128
01A527	27/64 SST+ DRILL BIT	124	01H123	23/64 HEX SST STUB DRILL	128
01A528	7/16 SST+ DRILL BIT	124	01H124	3/8 SST STUB QCK SHANK	128
01A529	29/64 SST+ DRILL BIT	124	01H125	25/64 HEX SST STUB DRILL	128
01A530	15/32 SST+ DRILL BIT	124	01H126	13/32 HEX SST STUB DRILL	128
01A531	31/64 SST+ DRILL BIT	124	01H127	27/64 HEX SST STUB DRILL	128
01A532	1/2 SST+ DRILL BIT	124	01H128	7/16 HEX SST STUB DRILL	128
01E118	#29 SST QUICK SHANK DRILL SET	127	01H125	29/64 HEX SST STUB DRILL	128
01E178	#29 SST QCK SHANK DRILL SET/PLASTIC BOX	127	01H130	15/32 HEX SST STUB DRILL	128
01E239	#29 SST+ STUB SET W BOX HEX SHANK	127	01H131	31/64 HEX SST STUB DRILL	125
01E606	#15SST+ DRILL SET W BOX	127	01H132	1/2 HEX SST STUB DRILL	125
01E618	#29 SST DRILL SET W BOX	127	01M533	33/64 SST PRENTICE DRILL	126
01E619	1-60 SST DRILL SET C/W BOX	127	01M534	17/32 SST PRENTICE DRILL	126
01E621	#21SST+ DRILL SET W BOX	127	01M535	35/64 SST PRENTICE DRILL	126
01E625	#25 SST+ METRIC SET W BOX	127	01M536	9/16 SST PRENTICE DRILL	126
01E678	#29 SST DRILL SET/PLASTICBOX	127	01M537	37/64 SST PRENTICE DRILL	126
01E708	SST PRENTICE DRILL SET	127	01M538	19/32 SST PRENTICE DRILL	126
01E818	#29 SST DRILL SET(3/8")	127	01M539	39/64 SST PRENTICE DRILL	126
01H004	1/16 SST STUB DRILL	125	01M540	5/8 SST PRENTICE DRILL	126
01H005	5/64 SST STUB DRILL	125	01M541	41/64 SST PRENTICE DRILL	126
01H006	3/32 SST STUB DRILL	125	01M542	21/32 SST PRENTICE DRILL	126
01H007	7/64 SST STUB DRILL	125	01M543	43/64 SST PRENTICE DRILL	126
01H008	1/8 SST STUB DRILL	125	01M544	11/16 SST PRENTICE DRILL	126
01H009	9/64 SST STUB DRILL	125	01M545	45/64 SST PRENTICE DRILL	126
01H010	5/32 SST STUB DRILL	125	01M546	23/32 SST PRENTICE DRILL	126
01H011	11/64 SST STUB DRILL	125	01M547	47/64 SST PRENTICE DRILL	126
01H012	3/16 SST STUB DRILL	125	01M548	3/4 SST PRENTICE DRILL	126
01H013	13/64 SST STUB DRILL	125	01M549	49/64 SST PRENTICE DRILL	126
01H014	7/32 SST STUB DRILL	125	01M550	25/32 SST PRENTICE DRILL	126
01H015	15/64 SST STUB DRILL	125	01M551	51/64 SST PRENTICE DRILL	126
01H016	1/4 SST STUB DRILL	125	01M552	13/16 SST PRENTICE DRILL	126
01H017	17/64 SST STUB DRILL	125	01M553	53/64 SST PRENTICE DRILL	126
01H018	9/32 SST STUB DRILL	125	01M554	27/32 SST PRENTICE DRILL	126
01H019	19/64 SST STUB DRILL	125	01M555	55/64 SST PRENTICE DRILL	126
01H020	5/16 SST STUB DRILL	125	01M556	7/8 SST PRENTICE DRILL	126
01H021	21/64 SST STUB DRILL	125	01M557	57/64 SST PRENTICE DRILL	126
01H022	11/32 SST STUB DRILL	125	01M558	29/32 SST PRENTICE DRILL	126
01H023	23/64 SST STUB DRILL	125	01M559	59/64 SST PRENTICE DRILL	126
01H024	3/8 SST STUB DRILL	125	01M560	15/16 SST PRENTICE DRILL	126
01H025	25/64 SST STUB DRILL	125	01M561	61/64 SST PRENTICE DRILL	126
01H026	13/32 SST STUB DRILL	125	01M562	31/32 SST PRENTICE DRILL	126
01H027	27/64 SST STUB DRILL	125	01M563	63/64 SST PRENTICE DRILL	126
01H028	7/16 SST STUB DRILL	125	01M600	1" SST PRENTICE DRILL	126
01H029	29/64 SST STUB DRILL	125	01M604	1-1/16 SST PRENTICE DRILL	126
01H030	15/32 SST STUB DRILL	125	01M608	1-1/8 SST PRENTICE DRILL	126
01H031	31/64 SST STUB DRILL	125	01M612	1-3/16 SST PRENTICE DRILL	126
01H032	1/2 SST STUB DRILL	125	01M616	1-1/4 SST PRENTICE DRILL	126
01H108	1/8 HEX SST STUB DRILL	128	01M617	1 5/16 SST PRENTICE DRILL	126
01H109	9/64 HEX SST STUB DRILL	128	01M618	1 3/8 SST PRENTICE DRILL	126
01H110	5/32 HEX SST STUB DRILL	128	01M619	1 7/16 SST PRENTICE DRILL	126
01H111	11/64 HEX SST STUB DRILL	128	01M620	1 1/2 SST PRENTICE DRILL	126
01H112	3/16 HEX SST STUB DRILL	128	01R225	25/64 SST DRILL BIT(3/8")	126
01H113	13/64 HEX SST STUB DRILL	128	01R226	13/32 SST DRILL BIT(3/8")	126
01H114	7/32 HEX SST STUB DRILL	128	01R227	27/64 SST DRILL BIT (3/8")	126
01H115	15/64 HEX SST STUB DRILL	128	01R228	7/16 SST DRILL BIT (3/8")	126
01H116	1/4 HEX SST STUB DRILL	128	01R229	29/64 SST DRILL BIT (3/8")	126



Order No.	Description	Page	Order No.	Description	Page
01R230	15/32 SST DRILL BIT (3/8")	126	01V060	WALTER CARBIDE BURR SC-1 NF	130
01R231	31/64 SST DRILL BIT (3/8")	126	01V061	WALTER CARBIDE BURR SC-3 NF	129
01R232	1/2 SST DRILL BIT (3/8")	126	01V062	WALTER CARBIDE BURR SC-6 DC	129
01R234	17/32 SST DRILL BIT (3/8)	126	01V063	WALTER CARBIDE BURR SF-3 NF	130
01R236	9/16 SST DRILL BIT (3/8)	126	01V064	WALTER CARBIDE BURR SE-5 NF	130
01R240	5/8 SST DRILL BIT (3/8)	126	01V065	WALTER CARBIDE BURR SF-3 DC	130
01V001	WALTER CARBIDE BURR SA-1 DC	129	01V066	WALTER CARBIDE BURR SF-6 DC	129
01V002	WALTER CARBIDE BURR SA-3 DC	129	01V067	WALTER CARBIDE BURR SK-3 DC	129
01V003	WALTER CARBIDE BURR SA-3 NF	130	01V068	WALTER CARBIDE BURR SK-5 DC	129
01V004	WALTER CARBIDE BURR SA-5 DC	129	01V069	WALTER CARBIDE BURR SL-4 NF	130
01V005	WALTER CARBIDE BURR SC-1 DC	129	01V070	WALTER CARBIDE BURR SN-1 DC	129
01V006	WALTER CARBIDE BURR SC-3 DC	129	01V071	WALTER CARBIDE BURR SN-2 DC	129
01V007	WALTER CARBIDE BURR SC-5 DC	129	01V072	WALTER CARBIDE BURR SN-4 DC	129
01V008	WALTER CARBIDE BURR SC-5 NF	130	01V073	WALTER SC-7 CARBIDE BURR DC	129
01V009	WALTER CARBIDE BURR SD-1 DC	129	01V601	WALTER CARBIDE BURR SA-1 DC L6	129
01V010	WALTER CARBIDE BURR SD-3 DC	129	01V602	WALTER CARBIDE BURR SA-3 DC L6	129
01V011	WALTER CARBIDE BURR SD-6 DC	129	01V604	WALTER CARBIDE BURR SA-5 DC L6	129
01V013	WALTER CARBIDE BURR SG-5 DC	129	01V605	WALTER CARBIDE BURR SC-1 DC -1	129
01V014	WALTER CARBIDE BURR SF-3 DC	129	01V606	WALTER CARBIDE BURR SC-3 DC L6	129
01V015	WALTER CARBIDE BURR SF-5 DC	129	01V607	WALTER CARBIDE BURR SC-5 DC L6	129
01V016	WALTER CARBIDE BURR SF-5 NF	130	01V609	WALTER CARBIDE BURR SD-1 DC L6	129
01V017	WALTER CARBIDE BURR SL-1 DC	129	01V610	WALTER CARBIDE BURR SD-3 DC L6	129
01V018	WALTER CARBIDE BURR SM-5 DC	129	01V613	WALTER CARBIDE BURR SG-5 DC L6	129
01V020	WALTER CARBIDE BURR SA-43 DC	130	01V614	WALTER CARBIDE BURR SF-3 DC L6	129
01V021	WALTER CARBIDE BURR SD-42 DC	130	01V615	WALTER CARBIDE BURR SF-5 DC L6	129
01V022	WALTER CARBIDE BURR SF-42 DC	130	01V626	WALTER CARBIDE BURR SD-5 DC L6	129
01V023	WALTER CARBIDE BURR SG-44 DC	130	01V631	WALTER CARBIDE BURR SL-3 DC L6	137
01V025	WALTER CARBIDE BURR SM-42 DC	130	01V641	WALTER CARBIDE BURR SF-1 DC L6	137
01V026	WALTER CARBIDE BURR SD-5 DC	130	01V644	WALTER CARBIDE BURR SG-1 DC L6	137
01V027	WALTER CARBIDE BURR SE-3 DC	129	01V646	WALTER CARBIDE BURR SG-3 DC L6	137
01V028	WALTER CARBIDE BURR SE-5 DC	129	01V652	WALTER CARBIDE BURR SL-5 DC L6	137
01V029	WALTER CARBIDE BURR SH-3 DC	129	01V990	WALTER CARBIDE BURR 5-PIECE KIT DC	130
01V030	WALTER CARBIDE BURR SH-5 DC	129	01V995	WALTER CARBIDE BURR 5-PIECE KIT NF	130
01V031	WALTER CARBIDE BURR SL-3 DC	129	01V996	WALTER CARBIDE BURR 10-PIECE KIT DC	130
01V032	WALTER CARBIDE BURR SL-4 DC	129	01W001	1/8-1/2 MULTI-STEP DRILL	128
01V033	WALTER CARBIDE BURR SC-5	130	01W005	3/16-7/8 MULTI-STEP DRILL	128
01V034	WALTER CARBIDE BURR SF-5	130	01W011	1/4-3/4 MULTI-STEP DRILL	128
01V035	WALTER CARBIDE BURR SL-4	130	01W012	1/4-1 1/8 MULTI-STEP DRILL	128
01V036	WALTER CARBIDE BURR SL-3 NF	130	01W021	3/16"-1/2" MULTI-STEP DRILL	128
01V037	WALTER CARBIDE BURR SA-2 DC	129	01W029	1/4"-1" MULTI-STEP DRILL	128
01V038	WALTER CARBIDE BURR SA-4 DC	129	01W101	1/8-1/2 MULTI-STEP DRILL	128
01V039	WALTER CARBIDE BURR SC-2 DC	129	01W105	3/16-7/8 MULTI-STEP DRILL	128
01V040	WALTER CARBIDE BURR SC-4 DC	129	01W111	1/4-3/4 MULTI-STEP DRILL	128
01V041	WALTER CARBIDE BURR SF-1 DC	129	01W112	1/4-1 1/8 MULTI-STEP DRILL	128
01V042	WALTER CARBIDE BURR SF-2 DC	129	01W951	MULTI-STEP DRILL SET	128
01V043	WALTER CARBIDE BURR SF-42 DC	129	04A254	2-1/2" FLAP DISC - GR40	107
01V044	WALTER CARBIDE BURR SG-1 DC	129	04A256	2-1/2" FLAP DISC - GR60	107
01V045	WALTER CARBIDE BURR SG-2 DC	129	04A258	2-1/2" FLAP DISC - GR80	107
01V046	WALTER CARBIDE BURR SG-3 DC	129	04A262	2-1/2" FLAP DISC - GR120	107
01V047	WALTER CARBIDE BURR SM-1 DC	129	04C203	2" TWIST COOLCUT XX - GR 36	108
01V048	WALTER CARBIDE BURR SM-2 DC	129	04C205	2" TWIST COOLCUT XX - GR 50	108
01V049	WALTER CARBIDE BURR SM-3 DC	129	04C206	2" TWIST COOLCUT XX - GR 60	108
01V050	WALTER CARBIDE BURR SM-4 DC	129	04C208	2" TWIST COOLCUT XX - GR 80	108
01V051	WALTER CARBIDE BURR SL-2 DC	129	04C212	2" TWIST COOLCUT XX - GR 120	108
01V052	WALTER CARBIDE BURR SL-5 DC	129	04C303	3" TWIST COOLCUT XX - GR 36	108
01V054	WALTER CARBIDE BURR SA-5 NF	130	04C305	3" TWIST COOLCUT XX - GR 50	108
01V055	WALTER CARBIDE BURR SA-6 DC	129	04C306	3" TWIST COOLCUT XX - GR 60	108
01V056	WALTER CARBIDE BURR SB-1 DC	129	04C308	3" TWIST COOLCUT XX - GR 80	108
01V057	WALTER CARBIDE BURR SB-3 DC	129	04C312	3" TWIST COOLCUT XX - GR 120	108
01V058	WALTER CARBIDE BURR SB-3 NF	130	04D203	2" TOPCUT DISC - GR 36	108
01V059	WALTER CARBIDE BURR SB-5 DC	129	04D205	2" TOPCUT DISC - GR 50	108

Order No.	Description	Page	Order No.	Description	Page
04D206	2" TOPCUT DISC - GR 60	108	05A311	11/16X2 SST CORECUT	133
04D208	2" TOPCUT DISC - GR 80	108	05A312	3/4X2 SST CORECUT	133
04D210	2" TOPCUT DISC - GR 100	108	05A313	13/16X2 SST CORECUT	133
04D212	2" TOPCUT DISC - GR 120	108	05A314	7/8X2 SST CORECUT	133
04D303	3" TOPCUT DISC - GR 36	108	05A315	15/16X2 SST CORECUT	133
04D305	3" TOPCUT DISC - GR 50	108	05A400	1"X2 SST CORECUT	133
04D306	3" TOPCUT DISC - GR 60	108	05A401	1-1/16X2 SST CORECUT	133
04D308	3" TOPCUT DISC - GR 80	108	05A402	1-1/8X2 SST CORECUT	133
04D310	3" TOPCUT DISC - GR 100	108	05A403	1-3/16X2 SST CORECUT	133
04D312	3" TOPCUT DISC - GR 120	108	05A404	1-1/4X2 SST CORECUT	133
04G202	2" BLENDEX TWIST - COARSE	108	05A405	1-5/16X2 SST CORECUT	133
04G203	2" BLENDEX TWIST - MED	108	05A406	1-3/8X2 SST CORECUT	133
04G204	2" BLENDEX TWIST - FINE	108	05A407	1-7/16X2 SST CORECUT	133
04G205	2" BLENDEX TWIST - S. FINE	108	05A408	1-1/2X2 SST CORECUT	133
04G302	3" BLENDEX TWIST - COARSE	108	05A409	1-9/16X2 SST CORECUT	133
04G303	3" BLENDEX TWIST - MED	108	05A410	1-5/8X2 SST CORECUT	133
04G304	3" BLENDEX TWIST - FINE	108	05A412	1-3/4X2 SST CORECUT	133
04G305	3" BLENDEX TWIST - S. FINE	108	05A413	1-13/16X2 SST CORECUT	133
04L200	2" FX DISC	109	05A414	1-7/8X2 SST CORECUT	133
04L300	3" FX DISC	109	05A415	1-15/16X2 SST CORECUT	133
04T204	TWIST FELT DISC	109	05A500	2"X2 SST CORECUT	133
04T304	TWIST FELT DISC	109	05A501	2 1/16" x 2" SST ICECUT	133
04U321	3" BLENDEX U TWIST-2SF	109	05A502	2 1/8" x 2" ICECUT	133
04U322	3" BLENDEX U TWIST-6SF	109	05A503	2 3/16 X 2 SST CORECUT	133
04U323	3" BLENDEX U TWIST-6AM	109	05A504	2 1/4 X 2 SST CORECUT	133
04X001	1/4"-20 SHAFT/TWIST	209	05A505	2 5/16 X 2 SST CORECUT	133
04X202	2" BACKING PAD - MED	107	05A506	2 3/8 X 2 SST CORECUT	133
04X203	2" BACKING PAD - HARD	107	05A611	11/16" x 3" SST CORECUT	133
04X302	3" BACKING PAD - MED	107	05A613	13/16" x 3" SST CORECUT	133
04X303	3" BACKING PAD - HARD	107	05A615	15/16" x 3" SST CORECUT	133
04Z992	TWIST STARTER KIT 2"	109	05A701	1-1/16" x 3" SST CORECUT	133
04Z993	TWIST STARTER KIT 3"	109	05B008	1/2 X 1 ICECUT	134
05A008	1/2 X 1 SST CORECUT	133	05B009	9/16X1 ICECUT	134
05A009	9/16X1 SST CORECUT	133	05B010	5/8X1 ICECUT	134
05A010	5/8X1 SST CORECUT	133	05B011	11/16X1 ICECUT	134
05A011	11/16 X 1 SST CORECUT	133	05B012	3/4X1 ICECUT	134
05A012	3/4X1 SST CORECUT	133	05B013	13/16X1 ICECUT	134
05A013	13/16X1 SST CORECUT	133	05B014	7/8X1 ICECUT	134
05A014	7/8X1 SST CORECUT	133	05B015	15/16X1 ICECUT	134
05A015	15/16X1 SST CORECUT	133	05B100	1"X1 ICECUT	134
05A100	1"X1 SST CORECUT	133	05B101	1-1/16X1 ICECUT	134
05A101	1-1/16X1 SST CORECUT	133	05B102	1-1/8X1 ICECUT	134
05A102	1-1/8X1 SST CORECUT	133	05B103	1-3/16X1 ICECUT	134
05A103	1-3/16X1 SST CORECUT	133	05B104	1-1/4X1 ICECUT	134
05A104	1-1/4X1 SST CORECUT	133	05B105	1-5/16X1 ICECUT	134
05A105	1-5/16X1 SST CORECUT	133	05B106	1-3/8X1 ICECUT	134
05A106	1-3/8X1 SST CORECUT	133	05B107	1-7/16X1 ICECUT	134
05A107	1-7/16X1 SST CORECUT	133	05B108	1-1/2X1 ICECUT	134
05A108	1-1/2X1 SST CORECUT	133	05B109	1-9/16X1 ICECUT	134
05A109	1-9/16X1 SST CORECUT	133	05B110	1-5/8X1 ICECUT	134
05A110	1-5/8X1 SST CORECUT	133	05B112	1-3/4X1 ICECUT	134
05A112	1-3/4X1 SST CORECUT	133	05B113	1-13/16X1 ICECUT	134
05A113	1 13/16 x 1 SST CORECUT	133	05B114	1-7/8X1 ICECUT	134
05A114	1-7/8X1 SST CORECUT	133	05B115	1-15/16X1 ICECUT	134
05A115	1-15/16X1 SST CORECUT	133	05B200	2"X1 ICECUT	134
05A200	2"X1 SST CORECUT	133	05B201	2 1/16 X 1 ICECUT	134
05A201	2"X 1/16x 1 SST CORECUT	133	05B202	2 1/8 X 1 ICECUT	134
05A202	2"X 1/8x 1 SST CORECUT	133	05B308	1/2 X 2 ICECUT	134
05A308	1/2 X 2 SST CORECUT	133	05B309	9/16X2 ICECUT	134
05A309	9/16X2 SST CORECUT	133	05B310	5/8X2 ICECUT	134
05A310	5/8X2 SST CORECUT	133	05B311	11/16X2 ICECUT	134

Order No.	Description	Page	Order No.	Description	Page
05B312	3/4X2 ICECUT	134	05D309	9/16X2 CARBIDE CORE CUT	135
05B313	13/16X2 ICECUT	134	05D310	5/8X2 CARBIDE CORE CUT	135
05B314	7/8X2 ICECUT	134	05D311	11/16X2 CARBIDE CORE CUT	135
05B315	15/16X2 ICECUT	134	05D312	3/4X2 CARBIDE CORE CUT	135
05B400	1"X2 ICECUT	134	05D313	13/16X2 CARBIDE CORE CUT	135
05B401	1-1/16X2 ICECUT	134	05D314	7/8X2 CARBIDE CORE CUT	135
05B402	1-1/8X2 ICECUT	134	05D315	15/16X2 CARBIDE CORE CUT	135
05B403	1-3/16X2 ICECUT	134	05D400	1"X2 CARBIDE CORECUT	135
05B404	1-1/4X2 ICECUT	134	05D401	1-1/16X2 CARBIDE CORE CUT	135
05B405	1-5/16X2 ICECUT	134	05D402	1-1/8X2 CARBIDE CORE CUT	135
05B406	1-3/8X2 ICECUT	134	05D403	1-3/16X2 CARBIDE CORE CUT	135
05B407	1-7/16X2 ICECUT	134	05D404	1-1/4X2 CARBIDE CORE CUT	135
05B408	1-1/2X2 ICECUT	134	05D405	1-5/16X2 CARBIDE CORE CUT	135
05B409	1-9/16X2 ICECUT	134	05D406	1-3/8X2 CARBIDE CORE CUT	135
05B410	1-5/8X2 ICECUT	134	05D407	1-7/16X2 CARBIDE CORE CUT	135
05B412	1-3/4X2 ICECUT	134	05D408	1-1/2X2 CARBIDE CORE CUT	135
05B413	1-13/16X2 ICECUT	134	05D409	1-9/16X2 CARBIDE CORE CUT	135
05B414	1-7/8X2 ICECUT	134	05D410	1-5/8X2 CARBIDE CORE CUT	135
05B415	1-15/16X2 ICECUT	134	05D412	1-3/4X2 CARBIDE CORE CUT	135
05B500	2"X2 ICECUT	134	05D413	1-13/16X2 CARBIDE CORE CUT	135
05B501	2 1/16" x 2" ICECUT	134	05D414	1-7/8X2 CARBIDE CORE CUT	135
05B502	2 1/8" x 2" ICECUT	134	05D415	1-15/16X2 CARBIDE CORE CUT	135
05B503	2 3/16 X 2 ICECUT	134	05D500	2"X2 CARBIDE CORE CUT	135
05B504	2 1/4X 2 ICECUT	134	05D501	2 1/16 X2 CARBIDE CORE CUT	135
05B505	2 5/16 X 2 ICECUT	134	05D502	2 1/8 X 2 CARBIDE CORE CUT	135
05B506	2 3/8 X 2 ICECUT	134	05D503	2 3/16 X 2 CARBIDE CORE CUT	135
05B611	11/16" X 3" ICECUT	134	05D504	2 1/4X 2 CARBIDE CORE CUT	135
05B613	13/16" X 3" ICECUT	134	05D505	2 5/16 X 2 CARBIDE CORE CUT	135
05B615	15/16" X 3" ICECUT	134	05D506	2 3/8 X 2 CARBIDE CORE CUT	135
05B701	1-1/16" X 3" ICECUT	134	05D507	2-7/16" X 2" CARBIDE CORE CUT	135
05B811	11/16" X 4" ICECUT	134	05D508	2-1/2" X 2" CARBIDE CORE CUT	135
05B813	13/16" X 4" ICECUT	134	05D509	2-9/16" X 2" CARBIDE CORE CUT	135
05B815	15/16" X 4" ICECUT	134	05D510	2-5/8" X 2" CARBIDE CORE CUT	135
05B901	1-1/16" X 4" ICECUT	134	05D512	2-3/4" X 2" CARBIDE CORE CUT	135
05D008	1/2 X 1.5 CARBIDE CORE CUT	135	05D514	2-7/8" X 2" CARBIDE CORE CUT	135
05D009	9/16X1.5 CARBIDE CORE CUT	135	05D532	3" X 2" CARBIDE CORE CUT	135
05D010	5/8X1.5 CARBIDE CORE CUT	135	05D536	3-1/4" X 2" CARBIDE CORE CUT	135
05D011	11/16X1.5 CARBIDE CORE CUT	135	05D540	3-1/2" X 2" CARBIDE CORE CUT	135
05D012	3/4X1 .5CARBIDE CORE CUT	135	05D544	3-3/4" X 2" CARBIDE CORE CUT	135
05D013	13/16 X 1.5 CARBIDE CORE CUT	135	05D548	4" X 2" CARBIDE CORE CUT	135
05D014	7/8 X 1.5 CARBIDE CORE CUT	135	05D613	13/16" X 3" CARBIDE CORE CUT	135
05D015	15/16 X 1.5 CARBIDE CORE CUT	135	05D615	15/16" X 3" CARBIDE CORE CUT	135
05D100	1" X 1.5 CARBIDE CORE CUT	135	05D700	1X3" CARBIDE CORE CUT ANNULAR CUTTER	135
05D101	1-1/16X1.5 CARBIDE CORE CUT	135	05D701	1-1/16" X 3" CARBIDE CORE CUT	135
05D102	1-1/8X1.5 CARBIDE CORE CUT	135	05D716	2" X 3" CARBIDE CORE CUT	135
05D103	1-3/16X1.5 CARBIDE CORE CUT	135	05D720	2-1/4" X 3" CARBIDE CORE CUT	135
05D104	1-1/4X1.5 CARBIDE CORE CUT	135	05D724	2-1/2" X 3" CARBIDE CORE CUT	135
05D105	1-5/16X1.5 CARBIDE CORE CUT	135	05D725	2-9/16" X 3" CARBIDE CORE CUT	135
05D106	1-3/8X1.5 CARBIDE CORE CUT	135	05D728	2-3/4" X 3" CARBIDE CORE CUT	135
05D107	1-7/16X1.5 CARBIDE CORE CUT	135	05D732	3" X 3" CARBIDE CORE CUT	135
05D108	1-1/2X1.5 CARBIDE CORE CUT	135	05D736	3-1/4" X 3" CARBIDE CORE CUT	135
05D109	1-9/16X1.5 CARBIDE CORE CUT	135	05D740	3-1/2" X 3" CARBIDE CORE CUT	135
05D110	1-5/8X1.5 CARBIDE CORE CUT	135	05D744	3-3/4" X 3" CARBIDE CORE CUT	135
05D112	1-3/4X1.5 CARBIDE CORE CUT	135	05D748	4" X 3" CARBIDE CORE CUT	135
05D113	1-13/16X1.5 CARBIDE CORE CUT	135	05D812	3/4" X 4" CARBIDE CORE CUT	135
05D114	1-7/8X1.5 CARBIDE CORE CUT	135	05D813	13/16" X 4" CARBIDE CORE CUT	135
05D115	1-15/16X1.5 CARBIDE CORE CUT	135	05D815	15/16" X 4" CARBIDE CORE CUT	135
05D200	2"X1.5 CARBIDE CORE CUT	135	05D900	1X4" CARBIDE CORE CUT ANNULAR CUTTER	135
05D201	2 1/16 X 1.5 CARBIDE CORE CUT	135	05D901	1-1/16" X 4" CARBIDE CORE CUT	135
05D202	2 1/8 X 1.5 CARBIDE CORE CUT	135	05D916	2" X 4" CARBIDE CORE CUT	135
05D308	1/2 X 2 CARBIDE CORE CUT	135	05D920	2-1/4" X 4" CARBIDE CORE CUT	135

Order No.	Description	Page	Order No.	Description	Page
05D924	2-1/2" X 4" CARBIDE CORE CUT	135	05F309	9/16" X 2" DEPTH ICECUT UNIV. SHANK	134
05D925	2-9/16" X 4" CARBIDE CORE CUT	135	05F310	5/8" X 2" DEPTH ICECUT UNIV. SHANK	134
05D928	2-3/4" X 4" CARBIDE CORE CUT	135	05F311	11/16" X 2" DEPTH ICECUT UNIV. SHANK	134
05D932	3" X 4" CARBIDE CORE CUT	135	05F312	3/4" X 2" DEPTH ICECUT UNIV. SHANK	134
05D936	3-1/4" X 4" CARBIDE CORE CUT	135	05F313	13/16" X 2" DEPTH ICECUT UNIV. SHANK	134
05E007	7/16" X 1" DEPTH SST CORECUT UNIV. SHANK	133	05F314	7/8" X 2" DEPTH ICECUT UNIV. SHANK	134
05E008	1/2" X 1" DEPTH SST CORECUT UNIV. SHANK	133	05F315	15/16" X 2" DEPTH ICECUT UNIV. SHANK	134
05E009	9/16" X 1" DEPTH SST CORECUT UNIV. SHANK	133	05F400	1" X 2" DEPTH ICECUT UNIV. SHANK	134
05E010	5/8" X 1" DEPTH SST CORECUT UNIV. SHANK	133	05F401	1-1/16" X 2" DEPTH ICECUT UNIV. SHANK	134
05E011	11/16"X1" DEPTH SST CORECUT UNIV. SHANK	133	05F402	1-1/8" X 2" DEPTH ICECUT UNIV. SHANK	134
05E012	3/4" X 1" DEPTH SST CORECUT UNIV. SHANK	133	05F403	1-3/16" X 2" DEPTH ICECUT UNIV. SHANK	134
05E013	13/16"X1" DEPTH SST CORECUT UNIV. SHANK	133	05F404	1-1/4" X 2" DEPTH ICECUT UNIV. SHANK	134
05E014	7/8" X 1" DEPTH SST CORECUT UNIV. SHANK	133	05F405	1-5/16" X 2" DEPTH ICECUT UNIV. SHANK	134
05E015	15/16"X1" DEPTH SST CORECUT UNIV. SHANK	133	05F406	1-3/8" X 2" DEPTH ICECUT UNIV. SHANK	134
05E100	1" X 1" DEPTH SST CORECUT UNIV. SHANK	133	05F407	1-7/16" X 2" DEPTH ICECUT UNIV. SHANK	134
05E101	1-1/16"X1" DEPTH SST CORECUT UNIV. SHANK	133	05F408	1-1/2" X 2" DEPTH ICECUT UNIV. SHANK	134
05E102	1-1/8"X1" DEPTH SST CORECUT UNIV. SHANK	133	05H008	1/2" X 1" CH-TOOLS DNTK-2	135
05E103	1-3/16"X1" DEPTH SST CORECUT UNIV. SHANK	133	05H009	9/16X1" CH-TOOLS DNTK-2	135
05E104	1-1/4"X1" DEPTH SST CORECUT UNIV. SHANK	133	05H010	5/8" X 1" DEPTH CARBIDE UNIVERSAL SHANK	135
05E105	1-5/16"X1" DEPTH SST CORECUT UNIV. SHANK	133	05H011	11/16"X1" DEPTH CARBIDE UNIVERSAL SHANK	135
05E106	1-3/8"X1" DEPTH SST CORECUT UNIV. SHANK	133	05H012	3/4"X1" DEPTH CARBIDE UNIVERSAL SHANK	135
05E107	1-7/16"X1" DEPTH SST CORECUT UNIV. SHANK	133	05H013	13/16"X1" DEPTH CARBIDE UNIVERSAL SHANK	135
05E108	1-1/2"X1" DEPTH SST CORECUT UNIV. SHANK	133	05H014	7/8"X1" DEPTH CARBIDE UNIVERSAL SHANK	135
05E308	1/2" X 2" DEPTH SST CORECUT UNIV. SHANK	133	05H015	15/16"X1" DEPTH CARBIDE UNIVERSAL SHANK	135
05E309	9/16" X 2" DEPTH SST CORECUT UNIV. SHANK	133	05H100	1"X1" DEPTH CARBIDE UNIVERSAL SHANK	135
05E310	5/8" X 2" DEPTH SST CORECUT UNIV. SHANK	133	05H101	1-1/16"X1" DEPTH CARBIDE UNIV. SHANK	135
05E311	11/16"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H102	1-1/8"X1" DEPTH CARBIDE UNIV. SHANK	135
05E312	3/4"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H103	1-3/16"X1" DEPTH CARBIDE UNIV. SHANK	135
05E313	13/16"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H104	1-1/4"X1" DEPTH CARBIDE UNIV. SHANK	135
05E314	7/8"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H105	1-5/16"X1" DEPTH CARBIDE UNIV. SHANK	135
05E315	15/16"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H106	1-3/8"X1" DEPTH CARBIDE UNIV. SHANK	135
05E400	1" X 2" DEPTH SST CORECUT UNIV. SHANK	133	05H107	1-7/16"X1" DEPTH CARBIDE UNIV. SHANK	135
05E401	1-1/16"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H108	1-1/2"X1" DEPTH CARBIDE UNIV. SHANK	135
05E402	1-1/8"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H308	1/2"X2" DEPTH CARBIDE UNIV. SHANK	135
05E403	1-3/16"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H309	9/16"X2" DEPTH CARBIDE UNIV. SHANK	135
05E404	1-1/4"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H310	5/8"X2" DEPTH CARBIDE UNIV. SHANK	135
05E405	1-5/16"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H311	11/16"X2" DEPTH CARBIDE UNIV. SHANK	135
05E406	1-3/8"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H312	3/4"X2" DEPTH CARBIDE UNIV. SHANK	135
05E407	1-7/16"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H313	13/16"X2" DEPTH CARBIDE UNIV. SHANK	135
05E408	1-1/2"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H314	7/8"X2" DEPTH CARBIDE UNIV. SHANK	135
05E409	1-9/16"X2" DEPTH SST CORECUT UNIV. SHANK	133	05H315	15/16"X2" DEPTH CARBIDE UNIV. SHANK	135
05F007	7/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05H400	1"X2" DEPTH CARBIDE UNIV. SHANK	135
05F008	1/2" X 1" DEPTH ICECUT UNIV. SHANK	134	05H401	1-1/16"X2" DEPTH CARBIDE UNIV. SHANK	135
05F009	9/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05H402	1-1/8"X2" DEPTH CARBIDE UNIV. SHANK	135
05F010	5/8" X 1" DEPTH ICECUT UNIV. SHANK	134	05H403	1-3/16"X2" DEPTH CARBIDE UNIV. SHANK	135
05F011	11/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05H404	1-1/4"X2" DEPTH CARBIDE UNIV. SHANK	135
05F012	3/4" X 1" DEPTH ICECUT UNIV. SHANK	134	05H405	1-5/16"X2" DEPTH CARBIDE UNIV. SHANK	135
05F013	13/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05H406	1-3/8"X2" DEPTH CARBIDE UNIV. SHANK	135
05F014	7/8" X 1" DEPTH ICECUT UNIV. SHANK	134	05H407	1-7/16"X2" DEPTH CARBIDE UNIV. SHANK	135
05F015	15/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05H408	1-1/2"X2" DEPTH CARBIDE UNIV. SHANK	135
05F100	1" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z001	1" PILOT PIN SST CORE CUT/ICECUT	136
05F101	1-1/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z002	2" PILOT PIN SST CORE CUT/ ICECUT	136
05F102	1-1/8" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z010	#2 MORSE TAPER SHANK ADAPTOR	136
05F103	1-3/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z011	#3 MORSE TAPER SHANK ADAPTOR	136
05F104	1-1/4" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z012	#2 MORSE TAPER SHANK ADAPTOR	136
05F105	1-5/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z013	#3 MORSE TAPER SHANK ADAPTOR	136
05F106	1-3/8" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z014	FEIN ADAPTER	136
05F107	1-7/16" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z015	NITTO ADAPTER	136
05F108	1-1/2" X 1" DEPTH ICECUT UNIV. SHANK	134	05Z018	3" PIN SST CORE CUT	136
05F307	7/16" X 2" DEPTH ICECUT UNIV. SHANK	134	05Z019	CENTER PIN 1 1/2 in < 3/4 in diameter	136
05F308	1/2" X 2" DEPTH ICECUT UNIV. SHANK	134	05Z020	CENTER PIN 1-1/2",larger than3/4" dia.	136

Order No.	Description	Page	Order No.	Description	Page
05Z021	CENTER PIN 2 in < 3/4 in diameter	136	07B204	4"X30' BLENDX ROLL-GREY	84
05Z022	CENTER PIN 2",larger than3/4" dia.	136	07B304	4"X30' BLENDX ROLL-TAN	84
05Z023	EXTENSION FOR CORE CUTTER 1"	136	07B404	4"X30' BLENDX ROLL-GREEN	84
05Z024	EXTENSION FOR CORE CUTTER 2"	136	07B504	4"X30' BLENDX ROLL-WHITE	84
05Z025	CENTER PIN FOR EXTENSION CORE CUTTER 1"	136	07C006	EXTENSION 5/8"-11 /FX	104
05Z026	CENTER PIN FOR EXTENSION CORE CUTTER 2"	136	07D032	1/2X18 BLENDX PLUS-COARSE	96
05Z031	PILOT PIN 4" DOC FOR 3/4" WELDON SHANK	136	07D033	1/2X18 BLENDX PLUS-MEDIUM	96
05Z032	2-PIECE PILOT PIN 3" DOC FOR 3/4" WELDON	136	07D034	1/2X18 BLENDX PLUS-V-FINE	96
05Z033	2-PIECE PILOT PIN 4" DOC FOR 3/4" WELDON	136	07D052	1/2X24 BLENDX PLUS-COARSE	96
05Z034	PILOT PIN 2" DOC FOR 1-1/4" WELDON SHANK	136	07D053	1/2X24 BLENDX PLUS-MEDIUM	96
05Z035	PILOT PIN 3" DOC FOR 1-1/4" WELDON SHANK	136	07D054	1/2X24 BLENDX PLUS-VFINE	96
05Z036	PILOT PIN 4" DOC FOR 1-1/4" WELDON SHANK	136	07D102	3/4X18 BLENDX PLUS-COARSE	96
05Z037	#3 MORSE TAPER ADAPTOR WITH 1-1/4" WELDO	136	07D103	3/4X18 BLENDX PLUS-MEDIUM	96
06A452	4-1/2 X 5/8 ENDUROFLEX TURBO	71	07D104	3/4X18 BLENDX PLUS-VFINE	96
06A458	4-1/2" X 5/8"-11 GR80 ENDURO-FLEX TURBO	71	07D122	3/4X24 BLENDX PLUS-COARSE	96
06A462	4-1/2 X 7/8 ENDUROFLEX TURBO	71	07D123	3/4X24 BLENDX PLUS-MEDIUM	96
06A502	5 X 5/8-11 ENDUROFLEX TURBO	71	07D124	3/4X24 BLENDX PLUS-VFINE	96
06A508	5" X 5/8"-11 GR80 ENDURO-FLEX TURBO	71	07D152	30X1-1/2" BLENDX BELT-COARSE	95
06A512	5 X 7/8 ENDUROFLEX TURBO	71	07D153	30X1-1/2" BLENDX BELT-MEDIUM	95
06A602	6 X 5/8-11 ENDUROFLEX TURBO	71	07D154	30X1-1/2" BLENDX BELT- FINE	95
06A712	7" X 7/8" ENDUROFLEX TURBO	71	07F002	BELT DRIVE ROLLER	92
06B454	4-1/2 GR40 ENDURO-FLEX, SPIN-ON	67	07F013	VALVE ASSEMBLY	91
06B456	4-1/2 GR60 ENDURO-FLEX, SPIN-ON	67	07F014	HAND PUMP	91
06B458	4-1/2 GR80 ENDURO-FLEX, SPIN-ON	67	07F037	3-1/2" DRUM-SOFT / 5/8-11	91
06B462	4-1/2 GR120 ENDURO-FLEX, SPIN-ON	67	07F051	5-1/4" DRUM-SOFT / 5/8-11	91
06B504	5" GR40 ENDURO-FLEX, SPIN-ON	67	07F093	3-1/2" REPL. BLADDER	91
06B506	5" GR60 ENDURO-FLEX, SPIN-ON	67	07F095	5-1/4" REPL. BLADDER	91
06B508	5" GR80 ENDURO-FLEX, SPIN-ON	67	07F364	3.5"X15.5" GR40 DRUM BELT	91
06B512	5" GR120 ENDURO-FLEX, SPIN-ON	67	07F366	3.5"X15.5" GR60 DRUM BELT	91
06B604	6" GR40 ENDURO-FLEX, SPIN-ON	67	07F368	3.5"X15.5" GR80 DRUM BELT	91
06B606	6" GR60 ENDURO-FLEX, SPIN-ON	67	07F371	3.5"X15.5" GR120 DRUM BELT	91
06B608	6" GR80 ENDURO-FLEX, SPIN-ON	67	07F504	5-3/8" GR40 DRUM BELT	91
06B612	6" GR120 ENDURO-FLEX, SPIN-ON	67	07F506	5-3/8" GR60 DRUM BELT	91
06F454	4-1/2 GR40 ENDURO-FLEX-ST, SPIN-ON	68	07F508	5-3/8" GR80 DRUM BELT	91
06F456	4-1/2 GR60 ENDURO-FLEX-ST, SPIN-ON	68	07F511	5-3/8" GR120 DRUM BELT	91
06F458	4-1/2 GR80 ENDURO-FLEX-ST, SPIN-ON	68	07H242	BLENDX STRIP BELT-COARSE	92
06F462	4-1/2 GR120 ENDURO-FLEX-ST, SPIN-ON	68	07H243	BLENDX STRIP BELT-MEDIUM	92
06F504	5" GR40 ENDURO-FLEX-ST, SPIN-ON	68	07H244	BLENDX STRIP BELT-FINE	92
06F506	5" GR60 ENDURO-FLEX-ST, SPIN-ON	68	07H245	BLENDX STRIP BELT-S FINE	92
06F508	5" GR80 ENDURO-FLEX-ST, SPIN-ON	68	07H362	3.5X15.5"BLEND.DRUM BELT/C	91
06F512	5" GR120 ENDURO-FLEX-ST, SPIN-ON	68	07H363	3.5X15.5"BLEND.DRUM BELT/M	91
06F604	6" GR40 ENDURO-FLEX-ST, SPIN-ON	68	07H364	3.5X15.5"BLEND.DRUM BELT/F	91
06F606	6" GR60 ENDURO-FLEX-ST, SPIN-ON	68	07H365	3.5X15.5"BLEND DRUM BELTSF	91
06F608	6" GR80 ENDURO-FLEX-ST, SPIN-ON	68	07H502	5-3/8" BLENDX DRUM BELT/C	91
06F612	6" GR120 ENDURO-FLEX-ST, SPIN-ON	68	07H503	5-3/8" BLENDX DRUM BELT/M	91
06U454	4-1/2 GR40 ENDURO-FLEX ALU, SPIN-ON	65	07H504	5-3/8" BLENDX DRUM BELT/F	91
06U456	4-1/2 GR60 ENDURO-FLEX ALU, SPIN-ON	65	07H505	5-3/8"BLENDX DRUM BELT/SF	91
06U458	4-1/2 GR80 ENDURO-FLEX ALU, SPIN-ON	65	07H992	HAND RAIL STARTER KIT	92
06U504	5" GR40 ENDURO-FLEX ALU, SPIN-ON	65	07J424	4-1/4X2 GR.40 FLAP DRUM	89
06U506	5" GR60 ENDURO-FLEX ALU, SPIN-ON	65	07J426	4-1/4X2 GR.60 FLAP DRUM	89
06U508	5" GR80 ENDURO-FLEX ALU, SPIN-ON	65	07J428	4-1/4X2 GR.80 FLAP DRUM	89
06U604	6" GR40 ENDURO-FLEX ALU, SPIN-ON	65	07J432	4-1/4X2 GR.120 FLAP DRUM	89
06U606	6" GR60 ENDURO-FLEX ALU, SPIN-ON	65	07J444	4-1/4X4 GR.40 FLAP DRUM	89
06U608	6" GR80 ENDURO-FLEX ALU, SPIN-ON	65	07J446	4-1/4X4 GR.60 FLAP DRUM	89
07A001	BLENDX PAD HOLDER	84	07J448	4-1/4X4 GR.80 FLAP DRUM	89
07A100	6X9 BLENDX PAD-MAROON	84	07J452	4-1/4X4 GR.120 FLAP DRUM	89
07A200	6X9 BLENDX PAD-GREY	84	07K322	4-1/4" X 2" X 5/8"-11 TWO-IN-ONE DRUM	89
07A300	6X9 BLENDX PAD-TAN	84	07K342	4-1/4" X 4" X 5/8"-11 TWO-IN-ONE DRUM	89
07A400	6X9 BLENDX PAD-GREEN	84	07K421	4-1/2X2X5/8-11" TWO-IN-ONE TURBO DRUM	89
07A500	6X9 BLENDX PAD-WHITE	84	07K422	4X2" TWO-IN-ONE DRUM	89
07B104	4"X30' BLENDX ROLL-MAROON	84	07K441	4-1/2X4X5/8-11" TWO-IN-ONE TURBO DRUM	89

Order No.	Description	Page	Order No.	Description	Page
07K442	4-1/2X4" TWO-IN-ONE DRUM	89	07R604	6" QS BLENDEX/FINE	101
07L420	4X2" FX DRUM	93	07R700	7" QS BLENDEX - XCOARSE	101
07L422	4X2" FX DRUM	93	07R702	7" QS BLENDEX/COARSE	101
07L440	4X4" FX DRUM	93	07R703	7" QS BLENDEX/MEDIUM	101
07L441	4X4" FX DRUM	93	07R704	7" QS BLENDEX/FINE	101
07L442	4X4" FX DRUM	93	07T100	STAINLESS STEEL TAPE, SELFSTICK	90
07M322	4-1/4" X 2" X 5/8"-11 COARSE BLENDEX DRU	90	07T220	30"X1-1/2" HIGH POLISH BELT	95
07M323	4-1/4" X 2" X 5/8"-11 MEDIUM BLENDEX DRU	90	07T225	FELT T-LOCK BELT	92
07M324	4-1/4" X 2" X 5/8"-11 FINE BLENDEX DRUM	90	07T334	3-1/2" HIGH POLISH DRUM BELT	90
07M342	4-1/4" X 4" X 5/8"-11 COARSE BLENDEX DRU	90	07T336	3-1/2" INSTANT POLISH DRUM BELT	92
07M343	4-1/4" X 4" X 5/8"-11 MEDIUM BLENDEX DRU	90	07T425	4-3/4X2X5/8" BUFFING DRUM	90
07M344	4-1/4" X 4" X 5/8"-11 FINE BLENDEX DRUM	90	07T450	4-1/2"QUICK STEP FELT DISC	101
07M411	4-1/2 HD BLENDEX DRUM	90	07T452	4-1/2" INSTANT POLISH DISC	103
07M422	4-1/2X2BLENDEX DRUM-COARSE	90	07T453	4-1/2" X 5/8"-11 ULTIMATE SHINE DISC	103
07M423	4-1/2X2" BLENDEX DRUM-MED	90	07T454	4-1/2"QS HIGH POLISH DISC	101
07M424	4-1/2X2X5/8-11 BLENDEX DRUM-FINE	90	07T456	4-1/2"QS INSTANT POLISH DISC	101
07M425	4-1/2X2X5/8-11 BLENDEX DRUM-SF	90	07T457	4-1/2 INSTANT POLISH DISC	101
07M442	4-1/2X4BLENDEX DRUM-COARSE	90	07T502	5" X 5/8"-11 INSTANT POLISH DISC	103
07M443	4-1/2X4" BLENDEX DRUM-MED	90	07T503	5" ULTIMATE SHINE DISC	103
07M444	4-1/2X4" BLENDEX DRUM-FINE	90	07T504	5" QS HIGH POLISH DISC	101
07M445	4-1/2X4"BLENDEX DRUM-SFINE	90	07T505	5 X 5/8-11 FELT CUP DISC	103
07M446	4-1/2 HG BLENDEX DRUM	90	07T506	5" QS INSTANT POLISH DISC	101
07Q001	QS SPACER WASHER	100	07T507	5" QS INSTANT POLISH DISC	101
07Q044	4" QS BACKING PAD 5/8"-11	98	07T530	5-3/8" FELT DRUM BELT	90
07Q045	4-1/2" QS INTERFACE PAD	100	07T534	5-3/8" HIGH POLISH DRUM BELT	90
07Q049	4-1/2" QS PAD 5/8"-11	98	07T536	5-3/8" INSTANT POLISH DRUM BELT	92
07Q050	5" QS INTERFACE PAD	100	07T600	6" QUICK STEP FELT DISC	101
07Q054	5" QS PAD 5/8"-11	98	07T602	6" X 7/8" FELT WHEEL	101
07Q060	6" QS INTERFACE PAD DISC	100	07T604	6" QS HIGH POLISH DISC	101
07Q064	6" QS BACKING PAD 5/8"-11	98	07T700	7" QUICK STEP FELT DISC	101
07Q070	7" QS INTERFACE PAD DISC	100	07T704	7" QS HIGH POLISH DISC	101
07Q074	7" QS BACKING PAD 5/8"-11	98	07T901	WHITE POLISHING PASTE	95
07Q149	4-1/2" QS MG PAD 5/8"-11	98	07T905	MIRROR-FINISH PASTE/BLUE	95
07Q154	5" QS MG BACKING PAD	98	07T907	INSTANT POLISH PASTE	95
07Q164	6" QS MG BACKING PAD	98	07U101	BLENDEX-U, 3/8 x 1-1/4 x 1/4, 2SF	102
07Q174	7" QS MG BACKING PAD	98	07U102	BLENDEX-U, 3/8 x 1-1/4 x 1/4, 6SF	102
07Q454	4-1/2 GR40 QS FLAP DISC	99	07U103	BLENDEX-U, 3/8 x 1-1/4 x 1/4, 6AM	102
07Q456	4-1/2 GR60 QS BLENDER DISC	99	07U321	3X1/4X3/8 BLENDEX U, 2SF	102
07Q458	4-1/2 GR80 QS FLAP DISC	99	07U322	3X1/4X3/8 BLENDEX U , 6SF	102
07Q462	4-1/2 GR120 QS FLAP DISC	99	07U323	3X1/4X3/8 BLENDEX U, 6AM	102
07Q504	5" GR40 QS FLAP DISC	99	07U451	4-1/2"X5/8"-11 BLENDEX U CUP	102
07Q506	5" GR60 QS FLAP DISC	99	07U501	5"X5/8"-11 BLENDEX U CUP	102
07Q508	5" GR80 QS FLAP DISC	99	07U611	6X1X1 BLENDEX U, 2SF	102
07Q512	5" GR120 QS FLAP DISC	99	07U612	6X1X1 - BLENDEX U, 6SF	102
07Q604	6" GR40 QS FLAP DISC	99	07U613	6X1X1 - BLENDEX U, 6AM	102
07Q606	6" GR60 QS FLAP DISC	99	07U615	6 X 1/16 X 7/8" BLENDEX U TURBO	105
07Q608	6" GR80 QS FLAP DISC	99	07U621	6X1/4X1 BLENDEX U, 2SF	102
07Q612	6" GR120 QS FLAP DISC	99	07U622	6X1/4X1 BLENDEX U, 6SF	102
07Q953	QUICK-STEP TRIAL PACK-5/8"	105	07U623	6X1/4X1 BLENDEX U, 6AM	102
07R450	4-1/2" QS BLENDEX - XCOARSE	101	07U625	6X1/4X7/8 BLENDEX U TURBO	105
07R452	4-1/2" QS BLENDEX/COARSE	101	07U651	6X1/2X1 BLENDEX U, 2SF	102
07R453	4-1/2" QS BLENDEX/MEDIUM	101	07U652	6X1/2X1 - BLENDEX U, 6SF	102
07R454	4-1/2" QS BLENDEX/FINE	101	07U653	6X1/2X1 - BLENDEX U, 6AM	102
07R455	4-1/2" QS BLENDEX/S FINE	101	07X003	8MM X 1/2 MANDREL /4" FX	104
07R500	5" QS BLENDEX - XCOARSE	101	07X004	1/4 X 1/2 MANDREL/4" FX	104
07R502	5" QS BLENDEX/COARSE	101	07X005	8MM X 1/2 MANDREL / 6" FX	104
07R503	5" QS BLENDEX/MEDIUM	101	07X006	1/4 X 1/2 MANDREL/6" FX	104
07R504	5" QS BLENDEX/FINE	101	07X008	1/4 X 7/8 MANDREL/6" FX	104
07R600	6" QS BLENDEX - XCOARSE	101	07X120	2 x 1" FX MOUNTED	104
07R602	6" QS BLENDEX/COARSE	101	07X450	4-1/2X3/4X5/8-11 FX CUP WHEEL	104
07R603	6" QS BLENDEX/MEDIUM	101	07X452	4-1/2 FX STAINLESS CUP WHEEL, SPIN-ON	104

Order No.	Description	Page	Order No.	Description	Page
07X502	5" FX STAINLESS CUP WHEEL, SPIN-ON	104	08F450	4-1/2X1/4 A30SS SPIN-ON WHEELS	56
07X505	5"X3/4X5/8-11 FX CUP WHEEL	104	08F451	4-1/2X1/4 TYPE 28 SS SPIN-ON	56
07X640	4X1/2" FX CLEANING WHEEL	104	08F455	4-1/2X1/4X5/8-11 SS SPIN-ON	56
07X660	6X1/2" FX CLEANING WHEEL	104	08F452	4-1/2X1/8 A30SS SPIN-ON WHEEL	56
07X661	6" X 1/2" X 7/8" FX STAINLESS WHEEL	105	08F460	4-1/2X1/4X7/8 A30SS GR WHEELS	56
07X662	6" X 1/4" X 7/8" FX STAINLESS WHEEL	105	08F462	4-1/2X1/8X7/8 A30SS STST WHEEL	56
07X663	6X1" FX STAINLESS WHEEL, 7/8" ARBOR	105	08F500	5X1/4 A30SS SPIN-ON GR WHEELS	56
07X845	4-1/2 QUICK-STEP FX DISC	99	08F501	5X1/4 TYPE 28 SS SPIN-ON	56
07X860	6X5/8" QUICK-STEP FX DISC	99	08F502	5X1/8 A30SS SPIN-ON WHEELS	56
07Z005	SPACER/WASHER-14MM SPINDLE	100	08F510	5X1/4X7/8 A30SS GR WHEELS	56
08B001	THROW-AWAY ADAPTORS-1/4"	209	08F512	5X1/8X7/8 A30SS ST ST WHEELS	56
08B002	THROW-AWAY ADAPTORS-1/8"	209	08F600	6X1/4 A30SS GR WHEELS	56
08B003	THROW-AWAY ADAPTORS-1/2"	209	08F602	6X1/8 A30SS ST ST WHEELS	56
08B004	3/8"-24 MOUNTING FLANGE	211	08F700	7X1/4 A30SS DEP CTR WHEELS	56
08B005	EXTENSION 7/16-20 X 3/8-24	211	08F702	7X1/8 A30SS DEP CTR WHEEL	56
08B006	EXTENSION 3/8-24 X 3/8-24	211	08F705	7X1/4 METAL HUB SS GR WHEEL	56
08B007	3/8"-24 CLAMPING NUT	211	08F900	9X1/4 A30SS DEP CTR WHEELS	56
08B008	EXTENSION 5/8-11 X 1/2-13	211	08F902	9X1/8 A30SS DEP CTR WHEEL	56
08B031	REUSABLE ADAPTOR KIT	209	08F905	9X1/4 METALHUB SS SPIN ON	56
08B310	3X1/4X3/8 HP GR WHEELS	52	08H450	4-1/2X1/4X7/8 HP XX	54
08B312	3X1/8X3/8 HP GR WHEELS	53	08H452	4-1/2X1/8X7/8 HP XX	54
08B400	4X1/4X5/8 HP GR WHEELS	52	08H455	4-1/2X1/4X7/8 HP XX	54
08B402	4X1/8X5/8 HP COMBO WHEEL	53	08H457	4-1/2X1/8X5/8-11 METAL HUB HP XX	54
08B410	4X1/4X3/8 HP GR WHEELS	52	08H500	5X1/4X7/8 HP XX	54
08B412	4X1/8X3/8 HP GR WHEELS	53	08H502	5X1/8X7/8 HP XX	54
08B450	4-1/2X1/4 HP SPIN-ON GR WHEELS	52	08H600	6X1/4X7/8 HP XX	54
08B451	4-1/2X1/4 TYPE 28 SPIN-ON	52	08H602	6X1/8X7/8 HP XX	54
08B452	4-1/2X1/8 HP SPIN-ON COMBO WHEEL	53	08H700	7X1/4X7/8 HP XX	54
08B460	4-1/2X1/4X7/8 HP GR WHEELS	52	08H702	7X1/8X7/8 HP XX	54
08B455	4-1/2x1/4x5/8-11 HP MH GR WHEEL	52	08H705	7X1/4X5/8-11 METAL HUB HP XX	54
08B457	4-1/2X1/8X5/8-11 HP MH GR WHEEL	53	08H707	7X1/8X5/8-11 METAL HUB HP XX	54
08B462	4-1/2X1/8X7/8 HP COMBO WHEEL	53	08H900	9X1/4X7/8 HP XX	54
08B500	5X1/4 HP SPIN-ON GR WHEELS	52	08H902	9X1/8X7/8 HP XX	54
08B501	5X1/4 HP TYPE 28 SPIN-ON	52	08H905	9X1/4X7/8 HP XX	54
08B502	5X1/8 HP SPIN-ON COMBO WHEEL	53	08K450	4-1/2X1/4 -XX- SPIN-ON GR WHEEL	54
08B505	5X1/4X5/8-11 HP MH GR WHEEL	52	08K500	5X1/4 -XX- SPIN-ON GR WHEEL	54
08B507	5X1/8X5/8-11 HP MH GR WHEEL	53	08K701	7X1/4 -XX- TYPE28 GR WHEEL	54
08B510	5X1/4 X7/8 HP GR WHEELS	52	08K706	7X1/4 -XX- TYPE28 METAL HUB GR WHEEL	54
08B512	5X1/8X7/8 HP COMBO WHEEL	53	08K901	9X1/4 -XX- TYPE28 GR WHEEL	54
08B600	6X1/4 HP GR WHEELS	52	08K906	9X1/4 -XX- TYPE28 METAL HUB GR WHEEL	54
08B602	6X1/8 HP COMBO WHEEL	53	08L450	4-1/2X1/4 ALU GR WHEEL	57
08B630	6" X 1/4" X 5/8-11 HP SPIN-ON	52	08L452	4-1/2X1/8 A24ALU GR WHEELS	57
08B632	6" x 1/8" x 5/8-11 HP SPIN-ON	53	08L500	5X1/4 A24ALU GR WHEELS	57
08B701	7X1/4 HP TYPE28 GR WHEELS	52	08L502	5X1/8 A24ALU GR WHEELS	57
07B706	7X1/4HP TYPE28 GR WHEEL SPIN-ON	52	08L600	6X1/4 A24ALU GR WHEELS	57
08B710	7X1/4 HP DEP CTR WHEELS	52	08L602	6X1/8 A24ALU GR WHEELS	57
08B712	7X1/8 HP COMBO WHEEL	53	08L700	7X1/4 ALU GR WHEEL	57
08B715	7X1/4X5/8-11 HP MH GR WHEEL	52	08L702	7X1/8 A24ALU GR WHEELS	57
08B717	7X1/8X5/8-11 HP MH GR WHEEL	53	08L707	7X1/8 A24ALU METAL HUB GR WHEELS	57
08B901	9X1/4 HP TYPE28 GR WHEELS	52	08L900	9X1/4 ALU GR WHEEL	57
08B906	9X1/4 HP TYPE28 GR WHEELS SPIN-ON	52	08L902	9X1/8 A24ALU GR WHEELS	57
08B910	9X1/4 HP DEP CTR WHEELS	52	08L907	9X1/8 A24ALU METAL HUB GR WHEELS	57
08B912	9X1/8 HP COMBO WHEEL	53	08N452	4-1/2x1/8 A-36 PIPEFITTER	58
08B915	9X1/4X5/8-11 HP MH GR WHEEL	52	08N453	4-1/2X3/32 A36-PIPEFITTER	58
08B917	9X1/8X5/8-11 HP MH GR WHEEL SPIN-ON	83	08N454	4-1/2X5/32 A-36 PIPEFITTER	58
08D452	4-1/2X1/8 C-24 GR WHEELS	59	08N502	5X1/8 A-36 PIPEFITTER	58
08D502	5X1/8 C-24 GR WHEELS	59	08N503	5X3/32 A36-PIPEFITTER	58
08D702	7X1/8 C-24 GR WHEELS	59	08N504	5X5/32 A-36 PIPEFITTER	58
08E450	4-1/2X1/4 C-24 GR WHEELS	59	08N533	5" X 3/32" X 5/8-11 PIPEFITTER SPIN-ON	58
08E500	5X1/4 C24 GRINDING WHEELS	59	08N602	6X1/8 PIPEFITTER WHEEL	58
08E700	7X1/4 C-24 GR WHEELS	59	08N603	6X3/32 A36 PIPEFITTER	58

Order No.	Description	Page	Order No.	Description	Page
08N604	6X5/32 A20-PIPEFITTER	58	11D142	14X7/8 C24 PORTACUT WHEELS	48
08N633	6" X 3/32" X 5/8-11" PIPEFITTER SPIN-ON	58	11D143	14X1 C24 PORTACUT WHEELS	48
08N634	6" X 5/32" X 5/8-11" PIPEFITTER SPIN-ON	58	11F042	4-1/2X3/64 ZIP STAINLESS	42
08N702	7X1/8 PIPEFITTER WHEEL	58	11F052	5"X3/64 ZIP STAINLESS	42
08N703	7X3/32 A36-PIPEFITTER	58	11F062	6"X3/64 ZIP STAINLESS	42
08N704	7X5/32 A20-PIPEFITTER	58	11F072	7"X1/16 ZIP STAINLESS	42
08N708	7X3/32 A20-PIPEFITTER METALHUB	58	11F092	9X5/64 ZIP STAINLESS	42
08N709	7X5/32 A20-PIPEFITTER METALHUB	58	11F142	4-1/2X3/64 ZIP ST TYPE 27	42
08N904	9X5/32 A20-PIPEFITTER	58	11F152	5X3/64 ZIP STAINLESS TYPE 27	42
08N909	9X5/32 A20-PIPEFITTER METAL HUB	58	11F162	6X3/64 ZIP STAINLESS TYPE 27	42
08P450	4-1/2X1/4 SPIN-ON XCAVATOR	51	11F172	7X1/16 ZIP STAINLESS TYPE 27	42
08P460	4-1/2X1/4X7/8 XCAVATOR	51	11F192	9X5/64 ZIP STAINLESS TYPE 27	42
08P500	5X1/4 SPIN-ON XCAVATOR	51	11H042	4-1/2X3/64 ZIP TITAN WHEELS	37
08P510	5X1/4X7/8 XCAVATOR	51	11H052	5X3/64 ZIP TITAN WHEELS	37
08P600	6X1/4X7/8 XCAVATOR	51	11H062	6X3/64 ZIP TITAN WHEELS	37
08P700	7X1/4X7/8 XCAVATOR	51	11H072	7X1/16 ZIP TITAN WHEELS	37
08P900	9X1/4X7/8 XCAVATOR	51	11L001	1/4 X 5/16 FLUSH MANDREL	45
10A123	12"L/LIFE RIP CUT C/O WHEEL	47	11L002	1/4 X 5/16 MANDREL	45
10A143	14"L/LIFE RIP CUT C/O WHEEL	47	11L003	1/4 X 3/8 FLUSH MANDREL	45
10A163	16"L/LIFE RIP CUT C/O WHEEL	47	11L004	1/4 X 3/8 MANDREL	45
10A183	18"L/LIFE RIP CUT C/O WHEEL	47	11L005	5/16 X 3/8 MANDREL	45
10A203	20" L/LIFE RIP CUT C/O WHEEL	47	11L006	1/4 X 1/4 FLUSH MANDREL	45
10A206	20"L/LIFE RIP CUT C/O WHEEL	47	11L007	1/4X1/4&3/8 FLUSH MANDREL	45
10A246	24X40MM L/LIFE RIP CUT WH	47	11L008	1/4 X 3/8" ARBOR	45
10A984	7/8 TO 5/8 REDUCER BUSHING	38	11L202	2X1/32X1/4 ZIP CUT-OFF WHEELS	44
10A985	1 TO 1/2 REDUCER BUSHING	47	11L203	2X1/32X3/8 ZIP CUT-OFF WHEELS	44
10A986	1 TO 5/8 REDUCER BUSHING	47	11L211	2X1/16X5/16 ZIP CUT-OFF WHEELS	44
10A987	1 TO 3/4 REDUCER BUSHING	47	11L212	2X1/16X1/4 ZIP CUT-OFF WHEELS	44
10A988	1 TO 7/8 REDUCER BUSHING	47	11L213	2X1/16X3/8 ZIP C/O WHEEL	44
10A989	1 TO 20MM REDUCER BUSHING	47	11L221	2X1/8X5/16 ZIP CUT-OFF WHEELS	44
10A991	40MM TO 1-1/4" BUSHING	47	11L223	2X1/8X3/8 ZIP C/O WHEEL	44
10A992	40MM TO 1-1/2" BUSHING	47	11L231	2X1/4X5/16 ZIP GR WHEELS	44
10B123	12" F/CUT RIP CUT C/O WHEEL	47	11L233	2X1/4X3/8 ZIP C/O WHEEL	44
10B143	14" F/CUT RIP CUT C/O WHEEL	47	11L251	2X1/2X5/16 ZIP GR WHEELS	44
10B163	16" F/CUT RIP CUT C/O WHEEL	47	11L253	2X1/2X3/8 ZIP C/O WHEEL	44
10B183	18" F/CUT RIP CUT C/O WHEEL	47	11L262	2.5X1/16X1/4 ZIP CUT-OFF WHEEL	44
10B203	20" F/CUT RIP CUT C/O WHEEL	47	11L263	2.5X1/32X3/8 ZIP CUT-OFF WHEEL	44
10C123	12" ST ST RIP CUT C/O WHEEL	47	11L302	3X1/32X1/4 ZIP C/O WHEELS	44
10C143	14" ST ST RIP CUT C/O WHEEL	47	11L303	3X1/32X3/8 ZIP C/O WHEELS	44
10C163	16" ST ST RIP CUT C/O WHEEL	47	11L308	3X1/32X3/8 TYPE 27 ZIP	45
10C203	20" ST ST RIP CUT C/O WHEEL	47	11L312	3X1/16X1/4 ZIP C/O WHEELS	44
10H143	14X1/8 CHOP CUT TITAN WHEELS	46	11L313	3X1/16X3/8 ZIP CUT-OFF WHEELS	44
10H163	16X9/64 CHOP CUT TITAN WHEELS	46	11L316	3X1/16X1/4 ZIP C/O WHEELS	44
10L123	12X3/32X1 CHOP CUT ALU	46	11L317	3X1/16X3/8 ZIP C/O WHEELS	44
10L143	14X3/32X1 CHOP CUT ALU	46	11L322	3X1/8X1/4 ZIP C/O WHEELS	44
10P123	12X3/32X1 CHOP CUT II WHEEL	46	11L323	3X1/8X3/8 ZIP CUT-OFF WHEELS	44
10P143	14X3/32X1 CHOP CUT II WHEEL	46	11L333	3X1/4X3/8 ZIP GR WHEELS	44
10P163	16X7/64X1 CHOP CUT II WHEEL	46	11L353	3X1/2X3/8 ZIP GR WHEELS	44
10Q123	12X3/32 A30 CHOP CUT	46	11L402	4X1/32X1/4 ZIP C/O WHEELS	45
10Q143	14X3/32 A30 CHOP CUT	46	11L403	4X1/32X3/8 ZIP C/O WHEELS	45
10Q163	16X7/64 A30 CHOP CUT	46	11L405	4X1/32X5/8 ZIP C/O WHEELS	45
11A121	12"X20MM A24 PORTACUT WHEEL	48	11L406	4X1/32X1/4 ZIP C/O WHEELS	45
11A122	12X7/8 A24 PORTACUT WHEELS	48	11L408	4X1/32X3/8 TYPE 27 ZIP	45
11A123	12X1 A24 PORTACUT WHEELS	48	11L412	4X1/16X1/4 ZIP CUT-OFF WHEELS	45
11A141	14"X20MM A24 PORTACUT WHEEL	48	11L413	4X1/16X3/8 ZIP CUT-OFF WHEELS	45
11A142	14X7/8 A24 PORTACUT WHEELS	48	11L415	4X1/16X5/8 ZIP C/O WHEELS	45
11A143	14X1" A24 PORTACUT WHEEL	48	11L417	4X1/16X3/8 ZIP C/O WHEELS	45
11D121	12X20MM C24 PORTACUT WHEEL	48	11L423	4X1/8X3/8 ZIP CUT-OFF WHEELS	45
11D122	12X7/8 C24 PORTACUT WHEELS	48	11L433	4X1/4X3/8 ZIP GR WHEELS	45
11D123	12X1 C24 PORTACUT WHEELS	48	11L453	4X1/2X3/8 ZIP GR WHEELS	45
11D141	14X20MM C24 PORTACUT WHEEL	48	11R042	4-1/2X3/32 A30 TOUGH CUT	40



Order No.	Description	Page	Order No.	Description	Page
11R052	5X3/32X7/8 A30 TOUGH CUT	40	12C201	1-1/2X3X5/8 T18R PLUG	59
11R062	6X3/32X7/8 A30 TOUGH CUT	40	12C211	2X3X5/8 T18R PLUG-STEEL	59
11R072	7X3/32X7/8 A30 TOUGH CUT	40	12C221	3X4X5/8 T18R PLUG-STEEL	59
11R092	9X3/32X7/8 A30 TOUGH CUT	40	12C301	1X2X3/8 T18 PLUG-STEEL	59
11T042	4-1/2X3/64 ZIP WHEELS	38	12C311	1-1/2X3X5/8 T18 PLUG-STEEL	59
11T052	5X3/64X7/8 ZIP WHEEL	38	12C321	2X3X5/8 T18 PLUG-STEEL	59
11T062	6X3/64X7/8 ZIP WHEELS	38	12C401	1-1/2X3X5/8 T17 CONE	59
11T070	7X1/16X5/8 ZIP WHEELS	38	12C421	2X4X5/8 T17 PLUG	59
11T072	7X1/16X7/8 ZIP WHEELS	38	12D001	A-1 MTD POINT/TOUGH STEEL	61
11T080	8X1/16X5/8 ZIP WHEELS	38	12D002	A-1 MTD POINT/MILD STEEL	60
11T092	9X5/64X7/8 ZIP WHEELS	38	12D003	A-1 MOUNTED POINT/INOX	61
11T100	10X3/32X5/8 ZIP WHEELS	38	12D011	A-3 MTD POINT/TOUGH STEEL	61
11T142	4-1/2X3/64 ZIPCUT TYPE 27	38	12D012	A-3 MTD POINT/MILD STEEL	60
11T152	5X3/64 ZIPCUT TYPE 27	38	12D013	A-3 MOUNTED POINT/ST ST	61
11T162	6X3/64 ZIPCUT TYPE 27	38	12D021	A-5 MTD POINT/TOUGH STEEL	61
11T172	7X1/16 ZIPCUT TYPE 27	38	12D022	A-5 MTD POINT/ MILD STEEL	60
11T192	9X5/64 ZIPCUT TYPE 27	38	12D023	A-5 MOUNTED POINT/ST ST	61
11T242	4-1/2 x 1/16 ZIP + WHEEL	40	12D031	A-11 MTD POINT/TOUGH STEEL	61
11T252	5 X 1/16 ZIP + WHEEL	40	12D032	A-11 MTD POINT/ MILD STEEL	60
11T262	6 X 1/16 ZIP + WHEEL	40	12D033	A-11 MOUNTED POINT/ST ST	61
11T272	7 X 5/64 ZIP + WHEEL	40	12D036	A-12 MTD POINT/TOUGH STEEL	61
11T292	9 X 3/32 ZIP + WHEEL	40	12D037	A-12 MTD POINT/MILD STEEL	60
11T342	4-1/2" X 3/64 (.045") X 5/8-11 SPIN-ON	39	12D038	A-12 MOUNTED POINT/ST ST	61
11T352	5" X 3/64 (.045") X 5/8-11 SPIN-ON	39	12D046	A-14 MTD POINT/TOUGH STEEL	61
11T362	6" X 3/64 (.045") X 5/8-11 SPIN-ON	39	12D047	A-14 MTD POINT/MILD STEEL	60
11T453	4-1/2 X 1/16 ZIP+ TYPE 27	40	12D056	A-21 MTD POINT/TOUGH STEEL	61
11T503	5 X 1/16 ZIP+ TYPE 27	40	12D057	A-21 MTD POINT/MILD STEEL	60
11T542	4-1/2x1/32 ZIP ONE WHEEL	41	12D058	A-21 MOUNTED POINT/ST ST	61
11T552	5"x 1/32" ZIP ONE WHEEL	41	12D076	A-25 MTD POINT/TOUGH STEEL	61
11T642	4-1/2x1/32 ZIP ONE TYPE 27	41	12D077	A-25 MTD POINT/MILD STEEL	60
11T652	5"x 1/32" ZIP ONE TYPE 27	41	12D078	A-25 MOUNTED POINT/ST ST	61
11T662	6"x 1/32" ZIP ONE TYPE 27	41	12D091	A-32 MTD POINT/TOUGH STEEL	61
11T672	7"x 3/64" ZIP ONE TYPE 27	41	12D092	A-32 MTD POINT/MILD STEEL	60
11T842	4-1/2X5/64 COMBO ZIP	43	12D116	A-37 MTD POINT/TOUGH STEEL	61
11T844	4-1/2X5/64 COMBO ZIP, SPIN-ON	43	12D121	A-38 MTD POINT/TOUGH STEEL	61
11T852	5X5/64 COMBO ZIP	43	12D122	A-38 MTD POINT/MILD STEEL	60
11T854	5X5/64 COMBO ZIP, SPIN-ON	43	12D232	B-52 MTD POINT/MILD STEEL	60
11T862	6X5/64 COMBO ZIP	43	12D242	B-52 MTD POINT/MILD STEEL	60
11U042	4-1/2X3/64 ZIP ALU WHEEL	42	12D591	W179 MTD POINT/TOUGH STEEL	61
11U052	5X3/64 ZIP ALU WHEEL	42	12D592	W179 MTD POINT/MILD STEEL	60
11U062	6 X 3/64 ZIP ALU WHEEL	42	12D593	W179 MOUNTED POINT/ST ST	61
11U072	7 X 1/16 ZIP ALU WHEEL	42	12D676	W196 MTD POINT/TOUGH STEEL	61
11U142	4-1/2X3/64 ZIP ALU TYPE 27	42	12D677	W196 MTD POINT/MILD STEEL	60
11U152	5X3/64 ZIP ALU TYPE 27	42	12D678	W197 MOUNTED POINT/ST ST	61
11U162	6 X 3/64 ZIP ALU TYPE 27	42	12D721	W205 MTD POINT/TOUGH STEEL	61
11U172	7 X 1/16 ZIP ALU TYPE 27	42	12D722	W205 MTD POINT/MILD STEEL	60
11U303	3X1/32X3/8 ALU C/O WHEEL	45	12D723	W205 MOUNTED POINT/ST ST	61
11U403	4X1/32X3/8 ALU C/O WHEEL	45	12D781	W217 MTD POINT/TOUGH STEEL	61
11V143	14X1" RAILCUT C/O WHEEL	48	12D782	W217 MTD POINT/MILD STEEL	60
11V145	14X1" RAILCUT II FASTCUT	48	12D783	W217 MOUNTED POINT/ST ST	61
11V163	16X1" RAILCUT C/O WHEEL	48	12D796	W220 MTD POINT/TOUGH STEEL	61
11V165	16X1" RAILCUT II FASTCUT	48	12D797	W220 MTD POINT/MILD STEEL	60
12A004	4" CUP WHEEL FOR STEEL	57	12D798	W220 MOUNTED POINT/ST ST	61
12A005	5" CUP WHEEL FOR STEEL	57	12D806	W222 MTD POINT/TOUGH STEEL	61
12A006	6" CUP WHEEL FOR STEEL	57	12D807	W222 MTD POINT/MILD STEEL	60
12B004	4" CUP WHEEL FOR CONCRETE	57	12D808	W-222 MTD POINT/INOX	61
12B005	5" CUP WHEEL FOR STONE	57	12D821	W-225 MTD POINT/TOUGH STEEL	61
12B006	6" CUP WHEEL FOR STONE	57	12D822	W-225 MTD POINT/MILD STEEL	60
12C101	1-1/2X2-1/2X3/8 T16 CONE	59	12D900	DRESSING STONE	61
12C111	1-1/2X3X5/8 T16 CONE-STEEL	59	12D901	DRESSING STONE	61
12C121	2X3X5/8 T16 CONE-STEEL	59	12E001	WHEEL DRESSER, STANDARD	62

Order No.	Description	Page	Order No.	Description	Page
12E002	WHEEL DRESSER, H. DUTY	62	13C120	WALTER 2 MOUNTED WHEEL BRUSH	118
12E004	SET SPARE WHEELS, STANDARD	62	13C123	WALTER 3 X1/4 MOUNTED WHEEL BRUSH	118
12E005	SET SPARE WHEELS, H. DUTY	62	13C125	WALTER 3 MOUNTED WHEEL BRUSH	118
12E006	1-3/4-5/8-1/2X3/4 BUSHING	62	13C128	WALTER 4 X1/4 MOUNTED WHEEL BRUSH	118
12E007	1-3/4-5/8-1/2X1 IN BUSHING	62	13C130	WALTER 2-3/4 MOUNTED WHEEL BRUSH	119
12E008	1" TO 7/8 BUSHING	62	13C160	WALTER 1-3/8MTD WHEEL BRUSH-STST	118
12E010	1-1/4 TO 1/2X1 NESTED BUSH	82	13C170	WALTER 2 MTD WHEEL BRUSH-ST ST	118
12E324	6X3/4 36GR BENCH GR WHEEL	62	13C173	"WALTER 3 X1/4 MTD WHEEL BRUSH, STST"	118
12E325	6X3/4 46GR BENCH GR WHEEL	62	13C175	WALTER 3 MTD WHEEL BRUSH-ST ST	118
12E328	6X3/4 80GR BENCH GR WHEEL	62	13C178	"WALTER 4 X1/4 MTD WHEEL BRUSH, STST"	118
12E329	6X3/4 80GR BENCH GR WHEEL	62	13C180	WALTER 2-3/4MTD WHEEL BRUSH-STST	119
12E344	6X1X1 36GR BENCH GR WHEEL	62	13C215	WALTER 1-1/2 X 1/4 SPHER. S/WIRES	118
12E345	6X1X1 46GR BENCH GR WHEEL	62	13C225	WALTER 2 X 1/4 SPHER. S/WIRES	118
12E348	6X1X1 80GR BENCH GR WHEEL	62	13C230	WALTER 3 X 1/4 SPHER. S/WIRES	118
12E444	7X1 36GR BENCH GR WHEEL	62	13C265	WALTER 1-1/2 X 1/4 SPHER. S/S WIRES	118
12E447	7X1 60GR BENCH GR WHEEL	62	13C270	WALTER 3 MOUNTED SAUCER BRUSH	119
12E449	7X1 80GR BENCH GR WHEEL	62	13C275	WALTER 2 X 1/4 SPHER. S/S WIRES	118
12E533	8X7/8 24GR BENCH GR WHEEL	62	13C280	WALTER 3 X 1/4 SPHER. S/S WIRES	118
12E537	8X7/8 60GR BENCH GR WHEEL	62	13C303	WALTER 3 X 1/2 KNOT TWIST WHEEL	119
12E543	8X1 24GR BENCH GR WHEEL	62	13C370	WALTER 3 MOUNTED WHEEL CUP BRUSH	119
12E545	8X1 46GR BENCH GR WHEEL	62	13C404	WALTER 4 X 1/2 KNOT TWIST WHEEL	119
12E547	8X1 60GR BENCH GR WHEEL	62	13D001	WALTER 5/8-M10X1.25 ADAPTOR	210
12E549	8X1 80GR BENCH GR WHEEL	62	13D002	WALTER 5/8-M10X1.5 ADAPTOR	210
12E553	8X1-1/4 24 BENCH GR WHEEL	62	13D003	WALTER 5/8 TO 3/8-24 ADAPTOR	210
12E557	8X1-1/4 60 BENCH GR WHEEL	62	13D004	WALTER ADAPTOR 5/8-11 X 3/8-16	211
12E643	10X1 24GR BENCH GR WHEEL	62	13D005	WALTER 5/8-11 X 5/16-24 ADAPTOR	211
12E647	10X1 60GR BENCH GR WHEEL	62	13D007	WALTER 5/8 TO 3/8-16 ADAPTOR	210
12E649	10X1 80GR BENCH GR WHEEL	62	13D008	WALTER 3/8X1/4 MANDREL/BRUSH	210
12E657	10X1-1/4 60 BENCH GR WHEEL	62	13D009	WALTER 1/2X1/4 MANDREL/BRUSH	210
13B015	WALTER BUSHING 1-7/8-3/4-5/8-1/2	120	13D300	WALTER 3M10X1.25 CUP BRUSH	114
13B040	WALTER 4 BENCH GRINDER BRUSHES	120	13D302	WALTER 3M14X2 CUP BRUSH	114
13B060	WALTER 6 BENCH GRINDER BRUSHES	120	13D304	WALTER WALTER 3 5/8-11 CUP BRUSH	114
13B061	WALTER 6 BENCH GRINDER BRUSHES	120	13D312	WALTER 3 M14X2.0 ST ST CUP BRUSH	114
13B065	WALTER 6X3/4 BENCH GRINDER BRUSH	120	13D314	WALTER 3 5/8-11 ST ST CUP BRUSH	114
13B070	WALTER 7 BENCH GRINDER BRUSHES	120	13D324	WALTER 3 5/8-11 CRIMPED CUP BRUSH	114
13B075	WALTER 7X3/4 BENCH GRINDER BRUSH	120	13D424	WALTER 4 5/8-11 CRIMPED CUP BRUSH	114
13B080	WALTER 8 BENCH GRINDER BRUSHES	120	13D524	WALTER 5 5/8-11 CRIMPED CUP BRUSH	114
13B082	WALTER 8X1/2 CRIMPED BENCH WHEEL	120	13E504	WALTER 5 5/8-11 CUP BRUSH	114
13B085	WALTER 8X3/4 BENCH GRINDER BRUSH	120	13E514	WALTER 5 5/8-11 ST ST CUP BRUSH	114
13B100	WALTER 10 BENCH GRINDER BRUSH	120	13F300	WALTER 3 M10X1.25 CUP BRUSH	114
13B160	WALTER 6STST BENCH GRINDER BRUSH	120	13F301	WALTER 3 M10X1.5 CUP BRUSH	114
13B165	WALTER 6X3/4STST BENCH GR BRUSH	120	13F302	WALTER 3 M14X2.0 CUP BRUSH	114
13B180	WALTER 8STST BENCH GRINDER BRUSH	120	13F303	WALTER 3 1/2-13 CUP BRUSH	114
13B185	WALTER 8X3/4STST BENCH GR BRUSH	120	13F304	WALTER 3 5/8-11 CUP BRUSH	114
13B260	WALTER 6 KNOT TWIST BENCH GR BRUSH	120	13F310	WALTER 3 M10X1.25 STST CUP BRUSH	114
13B280	WALTER 8 KNOT TWIST BENCH GR BRUSH	120	13F312	WALTER 3 M14X2.0 ST ST CUP BRUSH	114
13C003	WALTER 1/2X.010 MTD END BRUSH	118	13F314	WALTER 3 5/8-11 ST ST CUP BRUSH	114
13C005	WALTER 1/2X.020 MTD END BRUSH	118	13F354	WALTER 3 5/8-11 CUP BRUSH	114
13C008	WALTER 3/4X.014 MTD END BRUSH	118	13G302	WALTER 3 M14 2.0 CUP BRUSH	115
13C015	WALTER 1-1/2 MOUNTED CUP BRUSH	118	13G303	WALTER 3 1/2-13 CUP BRUSH	115
13C018	WALTER 2-3/8 MOUNTED CUP BRUSH	118	13G304	WALTER 3 5/8-11 CUP BRUSH	115
13C020	WALTER 1-1/8 MOUNTED END BRUSH	119	13G312	WALTER 3 M14X2.0 ST ST CUP BRUSH	115
13C028	WALTER 3/4 MOUNTED BRUSH	118	13G314	WALTER 3 5/8-11 ST ST CUP BRUSH	115
13C053	WALTER 1/2X.010 END BRUSH-ST.ST.	118	13G404	WALTER 4 5/8-11 CUP BRUSH	115
13C055	WALTER 1/2X.020 END BRUSH-ST ST	118	13G504	WALTER 5 5/8-11 CUP BRUSH	115
13C058	WALTER 3/4X.014 END BRUSH-ST ST	118	13G514	WALTER 5 5/8-11 ST ST CUP BRUSH	115
13C065	WALTER 1-1/2 MTD CUP BRUSH-ST ST	118	13G554	WALTER 5 5/8-11 CUP BRUSH	115
13C068	WALTER 2-3/8 MTD CUP BRUSH-ST ST	118	13G574	WALTER 5 5/8-11 CUP BRUSH WITH RING	115
13C070	WALTER 1-1/8 MTD END BRUSH-ST ST	119	13G584	WALTER 5 5/8-11 ST CUP BRUSH WITH RING	115
13C078	WALTER 3/4 CON. CRIMP. BRUSH S/S	118	13G604	WALTER 6 5/8-11 CUP BRUSH	115
13C110	WALTER 1-3/8 MOUNTED WHEEL BRUSH	118	13H404	WALTER 4X5/8 SAUCER CUP BRUSH	117

Order No.	Description	Page	Order No.	Description	Page
13H414	WALTER 4X5/8 SS SAUCER CUP BRUSH	117	14C110	1X50 YDS A100 SHOP ROLL	85
13H454	WALTER 4 X 5/8 CRIMPED SAUCER BRUSH	117	14C112	1X50 YDS A120 SHOP ROLL	85
13H504	WALTER 5 5/8 SAUCER CUP BRUSH	117	14C118	1X50YDS A180 SHOP ROLL	85
13H514	WALTER 5X5/8 SS SAUCER CUP BRUSH	117	14C124	1X50YDS A240 SHOP ROLL	85
13H554	WALTER 5 X 5/8 CRIMPED SAUCER BRUSH	117	14C132	1X50YDS A320 SHOP ROLL	85
13H604	WALTER 6X5/8 KNOT-TWISTED SAUCER BRUSH	117	14C206	1-1/2X50YDS A60 SHOP ROLL	85
13H614	WALTER 6 X 5/8 ST KNOT SAUCER BRUSH	117	14C208	1-1/2X50YDS A80 SHOP ROLL	85
13H654	WALTER 6 X 5/8 CRIMPED SAUCER BRUSH	117	14C210	1-1/2X50 YDS A100 SHOP ROLL	85
13H704	WALTER 7X5/8 SAUCER CUP BRUSH	117	14C212	1-1/2X50YDS A120 SHOP ROLL	85
13H714	WALTER 7X5/8 SS SAUCER CUP BRUSH	117	14C218	1-1/2X50YDS A180 SHOP ROLL	85
13J454	WALTER 4-1/2 X 5/8 STEEL WIRES	116	14C224	1-1/2X50YDS A240 SHOP ROLL	85
13J464	WALTER 4-1/2 X 5/8 WITH S/S WIRES	116	14C232	1-1/2X50YDS A320 SHOP ROLL	85
13J504	WALTER 5 X 5/8 WITH STEEL WIRES	116	14C306	2X50YDS A60 SHOP ROLL	85
13J514	WALTER 5 X 5/8 WITH S/S WIRES	116	14C308	2X50YDS A80 SHOP ROLL	85
13J604	WALTER 6 X 5/8 STEEL WIRES	116	14C310	2X50YDS A100 SHOP ROLL	85
13J614	WALTER 6 X 5/8 WITH S/S WIRES	116	14C312	2X50YDS A120 SHOP ROLL	85
13K404	WALTER 4X3/16X5/8-11 KNOT BRUSH	116	14C318	2X50YDS A180 SHOP ROLL	85
13K414	WALTER 4X3/16X5/8 STST KNOT BRUSH	116	14C324	2X50YDS A240 SHOP ROLL	85
13K454	WALTER 4-1/2X3/16X5/8-11 BRUSH	116	14C332	2X50YDS A320 SHOP ROLL	85
13K464	WALTER 4-1/2X3/16X5/8-11 SS BRUSH	116	14D033	1/2 X 18 GR36 TOPCUT PLUS	96
13K504	WALTER 5X1/4X5/8-11 KNOT BRUSH	116	14D036	1/2 X 18 GR60 TOPCUT PLUS	96
13K514	WALTER 5X1/4X5/8 ST ST KNOT BRUSH	116	14D038	1/2 X 18 GR80 TOPCUT PLUS	96
13K604	WALTER 6X1/4X5/8-11 KNOT BRUSH	116	14D053	1/2 X 24 GR36 TOPCUT PLUS	96
13K614	WALTER 6X1/4X5/8 ST ST KNOT BRUSH	116	14D056	1/2 X 24 GR60 TOPCUT PLUS	96
13K654	WALTER 6-7/8X1/4X5/8 KNOT BRUSH	116	14D058	1/2 X 24 GR80 TOPCUT PLUS	96
13L404	WALTER 4X1/4/5/8-11 KNOT BRUSH	116	14D103	3/4 X 18 GR36 TOPCUT PLUS	96
13L414	WALTER 4X1/4X5/8 STST KNOT BRUSH	116	14D106	3/4 X 18 GR60 TOPCUT PLUS	96
13L454	WALTER 4-1/2X1/4X5/8-11 BRUSH	116	14D108	3/4 X 18 GR80 TOPCUT PLUS	96
13L464	WALTER 4-1/2X1/4X5/8-11 SS BRUSH	116	14D123	3/4 X 24 GR36 TOPCUT PLUS	96
13L504	WALTER 5X3/8X5/8-11 KNOT BRUSH	116	14D126	3/4 X 24 GR60 TOPCUT PLUS	96
13L514	WALTER 5X3/8X5/8 ST ST KNOT BRUSH	116	14D128	3/4 X 24 GR80 TOPCUT PLUS	96
13L604	WALTER 6X3/8X5/8-11 KNOT BRUSH	116	14X154	760mm X 40mm, COOLCUT XX BELT, GR 40	95
13L614	WALTER 6X3/8X5/8 ST ST KNOT BRUSH	116	14X156	760mm X 40mm, COOLCUT XX BELT, GR 60	95
13M454	WALTER 4-1/2 X 2 STEEL WIRES 0.01	119	14X158	760mm X 40mm, COOLCUT XX BELT, GR 80	95
13M464	WALTER 4-1/2 X 2 S/S WIRES 0.01	119	14X162	760mm X 40mm, COOLCUT XX BELT, GR 120	95
14A904	9X11 GR40 COOLCUT SHEET	85	15C452	4-1/2 GR24 COOLCUT DISCS	81
14A906	9X11 GR60 COOLCUT SHEET	85	15C453	4-1/2 GR36 COOLCUT DISCS	81
14A908	9X11 GR80 COOLCUT SHEET	85	15C454	4-1/2 GR40 COOLCUT DISCS	81
14A910	9X11 GR100 COOLCUT SHEET	85	15C455	4-1/2 GR50 COOLCUT DISCS	81
14A912	9X11 GR120 COOLCUT SHEET	85	15C456	4-1/2 GR60 COOLCUT DISCS	81
14A918	9X11 GR180 COOLCUT SHEET	85	15C458	4-1/2 GR80 COOLCUT DISCS	81
14A924	9X11 GR240 COOLCUT SHEET	85	15C460	4-1/2 GR100 COOLCUT DISCS	81
14A932	9X11 GR320 COOLCUT SHEET	85	15C462	4-1/2 GR120 COOLCUT DISCS	81
14B033	1/2 X 18 GR36 INOX PLUS	96	15C502	5" GR24 COOLCUT SAND DISCS	81
14B036	1/2 X 18 GR60 INOX PLUS	96	15C503	5" GR36 COOLCUT SAND DISC	81
14B038	1/2 X 18 GR80 INOX PLUS	96	15C504	5" GR40 COOLCUT SAND DISCS	81
14B042	1/2 X 18 GR120 INOX PLUS	96	15C505	5" GR50 COOLCUT SAND DISC	81
14B053	1/2 X 24 GR36 INOX PLUS	96	15C506	5" GR60 COOLCUT SAND DISCS	81
14B056	1/2 X 24 GR60 INOX PLUS	96	15C508	5" GR80 COOLCUT SAND DISCS	81
14B058	1/2 X 24 GR80 INOX PLUS	96	15C510	5" GR100 COOLCUT SAND DISC	81
14B062	1/2 X 24 GR120 INOX PLUS	96	15C512	5" GR120 COOLCUT SAND DISC	81
14B103	3/4 X 18 GR36 INOX PLUS	96	15C702	7" GR24 COOLCUT SAND DISCS	81
14B106	3/4 X 18 GR60 INOX PLUS	96	15C703	7" GR36 COOLCUT SAND DISCS	81
14B108	3/4 X 18 GR80 INOX PLUS	96	15C704	7" GR40 COOLCUT SAND DISCS	81
14B112	3/4 X 18 GR120 INOX PLUS	96	15C705	7" GR50 COOLCUT SAND DISCS	81
14B123	3/4 X 24 GR36 INOX PLUS	96	15C706	7" GR60 COOLCUT SAND DISCS	81
14B126	3/4 X 24 GR60 INOX PLUS	96	15C708	7" GR80 COOLCUT SAND DISCS	81
14B128	3/4 X 24 GR80 INOX PLUS	96	15C710	7" GR100 COOLCUT SAND DISC	81
14B132	3/4 X 24 GR120 INOX PLUS	96	15C712	7" GR120 COOLCUT SAND DISC	81
14C106	1X50M A60 SHOP ROLL	85	15D010	M10X1.25 CLAMPING NUT	209
14C108	1X50 YDS A80 SHOP ROLL	85	15D014	5/8-11 CLAMPING NUT	209

Order No.	Description	Page	Order No.	Description	Page
15D015	3/8"-24 CLAMP NUT/4" PAD	209	15F906	3X2X60 FLAP WHEEL	83
15D027	7" BACKING PAD	79	15F908	3X2X80 FLAP WHEEL	83
15D030	4" M10X1.25 BACKING PAD	79	15F912	3X2X120 FLAP WHEEL	83
15D035	4" 3/8"-24 BACKING PAD	79	15G206	6-1/2X1 GR60 FLAP WH	82
15D044	4-1/2" 5/8-11 BACKING PAD	79	15G208	6-1/2X1 GR80 FLAP WH	82
15D054	5" 5/8-11 BACKING PAD	79	15G212	6-1/2X1 GR120 FLAP WH	82
15D064	6" BACKING PAD , 5/8"-11	79	15G306	6-1/2X2X60 FLAP WHEEL	82
15E124	2X1 FINE 2IN1 FLAP WHEEL	82	15G308	6-1/2X2X80 FLAP WHEEL	82
15E126	2X1 E-FINE 2IN1 FLAP WHEEL	82	15G312	6-1/2X2X120 FLAP WHEEL	82
15E162	3X1-3/4 MED 2IN1 FLAP WHL	82	15G962	FLANGE ADAPTOR 5/8" - PKG/1 PAIR	82
15E164	3X1-3/4 FINE 2IN1 FLAP WHL	82	15H014	5/8"-11 CLAMPING NUT FOR 6-7" BACK PADS	209
15E166	3X1-3/4 E-FINE 2IN1 FLP WH	82	15I451	ENDURO-FLEX 2-IN-1 TURBO, 4.5" SPIN-ON	69
15E167	3X1-3/4 X-FINE 2IN1 FLP WH	82	15I453	ENDURO-FLEX 2-IN-1, 4.5" SPIN-ON	69
15E168	3X1-3/4 POLISH 2IN1 WHEEL	82	15I501	ENDURO-FLEX 2-IN-1 TURBO, 5" SPIN-ON	69
15E295	6X1 FINE 2IN1 FLAP WHEEL	82	15I503	ENDURO-FLEX 2-IN-1, 5" SPIN-ON	69
15E296	6X1 X-FINE 2IN1 FLAP WHEEL	82	15L303	3" GR 36 FLEX CUT	73
15E652	3X1-1/2 MEDIUM THREADED 2IN1	82	15L306	3" GR60 FLEX CUT	73
15E654	3X1-1/2 FINE THREADED 2IN1	82	15L453	4-1/2" GR36 FLEX CUT SPIN-ON	73
15E656	3X1-1/2 E-FINE THREAD 2IN1	82	15L456	4-1/2" GR60 FLEX CUT SPIN-ON	73
15E658	3X1-1/2 POLISH THREAD 2IN1	82	15L460	4-1/2" GR100 FLEX CUT SPIN-ON	73
15F004	1-1/2X3/8X40 FLAP WHEEL	83	15L463	4-1/2" X 7/8 GR36 FLEX CUT	73
15F006	1-1/2X3/8X60 FLAP WHEEL	83	15L503	5" GR36 FLEX CUT SPIN-ON	73
15F008	1-1/2X3/8X80 FLAP WHEEL	83	15L506	5" GR60 FLEX CUT SPIN-ON	73
15F012	1-1/2X3/8X120 FLAP WHEEL	83	15L510	5" GR100 FLEX CUT SPIN-ON	73
15F054	1X3/8X40 FLAP WHEEL	83	15L513	5" X 7/8 GR36 FLEX CUT	73
15F056	1X3/8 GR60 FLAP WHEEL	83	15L516	5" X 7/8 GR60 FLEX CUT	73
15F058	1X3/8 GR80 FLAP WHEEL	83	15L602	6" X 5/8-11 GR 24 FLEX CUT	73
15F062	1X3/8 GR120 FLAP WHEEL	83	15L603	6" X 5/8-11 GR 36 FLEX CUT	73
15F104	1-1/2X1X40 FLAP WHEEL	83	15L606	6" GR 60 FLEX CUT	73
15F106	1-1/2X1X60 FLAP WHEEL	83	15L702	7" GR24 FLEX CUT	73
15F108	1-1/2X1X80 FLAP WHEEL	83	15L703	7" GR36 FLEX CUT	73
15F112	1-1/2X1X120 FLAP WHEEL	83	15L706	7" GR60 FLEX CUT	73
15F124	1-1/2 X 1" X 240 FLAP WHEEL	83	15L710	7" GR100 FLEX CUT	73
15F154	1X1X40 FLAP WHEEL	83	15L843	4-1/2" GR 36 FLEX CUT/MILL SCALE	74
15F156	1 X 1 GR60 FLAP WHEEL	83	15L853	5" GR 36 FLEX CUT/MILL SCALE	74
15F158	1 X 1 GR80 FLAP WHEEL	83	15L863	6" GR 36 FLEX CUT/MILL SCALE	74
15F162	1 X 1 GR120 FLAP WHEEL	83	15L873	7" GR 36 FLEX CUT/MILL SCALE	74
15F204	2X3/8X40 FLAP WHEEL	83	15M007	7" TURBO-ACTION PAD-BLACK	79
15F206	2X3/8X60 FLAP WHEEL	83	15M008	7" TURBO-ACTION PAD-WHITE	79
15F208	2X3/8X80 FLAP WHEEL	83	15M014	5/8"-11 CLAMPING NUT	209
15F212	2X3/8X120 FLAP WHEEL	83	15M044	4-1/2" TURBO PAD - BLACK	79
15F304	2X1X40 FLAP WHEEL	83	15M045	4-1/2" TURBO PAD - WHITE	79
15F306	2X1X60 FLAP WHEEL	83	15M054	5" TURBO PAD - BLACK	79
15F308	2X1X80 FLAP WHEEL	83	15M055	5" TURBO PAD-WHITE	79
15F312	2X1X120 FLAP WHEEL	83	15M064	6" TURBO PAD - BLACK	79
15F324	2 X 1" X 240 FLAP WHEEL	83	15M065	6" TURBO PAD - WHITE	79
15F504	2-1/2X1-1/2X40 FLAP WHEEL	83	15M144	4-1/2" QCK CHANGE TURBO PAD - BLACK	79
15F506	2-1/2X1-1/2X60 FLAP WHEEL	83	15M145	4-1/2" QCK CHANGE TURBO PAD - WHITE	79
15F508	2-1/2X1-1/2X80 FLAP WHEEL	83	15M154	5" QCK CHANGE TURBO PAD - BLACK	79
15F512	2-1/2X1-1/2X120 FLAP WHEEL	83	15M155	5" QCK CHANGE TURBO PAD - WHITE	79
15F524	2-1/2X1-1/2"X240 FLAP WHEEL	83	15M157	7" QCK CHANGE TURBO PAD - BLACK	79
15F704	3X1X40 FLAP WHEEL	83	15M158	7" QCK CHANGE TURBO PAD - WHITE	79
15F706	3X1X60 FLAP WHEEL	83	15P452	4-1/2" GR24 TOPCUT DISCS	80
15F708	3X1X80 FLAP WHEEL	83	15P452B	4-1/2" GR24 TOPCUT	80
15F712	3X1X120 FLAP WHEEL	83	15P453	4-1/2" GR36 TOPCUT DISCS	80
15F804	3X1-1/2X40 FLAP WHEEL	83	15P453B	4-1/2" GR36 TOPCUT	80
15F806	3X1-1/2X60 FLAP WHEEL	83	15P456	4-1/2" GR60 TOPCUT DISCS	80
15F808	3X1-1/2X80 FLAP WHEEL	83	15P456B	4-1/2" GR60 TOPCUT	80
15F812	3X1-1/2X120 FLAP WHEEL	83	15P458	4-1/2" GR80 TOPCUT DISCS	80
15F824	3X1-1/2X240 FLAP WHEEL	83	15P458B	4-1/2" GR80 TOPCUT	80
15F904	3X2X40 FLAP WHEEL	83	15P502	5" GR24 TOPCUT SAND DISCS	80

Order No.	Description	Page	Order No.	Description	Page
15P503	5" GR36 TOPCUT SAND DISCS	80	15X453B	4-1/2 GR36 COOLCUT XX	77
15P506	5" GR60 TOPCUT SAND DISCS	80	15X455	4-1/2 GR50 COOLCUT XX	77
15P508	5" GR80 TOPCUT SAND DISCS	80	15X455B	4-1/2 GR50 COOLCUT XX (50/PACK)	77
15P702	7" GR24 TOPCUT SAND DISCS	80	15X456	4-1/2 GR60 COOLCUT XX DISCS	77
15P703	7" GR36 TOPCUT SAND DISCS	80	15X456B	4-1/2 GR60 COOLCUT XX	77
15P706	7" GR60 TOPCUT SAND DISCS	80	15X458	4-1/2 GR80 COOLCUT XX DISCS	77
15P708	7" GR80 TOPCUT SAND DISCS	80	15X458B	4-1/2 GR80 COOLCUT XX DISCS (50/PACK)	77
15Q454	4-1/2 GR40 ENDUROFLEX-ST ST	68	15X460	4-1/2 GR100 COOLCUT XX	77
15Q456	4-1/2 GR60 ENDUROFLEX-ST ST	68	15X462	4-1/2 GR120 COOLCUT XX DISCS	77
15Q458	4-1/2 GR80 ENDUROFLEX-ST ST	68	15X473	4.5"GR36 COOLCUT XX/Q. CHANGE	78
15Q462	4-1/2 GR120 ENDUROFLEX-ST ST	68	15X475	4.5"GR50 COOLCUT XX/Q. CHANGE	78
15Q504	5" GR40 ENDUROFLEX-ST ST	68	15X476	4.5"GR60 COOLCUT XX/Q. CHANGE	78
15Q506	5" GR60 ENDUROFLEX-ST ST	68	15X478	4.5"GR80 COOLCUT XX/Q. CHANGE	78
15Q508	5" GR80 ENDUROFLEX-ST ST	68	15X482	4.5"GR120 COOLCUT XX/Q. CHANGE	78
15Q512	5" GR120 ENDUROFLEX-ST ST	68	15X502	5" GR24 COOLCUT XX DISCS	77
15Q704	7" GR40 ENDURO-FLEX-ST ST	68	15X503	5" GR36 COOLCUT XX DISCS	77
15Q706	7" GR60 ENDURO-FLEX-ST ST	68	15X503B	5" GR36 COOLCUT XX	77
15Q708	7" GR80 ENDURO-FLEX-ST ST	68	15X505	5" GR50 COOLCUT XX	77
15Q712	7" GR120 ENDURO-FLEX-ST ST	68	15X505B	5" GR50 COOLCUT XX (50/PACK)	77
15R454	4-1/2GR40 ENDUROFLEX DISC	67	15X506	5" GR60 COOLCUT XX DISCS	77
15R456	4-1/2GR60 ENDUROFLEX DISC	67	15X506B	5" GR60 COOLCUT XX	77
15R458	4-1/2GR80 ENDUROFLEX DISC	67	15X508	5" GR80 COOLCUT XX DISCS	77
15R462	4-1/2GR120 ENDUROFLEX DISC	67	15X508B	5" GR80 COOLCUT XX DISCS (50/PACK)	77
15R504	5" GR40 ENDUROFLEX DISC	67	15X510	5" GR100 COOLCUT XX	77
15R506	5" GR60 ENDUROFLEX DISC	67	15X512	5" GR120 COOLCUT XX DISCS	77
15R508	5" GR80 ENDUROFLEX DISC	67	15X523	5" GR36 COOLCUT XX / Q. CHANGE	78
15R512	5" GR120 ENDUROFLEX DISC	67	15X525	5" GR50 COOLCUT XX / Q. CHANGE	78
15R604	6" GR40 ENDUROFLEX DISC	67	15X526	5" GR60 COOLCUT XX / Q. CHANGE	78
15R606	6" GR60 ENDUROFLEX DISC	67	15X528	5" GR80 COOLCUT XX / Q. CHANGE	78
15R608	6" GR80 ENDUROFLEX DISC	67	15X532	5" GR120 COOLCUT XX / Q. CHANGE	78
15R612	6" GR120 ENDURO-FLEX DISC	67	15X602	6" GR24 COOLCUT XX DISCS	77
15R704	7" GR40 ENDURO-FLEX DISC	67	15X603	6" GR36 COOLCUT XX DISCS	77
15R706	7" GR60 ENDURO-FLEX DISC	67	15X605	6" GR50 COOLCUT XX DISCS	77
15R708	7" GR80 ENDURO-FLEX DISC	67	15X606	6" GR60 COOLCUT XX DISCS	77
15R712	7" GR120 ENDURO-FLEX DISC	67	15X608	6" GR80 COOLCUT XX DISCS	77
15T453	4-1/2" X 7/8 GR36 ERGOFLEX	72	15X610	6" GR100 COOLCUT XX DISCS	77
15T456	4-1/2" X 7/8 GR60 ERGOFLEX	72	15X612	6" GR120 COOLCUT XX DISCS	77
15T458	4-1/2" X 7/8 GR80 ERGOFLEX	72	15X702	7" GR24 COOLCUT XX DISCS	77
15T503	5" X 7/8 GR36 ERGOFLEX	72	15X703	7" GR36 COOLCUT XX DISCS	77
15T506	5" X 7/8 GR60 ERGOFLEX	72	15X705	7" GR50 COOLCUT XX	77
15T508	5" X 7/8 GR80 ERGOFLEX	72	15X706	7" GR60 COOLCUT XX DISCS	77
15T603	6" X 7/8 GR36 ERGOFLEX	72	15X708	7" GR80 COOLCUT XX DISCS	77
15T606	6" X 7/8 GR60 ERGOFLEX	72	15X710	7" GR100 COOLCUT XX	77
15T608	6" X 7/8 GR80 ERGOFLEX	72	15X712	7" GR120 COOLCUT XX DISCS	77
15T703	7" X 7/8 GR36 ERGOFLEX	72	15X723	7" GR36 COOLCUT XX / Q. CHANGE	78
15T706	7" X 7/8 GR60 ERGOFLEX	72	15X726	7" GR60 COOLCUT XX / Q. CHANGE	78
15T708	7" X 7/8 GR80 ERGOFLEX	72	15X728	7" GR80 COOLCUT XX / Q. CHANGE	78
15U704	7" X 7/8 GR40 ENDURO-FLEX ALU	65	15X732	7" GR120 COOLCUT XX / Q. CHANGE	78
15U706	7" X 7/8 GR60 ENDURO-FLEX ALU	65	30A141	6141 DIALSPEED GRINDER	165
15U708	7" X 7/8 GR80 ENDURO-FLEX ALU	65	30A145	6145 STRAIGHT GRINDER	166
15V412	4-1/2 GR120 QUICK STEP XX DISCS	100	30A150	6150 SUPER-5 GRINDER	155
15V418	4-1/2 GR180 QUICK STEP XX DISCS	100	30A153	6153 SUPER-5 PADDLE SWITCH	155
15V424	4-1/2 GR240 QUICK STEP XX DISCS	100	30A157	6157 PRO-5 GRINDER	155
15V512	5" GR120 QUICK STEP XX DISCS	100	30A161	6161 MINI-GRINDER	154
15V518	5" GR180 QUICK STEP XX DISCS	100	30A163	6163 MINI-GRINDER/PADDLE SWITCH	154
15V524	5" GR240 QUICK STEP XX DISCS	100	30A170	6170 7" MAXI GRINDER	158
15V612	6" GR120 QUICK STEP XX DISCS	100	30A190	6190 9" MAXI GRINDER	158
15V618	6" GR180 QUICK STEP XX DISCS	100	30A255	6255 MINI-PLUS GRINDER	154
15V624	6" GR240 QUICK STEP XX DISCS	100	30A260	6260 BIG-6 GRINDER	156
15X452	4-1/2 GR24 COOLCUT XX DISCS	77	30A263	6263 BIG-6/PADDLE SWITCH	156
15X453	4-1/2 GR36 COOLCUT XX DISCS	77	30A265	6265 BIG-BUFF POLI/SANDER	161

Order No.	Description	Page	Order No.	Description	Page
30A267	6265 BIG-BUFF KIT	161	53B203	STAINLESSCUT LIQUID/350 ML	178
30A268	6268 LINE-MATE DRUM SANDER	164	53B205	STAINLESSCUT LIQUID 3.78 L	178
30A269	LINE-MATE KIT	164	53B303	ALUCUT LUB STICK/300 G	178
30A275	QUICK-STEP SANDER/POLISHER	160	53C005	COOLCUT S-30 3.78 L	177
30A277	QUICK-STEP SANDER/POLISHER KIT 120V	160	53C007	COOLCUT S-30/20 LTR	177
30A285	ULTI-MATE FINISHING TOOL, 120V	162	53C008	COOLCUT S-30 / 208L	177
30A287	ULTI-MATE FINISHING KIT, 120V	162	53C025	COOLCUT S-50 / 3.78 L	177
30A289	RAIL-MATE, TUBE FINISHING TOOL&KIT	163	53C027	COOLCUT S-50/20 LTR	177
30A560	IRONMAN GRINDER 5"/6"	157	53C028	COOLCUT S-50 / 208L	177
30A563	IRONMAN GRINDER 5"/6" PS	157	53C055	ICECUT COOLANT-LUB 3.78 L	179
30A606	6606 STRAIGHT-MATE 6" STRAIGHT GRINDER KIT	159	53C057	ICECUT COOLANT-LUB/20L	179
30A607	6607 STRAIGHT-MATE 6" STRAIGHT GRINDER	159	53C502	SLAP-SHOT AEROSOL/500ML	170
30B002	BENCH MOUNT COMPLETE	211	53C503	SLAP-SHOT SPRAYER/500ML	170
30B010	CARRYING CASE-GRIND./DRILL	211	53C506	SLAPSHOT LIQUID/5L	170
30B017	FLANGE FOR 5/8"SPINDLE	210	53C507	SLAPSHOT LIQUID/20L	170
30B020	QUICK NUT 5/8"-11	210	53C508	SLAPSHOT LIQUID/200L	170
30B021	5/8"-11 MOUNTING SET	210	53C552	SLAP-SHOT PL, AEROSOL/400ML	170
30B022	3"X5/8"-11 FLANGE SET	210	53C557	AF-PL LIQUID / 20L	168
30B024	SPIN-ON PERFORMANCE KIT	210	53C558	AF-PL LIQUID/200L	168
30B027	FLANGE RETENTION RING-PKG/10	210	53C712	CONTACT CLEAN/12 OZ	171
30B030	5/8"-11 MOUNTING SET/ERGOFLEX	210	53D102	CHAIN GANG SPRAY/400 ML	173
30B031	ERGOFLANGE 1/4" - PKG/5	72	53D602	FOOD ZONE AEROSOL/400ML	172
30B037	5/8" CLAMP NUT	210	53D652	FOOD ZONE V AEROSOL/400ML	172
30B046	1/4 IN COLLET 6141/6145D	211	53D812	HANG-ON SPRAY/400ML	174
30B047	1/8 IN COLLET 6141/6145D	211	53D817	HANG-ON LIQUID/20L	174
30B048	6MM COLLET 6141/6145D	211	53D852	ROCK 'N' ROLL SPRAY/400ML	175
30B051	3"CUT-OFF GUARD/DIE GRINDER	211	53D854	ROCK 'N' ROLL PASTE/300G	175
30B057	5/8"-BACK FLANGE FOR SPINDLE	210	53D882	COLD SHOCK AEROSOL/400ml	175
30B065	CUTTING WHEEL GUARD 7"	211	53D892	BOLT-OUT AEROSOL /400ML	174
30B066	CUTTING WHEEL GUARD 9"	211	53D893	BOLT-OUT SPRAYER/500ML	174
30B093	WALTER GLOVES, LARGE	211	53D897	BOLT-OUT LIQUID/20L	174
30B095	WALTER GLOVES, X-LARGE	211	53E102	OPEN GEAR SPRAY/400 ML	173
32B027	ANTI-VIBRATION HANDLE	210	53F002	E-WELD AEROSOL/400ML	30
34A150	ZIP WHEEL CUTTER, 4-1/2 / 5"	152	53F103	E-WELD GEL 200G	27
34A160	ZIP WHEEL CUTTER, 6"	152	53F203	E-WELD SPRAYER/500ML	30
34A949	ZIP WHEEL CUTTER LAUNCH OFFER/4-1/2 "	152	53F205	E-WELD LIQUIDE 3.78 L	30
34A950	ZIP WHEEL CUTTER LAUNCH OFFER/5"	152	53F207	E-WELD LIQUIDE/20 L	30
34A951	ZIP WHEEL CUTTER LAUNCH OFFER/6"	152	53F208	E-WELD LIQUID/208L	30
34B001	BATTERY 18 V, 5.2Ah	152	53F212	E-WELD NOZZLE AEROSOL/400ML	26
34B002	CHARGER, 120V	152	53F253	E-WELD 3 500 ML	30
34B010	PLASTIC CLOSED GUARD, 4-1/2"	153	53F255	E-WELD 3 3.78 L	30
34B011	PLASTIC CLOSED GUARD, 5"	153	53F257	E-WELD 3/ 20 L	30
34B012	PLASTIC CLOSED GUARD, 6"	153	53F258	E-WELD 3/ 208L	30
34B013	CARRYING CASE-CORDLESS TOOLS	153	53F403	E-WELD 4 /500ML	32
39D100	ICECUT 100 MAG.DRILLING UNIT	141	53F405	E-WELD 4/ 3.78 L	32
39D200	ICECUT 200 MAG.DRILLING UNIT	141	53F407	E-WELD 4/ 20 L	32
39D250	ICECUT 250 MAG. DRILLING UNIT	143	53F408	E-WELD 4/ 208 L	32
39D251	ICECUT 250-PIPES, MAG DRILL	143	53F605	E-WELD PLASMA, 10Kg	29
39D300	ICECUT 300 MAG. DRILLING UNIT	142	53F912	E-WELD NOZZLE AEROSOL KIT	26
39D400	ICECUT 400 MAG. DRILLING UNIT	142	53G001	CORROSION INHIBITOR/950ML	200
53A103	TAPCUT/350 ML	179	53G002	DEFOAMER ADDITIVE/ 950ML	200
53A105	TAPCUT 3.78 L	179	53G015	UNO S F 3.78 L	197
53A107	TAPCUT/20 L	179	53G017	UNO S F/ 20L	197
53B002	COOLCUT SPRAY/400 ML	176	53G018	UNO S F/ 208L	197
53B003	COOLCUT LIQUID/350 ML	176	53G019	UNO S F/ 1000 L	197
53B004	COOLCUT SPRAYER/500ML	176	53G023	UNO SF/500ML	197
53B005	COOLCUT LIQUID 3.78 L	176	53G033	UNO S 500ML IND. STRENGTH DEGREASER	197
53B007	COOLCUT LIQUID/20 L	176	53G035	UNO S 3.78L	197
53B008	COOLCUT LIQUID/208 L	176	53G037	UNO S 20L	197
53B013	COOLCUT LUB STICK/300 G	176	53G038	UNO S 208L IND. STRENGTH DEGREASER	197
53B202	STAINLESSCUT SPRAY/400ML	178	53G039	UNO S IND. STRENGTH DEGREASER 1000 L	197

Order No.	Description	Page	Order No.	Description	Page
53G067	STAR 200/ 20 L	198	53L115	LUBRICANT DRUM PUMP	214
53G068	STAR 200/ 208L	198	53L116	DRUM PUMP/SOLV+AQUEOUS	214
53G123	CB 100 ALU / 500ML	191	53L120	SOLVENT PUMP SPRAYER	212
53G125	CB 100 ALU 3.78L	191	53L121	E-WELD NOZZLE APPLICATOR	26
53G127	CB 100 ALU / 20L	191	53L126	E-WELD PLASMA, HAND SPRAYER	29
53G128	CB 100 ALU / 208L	191	53L158	EMPTY BOTTLE UNO S F 950ML	212
53G125	CB 100 ALU /1000L	191	53L160	TITRATION KIT	200
53G163	CB 100 / 500ML	191	53L162	PROPORTIONING SYSTEM	200
53G165	CB 100 / 3.78L	191	53L207	SPOUT PLASTIC CONTNR 20L	214
53G167	CB 100 / 20L	191	53L208	DISPENSING SPOUT/200L DRUM	214
53G168	CB 100 / 208L	191	53L209	2" FAUCET/200L PLASTIC DRUM	214
53G169	CB 100 /1000L	191	53L210	3/4" SPIGOT /20L	214
53G173	FT200/ 500 ML	204	53L309	EMPTY BOTTLE PWR CLEANER 100	212
53G177	FT200/ 20 L	204	53L311	EMPTY SPRAY BOTTLE/SLAP SHOT	212
53G178	FT200/ 208 L	204	53L313	EMPTY SPRAY BOTTLE/SC400	212
53G182	FT100 AEROSOL 400ML	204	53L314	EMPTY SPRAY BOTTLE/OMNI	212
53G183	FT100/ 500 ML	204	53L315	EMPTY SPRAY BOTTLE/UNO SF	212
53G187	FT100/ 20 L	204	53L316	EMPTY SPR. BOTTLE/E-NOX SHINE	212
53G188	FT100/ 208 L	204	53L320	EMPTY SPRAY BOTTLE/E-WELD 3	32
53G247	BIO-RUST/20L	202	53L321	EMPTY SPRAY BOTTLE/E-WELD	32
53G248	BIO-RUST/208L	202	53L322	EMPTY SPRAY BOTTLE/FT 200	212
53G253	POWER CLEANER 100/ 500 ML	202	53L331	EMPTY SPRAY BOTTLE/HANG-ON	212
53G255	POWER CLEANER 100 3.78L	202	53L332	EMPTY SPRAY BOTTLE/BOLT-OUT	212
53G257	POWER CLEANER 100/ 20 L	202	53L337	EMPTY SPRAY BOTTLE/E-NOX CLEAN	212
53G303	E-NOX CLEAN, 500ML	201	53L338	EMPTY SPRAY BOTTLE/E-WELD 4	32
53G305	E-NOX CLEAN, 3.78L	201	53L339	EMPTY SPRAY BOTTLE/SURFOX-N	18
53G307	E-NOX CLEAN, 20L	201	53L341	EMPTY SPRAY BOTTLE/PRO CLEAN	212
53G308	E-NOX CLEAN, 208L	201	53L342	EMPTY SPRAY BOTTLE/CB 100	212
53G403	E-NOX SHINE SPRA/500ML	201	53L343	EMPTY SPRAY BOTTLE/CB 100 ALU	212
53G405	E-NOX SHINE/3.78L	201	53L353	SURFOX RENEW EMPTY SPRAYER	18
53G407	E-NOX SHINE/20L	201	53L354	SURFOX PRE-WELD SPRAYER	18
53G408	E-NOX SHINE/208L	201	53M010	AIR FORCE REFILL STATION	207
53G513	SC 400 SPRAYER / 500ML	203	53M012AF0BB	AIR FORCE OMNI 20L, 2 YRS WARRANTY	207
53G516	SC 400 / 3.78 L	203	53M012AF0D	AIR FORCE OMNI 200L, 2 YRS WARRANTY	207
53G517	SC 400/ 20L	203	53M012AFPLD	AIR FORCE AF-PL 200L, 2 YRS WARRANTY	169
53G518	SC 400/ 200L	203	53M012AFPLP	AIR FORCE AF-PL 20L, 2 YRS WARRANTY	169
53G519	SC 400/ 1000L	203	53M015	AIR NOZZLE	169
53G523	PRO CLEAN 500ML	203	53M022	NOZZLE(WHITE)-WIDE SPRAY	169
53G525	PRO CLEAN 3.78L	203	53M025	SAFETY RELIEF VALVE	169
53G527	PRO CLEAN 20L	203	53M030	REPLACEMENT KIT/AIR FORCE	169
53G528	PRO CLEAN 208L	203	53M037	BRASS SCREW CAP	169
53G529	PRO CLEAN /1000L	203	53M038	AIRFORCE 2" DRUM ADAPTOR	169
53G705	ALUSTAR 200 / 3.78L	199	53M039	AIRFORCE VALVE-AIR/LIQUID	169
53G707	ALUSTAR 200 / 20L	199	53M041	AIR FORCE 20L ADAPTOR	169
53G708	ALUSTAR 200 / 208 L	199	53M052	NOZZLE W/LONG EXT. TUBE	169
53G709	ALUSTAR 200, 1000 L	199	53M054	VARIABLE SPR. VALVE/53M012	169
53G757	ALUSTAR 300 / 20L	199	53M101	AIRFORCE/AF-PL BOTTLE	169
53G758	ALUSTAR 300 / 208 L	199	53M132	AF / OMNI - BOTTLE	207
53G759	ALUSTAR 300 / 1000 L	199	53X002	OMNI AEROSOL/480ML-389G	205
53G927	CORRISON INHIBITOR ADDITIVE/ 20L	200	53X003	OMNI SPRAYER/500ML	205
53G928	CORRISON INHIBITOR ADDITIVE/ 208L	200	53X005	OMNI / 3.78L	205
53G937	DEFOAMER ADDITIVE/ 20L	200	53X007	OMNI/ 20L	205
53H102	ZINC-100 SPRAY/326G	180	53X008	OMNI / 208L	205
53H152	ZINC-200 AEROSOL/326G	180	53X009	OMNI / 1000 L	205
53H255	SHIELD PRO 3.78L	180	54A001	SURFOX-T 100ML-PKG/6	16
53H257	SHIELD PRO 20L	180	54A003	SURFOX-T WELD, SPRAYER 500ML	16
53H258	SHIELD PRO 200L	180	54A005	SURFOX-T WELD 1.5L	16
53L101	1 L COMPRESSED AIR SPRAYER	32	54A006	SURFOX-T WELD/ 5L	16
53L105	1 L COMPRESSED AIR SPRAYER	32	54A007	SURFOX-T WELD/20L	16
53L107	1 L PUMP SPRAYER/E-WELD 4	32	54A008	SURFOX-T WELD/208L	16
53L113	FAUCET FOR 3.78L CONTAINER	211	54A023	SURFOX-N SPRAYER/500ML	16

Order No.	Description	Page	Order No.	Description	Page
54A025	SURFOX-N 3.78 L	16	54B158	THREADED ROUND BRUSH - PKG/5	14
54A027	SURFOX-N 20L	16	54D055	MINI SURFOX (V5), 120V	15
54A028	SURFOX-N 208L	16	54D215	SURFOX 205, 120V	14
54A031	SURFOX MARKING SOLUTION, 100ml	20	54D315	SURFOX 305, 120V	13
54A041	SURFOX ETCHING SOLUTION, 100ml	20	54T011	BLUETOOTH PASSIVATION TESTER	23
54A061	SURFOX-G / 100ML, PKG/6	16	55A007	BIO-CIRCLE L / 20L	192
54A065	SURFOX-G / 1.5L	16	55A008	BIO-CIRCLE L / 208L	192
54A066	SURFOX-G / 5L	16	55A009	BIO-CIRCLE L / 1000 L	192
54A067	SURFOX-G / 20L	16	55A107	BIO-CIRCLE ULTRA / 20L	192
54A068	SURFOX-G ELECTROLYTE SOLUTION, 208L	16	55A108	BIO-CIRCLE ULTRA / 208L	192
54A073	SURFOX PRE WELD, 500ML	17	55A109	BIO-CIRCLE ULTRA/ 1000 L	192
54A076	SURFOX PRE WELD/5L	17	55A207	BIO-CIRCLE AERO / 20L	193
54A077	SURFOX PRE WELD 20L	17	55A208	BIO-CIRCLE AERO / 208L	193
54A078	SURFOX PRE WELD 208L	17	55A209	BIO-CIRCLE AERO / 1000L	193
54A083	SURFOX RENEW,500ML	17	55B004	PARTS WASHING BASKET	213
54A085	SURFOX RENEW 3.78 L	17	55B005	FLOW-THROUGH BRUSH	213
54A087	SURFOX RENEW 20L	17	55B007	FLOW-THROUGH BRUSH - ANGLE	213
54A093	SURFOX SHINE 500ML	17	55B011	NYLON MESH FILTER-350M	213
54A095	SURFOX SHINE 3.78 L	17	55B012	FILTER CARTRIDGE-100M	213
54A097	SURFOX SHINE 20L	17	55B021	FILTER CARTRIDGE 200M	213
54A131	SURFOX-M ALU 100ML	20	55B035	SPANNER FOR FILTER HOUSING	213
54A136	SURFOX-M ALU/5L	20	55B036	NYLON MESH FILTER-100 MICRON	213
54B002	SURFOX CLAMP RING PKG/10	18	55B038	NYLON MESH FILTER-200 MICRON	213
54B009	LARGE GRAPHITE INSERT/SURFOX 204	13	55B041	FILTER BAG 50 MICRON-PKG/6	213
54B020	NARROW CLAMP RING PKG/10	18	55B042	FILTER BAG 100 MICRON-PKG/6	213
54B026	SURFOX CLEANING PAD-PKG/10	13	55B043	FILTER BAG 200 MICRON-PKG/6	213
54B027	CLEANING BOOT / 10 PKG	18	55B047	LID FOR MAXI GT	213
54B028	NARROW CLEAN BOOT-90 DEG/10	15	55B048	SINK INSERT MAXI GT	213
54B033	MINI SURFOX WAND KIT	18	55B049	WHEEL BAR KIT/ MAXI GT	213
54B038	NARROW INSERT-90 DEG/MINI	15	55B051	HAND PUMP	213
54B043	LARGE PAD/GRAPHITE INSERT-PKG/10	18	55B063	BIO CIRCLE SCRAPER	213
54B044	BLOTTER PAPER-PKG/100	24	55B085	BIO CIRCLE AIR GUN KIT	213
54B045	WHITE FELT TIPS-PKG/5, ID TESTER	24	55B087	STAINLESS STEEL BASKET	213
54B048	LARGE GRAPHITE INSERT/MINI	15	55D010	CLEAN BOX	202
54B050	CART FOR SURFOX	18	55D600	BIO-CIRCLE MAXI PART WASHER	194
54B051	LARGE PAD/GRAPHITE INSERT-PKG/10	15	55D600BCAD	BIO-CIRCLE MAXI with 1 AERO 208L	195
54B052	LARGE PAD/GRAPHITE INSERT-PKG/5	13	55D600BCAP	BIO-CIRCLE MAXI with 6 AERO 20L	195
54B063	CORD SET	20	55D600BCLD	BIO-CIRCLE MAXI & 1 BIO-CIRCLE L 208L	195
54B073	170X108MM STENCIL	20	55D600BCLP	BIO-CIRCLE MAXI with 6 BIO-CIRCLE L 20L	195
54B074	257X170MM STENCIL	20	55D600BCUD	BIO-CIRCLE MAXI with 1 ULTRA 208L	195
54B076	54X32MM STENCIL	20	55D600BCUP	BIO-CIRCLE MAXI with 6 ULTRA 20L	195
54B077	85X54MM STENCIL	20	55D615CBAD	BIO-CIRCLE MAXI & 1 CB100 ALU 208L	195
54B080	STANDARD SURFOX MARKING KIT	19	55D615CBAP	BIO-CIRCLE MAXI & 6 CB100 ALU 20L	195
54B081	SURFOX PRO MARKING KIT/PRINTER	19	55D615CBD	BIO-CIRCLE MAXI & 1 CB100 208L	195
54B082	MARKING/ETCHING WAND COMPLETE	20	55D615CBP	BIO-CIRCLE MAXI & 6 CB100 20L	195
54B083	MARKING PADS-PKG/20	20	57M001	GREEN POWERCLOTH / PKG 10	212
54B086	STENCIL ROLL 100mm X 20mt	20	57M005	16X16 MICROFIBER CLOTH/PKG 50	212
54B087	STENCIL ROLL 100mm X 50mt	20	57M010	16X16 MICROFIBER CLOTH/PKG 100	212
54B088	GRAPHITE MARKING INSERT 35X10mm	20			
54B089	O-RINGS FOR MARKING KIT - PKG/5	20			
54B090	ORANGE POWERCLOTH / PKG 10	18			
54B092	SURFOX CARTRIDGE REFILLER	15			
54B125	SURFOX WAND, 4M	13			
54B126	SURFOX WAND, 9M	13			
54B133	MINI WAND KIT C/W CARBON FIBRE BRUSH	18			
54B143	TUNGSTEN INSERT	13			
54B149	THREADED BRUSH ADAPTOR, SURFOX 205/305	13			
54B150	BRUSH ADAPTOR, SURFOX MINI	15			
54B155	THREADED TRIANGULAR BRUSH - PKG/5	13			
54B156	THREADED ROUND BRUSH/ - PKG/5	13			
54B157	THREADED ROUND BRUSH/ MINI -PKG/5	15			





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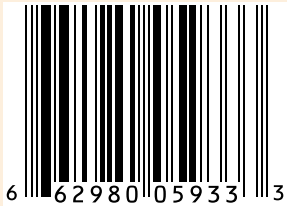
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**2019 CATALOG**

Effective January 1, 2019.

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