

# CS UNITEC Surface Finishing Tools & Accessories

*The value is in the engineering... the payback is in the performance.™*

CS Unitec offers professional power tools and abrasive accessories for surface finishing on **STEEL, STAINLESS STEEL, ALUMINUM** and other metals, as well as rigid plastics and wood.

**Innovation is the engine of efficiency!™**

Innovations in machine design, abrasive materials and production methods have led the way to:



## Hollow-core abrasives for linear grinding

The PTX Eco Smart is a linear surface finishing machine with a finned shaft for quick abrasive changing – simply slide on the abrasives and they secure automatically. This saves time and the abrasive wheels cost less. (Patented!)

Belts with buttonhole fastening system for grinding and polishing closed pipe constructions. (Patented!)



## 5/8"-11 SPEED NUT changeover

The **EASY-LOCK SPEED NUT** allows you to change flap discs in seconds, without tools. It is easily hand tightened and eliminates the need for wrenches or expensive hubs. (Patented!)

## Important advancements in flap disc technology

- PLANTEX® high-tech hemp fiber compound (Patented!)
- POLY-MAGIC-WHEEL for dry polishing inside corners
- MAGNUM® FLEECE TOP for surface conditioning, fine finishing and polishing

## Safer and more efficient!

CS Unitec is the source for flap discs and abrasives that are free of fiberglass, mineral fibers and epoxy resin. They offer superior material removal, longer service life and smoother ergonomic handling.

## Better for the environment!

The fiber in the high-tech PLANTEX® compound is derived from the hemp plant – a sustainable raw material which counteracts greenhouse emissions as it grows. The PTX hollow-core abrasives not only improve production efficiencies, but also minimize pollution from production to waste disposal... no plastic insert!

## Better for your bottom line!

In addition to their time-saving features and high quality, flap discs and abrasives from CS Unitec can save you money – their cost of production is lower, their quality is among the best and they offer superior service life. Hollow-core abrasive wheels from CS Unitec are more affordable than traditional solid-core abrasives since they can be produced from less raw material. These new hollow-core abrasive wheels can also be used on traditional finishing machines with the aid of a simple core adapter (see page 85).





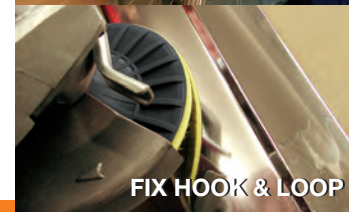
Hemp fiber is an almost ideal base material for backing plates of flap discs... and it is a renewable resource!



View product demonstrations at [www.csunitec.com](http://www.csunitec.com).

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### Safety Guidelines

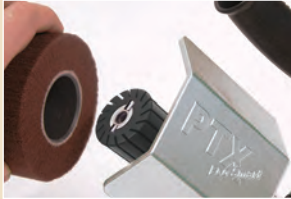
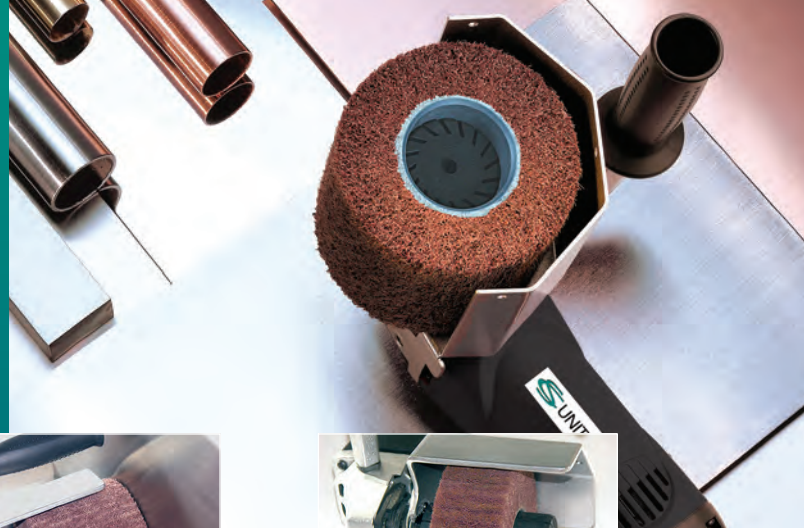
Use all products according to the safety regulations of OSHA and directives by ANSI (American National Safety Institute) B7.1, European DIN EN 13743 and all other applicable international safety standards.



# PTX ECO SMART

The professional linear finishing system for hard, continuous use.

A revolution in linear grinding! Simply slide on the abrasives and they secure themselves automatically when the machine turns. Fast and easy!



Press the spindle lock and simply slide on the abrasive wheels or brushes, turning in the correct direction onto the finned shaft. They will be secured automatically.



Grinding in corners is easy – simply slide the abrasive wheel on the finned shaft a little towards the outside.



Even narrow abrasive wheels can be used on the PTX Eco Smart and positioned freely on the finned shaft (no spacer rings required).



Adjustable handle for right and left-handed users. Anti-vibration handle for comfortable, fatigue-free working.



Simple speed control during operation. Tachogenerator for stable speeds.



QUICK-LOCK cable for fast, easy replacement if cable is damaged. 13 ft., included. **Part Number: 52004-2**



Infinitely adjustable cover guard with securing points for the extraction cover. **Part Number: 40005**



Extended polycarbonate cover guard for grinding wheel widths up to 6". **Part Number: 52706**



Hollow core shaft adapter for roller wheel widths up to 6" and vibration-free operation. **Part Number: 42004**



PTX Eco Smart

110 Volt  
or 220 Volt



Perfect finishes on large surfaces, with no shadows or streaks.



*New abrasive mounting system saves time, reduces cost and eliminates vibration.*

**PTX Eco Smart is a multi-functional grinding and polishing system for flat surfaces and open or closed pipe constructions.**

- Grind from coarse to shadow-free matte finish, up to a mirror polish
- Remove welds, deep scratches, oxidation and rust
- Ideal for stainless steel, steel and nonferrous metals including aluminum, brass, bronze and copper, as well as wood and rigid plastic
- Complete line of grinding wheels, belt sleeves, special brushes, polishing and maintenance abrasives available
- Balanced straight-line handling, high torque and electronic speed control
- Abrasive mounting system allows quick changeover, vibration-free operation and 100% concentricity
- Core-free abrasives save money and produce less waste



Satin finishing using interleaf fleece wheel.



A wide selection of hollow-core abrasives is available for the PTX Eco Smart. The lack of a core insert means that the abrasives are lighter, easier to use and less expensive.

**NOTE:** We do continue to carry abrasives with core insert adapters for older LP 1503 VR model grinders and other machines. Contact us for more information.

### PTX Eco Smart Specifications

Order No.	PTX ECO SMART	SP
Motor Power	15 Amp (1710 Watts); 110 Volt/60Hz (Also available: 230 Volt / 50 Hz)	
Speed Control Dial	Variable speed control from 1000 to 3800 RPM with tachogenerator for constant speed, even under load	
Wheel Width	2", 4" or 6" wide abrasives	
Wheel Diameter	up to 4 <sup>1</sup> / <sub>2</sub> "	
Weight	7.25 lbs.	
Standard Equipment	4" Interleaf (combi) wheel – P/N 47312 Shaft Adapter – P/N 42004	



A range of professional PTX Eco Smart kits is available for a variety of applications. See page 86 for more information.

## Accessories



### Hollow-core Shaft Adapter

Allows user to utilize more economical hollow-core abrasives on traditional surface finishers. Fits 3/4" dia. x 4" long shaft and 1/4" keyway(s). Overall diameter of adapter is 1-3/4" (45mm)  
**Part Number: 42004**

### The PTX Bench Grinder – MULTI-MAX

Multipurpose sander with two shaft mountings for grinding discs, angle grinders and grinding rollers for longitudinal grinders. Uses all PTX abrasive wheels and discs. (See page 92 for more details.)





# PTX Eco Smart Kits

## PTX Professional Kit For Metalworking

This set comes in a strong, impact-resistant transport case and contains everything you need for shadow-free industrial finishes. Match or create any finish up to a mirror finish on metals. Prevent marks and fingerprints with newly developed cleaning products and preservatives.

**Part Number 47004A**



### PTX Professional Kit for Metalworking includes:

- 1 PTX Eco Smart machine
- 1 Professional Case (P/N 80002)
- 1 40 grit flap wheel, 4" x 4-1/8" (P/N 47211)
- 1 80 grit Interleaf (Combi) wheel, 4" x 4-1/8" (P/N 47312)
- 1 Expansion roller, 3-1/2" x 4" (P/N 47005)
- 2 80 grit grinding belt sleeve, 3-1/2" x 4" (P/N 42080)
- 1 Fine fleece (Nonwoven) sleeve, 3-1/2" x 4" (P/N 42012)
- 1 Medium fleece (Nonwoven) sleeve, 3-1/2" x 4" (P/N 42011)
- 2 A45 TZ Pyramid sleeves, 3-1/2" x 4" (P/N 42245)
- 2 A30 TZ Pyramid sleeves, 3-1/2" x 4" (P/N 42230)
- 2 A16 TZ Pyramid sleeves, 3-1/2" x 4" (P/N 42216)
- 2 A06 TZ Pyramid sleeves, 3-1/2" x 4" (P/N 42206)
- 3 SuperPolish sleeves, 3-1/2" x 4" (P/N 42013N)
- 1 Belt driving roller (P/N 47006)
- 2 80 grit grinding belts, 1.2" x 24" (P/N 49080)
- 1 Medium fleece (Nonwoven) belt, 1.2" x 26" (P/N 49002)
- 2 A45 TZ Pyramid belts, 1.2" x 24" (P/N 49345)
- 2 A30 TZ Pyramid belts, 1.2" x 24" (P/N 49330)
- 2 A16 TZ Pyramid belts, 1.2" x 24" (P/N 49316)
- 2 A06 TZ Pyramid belts, 1.2" x 24" (P/N 49306)
- 3 SuperPolish belts, 1.2" x 26" (P/N 49004N)
- 1 Mini high gloss polishing paste, pink (P/N 40015T)
- 2 Mini polishing pastes, white and blue [P/N 40013 (white) P/N 40014 (blue)]
- 1 PTX Brightex® scatter can (P/N 40029)
- 5 Microfiber cloths (P/N 40031)
- 1 Brilliance-Clean spray bottle (P/N 40050)
- 1 INOX-Protect spray bottle (P/N 40040)

## PTX Basic Kit for Metal

Basic set for coarse finishing to #4 finish on flat surfaces and pipes.

**Part Number 47003A**

### PTX Basic Kit for Metal includes:

- 1 PTX Eco Smart machine
- 1 Carrying Case (P/N 40008)
- 1 60 grit flap wheel, 4" x 4-1/8" (P/N 47212)
- 1 80 grit Interleaf (Combi) wheel, 4" x 4-1/8" (P/N 47312)
- 1 Expansion roller, 3-1/2" x 4" (P/N 47005)
- 1 Medium fleece (Nonwoven) sleeve, 3-1/2" x 4" (P/N 42011)
- 1 Belt driving roller (P/N 47006)
- 1 80 grit grinding belt, 1.2" x 24" (P/N 49080)
- 1 Medium fleece (Nonwoven) belt, 1.2" x 26" (P/N 49002)
- 1 40 grit grinding belt, 3.6" x 4" (P/N 42040)
- 1 60 grit grinding belt, 3.6" x 4" (P/N 42060)
- 1 80 grit grinding belt, 3.6" x 4" (P/N 42080)
- 1 120 grit grinding belt, 3.6" x 4" (P/N 42120)



## PTX Kit For Woodworking

The complete set for treating wooden surfaces. Strong transport case with PTX Eco Smart and a range of brush wheels for various wood structures. Suction cover for extracting grinding dust particles.

**Part Number 40004-3A**

### PTX Basic Kit for Woodworking includes:

- 1 PTX Eco Smart machine
- 1 Carrying Case (P/N 40008)
- 1 Suction cover (P/N 40005)
- 1 Spacer ring (P/N 40007)
- 1 PTX stranded wire wheel (P/N 46301)
- 1 Bristle wheel (P/N 46101)
- 1 Fiber wheel (P/N 46400)



# PTX Grinding Wheels for Coarse and Fine Finishing

PTX abrasives from CS Unitec are made according to high quality standards. A unique production process guarantees high concentricity for vibration-free grinding – ideal for fatigue-free working and perfect surface finishes with no transitions or shadows. **Simply try it!** You will be surprised how much smoother a PTX grinding wheel or brush wheel is.



## PTX FLEECE (Nonwoven) Wheel

Flexible nylon fleece impregnated with abrasives for a first-class finish. Produces shadow-free matte, satin and polished finishes. For removing oxidation on stainless steel and nonferrous metals and also suitable for smoothing wooden surfaces. Very high fleece content by fleece compression.

**Diameter:** 4"  
**Width:** 2", 4-1/8" or 6"  
**Grit:** 60, 80, 180, 280, 400, 600



## PTX Interleaf (Combi) Wheel

Nylon fleece combined with abrasive flaps for matte finishing, burnishing and removing light scratches, oxidation and handling marks on stainless steel and all metals. For removing old paint on wood while smoothing at the same time.

**Diameter:** 4"  
**Width:** 2", 4-1/8" or 6"  
**Grit:** 60, 80, 180



## PTX Flap Wheel

With radial abrasive cloth flaps in various grit sizes for removing rust, oxidation layers, minor scratches and for the regraining and burnishing of metals.

**Diameter:** 4"  
**Width:** 2" or 4-1/8"  
**Grit:** 24, 40, 50, 60, 80, 120, 180, 240



## PTX CLEAN Wheel

Made of hard-textured, nonwoven fleece for cleaning and descaling welds, pore-deep removal of rust, oxidation and coatings, cleaning beams, bricks, etc. Produces an effective linear finish on stainless steel.

**Diameter:** 4"  
**Width:** 2" or 4"  
**Grit:** Medium



## PTX GUM Wheel

Soft rubber impregnated with abrasive grit for the removal of minor scratches. Ideal for a bright, decorative linear finish on stainless steel and nonferrous metals and for smoothing wooden fibers.

**Diameter:** 4"  
**Width:** 2" or 4"  
**Grit:** 60, 180

### HOLLOW-CORE ABRASIVES HAVE MANY ADVANTAGES:

- Easy to mount – simply slide on and off
- 100% concentricity – no vibration
- Lower cost and higher productivity!

We continue to carry abrasives with core inserts.  
Contact us for more information.

### PTX Fleece Nonwoven Wheels

Part No.	Grit	Size (dia. x width)
47411	60	4" x 4 1/8"
47412	80	4" x 4 1/8"
47413	180	4" x 4 1/8"
47414	280	4" x 4 1/8"
47415	400	4" x 4 1/8"
43601*	600	4" x 4 1/8"
47401	60	4" x 2"
47402	80	4" x 2"
47403	180	4" x 2"
47404	280	4" x 2"
47405	400	4" x 2"
47422	80	4" x 6"
47423	180	4" x 6"

\* Keyed shaft

### PTX Interleaf (Combi) Wheels

Part No.	Grit	Size (dia. x width)
47311	60	4" x 4 1/8"
47312	80	4" x 4 1/8"
47313	180	4" x 4 1/8"
47301	60	4" x 2"
47302	80	4" x 2"
47303	180	4" x 2"
47322	80	4" x 6"
47323	180	4" x 6"

### PTX Flap Wheels

Part No.	Grit	Size (dia. x width)
47211	40	4" x 4 1/8"
47212	60	4" x 4 1/8"
47213	80	4" x 4 1/8"
47214	120	4" x 4 1/8"
47215	180	4" x 4 1/8"
47201	24	4" x 2"
47202	40	4" x 2"
47204	60	4" x 2"
47205	80	4" x 2"
47206	120	4" x 2"
47207	180	4" x 2"
47208*	240	4" x 2"

\* Keyed shaft

### PTX CLEAN Wheels

Part No.	Grit	Size (dia. x width)
47511	Medium (black)	4" x 4"
40018A*	Medium (black)	4" x 2"

\* Keyed shaft

### PTX GUM Wheels

Part No.	Grit	Size (dia. x width)
45061*	60	4" x 4 1/8"
45181*	180	4" x 4 1/8"
45180*	180	4" x 2"

\* Keyed shaft





# Expansion Roller

Use with sanding belts, fleece and felt sleeves. The sleeves are simply pushed over the expansion roller and held securely in place by the centrifugal force. **3-1/2" dia. x 4" wide – Part Number: 47005**

## TIPS & TRICKS

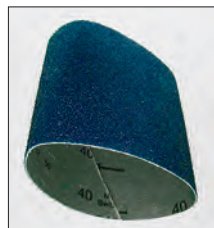
### Expansion Roller – Hard Rubber

Internal expansion slots now allow easier sleeve replacement and improved adjustment to the workpiece, as well as vibration absorption and concentricity.

**Part Number: 47005**



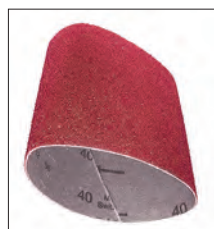
## Belt Sleeves for Expansion Roller



### PTX Zirconium Grinding Belt Sleeve

Made of zirconium. Removes deep scratches and grinds weld seams on metals. Far less rework is required as a result of using the time-saving linear grinding technique.

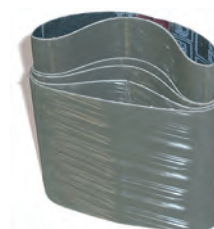
**3-1/2" dia. x 4" wide**  
**Grit: 40, 60, 80, 120, 150, 180**



### PTX Ceramic Grinding Belt Sleeve

High-performance ceramic aluminum oxide grain. Increased removal rate and longest life for highest productivity. Excels in all metals.

**3-1/2" dia. x 4" wide**  
**Grit: 40, 60, 80**



### PTX TZ Pyramid Sleeve

New abrasive cloth with pyramid-shaped grit structure. High material removal while producing a very fine finish, reducing the amount of work required when compared to grinding belt sleeves and fleece sleeves. Ideal for pre-polishing for fine mirror finishes and removing scratches and spot welds. Even roller scale can be removed easily.

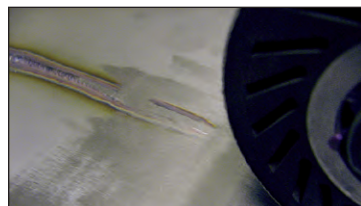
**3-1/2" dia. x 4" wide**  
**Grit: A65/320, A45/400, A30/600, A16/1200, A06/2000**



### PTX Fleece "Nonwoven" Sleeve

Nylon impregnated with abrasive grit for removing minor to medium scratch marks and oxidation coatings, matte and satin finishing and deburring applications.

**3-1/2" dia. x 4" wide**  
**Grit: Coarse, Medium, Fine, Superfine**



The expansion roller is helpful when grinding large areas and removing large welds.

### PTX Zirconium Grinding Belt Sleeves

Part No.	Grit	Size (dia. x w)	Quantity
42040	40	3 1/2" x 4"	10 per pack
42060	60	3 1/2" x 4"	10 per pack
42080	80	3 1/2" x 4"	10 per pack
42120	120	3 1/2" x 4"	10 per pack
42150	150	3 1/2" x 4"	10 per pack
42180	180	3 1/2" x 4"	10 per pack

### PTX Ceramic Grinding Belt Sleeves

Part No.	Grit	Size (dia. x w)	Quantity
42440	40	3 1/2" x 4"	10 per pack
42460	60	3 1/2" x 4"	10 per pack
42480	80	3 1/2" x 4"	10 per pack

### PTX TZ Pyramid Sleeves

Part No.	Grit	Size (dia. x w)	Quantity
42270	A100/220	3 1/2" x 4"	10 per pack
42265	A65/320	3 1/2" x 4"	10 per pack
42245	A45/400	3 1/2" x 4"	10 per pack
42230	A30/600	3 1/2" x 4"	10 per pack
42216	A16/1200	3 1/2" x 4"	10 per pack
42206	A06/2000	3 1/2" x 4"	10 per pack

#### TZ PYRAMID GRIT COMPARISON TABLE

Corresponds to grit size	A65	A45	A30	A16	A06
	320	400	600	1200	2000

### PTX Fleece "Nonwoven" Sleeves

Part No.	Grit	Size (dia. x w)	Quantity
42010	coarse (brown)	3 1/2" x 4"	4 per pack
42011	medium (red)	3 1/2" x 4"	4 per pack
42012	fine (blue)	3 1/2" x 4"	4 per pack
42009	superfine (grey)	3 1/2" x 4"	4 per pack

#### FLEECE COMPARISON TABLE

Corresponds to grit size	Coarse (brown)	Medium (red)	Fine (blue)	Superfine (grey)
	80	180	280	400

## TIPS & TRICKS



To remove the grinding sleeve, place the expansion roller on a round object that is slightly smaller than the roller. Then push the sleeve down slightly using both hands.

# Special Brushes for Metals, Wood and Hard Plastics



## PTX Stranded Wire Wheels

Sturdy steel wire brush. For deburring, rust removal, roughing and cleaning metal. For brushing out soft annual rings on timber, leaving a rough rustic effect.

4" dia. x 2-7/8" wide – **Part No. 46301\***

4" dia. x 1" wide – **Part No. 47702\***

\* Requires spacer ring 40007



## PTX Bristle Wheel

Elastic nylon brush impregnated with abrasive grit. For roughing and deburring metal, as well as creating a rustic effect with even annual ring transitions on timber.

4" dia. x 2-7/8" wide – **Part No. 46101\***

4" dia. x 1" wide – **Part No. 46102N\***

\* Requires spacer ring 40007



## PTX Stainless Steel Wire Wheels

Elastic stainless steel wire brush. For cleaning welds, deburring, removing rust, roughing and removing coatings.

4" dia. x 2-7/8" wide – **Part No. 47721\***

4" dia. x 1" wide – **Part No. 46202N\***

\* Requires spacer ring 40007

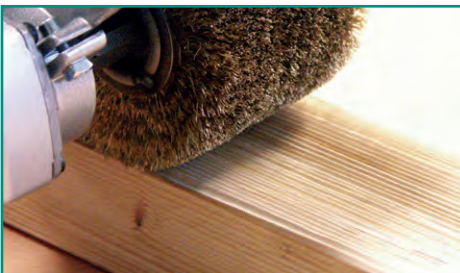


## PTX Fiber Wheel

Elastic fiber brush. For polishing stained wood, satin finishing, pore-deep dust removal and cleaning applications.

4" dia. x 4" wide – **Part No. 46400**

*Note: Above wheels are configured for keyed shaft. Hollow-core shaft adapter not necessary.*



*Stranded wire wheel for creating a rustic effect on wood*



## Cotton Buffing Wheel

Cotton yarn wheel for use with compounds. Produces a very bright high mirror finish. Use on flat, contoured or irregular surfaces.

4" dia. x 2" wide

**Part No. CS 2405\***

4" dia. x 4" wide

**Part No. CS 2410**

4" dia. x 6" wide

**Part No. CS 2420**

\* Requires spacer ring 40007

# Abrasives for Polishing to High-Gloss and Mirror Finish



## PTX Felt Sleeve

Made of soft merino (endless) for polishing large stainless steel and nonferrous surfaces quickly to a mirror finish. Also suitable for hard plastics. Must be used with the expansion roller.

3-1/2" dia. x 4" wide (4 per pack)

**Part No. 42013**



## PTX SuperPolish Sleeve

Revolutionary special fleece produces perfect brilliant, shadow-free mirror finishes on stainless steel and nonferrous metal surfaces using polishing compounds (white and blue) and pink polishing cream. SuperPolish fleece is absorbent, does not smear and saves significant work time. Must be used with the expansion roller.

3-1/2" dia. x 4" wide (4 per pack)

**Part No. 42013N**



## Poly-PTX Cotton Rings

Fleece rings for polishing narrow or uneven stainless steel and nonferrous metal surfaces using polishing compounds (white and blue) and pink polishing cream. A separate Poly-PTX Cotton Ring must be used for each compound or cream so as not to mix different compound grits.

For polishing narrow or uneven stainless steel surfaces:

100mm x 12mm (4" dia. x 1/2" wide), 8 per pack, Medium **Part No. 40019M**

100mm x 12mm (4" dia. x 1/2" wide), 8 per pack, Soft **Part No. 40019-T**

For polishing aluminum, brass and other nonferrous metals:

100mm x 12mm (4" dia. x 1/2" wide)

**Part No. 250 521**

*See page 90 for pre-grinding and polishing compounds, mirror finish creams, cleaners and protective sprays for finished metal surfaces.*





# Polishing and Maintenance Products (cont'd)



**PTX Pre-grinding & Polishing Compound**  
Essential for polishing all metals, including stainless steel, aluminum, etc.

**PTX WHITE** pre-polishing compound (23 oz.) – **Part No. 40013**

**PTX BLUE** finishing compound (23 oz.) – **Part No. 40014**

**PTX WHITE and BLUE** mini pastes (approx 4.2 oz. ea.) – **Part No. 40009**



**PTX Brightex® Softclean Powder** (non-caustic)  
For removing cream and compound residues. Scatter on the surface and wipe off with a microfiber cloth.

**Aluminum scatter container with Brightex®**  
(approx. 7 oz.) – **Part No. 40029**

**Bag, 2.2 lbs.** – **Part No. 40028**

**Scatter container only** – **Part No. 40020**



**PTX Polishing Cream, Pink**

For high reflective finishing. Produces a perfect mirror finish on stainless steel and nonferrous metals when used with the SuperPolish Sleeve or Belt.

**Miniature tube, 2 oz.** – **Part No. 40015T**

**Can, 2.2 lbs.** – **Part No. 40015**

**Microfiber Cloths**

For pore-deep cleaning and even distribution of maintenance products and polishes. Our microfiber cloths produce a top finish on all materials.

**Size: 13" x 14", package of 25** – **Part No. 40031**



**INOX-Protect** (hard sealant)  
Protects finished and polished metal surfaces (stainless steel, steel, aluminum, brass, copper, etc.) with a clear, dry adhesive film. Removes fingerprints and other dirt.

**Canister** (w/ spray bottle), **1.3 gal.** – **Part No. 40041**

**Spray bottle, 17 oz.** – **Part No. 40040**



**Brilliance-Clean**

For streak- and residue-free cleaning of all surfaces, including stainless steel, steel, aluminum, brass and copper. Brilliance-Clean is not harmful to plastics, wood or coated surfaces. Remove fingerprints, dust, compound residue, minor oil and grease marks and adhesive residue. Evaporates quickly without leaving residue.

**Canister** (w/ spray bottle), **1.3 gal.** – **Part No. 40051**

**Spray bottle, 17 oz.** – **Part No. 40050**



**POLY Protection** (oil film)

For cleaning and preserving finished and polished stainless steel and nonferrous metal surfaces. Protects against shadows and finger and water marks for a long time. Spray on and rub off with a microfiber cloth. Produces a darker effect on finished surfaces.

**Canister** (w/ spray bottle), **1.3 gal.** – **Part No. 40012**

**Spray bottle, 17 oz.** – **Part No. 40011**

## TIPS & TRICKS

### A perfect mirror finish on stainless steel

The newly developed grinding and polishing system, featuring special **TZ Pyramid** and **SuperPolish** fabrics from CS Unitec, produces a perfect mirror finish quickly and in just a few steps.



#### Step 1 - Pre-grinding

Prepare with **TZ Pyramid** sleeve grit A45 (possibly A65) to remove mill skin, scratches and minor unevenness.



#### Step 2 - Intermediate grinding

Rework with **TZ Pyramid A30** and complete with **TZ Pyramid A16**. Use very little grinding pressure and grind perpendicular and diagonally.



#### Step 3 - Mirror finish polish

Use the **SuperPolish** sleeve with **white polishing paste**, then with **blue polishing paste**. Use a different sleeve for each paste grit. Polish diagonally. For a high-gloss finish, use the **SuperPolish** sleeve with the **pink high-gloss polishing cream**. Polish in one direction only.

**The result... a brilliant mirror finish!**

**Tip:** After each step, remove the compound residue from the workpiece with **PTX Brightex® Softclean Powder** and a microfiber cloth.



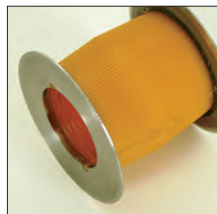
### Maintain and protect finished or polished stainless steel surfaces.

Compound and cream residues can be removed using **PTX Brightex® Softclean** powder. Simply scatter on the softclean powder and wipe it off using a microfiber cloth.

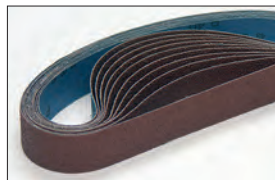
Compound residues, fingerprints, dust, minor oil and grease marks and adhesive residue can be removed effortlessly with **Brilliance-Clean**. Any residue will evaporate immediately.

To protect finished or polished metal surfaces, spray **INOX-Protect** on the surface, rub off with a microfiber cloth, wipe the surface dry and then polish briefly. The surface will be protected by a dry, invisible film for several weeks. Polished finishes will not be darkened by this product.

# Abrasives for Pipe Constructions – Open or Closed



**PTX Grinding Belt Roller with stainless steel flanges**  
For use with grinding, fleece, SuperPolish and felt belts. The belt roller is made of wear-resistant soft Vulcan with stainless steel discs on the sides. The surface is grooved to ensure that the abrasive belt does not slip.  
**Diameter: 3.5" x 2.8" Part No. 47006**



**PTX Grinding Belt in high-quality aluminum oxide (closed)**  
For coarse and initial grinding, rust removal and smoothing round metal pipes. For use with grinding belt rollers. For use on closed pipe constructions, see TIPS & TRICKS below. **Dimensions: 1.2" x 24"**  
**Grit: 40, 60, 80, 120, 150, 180, 240**  
[See ordering information at right.](#)

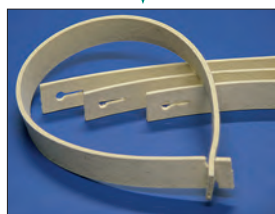


**PTX TZ Pyramid Belt (closed)**  
Abrasive fabric with pyramid-shaped grit structure for removing scratches, roller scale and spot welds. TZ Pyramid belts allow high material removal while producing a very fine finish. They are ideal for initial grinding before polishing to a mirror finish. Because grit fineness is increased slowly, it is possible to omit several operations. Use with grinding belt rollers. For use on closed pipe constructions, see TIPS & TRICKS below. **Dimensions: 1.2" x 24", Grit: A65, A45, A30, A16, A06**  
[See ordering information at right.](#)



**PTX Fleece Nonwoven Belt (open)**  
Buttonhole fastening system for fine grinding and pre-polishing open and closed pipe constructions and handrails. The fleece belt can be opened and closed as often as necessary. For use with grinding belt rollers. International patent and design protected. **Dimensions: 1.2" x 26", Grit: coarse, medium, fine, superfine. See ordering information at right.**

With buttonhole – **PATENTED!**



**PTX Felt Belt (open)**  
Made of merino felt with buttonhole fastening system for polishing open and closed pipe constructions and handrails. The polishing belt can be opened and closed as often as necessary. Use with grinding belt rollers and our polishing compounds and creams. Use a separate felt belt for each compound and cream grit - do not mix grits. International patent and design protected. **Dimensions: 1.2" x 26" Part No. 49004**



**PTX SuperPolish Belt (closed)**  
For a perfect mirror finish on pipe constructions and handrails. SuperPolish is a new, special micro fleece that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Smears and shadows are eliminated when used with our polishing compounds (white and blue) and pink cream. SuperPolish is absorbent and saves time. Use with grinding belt rollers. **Dimensions: 1.2" x 26" (not available with buttonhole fastening system) Part No. 49004N**

## PTX Grinding Belts (Aluminum Oxide)

Part No.	Grit	Size (w x l)	Quantity
49040	40	1.2" x 24"	10 per pack
49060	60	1.2" x 24"	10 per pack
49080	80	1.2" x 24"	10 per pack
49120	120	1.2" x 24"	10 per pack
49150	150	1.2" x 24"	10 per pack
49180	180	1.2" x 24"	10 per pack
49240	240	1.2" x 24"	10 per pack

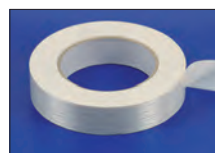
## PTX TZ Pyramid Belts

Part No.	Grit	Size (w x l)	Quantity
49365	A65/320	1.2" x 24"	10 per pack
49345	A45/400	1.2" x 24"	10 per pack
49330	A30/600	1.2" x 24"	10 per pack
49316	A16/1200	1.2" x 24"	10 per pack
49306	A06/2000	1.2" x 24"	10 per pack

## PTX Fleece Nonwoven Belts (open)\*

Part No.	Grit	Size (w x l)	Qty.
49001	coarse (brown)	1.2" x 26"	1
49002	medium (red)	1.2" x 26"	1
49003	fine (blue)	1.2" x 26"	1
49007	superfine (grey)	1.2" x 26"	1

\* Feature buttonhole fastening system



**PTX Special Adhesive Tape**  
Integrated glass fabric for joining grinding belts. Strong, heat-resistant adhesive. Join PTX grinding and TZ Pyramid belts for use on closed pipe constructions. Wrap tape around entire length of grinding belt, overlapping approximately 370°.

**Dimensions: 1" x 165' Part No. 49000**



**INOX Miter Tape**  
Protect adjacent finishes when grinding. Self-adhering 304 Stainless tape for use when creating distinct edges on finishes. Excellent for creating mitered corners. Easily cut with scissors, fast application and residue-free removal.

Minimal thickness for accurate grinding lines.  
**Dimensions: One roll measures 6" x 8.2 ft. Part No. 40070**

## TIPS & TRICKS

### Grinding and polishing closed pipe constructions

Fleece and felt belts with the patented buttonhole fastening system are ideal for working on closed pipe constructions and handrails. The grinding belt can be placed over the pipe and closed or opened again in a twist using the buttonhole system. Changing a belt is quick and easy. The belt can be opened and closed as often as required.

Closed belts such as the high-quality aluminum oxide belt or the TZ Pyramid belt must be cut open to work on closed pipe constructions. Place the belt over the pipe and join using our special adhesive tape (P/N 49000) over the entire length (approx. 370°).

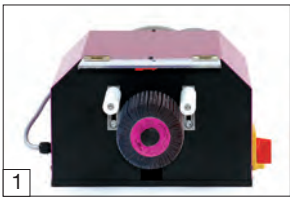
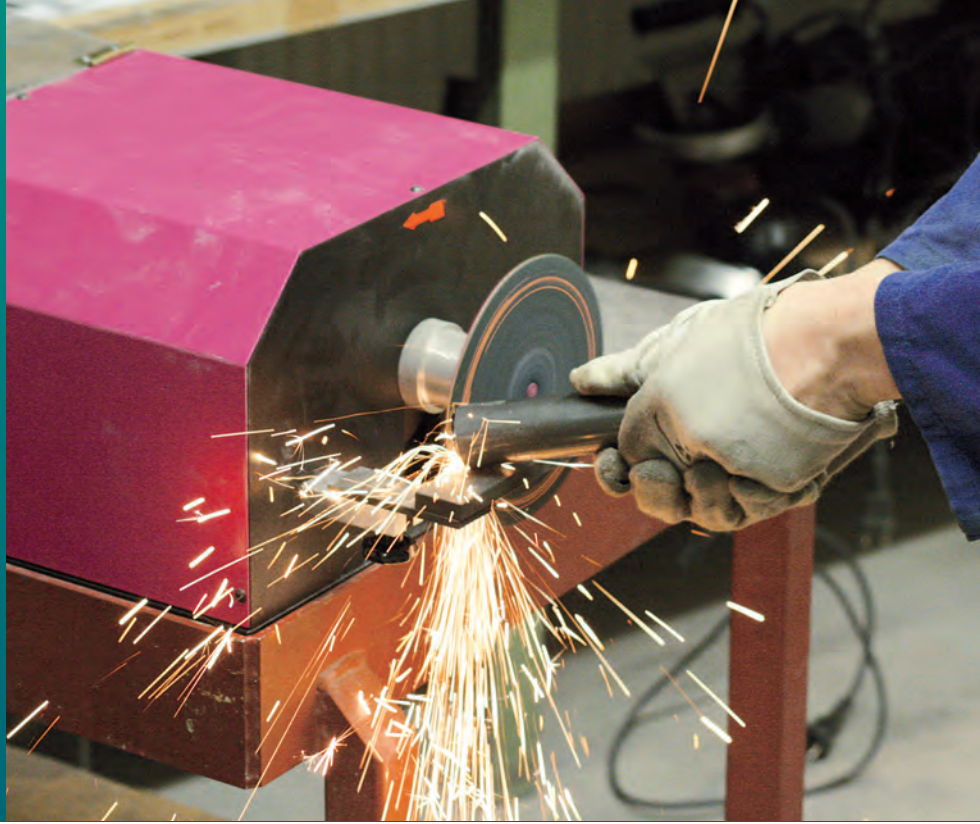




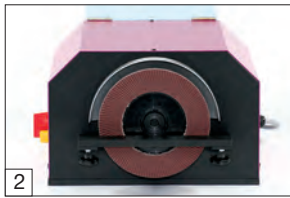
# MULTI-MAX

Stationary multipurpose grinder for all workshop grinding, blending and finishing jobs.

Uses all PTX abrasive wheels and discs with 5/8"-11 UNC threads or 7/8" arbor.



1 Shaft mounting for all abrasives from the PTX ECO SMART system. (See page 84-90)



2 5/8"-11 UNC spindle thread for grinding discs or a 7/8" arbor.



3 Uses the FIX HOOK AND LOOP SYSTEM (See pages 105-107). For replacement flap discs, see page 93.



4 Compatible with the new flexible shaft attachment. (See page 93)

**Extensive selection of accessories**  
(See pages 86-90 & 105-107)



**MULTI-MAX**  
220 - 240V, 3-phase  
Part No. 30402



Uses all PTX abrasive wheels and discs



# MULTI-MAX

## A versatile bench grinder

- Two shaft mountings. – uses grinding discs with 5/8"-11 UNC or 7/8" mounting and abrasive grinding wheels for longitudinal surface finishers
- Fast deburring, trimming, grinding, brushing and more
- Uses Poly-PTX grinding wheels for longitudinal grinding, satin finishing, etc. (See page 84-90)
- Uses FIX HOOK & LOOP system for plain grinding, fine grinding and more (see pages 105-107)
- Powerful 3-phase, 750 watt AC motor, 220 volt
- Transparent, hinged grinding guard
- Roller support for more accurate work
- Adjustable support rail with safety hood for grinding discs up to 7"
- Drive motor can be used with the flexible shaft for grinding in narrow and awkward spots (see right)
- For a safe, upright working position, use with the MULTI-MAX machine stand (P/N 30420)



### MULTI-MAX Specifications

Order No.	30402
Power	220-240V, 3-Phase
Speed	2,800 RPM
Abrasives	4" to 7" dia.
Disc Mounting	5/8"-11 UNC or 7/8" arbor
Wheel Mounting	Hollow core or Keyway
Weight	5.2 lbs.
Standard Equipment	Multi-Max Tool, 220V
	PTX Flap Wheel, 80 grit (2 P/N 41080)
	PTX Interleaf, 180 grit (1)
	Mini polishing pastes, white (P/N 40013) and blue (P/N 40014)
	Spacer ring set (1 P/N 40007)
	Flat flap disc, 80 grit (1 P/N 36080)
	FIX backing pad (1 P/N 80150UF)
	FIX Zirconium discs, 40, 60, 80 120 grit (1 ea.)
	FIX Pyramid discs, 400, 600, 1200 grit (1 ea.)
	FIX SuperPolish disc (1 P/N 80750N)
Replacement Discs	Flat flap disc, 60 grit (1 P/N 36060)
	Flat flap disc, 80 grit (1 P/N 36080)
	Flat flap disc, 120 grit (1 P/N 36120)

## Flexible Shaft

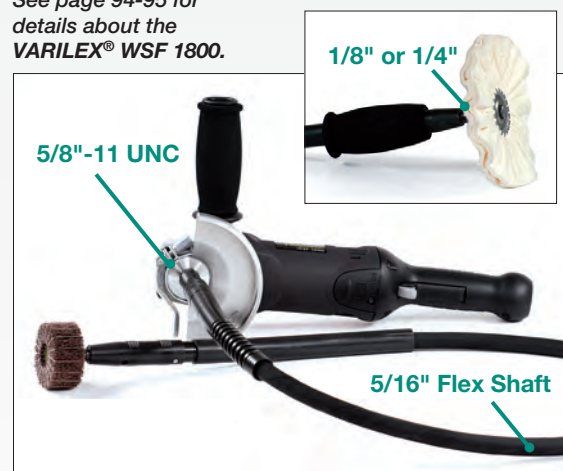
for use with VARILEX®, Angle Grinders and MULTI-MAX



The new flexible drive shaft with a sturdy core and 5/8"-11 thread means that the MULTI-MAX can now be upgraded to a powerful professional drive motor. Ideal for narrow and awkward spots. Accepts 1/8" or 1/4" shaft abrasives and with an adapter for polishing rings up to 6" diameter. The Flexible Shaft features an ergonomic handgrip with vibration reduction.

**5/8"-11 UNC connecting thread can also be used with the VARILEX® WSF 1800 or Angle Grinders!**

See page 94-95 for details about the VARILEX® WSF 1800.



### Flexible Shaft Ordering Information

Item	Part No.
Flexible shaft with 5/16" steel wire and 5/8" thread	10015
Separate 1/8" collet for flexible shaft	10011A
Separate 1/4" collet for flexible shaft	10011B
Machine holder (powder-coated steel) incl. clamping screw for VARILEX® WSF 1800	10008



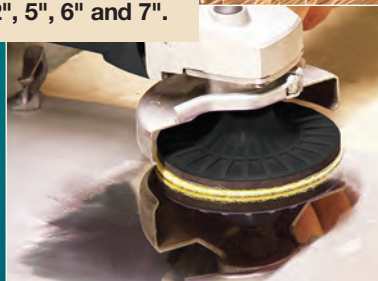
# VARILEX® WSF 1800 Professional

The most powerful speed-controlled angle surface finishing and blending tool in its class.

Variable speed from 2000 to 7600 RPM, 15 Amp (1710 W) power, disc change in seconds without tools. For disc diameters of 4", 4-1/2", 5", 6" and 7".



VARILEX® is designed to efficiently maximize the capabilities of flap, grinding and cutting discs and the Hook & Loop system.



1 Simple, fast disc changing - with no tools - using the **5/8"-11 EASY-LOCK SPEED NUT**. P/N 65008-1



2 New ergonomic design with vibration-damping handle for comfortable, fatigue-free working.



3 Adjustable cover guard. P/N 65008-1



4 Dust-tight field coil with special coating.

**Very powerful and infinitely adjustable**



## VARILEX® WSF 1800 Part No. 65000A

**Safety Notice:** Always use the protective wheel guard and follow all applicable safety instructions and regulations.



**FLEXIBLE SHAFT** - The new flexible drive shaft can now upgrade the VARILEX® WSF 1800 to a powerful professional drive motor for all applications. See page 93 for details.



5 Service cover allows the carbon brushes to be changed quickly.



7 Ergonomically positioned locking ON/OFF switch.



6 Easy speed control during operation.



8 QUICK-LOCK cable for fast, easy replacement if cable is damaged. 13 ft., included. P/N 52004-2



# More than just an angle grinder – the most powerful single-handed multi-function machine available!

*Change discs in seconds, without tools.*



The VARILEX® has an infinitely adjustable speed between 2000 and 7600 RPM, for applications from grinding to blending, pre-polishing and polishing

- Ideal for use with both flap discs and polishing discs, as well as grinding and cutting wheels
- Balanced handle ensures fatigue-free grinding
- Tachogenerator keeps speed constant, even when grinder is operating at full load
- Variable-speed control doubles disc service life, prevents glazing of disc and workpiece heat deformation and reduces noise level
- Motor design allows exceptional performance at low RPM – without motor overheating or burnout
- EASY-LOCK clamping nut and spindle lock allows disc changeover in seconds

*The VARILEX® is not designed for continuous use at low speed for polishing paint in the automotive trade.*



## VARILEX® WSF 1800 Specifications

Order No.	65000A	
Motor Power	15 Amp (1710 Watts); 110 Volt/60Hz (Also available: 230 Volt / 50 Hz)	
Speed Control Dial	Infinitely adjustable from 2000 to 7600 RPM	
Wheel Diameter	4" to 7"	
Spindle Thread	5/8"-11 UNC	
Arbor Size	7/8"	
Weight	6.2 lbs.	

### Use with various discs and safety guards

Available with optional 7" safety guard for use with various-size grinding discs from 4" to 7" diameter (typical disc diameters are 4", 4-1/2", 5", 6" and 7").

## Kit sets for VARILEX® WSF 1800 Professional Multifunction Tool



### VARILEX® WSF 1800 Basic Starter Kit Part No. 80053

**VARILEX® Basic Starter Kit includes** 1 VARILEX® WSF 1800, 110 V with 5/8"-11 spindle, 1 Wheel guard for discs up to 5", 1 Carrying Case, 1 EASY-LOCK SPEED NUT, 2 PLANTEX® CERAMIC 5" grit 40, 2 PLANTEX® 5" grit 60, 2 PLANTEX® CERAMIC 5" grit 60, 2 PLANTEX® 5" grit 60.

### FIX Hook & Loop System Kits

See page 105 for two versatile FIX Hook & Loop System kits.




### 5/8"-11 EASY-LOCK SPEED NUT Clamping System



Using the **EASY-LOCK SPEED NUT**, you can change the abrasive disc on the VARILEX® in a matter of seconds – without tools!

Easy hand tightening eliminates the need for wrenches and expensive 5/8"-11 hubs. **Part No. 65008-1**

## TIPS & TRICKS



**Polish stainless steel to a mirror finish with the VARILEX® WSF 1800 Professional**

(1) **Initial grinding** (remove scratches and roller scale, level welds) with TZ Pyramid disc A45 (grit 400) or A65 (grit 320). Finish with TZ Pyramid disc A30 (grit 600) and A16 (grit 1200). (→ page 106)

(2) **Main polish** with SuperPolish disc and white polishing compound, then with blue polishing compound. Important: Use a separate disc for each compound grit.

(3) **Mirror finish** with SuperPolish disc and pink polishing cream. (→ page 107)



# FLAP DISCS

Longer, faster and  
better grinding.

Unbeatable technology  
and performance



Almost 50 years of experience and unbeatable technology go into the manufacture of every CS Unitec flap disc. In terms of material removal capacity, service life and grinding quality, PLANTEX® Flap Discs – made of hemp fiber high-tech compound – are among the best in the world.

## Hard-Pressed Flaps

- Avoid chatter and vibration
- Maximize grit adhesion for extended grinding performance
- Consistent grinding/finishing results
- Stronger flap construction to minimize tearing

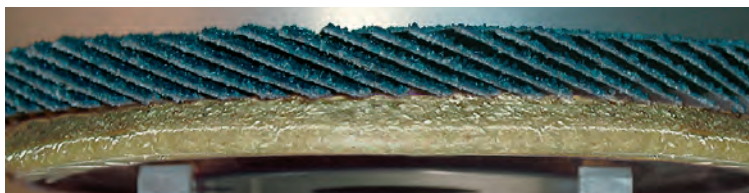
## Hemp-Based Backing Plate

**70% Natural Hemp Fiber, 30% Polypropylene**

- Increased flexibility for improved performance
- Better absorbs vibration, noise and heat
- Environmentally friendly - remaining disc can be incinerated, leaving almost no residue
- No fiberglass, mineral fibers or epoxy resin

## Complete Disc - Backing Plate and Flaps

- Patented adhesive system
- Adhesion process occurs throughout entire hardening process
- Results in a solid, compact, long-lasting abrasive



CS Unitec Flap Disc



Standard Flap Disc



**Speed and endurance tests ensure superior results and progressive developments.**

## Speed test

Grinding discs are tested on a centrifugal test machine to ensure that they can withstand the sort of speeds that are required for grinding work. The test system can test discs at speeds of up to 30,000 RPM.

## Endurance grinding test

Endurance tests are conducted to measure the material removal and service life of flap discs. New fabrics are tested to ensure their suitability and their grinding properties on various materials.

**Strength and safety properties calculated using the finite element method (FEM).**

**PLANTEX® flap discs are approved for 260 ft./sec. to DIN EN 13743, approved by the MPA (Material Testing Institute) in Hanover and by the BGIA (Professional Association Institute for Industrial Safety). Compliant with ANSI B7.1.**



# The **PLANTEX**<sup>®</sup> Advantage

Hightech-Compound

## Steel/Stainless Steel/Aluminum



### More Efficient Grinding

- Greater surface area contact resulting in higher metal removal rates
- Runs cooler with no smearing on workpiece

### Safer Working Conditions

- No fiberglass, no mineral fibers, no epoxy resin
- No harsh fumes
- Reduced vibration and noise

### Environmentally Friendly

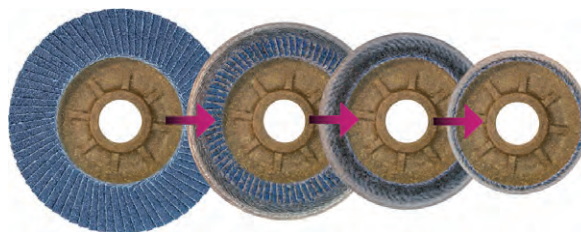
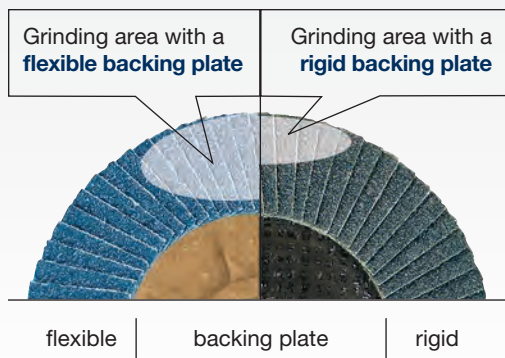
- Majority of backing plate composed of hemp, a renewable resource
- Disposal of backing plate is safe and easy: Polypropylene combusts to approx. 1% carbon

### Competitively Priced

- 100% service life - use to last fraction of an inch of abrasive flap
- Lower cost of production
- Efficient grinding requires fewer discs per project



**The flexibility of the PLANTEX<sup>®</sup> backing plate better conforms to workpiece, providing greater surface contact, higher metal removal rates and cooler runs.**



**100% Service Life!**

Use down to the last abrasive flap by automatic trimming during grinding or trimming using cutting tools on a sharp steel edge.



Trimming with cutting tools produces soft, harmless chips that can be disposed of as domestic waste (smell is similar to wood chips).

**PATENTED!**

Made in Germany










# Grinding & Polishing Discs

CS Unitec flap discs are available in a wide range of grits and styles to meet your grinding, sanding, deburring, blending, cleaning and finishing needs.



**PLANTEX**<sup>®</sup>  
Hightech-Compound

Grinding/Weld Blending							
Grinding/Deburring							
Blending							
		Blending/Cleaning/Finishing					
						Fine Finishing	
40 Grit	50 Grit	60 Grit	70 Grit	80 Grit	90 Grit	100 Grit	120 Grit
PLANTEX <sup>®</sup> SUNFIRE <sup>™</sup> : All Metals							
PLANTEX <sup>®</sup> Universal: Steel, Stainless and Non-Ferrous Metals							
PLANTEX <sup>®</sup> CERAMIC: All Metals							
PLANTEX <sup>®</sup> COOL TOP <sup>®</sup> : Stainless							
PLANTEX <sup>®</sup> TIGER SHARK <sup>®</sup> : Aluminum							

Flap Disc	Page No.	Flap Material	Available Dia.	Arbor	Grits	Max. Speed 4-1/2" disc
Ideal for all metals – stainless steel, steel, aluminum, titanium, bronze and special alloys:						
 PLANTEX <sup>®</sup> SUNFIRE <sup>™</sup>	100	Ceramic	4-1/2", 5"	5/8" x 11 threaded	Multigrain 40/60	13,200
Ideal for steel, stainless steel and nonferrous metals:						
 PLANTEX <sup>®</sup> Universal	102	Zirconium	4", 4-1/2" 5", 7"	5/8" x 11 threaded; 5/8" or 7/8"	40, 60, 80, 120	13,200
Ideal for all metals – stainless steel, steel, aluminum, titanium, bronze and special alloys:						
 PLANTEX <sup>®</sup> CERAMIC	103	Zirconium blend	4", 4-1/2" 5", 7"	5/8" or 7/8"	40, 60	13,200
Ideal for steel and stainless steel:						
 PLANTEX <sup>®</sup> COOL TOP <sup>®</sup>	102	Zirconium blend	4", 4-1/2" 5", 7"	5/8" or 7/8"	40, 60	13,200
Ideal for aluminum:						
 PLANTEX <sup>®</sup> TIGER SHARK <sup>®</sup>	104	Ceramic/ Corundum, with grinding aid	4", 4-1/2" 5", 7"	5/8" or 7/8"	40, 60, 80, 120	15,000

# Grinding & Polishing Pads & Discs



## FIX HOOK & LOOP SYSTEM

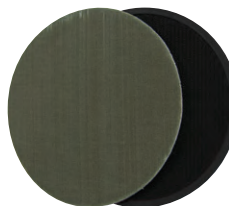
Highly flexible backing disc with strong Hook & Loop fastening for outstanding finish quality. **See page 105-107**



### FIX Zirconium Disc

Abrasive disc with Hook & Loop fastening and an outstanding grinding capacity. Ideal for body shops and car workshops.

**Diameter:** 4-1/2" and 6"  
**Grits:** 40, 60, 80, 120



### FIX TZ Pyramid Disc

Abrasive fabric with pyramid-shaped grit structure for high material removal while producing a very fine finish. Ideal for pre-polishing for mirror finishes and for removing scratches and spot welds.

**Diameter:** 4-1/2" and 6"  
**Grits:** A65, A45, A30, A16, A06



### FIX Fleece (Nonwoven) Disc

Versatile disc for fine surface conditioning and pre-polishing.

**Diameter:** 4-1/2" and 6"  
**Grits:** coarse, medium, fine, superfine



### FIX-Klett (Nonwoven) Disc

The FIX-Klett disc is a superfine soft nylon-fleece material for pre-polishing aluminum or other soft, nonferrous materials to a mirror finish.

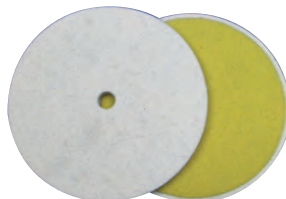
**Diameter:** 4-1/2" and 6"  
**Grit:** Superfine



### FIX SuperPolish Disc

SuperPolish is a special needle fleece that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals.

**Diameter:** 4-1/2" and 6"  
**Thickness:** 1/4"



### FIX SuperPolish Felt Disc

Special merino wool felt that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals.

**Diameter:** 4-1/2" and 6"  
**Thickness:** 1/4"

## GRINDING & FINISHING DISCS

Options for grinding and polishing, stainless steel and more. **See page 108-109**



### POLY-MAGIC-WHEEL

Highly compressed fleece discs, ideal for grinding and dry polishing in corners (and on bead and corner welds).

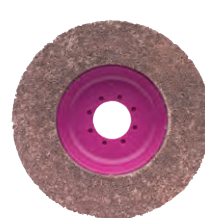
**Diameter:** 6-1/2"  
**Grits:** 80, 900



### MAGNUM® TOPMIX

Increased material removal for removing spot welds and deep scratches on stainless steel, steel and nonferrous metals.

**Diameter:** 5"  
**Grit:** 80



### MAGNUM® FLEECE TOP

Versatile disc for surface conditioning, fine finishing and polishing – special material blend resists glazing and loading.

**Diameter:** 5"  
**Grits:** 80, 180, 280, 400, 600, 900



### MAGNUM® CLEAN

Designed for pore-deep cleaning of metals – cleans without harming the base material. Ideal for body shops and car workshops.

**Diameter:** 5"  
**Grit:** Medium

### Finishing & Maintenance Products



Pre-grinding and polishing compound, polishing cream, cleaning powder, microfiber cloths, hard sealant, mirror finish cleaner and polish protectant.





Use 100% of Disc

**PATENTED  
multi-grain  
grit structure**

# PLANTEX® SUNFIRE™ CERAMIC GRIND, BLEND + FINISH... WITH ONE DISC!

- Remove up to 9 lbs. of metal with 1 disc
- Grind like a 40, blend and finish like a 60
- Patented multi-grain grit structure
- Ideal for steel, stainless steel, titanium, aluminum, bronze and more
- 5/8" x 11 hub



## PLANTEX® – The Natural Advantage

Building on the strength of natural hemp fiber and its long history of use in industry, CS Unitec's PLANTEX® flap discs are a strong, reliable, chemical-resistant alternative to conventional fiberglass-backed discs. The hemp-based natural fiber backing plate is environmentally friendly and does not emit harsh fumes or glass splinters when in use. Industrial hemp, a natural renewable resource, is one of the strongest and most durable of all naturally grown fibers.

**PLANTEX®**   
HEMP BACKING PLATE

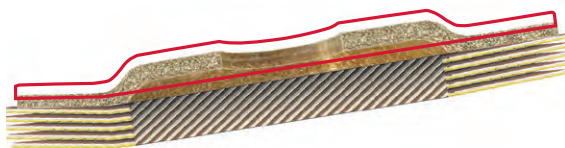


# PLANTEX® SUNFIRE™ CERAMIC

## 40/60 Multi-Grain Grit – Ideal for all metals

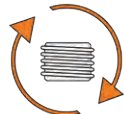


**Trimable and elastic hemp fiber  
high-tech compound backing plate**



**Easy Spin-On!**

5/8"x11 Threaded Hub

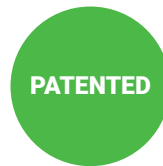
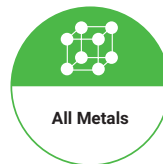


### FLAPS:

- 40/60 combination multi-grain grit grinds like a 40, blends and finishes like a 60
- Innovative ceramic-hybrid grit structure provides aggressive material removal as well as controlled blending and finishing

### BACKING PLATE:

- Composed of a high-tech, fiberglass-free compound
- Fiber backing is 70% natural hemp, a renewable resource
- High-strength construction, yet flexible to conform to the surface of the workpiece
- Extremely versatile – easily trimmable for a wide variety of applications and use in tight spaces
- Runs safer – no harsh fumes, airborne fibers or sharp pieces



**PLANTEX®**  
TRIMMABLE HEMP  
BACKING PLATE



### PLANTEX® SUNFIRE™ Ceramic Specifications

Dimensions	4 1/2" and 5" diameter
Max. Speed	13,200 RPM for 4 1/2" diameter
Ideal Speed	6000 to 9000 RPM
Complies with	ANSI B7.1, 260 ft./sec. DIN EN 13743
Grits	Multigrain 40/60
Arbor Size	5/8" x 11

### PLANTEX® SUNFIRE Ordering Information

Part No. (Pack of 10)	Diameter	Grit	Ideal Speed (RPM)	Max. Speed (RPM)	Backing Plate
93520	4-1/2"	Multigrain 40/60	6,000 to 9,000	13,200	PLANTEX® 70% natural hemp fiber, 30% polypropylene
93521	5"			12,200	





### PLANTEX® UNIVERSAL Specifications

Dimensions	4 1/2" and 5" diameter
Max. Speed	13,200 RPM for 4 1/2" diameter
Ideal Speed	5000 to 8000 RPM
Complies with	ANSI B7.1, 260 ft./sec. DIN EN 13743
Grits	40, 60, 80, 120
Arbor Size	5/8"x11 threaded; 5/8" or 7/8"

**PLANTEX®**  
Hightech-Compound



### PLANTEX® COOL TOP Specifications

Dimensions	4, 4 1/2", 5" and 7" diameter
Max. Speed	13,200 RPM for 4 1/2" diameter
Ideal Speed	5000 to 8000 RPM
Complies with	ANSI B7.1, 260 ft./sec. DIN EN 13743
Grits	40, 60 (for finer grits, use PLANTEX UNIVERSAL 80 & 120)
Arbor Size	5/8" or 7/8"

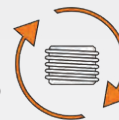
# PLANTEX® UNIVERSAL

Flexible flap disc for general use.

The PLANTEX® high-tech compound is the standard flap disc for many companies. The flexible hemp-fiber backing plate is easily trimmed. High grinding performance is achieved with the 100% RZ-Zirconium abrasive fabric.

**Easy Spin-On!**

5/8"x11 Threaded Hub



### PLANTEX® UNIVERSAL Threaded Hub Ordering Info

Part No. (Pack of 10)	Diameter	Arbor	Grit	Ideal Speed (RPM)	Max. Speed (RPM)	Backing Plate
93564	4 1/2"	5/8" x 11 thread	40	5,000 to 8,000	13,200	PLANTEX® 70% natural hemp fiber, 30% poly- propylene
93566			60			
93568			80			
93569			120			
93574	5"	5/8" x 11 thread	40	6,000 to 8,000	12,200	PLANTEX® 70% natural hemp fiber, 30% poly- propylene
93576			60			
93578			80			
93579			120			

### PLANTEX® UNIVERSAL Ordering Information\*

Part No. (Pack of 10)	Diameter	Arbor	Grit	Ideal Speed (RPM)	Max. Speed (RPM)	Backing Plate
93514	4"	5/8"	40	5,000 to 8,000	15,000	PLANTEX® 70% natural hemp fiber, 30% poly- propylene
93516			60			
93518			80			
93519			120			
93524	4 1/2"	7/8"	40	5,000 to 8,000	13,200	PLANTEX® 70% natural hemp fiber, 30% poly- propylene
93526			60			
93528			80			
93529			120			
93534	5"	7/8"	40	6,000 to 8,000	12,200	PLANTEX® 70% natural hemp fiber, 30% poly- propylene
93536			60			
93538			80			
93539			120			

\* 7" dia. with 7/8" arbor also available in 40, 60, 80 and 120 grits

# PLANTEX® COOL TOP®

Cool performance for grinding stainless.

The PLANTEX® COOL TOP® high-tech compound has been specifically developed for grinding stainless steel.

Abrasive fabric with additional top coating improves grinding performance and service life and provides additional cooling.

### PLANTEX® COOL TOP® Ordering Information

Part No. (Pack of 10)	Diameter	Arbor	Grit	Max. Speed (RPM)	Backing Plate
93614	4"	5/8"	40	13,200	PLANTEX® 70% natural hemp fiber, 30% poly- propylene
93616	4"	5/8"	60	13,200	
93634	5"	7/8"	40	12,200	
93636	5"	7/8"	60	12,200	
93644	7"	7/8"	40	12,200	PLANTEX® 70% natural hemp fiber, 30% poly- propylene

# PLANTEX® CERAMIC

Ceramic high-performance flap disc with exceptional grinding performance for universal use on stainless steel and hard-to-grind metals. Save labor and time – one flap disc for all metals.

- Advanced high-performance ceramic grain improves production with maximum material removal and reduced grinding temperature
- Fiberglass-free hemp fiber backing plate offers increased disc flexibility and reduced vibration



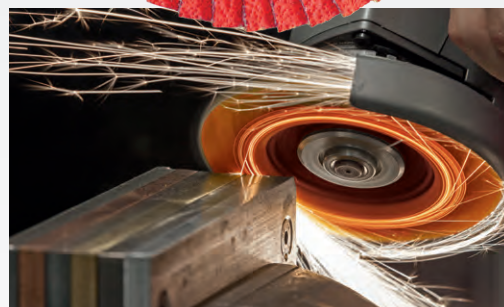
The PLANTEX® CERAMIC high-tech compound has been specifically developed for grinding all metals including stainless steel, steel, aluminum, titanium, bronze and special alloys. Self-trimming backing pad allows for 100% use of abrasive.

## PLANTEX® CERAMIC Ordering Information

Part No. (Pack of 10)	Diameter	Arbor	Grit	Max. Speed (RPM)	Backing Plate
93552	4 1/2"	7/8"	80	13,200	PLANTEX® 70% natural hemp fiber, 30% poly- propylene
93555	5"		40	12,200	
93556			60		
93557			80		

## PLANTEX® CERAMIC Specifications

Dimensions	4 1/2" and 5" diameter
Max. Speed	13,200 RPM for 4 1/2" diameter
Ideal Speed	5000 to 8000 RPM
Complies with	ANSI B7.1, 260 ft./sec. DIN EN 13743
Grits	40, 60, 80
Arbor Size	7/8"



## ↓ TIPS & TRICKS

### EASY-LOCK SPEED NUT SAVES TIME, WEIGHT AND MONEY!

Never has changing a grinding disc been so quick and efficient

The secret behind it – the self-clamping **EASY-LOCK SPEED NUT**

**Part No. 65008-1 (5/8"-11 UNC)**

The **EASY-LOCK SPEED NUT** allows abrasive discs to be changed in seconds without tools. The **SPEED NUT** works with any abrasive with a hemp or ABS backing plate and a 7/8" arbor. That means you can change abrasives on an angle grinder in a matter of seconds. It easily hand tightens and eliminates the need for wrenches or heavy, expensive 5/8"-11 hubs.

The clamping collar shape on the top of the **EASY-LOCK SPEED NUT** can secure flap discs and abrasives with a "thicker" backing disc as well as centering them. "Thin" abrasives such as cutting discs, etc. can simply be secured using the reverse of the **EASY-LOCK SPEED NUT** clamping nut.



1. Secure the disc loosely by hand using the SPEED NUT.
2. Press the spindle lock and tighten the disc by turning it clockwise by hand. That's all there is to it!
3. To release the disc, press the spindle lock and turn the disc counter-clockwise by hand.





Aluminum

# PLANTEX® TIGER SHARK® & KANGAROO ALU-FIX® OIL

The new dimension for grinding aluminum.

PLANTEX® TIGER SHARK® elastic discs are unbeatable for the difficult grinding of aluminum.

- High material removal, reduced grinding temperature and no glazing with aluminum particles
- Ceramic/corundum cotton abrasive fabric
- Ideal for curved surfaces and shapes; often used in car body shops, car workshops and for tool making
- Optional Kangaroo ALU-FIX® OIL minimizes loading and increases material removal rate by up to 300%, as well as improves finish quality (see below)

## PLANTEX® TIGER SHARK® Specifications

Dimensions	4, 4 1/2", 5" and 7" diameter
Max. Speed	13,200 RPM for 4 1/2" diameter
Ideal Speed	5000 to 8000 RPM
Complies with	ANSI B7.1, 240 ft./sec. DIN EN 13743
Grits	40, 60, 80 120
Arbor Size	5/8" or 7/8"

## PLANTEX® TIGER SHARK® Ordering Information

Part No. (Pack of 10)	Diameter	Arbor	Grit	Max. Speed (RPM)	Backing Plate
93814	4"	5/8"	40	15,000	PLANTEX® 70% natural hemp fiber, 30% poly- propylene
93816			60		
93818			80		
93819			120		
93824	4 1/2"	7/8"	40	13,200	
93826			60		
93828			80		
93829			120		
93834	5"	7/8"	40	12,200	
93836			60		
93838			80		
93839			120		
93844	7"	7/8"	40	8600	
93846			60		
93848			80		
93849			120		

## Kangaroo ALU-FIX® OIL

Spray on aluminum workpiece to improve the removal rate and increase abrasive life. Available in a 1-pint spray bottle or a 1.3 gallon canister with a spray bottle.

- 1-pint spray bottle – **Part No. 40010**
- 1.3 gal. canister and spray bottle – **Part No. 40010K**

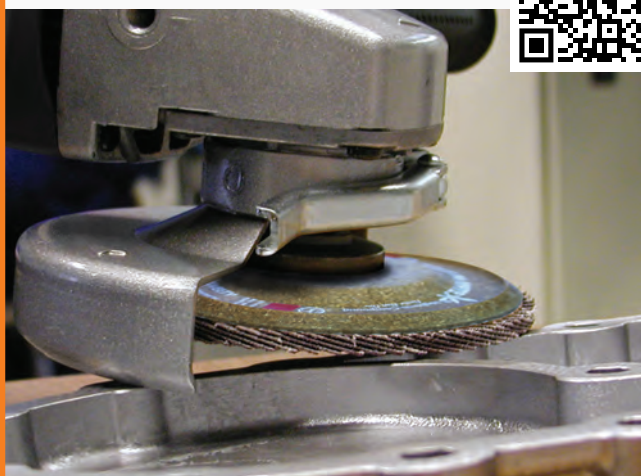
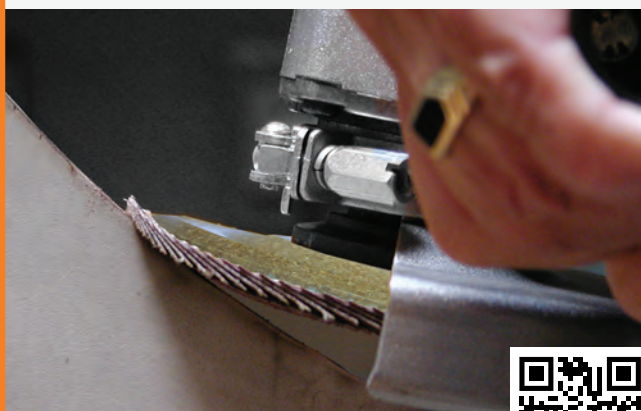


**Tiger Shark**  
Ceramic/Corundum  
flap disc

**PLANTEX®**  
Hightech-Compound



Unique flap discs with a PLANTEX® flexible backing disc.



# FIX HOOK & LOOP SYSTEM

Highly flexible backing disc for high-quality finishes.  
Ideal for surface conditioning and polishing up to a mirror finish.

The FIX Hook & Loop system takes advantage of a flexible backing pad and allows a disc to be changed in seconds without tools.

The FIX Hook & Loop system is a good fit wherever disc flexibility and frequent changeover are required. It will save time in industrial metalworking applications such as car body shops and repair shops.

The system requires a speed-controlled angle grinder, such as the VARILEX® WSF 1800 Professional. A wide range of abrasives are available for all steps – from rough grinding up to a mirror finish.

The FIX Hook & Loop's "green" backing disc is made of natural materials. The flexibility of the abrasives allows you to achieve results similar to stationary grinding machines.

***The FIX family of abrasives must be used with the FIX original backing disc.***

**PATENTED!**



**The FIX Hook & Loop system is an essential surface finishing and polishing system for all sheet metal applications.**

## FIX Hook & Loop System Kits



### FIX Test Kit

This kit contains all the FIX Hook & Loop System components to go from rough grinding up to a mirror finish. **Part No. 80051U**

- 1 Carrying case
- 1 FIX backing pad
- 8 FIX Zirconium discs 4-1/2"  
(2 each - 40, 60, 80, 120 grit)
- 10 FIX TZ Pyramid discs 4-1/2"  
(2 each - 320, 400, 600, 1200, 2000 grit)
- 8 FIX Surface Conditioning discs 4-1/2"  
(2 each - coarse, medium, fine, superfine)
- 6 FIX SuperPolish discs 4-1/2"
- 2 Mini-polishing pastes, white and blue
- 1 PTX polishing cream pink
- 1 PTX Brightex® Softclean Powder scatter can
- 2 PTX microfiber cloths
- 1 Sample size PTX Poly Protection
- 1 Sample size PTX Brilliance Clean



### FIX Starter Kit

This kit includes a range of FIX Hook & Loop components, as well as a VARILEX® WSF 1800 Angle Grinder. **Part No. 80050U**

- 1 VARILEX® WSF 1800, 110V, 5/8" spindle
- 1 Carrying case
- 1 FIX backing pad - 4-7/16"
- 1 Wheel guard for discs up to 5"
- 3 FIX fleece discs 4-1/2" (1 each - coarse, medium, fine)
- 1 EASY-LOCK SPEED NUT
- 2 FIX FLEECE TOP 4-1/2" (1 each - grit 80, 180)
- 2 FIX flap discs 4-1/2" (1 each - grit 40, 60)
- 2 FIX SuperPolish discs 4-1/2"
- 1 FIX clean 4-1/2"
- 1 PTX Brightex® Softclean Powder scatter can
- 4 FIX Zirconium discs 4-1/2" (1 each - grit 40 - 120)
- 2 Mini-polishing pastes, white and blue



# Abrasives for the FIX Hook & Loop System

*The FIX family of abrasives must be used with the FIX original backing disc.*



## Special FIX Backing Pad (without Foam) with Centering Pin

For use with the FIX Zirconium disc, FIX TZ Pyramid disc and FIX SuperPolish disc. The backing disc is made of special elastic material with a centering pin for perfect alignment.

Diameter: 4-1/2" with 5/8"-11 thread – **Part No. 80115U**

Diameter: 6" with 5/8"-11 thread – **Part No. 80150U**



## Special FIX Backing Disc with PUR Foam Absorption Coating and Centering Pin

For use with the FIX Zirconium disc, FIX TZ Pyramid disc and FIX SuperPolish disc. The backing disc is made of flexible PUR with a special 1/4" absorption coating with a centering pin for perfect alignment.

Diameter: 4-1/2" with 5/8"-11 thread – **Part No. 80115UF**

Diameter: 6" with 5/8"-11 thread – **Part No. 80150UF**



## FIX Zirconium Disc

Abrasive disc with Hook & Loop fastening and an outstanding grinding capacity. Ideal for body shops and car workshops.

**Diameter: 4-1/2" and 6"**  
**Grits: 40, 60, 80, 120**

### FIX Zirconium Disc Ordering Information

Part No.	Diameter	Grit	Quantity
80904	4 1/2"	40	50 pack
80906		60	
80908		80	
80909		120	
80914	6"	40	50 pack
80916		60	
80918		80	
80919		120	



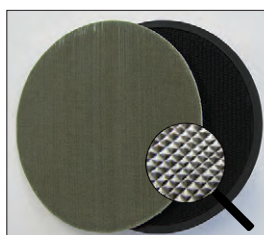
## FIX Fleece (Nonwoven) Disc

Versatile disc for fine surface conditioning and pre-polishing.

**Diameter: 4-1/2" and 6"**  
**Grits: coarse, medium, fine, superfine**

### FIX Fleece (Nonwoven) Disc Ordering Information

Part No.	Diameter	Grit	Quantity
80615	4 1/2"	coarse (brown)	10 pack
80616		medium (red)	
80617		fine (blue)	
80618		superfine (grey)	
80650	6"	coarse (brown)	10 pack
80651		medium (red)	
80652		fine (blue)	
80653		superfine (grey)	



## FIX TZ Pyramid Disc

Abrasive fabric with pyramid-shaped grit structure for high material removal while producing a very fine finish. FIX TZ Pyramid discs reduce the amount of work required compared to grinding belt sleeves and fleece sleeves. Ideal for pre-polishing for mirror finishes and for removing scratches and spot welds. An additional

absorption coating dramatically reduces the grinding temperature and protects the Hook & Loop components and the workpiece.

**Diameter: 4-1/2" and 6"; Grits: A65, A45, A30, A16, A06**  
**(see grit equivalents on below)**

### FIX Zirconium Disc Ordering Information

Part No.	Diameter	Grit	Quantity
80932	4 1/2"	A65/320	10 pack
80940		A45/400	
80960		A30/600	
80970		A16/1200	
80980		A06/2000	
80985	6"	A65/320	10 pack
80986		A45/400	
80987		A30/600	
80988		A15/1200	
80989		A06/2000	

### Grit Equivalents

A100 = Grit 220  
A65 = Grit 320  
A45 = Grit 400  
A30 = Grit 600  
A16 = Grit 1200  
A06 = Grit 2000



## FIX-Klett (Nonwoven) Disc

The new FIX-Klett disc is a superfine soft nylon-fleece material for pre-polishing aluminum or other soft, nonferrous materials to a mirror finish.

Diameter: 4-1/2"; Superfine grit, **Part No. 80680** (10 pack)

Diameter: 6"; Superfine grit, **Part No. 80690** (10 pack)

# SuperPolish Discs for the FIX Hook & Loop System



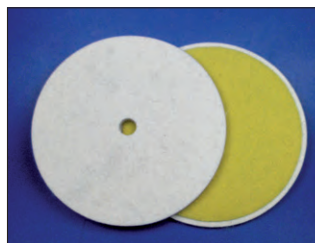
## FIX SuperPolish Disc

SuperPolish is a special needle fleece that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Use with our polishing compounds (white and blue)

and pink cream to avoid smears and shadows. SuperPolish is absorbent, does not smear and saves time.

Diameter: 4-1/2"; Thickness: 1/4", **Part No. 80715N** (10 pack)

Diameter: 6"; Thickness: 1/4", **Part No. 80750N** (10 pack)



## FIX SuperPolish Felt Disc

Special merino wool felt that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Use with our polishing compounds (white and blue) and pink cream to avoid smears and shadows.

Diameter: 4-1/2"; Thickness: 1/4", **Part No. 80715** (10 pack)

Diameter: 6"; Thickness: 1/4", **Part No. 80750** (10 pack)

*When polishing with **FIX SuperPolish Discs**, use a separate SuperPolish disc for each compound and cream. The different compound grits must not be mixed. Remove compound and cream residues from the workpiece after each stage using PTX Brightex® Softclean Powder and a microfiber cloth.*

## Polishing and Maintenance Products



**PTX Pre-grinding & Polishing Compound**  
Essential for polishing all metals, including stainless steel, aluminum, etc.

**PTX WHITE** pre-polishing compound (23 oz.) – **Part No. 40013**

**PTX BLUE** finishing compound (23 oz.) – **Part No. 40014**

**PTX WHITE and BLUE** mini pastes (approx 4.2 oz. ea.) – **Part No. 40009**



## PTX Polishing Cream, Pink

For high reflective finishing. Produces a perfect mirror finish on stainless steel and nonferrous metals when used with the SuperPolish Sleeve or Belt.

Miniature tube, 2 oz. – **Part No. 40015T**

Can, 2.2 lbs. – **Part No. 40015**



## PTX Brightex® Softclean Powder (non-caustic)

For removing cream and compound residues. Scatter on the surface and wipe off with a microfiber cloth.

**Aluminum scatter container with Brightex®**  
(approx. 7 oz.) – **Part No. 40029**

Can, 2.2 lbs. – **Part No. 40028**

Scatter container only – **Part No. 40020**



## Microfiber Cloths

For pore-deep cleaning and even distribution of maintenance products and polishes. Our microfiber cloths produce a top finish on all materials.

Size: 13" x 14" – **Part No. 40031**



## INOX-Protect (hard sealant)

Protects finished and polished metal surfaces (stainless steel, steel, aluminum, brass, copper, etc.) with a clear, dry adhesive film. Removes fingerprints and other dirt.

Canister (w/ spray bottle), 1.3 gal. – **Part No. 40041**  
Spray bottle, 17 oz. – **Part No. 40040**



## Brilliance-Clean

For streak- and residue-free cleaning of all surfaces, including stainless steel, steel, aluminum, brass and copper. Brilliance-Clean is not harmful to plastics, wood or coated surfaces. It removes fingerprints, dust, compound residue, minor oil and grease marks and adhesive residue

effortlessly. Evaporates quickly without leaving any residue on the surface.

Canister (w/ spray bottle), 1.3 gal. – **Part No. 40051**  
Spray bottle, 17 oz. – **Part No. 40050**



## POLY Protection (oil film)

For cleaning and preserving finished and polished stainless steel and nonferrous metal surfaces. Protects against shadows and finger and water marks for a long time. Spray on and rub off with a microfiber cloth. Produces a darker effect on finished surfaces.

Canister (w/ spray bottle), 1.3 gal. – **Part No. 40012**  
Spray bottle, 17 oz. – **Part No. 40011**

## TIPS & TRICKS

### Perfect mirror finish on stainless steel and nonferrous metals

The new TZ Pyramid and SuperPolish discs for the FIX Hook & Loop system can be used with an angle grinder to create perfectly polished finishes on stainless steel and nonferrous metals.

**Pre-grinding** to remove scratches and level welds using TZ Pyramid discs with grit A30.

**Fine grinding** using TZ Pyramid discs with grit A16.

These two stages prepare the surface for polishing. TZ Pyramid is an aggressive abrasive, so there is no need to slowly increase the grit fineness. Use only contact pressure to grind – the weight of the grinder is generally sufficient.

**Pre-polish** with SuperPolish disc and white polishing compound.

**Main polish** with SuperPolish disc and blue polishing compound.

**Perfect mirror finish** with SuperPolish disc and pink cream.

*Use a separate SuperPolish disc for each step – the different compound grits must not be mixed. Remove compound and cream residues after each stage using PTX Brightex® Softclean Powder and a microfiber cloth.*





### Polishing corner welds with the POLY-MAGIC-WHEEL

Obtaining good polish quality when finishing corner welds is difficult, especially for the fabrication of railings. The POLY-MAGIC-WHEEL was designed to help you more easily produce a truly perfect finish in these applications. This highly compacted fleece disc was designed specifically for grinding and polishing bead and corner welds.

Carry out the initial grinding and leveling of welds with the red disc, grit A (80 grit).

Then polish to a mirror finish using the POLY-MAGIC gray disc, grit B (900 grit). These discs are very aggressive and improve productivity. No polishing compounds or creams are required for polishing with the POLY-MAGIC-WHEEL (dry polish).

# POLY-MAGIC-WHEEL

## Dry polish stainless steel in corners up to a mirror finish!

The POLY-MAGIC-WHEEL is designed for finishing and dry polishing in corners, producing up to a perfect mirror finish in just two steps. These discs are composed of highly compressed fleece material, made by compressing single flaps that are then impregnated with foam for greater strength. This special process allows considerably more abrasive material to be used than on conventionally wound "unitized wheels and discs."

The POLY-MAGIC-WHEEL is ideal for grinding and polishing bead and corner welds. It may only be used frontally.

*Ideal for speed-controlled angle grinders.*

### POLY-MAGIC-WHEEL

Dimensions	6 1/2" dia. x 7/8" arbor
Max. Speed	5000 RPM
Ideal Speed	3000 to 4000 RPM
Grits	<b>A/80 (red):</b> for initial grinding and leveling welds (P/N 96720, 5 pk.) <b>B/900 (gray):</b> for polishing to a perfect mirror finish (P/N 96721, 5 pk.)

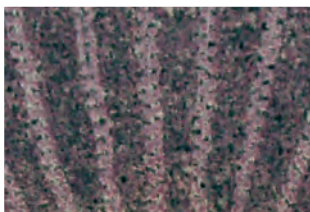
### Mirror finish in 2 steps:



1 POLY-MAGIC-WHEEL A (80 grit)



2 POLY-MAGIC-WHEEL B (900 grit)



# MAGNUM® TOPMIX

## Increased material removal, longer service life.

The MAGNUM® TOPMIX was developed to increase material removal during finishing while also improving service life. The 80 combination grit is much more aggressive than our MAGNUM® FLEECE TOP 80 grit (see next page). Individual flaps with foamed and compressed fleece offer a much higher removal capacity, making it ideal for removing spot welds and deep scratches on stainless steel, steel and nonferrous metals. The coordinated fleece combination additionally ensures that a good finish is achieved. The MAGNUM® TOPMIX also offers excellent service life, making deburring and cleaning of cast parts and welds a breeze.

*Ideal for speed-controlled angle grinders.*

### MAGNUM® TOPMIX

Dimensions	5 dia. x 7/8" arbor
Max. Speed	6000 RPM
Ideal Speed	2000 to 4500 RPM
Grits	40/80 (P/N 96705, 5 pk.)

# MAGNUM® FLEECE TOP

**Made of foamed, compressed grit, interspersed nonwoven fleece.**

The MAGNUM® FLEECE TOP is a versatile fleece disc for surface conditioning, fine finishing and polishing, offering up to 8x the service life of traditional fleece and surface conditioning discs. The FLEECE TOP is an ideal disc for metalworking that requires fine grinding and pre-polishing to a uniform clean finish. It is effective at descaling and removing oxidation, scratches, rust, burrs and paint. It replaces a wire brush, abrasive paper and grinding rubbers and is self cleaning, with a special mixture that prevents glazing and loading. The foamed fleece ring is approx. 5/8" thick. This highly compressed quantity of fleece material ensures an extra-long service life.

*Ideal for speed-controlled angle grinders.*

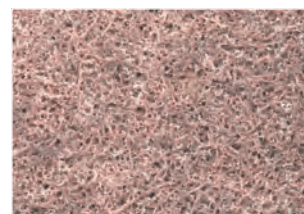
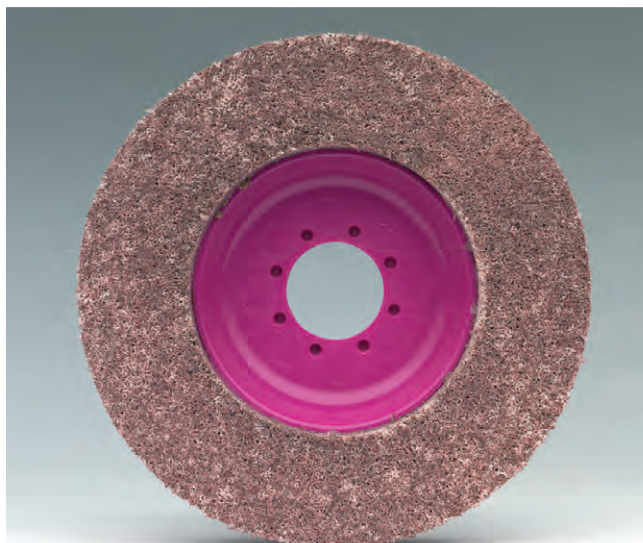
## MAGNUM® FLEECE TOP

Dimensions 4 1/2" dia. x 7/8" arbor

Max. Speed 8000 RPM

Ideal Speed 2000 to 4500 RPM

Grits  
80 (P/N 96710, 5 pk.)  
180 (P/N 96711, 5 pk.)  
280 (P/N 96712, 5 pk.)  
400 (P/N 96713, 5 pk.)  
600 (P/N 96714, 5 pk.)  
900 (P/N 96715, 5 pk.)



# MAGNUM® CLEAN

**For pore-deep cleaning of metals  
(sandblasting effect).**

MAGNUM CLEAN® is a flexible cleaning disc for the pore-deep cleaning of metals. This flexible coarse fleece disc is interspersed with silicon carbide grit and cleans without harming the base material. The disc itself is iron free, which means that there is no risk of corrosion. The coarse fleece material will not glaze or load, even if exposed to heavy contamination. MAGNUM CLEAN® is the ideal cleaning disc for pore-deep removal of paint, rust, scale and oil smears, as well as for cleaning and exposing without material removal. It is ideal for use in body shops (cleans thin sheet metal with no material removal) and in the automotive industry, and it is also suitable for undersealing, renovating, painting and building work. MAGNUM CLEAN® is particularly good for removing paint and other coatings on wood, stone and metal (including window frames, doors and frames, furniture, house facades, graffiti, railings, fences, supports and machines).

*Ideal for speed-controlled angle grinders.*

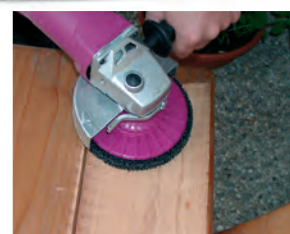
## MAGNUM® CLEAN

Dimensions 5 dia. x 7/8" arbor

Max. Speed 5000 RPM

Ideal Speed 2000 to 4500 RPM

Grits **Medium** (P/N 96700, 5 pk.)





# PIPE-MAX

## Pipe Belt Grinder

Combination pipe belt sander and grinder for diameters up to 14"

*Follow contours to grind and polish pipes and handrails up to a high-gloss finish*

- Grinds weld seams on flat surfaces – leaves no edges
- Belt wraps around pipe and requires only a few steps to polish entire circumference
- Powerful 15 Amp motor and variable-speed control from 950 to 3500 RPM
- Quick and easy changing of sanding belts
- Ideal for stainless steel, aluminum and high-quality metals



You can follow the external contour of the pipe diameter with light, uniform contact pressure. The new contour concept with the elastic return roller allows the grinding and polishing belts to conform around the external diameter of the pipes without great force.



1 Gas pressure cylinder allows belt to conform to contour of pipe with proper pressure.



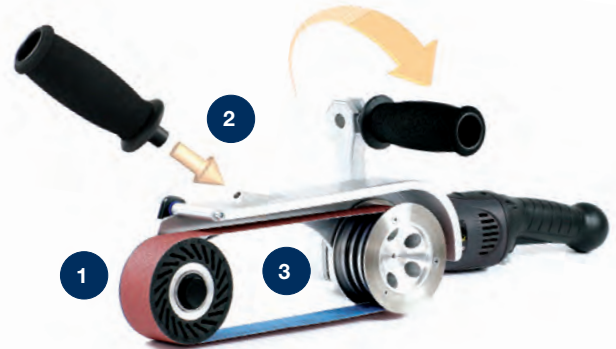
2 Additional handle for comfortable, overhead working.



3 The drive roller with the rubber rings ensures that the grinding belts will not slip.



The soft grinding roller made of PUR material also allows comfortable longitudinal grinding of flat surfaces, for example to remove spot welds or eliminate deep scratches.



### PIPE-MAX Specifications

Order No.	38502A
Belt Size	30.7" L x 1.5" W*
Power	15 Amp (1710 W) / 110V
Pipe ø Max.	14"
Weight	11.25 lbs.

### Standard Equipment

1 PIPE-MAX basic machine, 110V	2 PIPE-MAX SC-fleece belts, medium
1 QUICK-LOCK cable, 13 feet	2 PIPE-MAX SC-fleece belts, fine
1 additional handgrip	3 spare rubber rings
PIPEMAX grinding belts, 2 each grits 40, 60, 80 and 120	

\* Exact belt size is 780mm x 40mm

220 Volt also available

### PIPE-MAX Accessories

PIPE-MAX Belts: Belt Size – 30.7" x 1.5" (780mm x 40mm)

#### 10 belts per package

Abrasive Grinding Belts		Abrasive Grinding Belts – Ceramic		TZ Pyramid Belts	
Grit	Part No.	Grit	Part No.	Grit	Part No.
24	38523	24	38124	A100/220	38544
40	38524	36	38136	A65/320	38545
50	38525	40	38520	A45/400	38546
60	38526	60	38160	A30/600	38547
80	38528	80	38180	A16/1200	38548
120	38529	100	38100		

#### 4 belts per package

Abrasive Surface Conditioning Fleece Belts		SuperPolish Belt	
Grit	Part No.	Part No.	38850
Coarse (brown)	38531		
Medium (red)	38532		
Fine (blue)	38533		
Superfine (grey)	38534		

# Gladius® 1800 Multifunctional Grinder

Ideal for hard-to-reach areas such as corners, angles and tight spaces.

- Grind, deburr, blend and polish ferrous and nonferrous metals, wood and plastic
- Long, sword-shaped, belt-driven tool for finishing hard to reach areas
- Infinitely adjustable speed control from 1000 to 3800 RPM
- Tachogenerator provides constant speed, even under load
- Innovative design allows use of the full length of both sides of the arm for smooth grinding, blending and polishing
- Integrated dust extraction port reduces airborne particles when connected to an industrial vacuum



## Gladius® 1800 Pro Kit Specifications

Order No.	38652A
Belt Size	30.7" L x 1.5" W*
Power	15 Amp / 110V
Speed	1000 - 3800 RPM
Weight	10 lbs.

\* Exact belt size is 780mm x 40mm



**The Gladius® 1800 uses the same abrasive belts as the PIPE-MAX. See page 110 for more information.**

## Gladius® 1800 Professional Kit

Part No. 38652A



### Professional Kit includes:

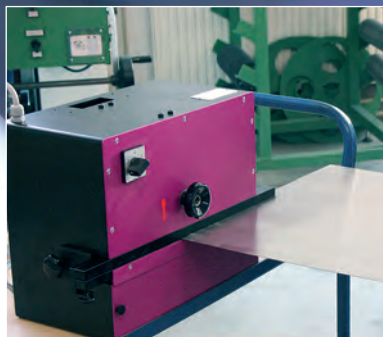
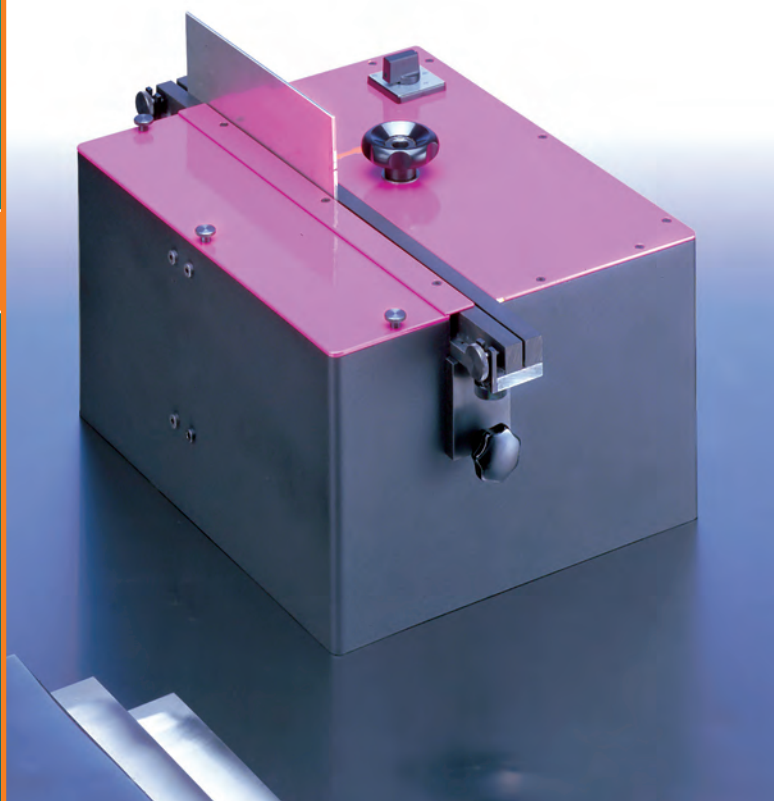
- 1 Gladius® basic machine (110V)
- 1 QUICK-LOCK power cord (P/N 52004-2)
- 1 Machine stand (P/N 38660)
- 2 SC-fleece belts, medium grit (P/N 38532)
- 2 SC-fleece belts, fine grit (P/N 38533)
- 2 40 grit Zirconium abrasive grinding belt (P/N 38524)
- 2 60 grit Zirconium abrasive grinding belt (P/N 38526)
- 2 80 grit Zirconium abrasive grinding belt (P/N 38528)
- 2 120 grit Zirconium abrasive grinding belt (P/N 38529)
- 1 Aluminum carrying case (P/N 50102)



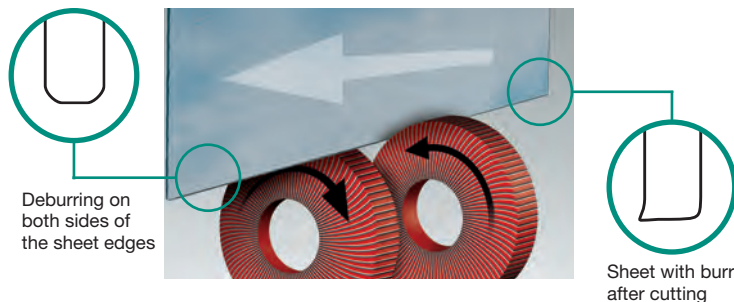
Convert the Gladius® 1800 to a bench-mounted grinder with optional machine stand for precision grinding and polishing.  
Optional machine stand: Part No. 38660







Can also be used on its side with roller tables for large thin sheets.



# ROLEI® BE 5 Sheet Metal Deburring Machine – 2 Speeds

Double-sided deburring of sheet metal up to 0.2" thick can be achieved in a single operation with no additional treatment. The machine's flap wheels can be easily adjusted as they wear. One set of wheels lasts for approximately 6500 feet of stainless steel sheet. Supplied standard with two 80 grit flap wheels, the ROLEI® BE 5 can be used with other optional grits to suit the facet width and materials of your particular application.



## Features two-speed operation:

Speed 1: fine deburring, 600 RPM  
Speed 2: standard deburring, 1200 RPM

## Optional accessories:

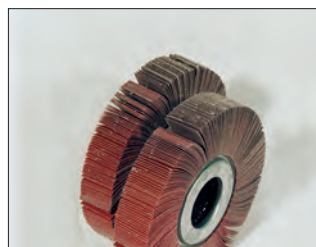
- Spare flap wheels (40, 60, 80, and 120 grit)
- Machine stand, made from strong steel
- Port for industrial dust extractor (Part No. 30330)

## ROLEI® BE 5 Specifications

Order No.	30310A (220 Volt) 30310 (380 Volt)
Motor	220V 3-phase, 2 speeds, .2 KW, 0.9 Amp 380V 3-phase, 2 speeds, .2 KW, 0.45 Amp
Dimensions	19.7" x 12.8" x 7.9"
Weight	64 lbs
Options	Machine stand, dust extractor connection port, teflon tape

## ROLEI® BE 5 Flap Wheels

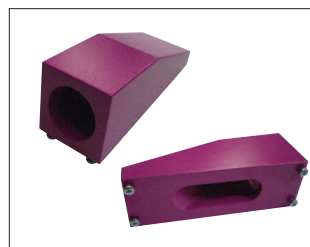
Part No.	Grit	Qty.
37040	40	2 discs per pack
37060	60	2 discs per pack
37080	80	2 discs per pack
37120	120	2 discs per pack



Spare flap wheels for sheet metal deburring machine BE 5  
Grit 40, 60, 80, 120



Machine stand - Part No. 30320  
Strong steel machine stand with black powder coating



Dust extraction port (end and bottom views shown above)  
Part No. 30330



Teflon protective tape – self-adhesive (2 required)  
Part No. 30341 (27.5" L x 3/4" W)  
For extension rail to protect from scratching the workpiece

# ROLEI® EF 115

## Hand-held Deburring and Faceting Machine

This handy deburring machine is designed for awkward, heavy parts, such as machine tables, frame constructions or large sheets of metal. Easy to handle, with good edge control. The EF 115 is also ideal for chamfering welds. Fixed beveling angle of 45°, infinitely adjustable facet width from 0" to 3/8".



### ROLEI® EF 115

110 V / 60 Hz

Variable speed: 2,000 to 7,600 RPM

### ROLEI® EF 115 Specifications

Order No.	30116
Universal Motor	15 Amp (1710 W) 110/60 Hz (230V / 50 Hz, 1600 W also available)
Speed	Infinitely adjustable from 2000 to 7600 RPM
Weight	9 lbs
Options	Sliding Guide rail, plastic (Part no. 30117, 2-piece set)

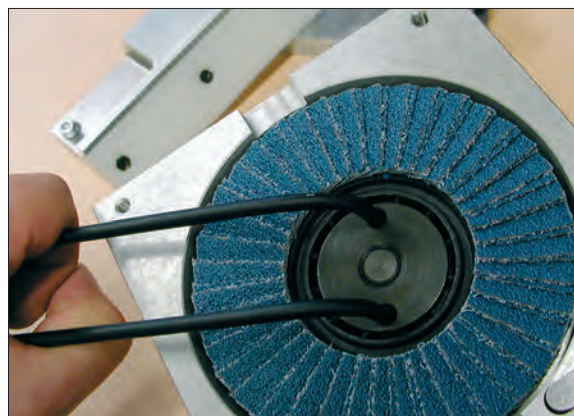
The handy ROLEI® EF 115 can deburr and facet large, heavy parts with ease. The precise edge control guarantees clean bevels at an angle of 45°.



QUICK-LOCK cable for fast, easy replacement, e.g. if the cable is damaged. 13 ft., included. [Part No. 52004-2](#)



Simple disc changing.



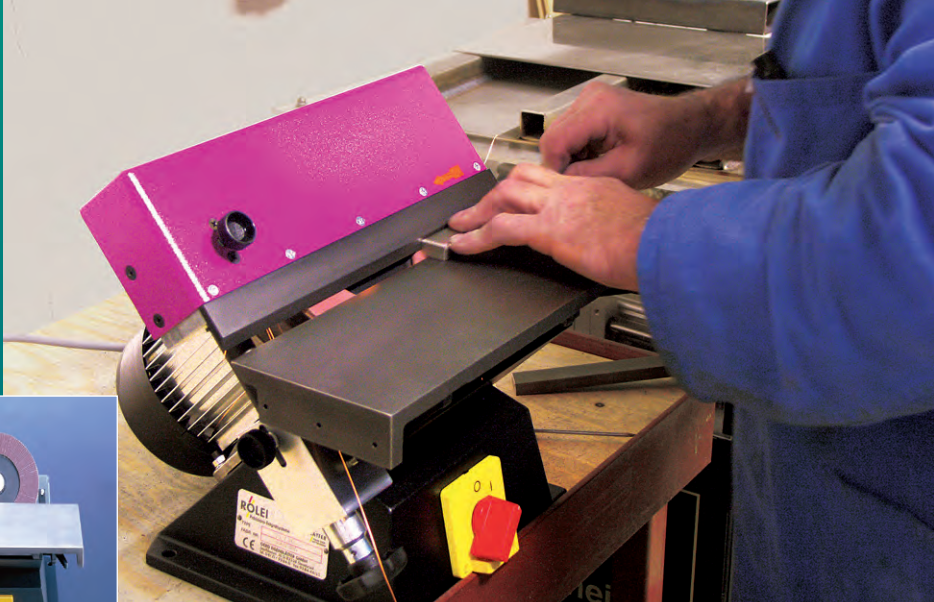
### ROLEI® EF 115 Flap Discs

Part No.	Grit	Quantity
<a href="#">21050A</a>	50	10 discs per pack
<a href="#">21060A</a>	60	10 discs per pack
<a href="#">21080A</a>	80	10 discs per pack
<a href="#">21120A</a>	120	10 discs per pack



# ROLEI® EF 165

*Beveling and deburring machine for facets at an angle of 45°.*



Beveling and deburring machine with a fixed beveling angle of 45° and an infinitely adjustable beveling width from 0" to 3/8" for all metals from stainless steel to aluminum. Precise adjustment of the face width using a hand wheel.

## Optional accessories:

- Table extension (2 pieces, 5" x 13" each)
- Machine stand
- Extraction port for industrial dust extractor
- Spare flap discs (60, 80, 120 grit)



### Machine stand

Part No. 30120

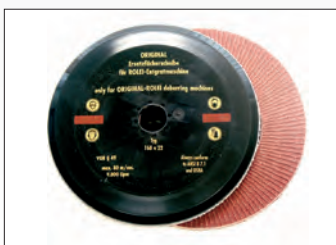
Sturdy steel machine stand with black powder coating.



### Extended support table

Part No. 30110

Made of sliding grey cast material. 27-1/2" long



### Spare flap discs

The flat disc with special hard compression for deburring machines. Self-sharpening and extremely long service life!

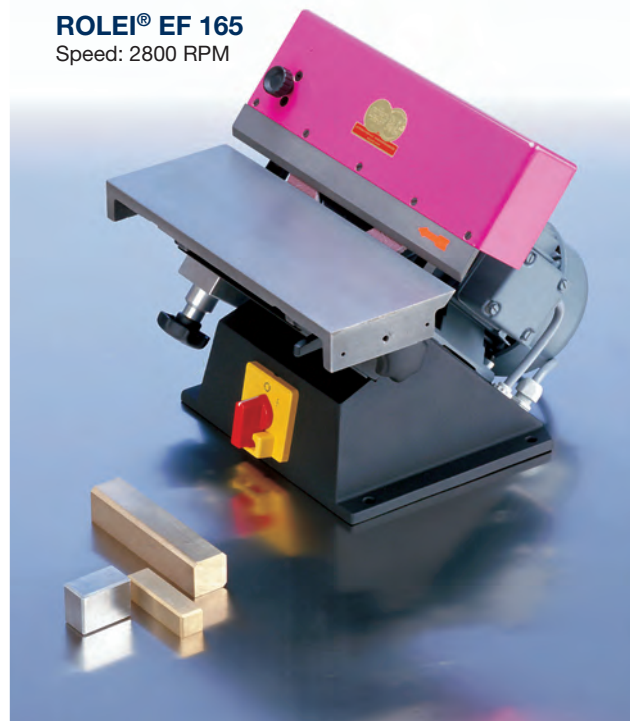
60 Grit Part No. 36060

80 Grit Part No. 36080

120 Grit Part No. 36120

## ROLEI® EF 165

Speed: 2800 RPM



## ROLEI® EF 165 Specifications

Order No.	30101 (220 Volt)
	30100 (380 Volt)
Motor	220V single-phase or 380V 3-phase
Dimensions	14" x 13" x 12"
Support Table	5" x 13"
Weight	40 lbs.
Options	Table extension, machine stand, extraction port for dust extractor connection



Supplied as standard with 80 grit disc. Other grits can also be used to suit the facet width and materials.

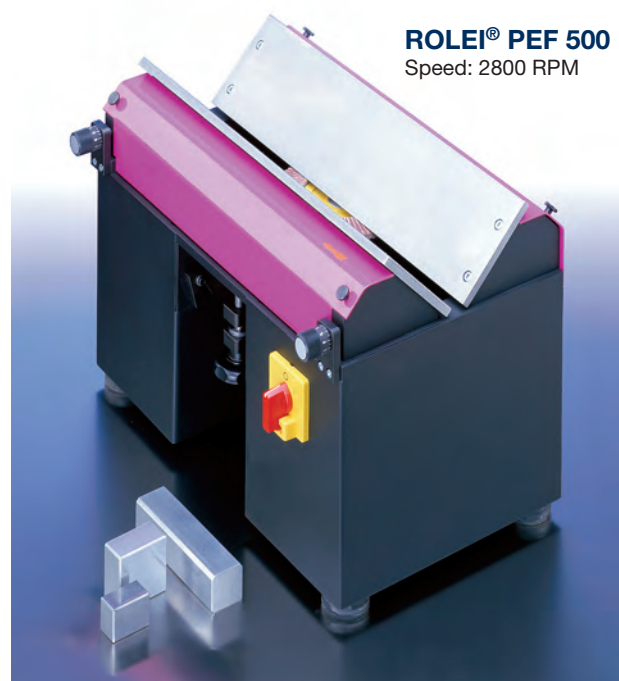
# ROLEI® PEF 500

**Beveling and deburring machine for facets at angles of 30° to 60°.**

Precision beveling and faceting machine for all metals from stainless steel to aluminum. Infinitely adjustable beveling angle from 30° to 60° and infinitely adjustable face width from 0" to 3/8" (precise adjustment using knob).

## Optional accessories:

- Extraction port for dust (Part No. 30230)
- Sliding feed plate, plastic (Part No. 30210)
- Replacement flap discs (see below right)

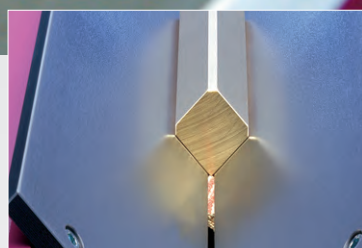
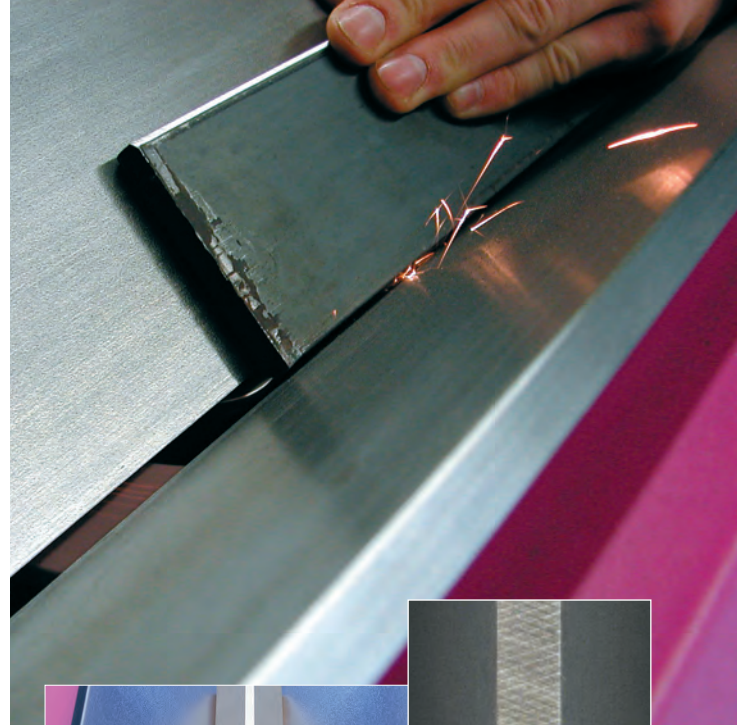


**ROLEI® PEF 500**  
Speed: 2800 RPM

## ROLEI® PEF 500 Specifications

Order No.	30201 (220 Volt) 30200 (380 Volt)	
Motor	220V single-phase or 380V 3-phase	
Dimensions	20" x 14" x 14"	
Weight	88 lbs.	
Options	Machine stand, extraction port for dust extractor connection	

Supplied as standard with 80 grit disc. Other grits can also be used to suit the facet width and materials.



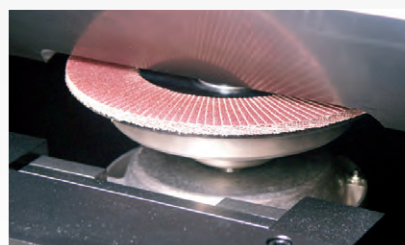
Parts are beveled with perfect cross-grinding – absolutely no opposite burr.



The face width can be adjusted precisely using a hand wheel.



The disc wear is adjusted using a hand wheel with a threaded spindle. The face angle can be adjusted using a motorized system.



The easily interchangeable flat flap disc produces a chamfer which creates zero opposite burr.

**Replacement flap discs**  
60 Grit Part No. 36060  
80 Grit Part No. 36080  
120 Grit Part No. 36120



**Infinitely adjustable  
facet angle from 30° to 60°**



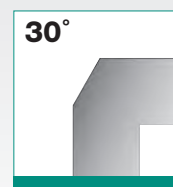
# Multipurpose Beveling Machines

Bevel, deburr and chamfer edges of steel plate faster and cleaner than angle grinders.

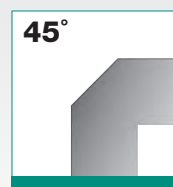
- Bevel 30°, 45°, 2.5mm or 1.6mm radius on steel, stainless, nonferrous metals, brass and plastics
- Deburr and chamfer; straighten edges, internal and external radii; and countersink holes from 7/8" dia.
- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Ideal for: **Boiler and process plant construction** (prepare weld seams on heat exchangers); **Mechanical engineering** (deburr machine parts, chamfer edges to protect against paint peeling and create visible edges); **Sheet metal** (deburr cut edges); **Moldmaking** (straighten edges, internal and external radii and countersink holes from 7/8" dia.)



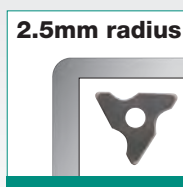
## Three Milling Options



Milling cutter 30°, Chamfer 0 - 1/4"



Milling cutter 45°, Chamfer 0 - 1/4"



Milling cutter 2.5mm radius (0.098")



### 0-1/4" beveling width

Three Models:  
EKF 300.3 - 30°  
EKF 450.3 - 45°  
EKF 452.3 - 2.5R

Also available:  
1.6mm / 0.063"  
cutting inserts (SHM 201).  
Contact us for details.



**Fine adjustment**  
Precise control  
of chamfer when  
deburring for weld  
seam preparation



### 0-9/16" (15mm) beveling width

Two Models:  
EKF 630 - 30°  
EKF 645 - 45°

**Standard equipment includes**  
milling head and two inserts,  
SW22 key, carrying case and  
user's manual. See our Price  
List for available accessories.



Specifications	Model EKF 300.3*	Model EKF 450.3*	Model EKF 452.3*	Model EKF 630	Model EKF 645
Beveling Angle	30°	45°	2.5mm (0.098")	30°	45°
Bevel Width (max.)***	1/4"	1/4"	1/4"	9/16"	9/16"
Motor Power	13.5 Amp/110V**			19.1 Amp/110V**	
Cutting Speed	3000 SFPM			1200-1500 SFPM	
Cutting Inserts Qty.	3			20	
Available Inserts (Sold as pack of 10)	SHM200; SHM 200-E (for stainless steel); SHM 202 (2.5mm radius); SHM 201 (1.6mm radius)			SHM 900	
Dimensions	12 <sup>1</sup> / <sub>2</sub> " L x 5 <sup>1</sup> / <sub>2</sub> " W x 11 <sup>5</sup> / <sub>8</sub> " H			15 <sup>3</sup> / <sub>4</sub> " L x 13 <sup>13</sup> / <sub>16</sub> " W x 11 <sup>13</sup> / <sub>16</sub> " H	
Weight	10.5 lbs.			22.5 lbs.	

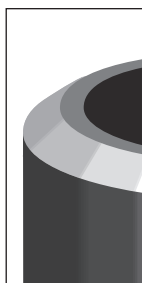
\*Heads are interchangeable \*220 V / 50 Hz also available

\*\*\*Max bevel width may require several passes, depending on material hardness

# SKF Beveling Machine for Plates and Pipes

*Fast, easy preparation of weld seams and bevels on plate or pipe.*

- Bevel 15° to 60° angles and land width up to 3/4" on steel, stainless steel, aluminum and nonferrous metal plates and pipe
- Work on welding angles and weld preparation on pipes/tubes with a minimum OD of 6-1/4" (160mm) with built-in pipe roller guide; ideal for beveling pipe 6-1/4" OD and larger
- Robust design, single operator control and easy handling
- Anti-vibration system for operator comfort



**Standard equipment** includes one milling head, 10 sintered carbide reversible cutting inserts, tools for assembly, built-in pipe roller guide, steel carrying case and user's manual. Please see our Price List for available accessories.

**Cutting Plates - Sold as pack of 20**  
Part No. **SHM 800 N:** for beveling carbon and stainless steel

## SKF Portable Beveler Specifications

Order No.	SKF 025
Beveling Width	3/4" max.***
Motor Power	15 Amp
Voltage	110V (220V / 50 Hz also available)
Cutting Speed	1800 SFPM
Cutting Inserts	10
Dimensions	16 1/2" L x 13" H
Weight	43 lbs.

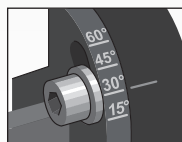
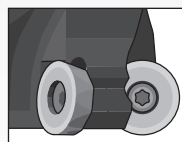
\*\*\*Max bevel width may require several passes, depending on material hardness

# AutoCUT 500 Automatic Edge Processing Machine

*Powerful, self-guiding beveling machine for 15° to 60° edges on plate up to 1.5" thick.*



- Bevel 15° to 60° angles and land width up to 1-3/16" on steel, stainless steel, aluminum and nonferrous metal plates and pipe
- Unit propels itself on the plate, no need for a cart or stand
- Automatic feed and return
- Reversible carbide cutting inserts



## Automatic Edge Processing Machine Specifications

Order No.	AutoCUT 500
Beveling Width	1 3/16" max.***
Motor Power	10 Amp
Voltage	230V, 3-phase
Cutting Speed	2750 SFPM
Cutting Inserts	6
Dimensions	23 1/2" L x 24" W x 20 1/2" H
Weight	110 lbs.



\*\*\*Max bevel width may require several passes, depending on material hardness