High-performance Tools for Finishing Stainless Steel, Steel, Nonferrous Metals and Wood

GRINDING  BLENDING
SANDING  POLISHING
DEBURRING  BEVELING

UNITEC
ELECTRIC • PNEUMATIC • HYDRAULIC
... the power of innovation!
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 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!)

### 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!)

### Belts with buttonhole fastening system for grinding and polishing closed pipe constructions.

(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 5).  

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

Simple speed control during operation. Stable speed thanks to tachogenerator.

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

1-800-700-5919
Visit our Web site at www.csunitec.com
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. It grinds from coarse to very fine finishes and burnishes to a high-gloss finish. It enhances stainless steel, steel and nonferrous metals including aluminum, brass, bronze and copper, as well as wood and rigid plastic.

Balanced straight-line handling, high torque and electronic speed control enable the PTX to easily produce matte, satin and other decorative surfaces up to a mirror finish. Besides fine finishing, the PTX is ideal for coarse grinding to remove welds, deep scratches, oxidation, rust and paint.

PTX Eco Smart features a newly developed abrasive mounting system. This unique system allows grinding and polishing wheels to be changed in seconds, without tools or hardware. Simply slide the wheels and accessories onto the finned, rigid rubber shaft. They secure themselves automatically when the machine turns.

The finned shaft design ensures absolutely no vibrations during operation and 100% concentricity. The main savings compared to other linear grinders comes from the cost of abrasives. The elimination of an internal core means the abrasive wheels can be produced less expensively, while delivering the same high-quality results.

CS Unitec can provide you with an extensive range of abrasive tools and accessories to cover almost every conceivable surface finishing application.

**PTX Eco Smart Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>15 Amp (1710 Watts)</td>
</tr>
<tr>
<td></td>
<td>110 Volt / 60 Hz (Also available: 230 Volt / 50 Hz)</td>
</tr>
<tr>
<td>Speed Control Dial</td>
<td>Variable speed control from 1000 to 3800 RPM with tachogenerator for constant speed, even under load</td>
</tr>
<tr>
<td>Wheel Width</td>
<td>2&quot;, 4&quot; or 6&quot; wide abrasives</td>
</tr>
<tr>
<td>Wheel Diameter</td>
<td>up to 4-1/2&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>7.25 lbs.</td>
</tr>
<tr>
<td>Standard Equipment</td>
<td>4&quot; Interleaf (combi) wheel – P/N 47312</td>
</tr>
<tr>
<td></td>
<td>Shaft Adapter – P/N 42004</td>
</tr>
</tbody>
</table>

**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.

**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 12 for more details.)
Pneumatic Surface Finisher

Save time sanding and polishing. 4" wide face is ideal for finishing stainless steel, metals, wood and synthetics.

The powerful LP 1503 AIR grinding and polishing machine produces a uniform finish fast and easy without leaving visible transitions and shadows. It is compact, lightweight and heavy duty. Ideal for graining, polishing, brushing, blending, deburring, cleaning welds, roughing and more. Easily achieve a #3, #4, #6 or #8 finish. Constant speed, high torque and a comprehensive line of accessories make this an essential tool for surface finishing.

Pneumatic Surface Finisher Specifications

<table>
<thead>
<tr>
<th>Order Number: LP 1503 AIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Speed</td>
</tr>
<tr>
<td>Motor</td>
</tr>
<tr>
<td>Air Consumption</td>
</tr>
<tr>
<td>Wheel Diameter</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Standard Equipment</td>
</tr>
<tr>
<td>Shaft Adapter</td>
</tr>
</tbody>
</table>

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 40015)
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 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 and thus vibration-free grinding – a prerequisite 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. A new production process guarantees 100% concentricity.

- 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, 80, 120, 180, 240

**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.
**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

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**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. Allows high material removal while producing a very fine finish, reducing the amount of work required when compared to grinding belt sleeves and fleece sleeves. Pyramid sleeves are ideal for pre-polishing for fine mirror finishes and for 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

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**Part Numbers**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Size (dia. x width)</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>42040</td>
<td>40 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42060</td>
<td>60 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42080</td>
<td>80 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42120</td>
<td>120 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42150</td>
<td>150 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42180</td>
<td>180 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
</tbody>
</table>

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**TZ PYRAMID GRIT COMPARISON TABLE**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Size (dia. x width)</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>42265</td>
<td>A65/320 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42245</td>
<td>A45/400 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42230</td>
<td>A30/600 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42216</td>
<td>A16/1200 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42206</td>
<td>A06/2000 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
</tbody>
</table>

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**FLEECE COMPARISON TABLE**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Size (dia. x width)</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>42010</td>
<td>coarse (brown)</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>4 per pack</td>
</tr>
<tr>
<td>42011</td>
<td>medium (red)</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>4 per pack</td>
</tr>
<tr>
<td>42012</td>
<td>fine (blue)</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>4 per pack</td>
</tr>
<tr>
<td>42009</td>
<td>superfine (grey)</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>4 per pack</td>
</tr>
</tbody>
</table>

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**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.

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**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.

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**UNITEC**

1-800-700-5919 • Visit our Web site at www.csunitec.com
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 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

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

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

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

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 10 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

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.

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

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

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
Polish in one direction only.

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

The result... a brilliant mirror finish!

Maintain and protect finished or polished stainless steel surfaces.

Compound and cream residues can be removed using PTX Brightex®. 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 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)
New 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 the initial grinding before polishing to a mirror finish. Because the grit fineness is increased slowly, it is possible to omit several operations. For 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 on 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.

PTX Felt Belt (open)
Made of merino felt with buttonhole fastening system for polishing work on open and closed pipe constructions and handrails. The polishing belt can be opened and closed as often as necessary. For use with grinding belt rollers and our polishing compounds and creams. Use a separate felt belt for each compound and cream grit. Do not use compounds with different grits on felt. 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 lots of work time. For use with grinding belt rollers.
Dimensions: 1.2” x 26” Part No. 49001

PTX Special Adhesive Tape
With glass fabric insert for joining grinding belts. Strong, heat-resistant adhesive force. For joining PTX grinding and TZ Pyramid belts for use on closed pipe constructions.
Affix the adhesive tape over the entire length of the grinding belt, overlapping approximately 370°.
Dimensions: 1” x 165’ Part No. 49000

PTX TZ Pyramid Belts

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Size (width x length)</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>49365</td>
<td>A65/320 grit</td>
<td>1.2” x 24”</td>
<td>10 per pack</td>
</tr>
<tr>
<td>49345</td>
<td>A45/400 grit</td>
<td>1.2” x 24”</td>
<td>10 per pack</td>
</tr>
<tr>
<td>49330</td>
<td>A30/600 grit</td>
<td>1.2” x 24”</td>
<td>10 per pack</td>
</tr>
<tr>
<td>49316</td>
<td>A16/1200 grit</td>
<td>1.2” x 24”</td>
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</tr>
<tr>
<td>49306</td>
<td>A06/2000 grit</td>
<td>1.2” x 24”</td>
<td>10 per pack</td>
</tr>
</tbody>
</table>

PTX Fleece Nonwoven Belts (open)*

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
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<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>49001</td>
<td>coarse (brown)</td>
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<tr>
<td>49002</td>
<td>medium (red)</td>
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<td></td>
</tr>
<tr>
<td>49003</td>
<td>fine (blue)</td>
<td>1.2” x 26”</td>
<td></td>
</tr>
<tr>
<td>49007</td>
<td>superfine (grey)</td>
<td>1.2” x 26”</td>
<td></td>
</tr>
</tbody>
</table>

* Feature buttonhole fastening system

-grinding on 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 (Part No. 49000) over the entire length (approx. 370°).

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 (Part No. 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 7-9)

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 23-25). For replacement flap discs, see page 13.

4. Compatible with the new flexible shaft attachment. (See page 13)

Extensive selection of accessories (See pages 7-9 & 23-25)

MULTI-MAX

220 - 240V, 3-phase
Part No. 30402

MULTI-MAX
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 7-9)
- Uses FIX HOOK & LOOP system for plain grinding, fine grinding and more. (See pages 23-25)
- 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

<table>
<thead>
<tr>
<th>Order Number: 30402</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
</tr>
<tr>
<td>Speed</td>
</tr>
<tr>
<td>Abrasive Diameters</td>
</tr>
<tr>
<td>Disc Mounting</td>
</tr>
<tr>
<td>Wheel Mounting</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Standard Equipment</td>
</tr>
<tr>
<td>Replacement Discs</td>
</tr>
</tbody>
</table>

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 14-15 for details about the VARILEX® WSF 1800.

Flexible Shaft Ordering Information

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible shaft with 5/16&quot; steel wire and 5/8&quot; thread</td>
<td>10015</td>
</tr>
<tr>
<td>Separate 1/8&quot; collet for flexible shaft</td>
<td>10011A</td>
</tr>
<tr>
<td>Separate 1/4&quot; collet for flexible shaft</td>
<td>10011B</td>
</tr>
<tr>
<td>Machine holder (powder-coated steel) incl. clamping screw for VARILEX® WSF 1800</td>
<td>10008</td>
</tr>
</tbody>
</table>
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.

VARILEX® WSF 1800

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

Very powerful and infinitely adjustable

1

2

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

Adjustable cover guard. P/N 65008-1

3

4

Dust-tight field coil with special coating.

5

6

Service cover allows the carbon brushes to be changed quickly.

7

8

Ergonomically positioned locking ON/OFF switch.

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 13 for details.

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

VARILEX® WSF 1800
Part No. 65000A

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 13 for details.

1-800-700-5919  •  Visit our Web site at www.csunitec.com
The most powerful single-handed multi-function machine available – more than just an angle grinder!

The VARILEX® boasts a powerful 15 Amp, 1710 W motor that has been designed and developed for heavy industrial use. The speed is infinitely adjustable between 2000 and 7600 RPM. A tachogenerator keeps the speed constant, even when the grinder is operating at full load.

Sensitive variable-speed control makes the VARILEX® ideal for use with both flap discs and polishing discs, as well as grinding and cutting wheels, for applications ranging from grinding to blending, pre-polishing and polishing. The variable-speed control:

- Doubles the service life of the disc being used
- Prevents glazing of the disc and heat deformation on the workpiece
- Drastically reduces the noise level

The VARILEX® differs from a conventional angle grinder in its motor design to allow for exceptional performance at low RPM – without motor overheating or burnout. This machine also offers the ability to change discs in seconds, without tools, using the patented EASY-LOCK clamping nut and spindle lock. It also offers:

- Optimal speed setting for a range of grinding and polishing tools, yielding perfect results every time
- A balanced handle that ensures fatigue-free grinding

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

VARILEX® WSF 1800 Specifications

<table>
<thead>
<tr>
<th>Order Number: 65000A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
</tr>
<tr>
<td>15 Amp (1710 Watts)</td>
</tr>
<tr>
<td>110 Volt / 60 Hz</td>
</tr>
<tr>
<td>(Also available: 230 Volt / 50 Hz)</td>
</tr>
<tr>
<td>Speed Control Dial</td>
</tr>
<tr>
<td>Infinitely adjustable from 2000 to 7600 RPM</td>
</tr>
<tr>
<td>Diameters</td>
</tr>
<tr>
<td>4&quot; to 7&quot;</td>
</tr>
<tr>
<td>Spindle Thread</td>
</tr>
<tr>
<td>5/8&quot;-11 UNC</td>
</tr>
<tr>
<td>Arbor Size</td>
</tr>
<tr>
<td>7/8&quot;</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>6.2 lbs.</td>
</tr>
</tbody>
</table>

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").

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. 65009-1

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 24)

(2) Main polish with SuperPolish disc and white polishing compound, then with blue polishing compound. Important: Use a separate disc for each compound grit. (page 10)

(3) Mirror finish with SuperPolish disc and pink polishing cream. (page 10)

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 40, 2 PLANTEX® CERAMIC 5" grit 60, 2 PLANTEX® 5" grit 60.

FIX Hook & Loop System Kits

See page 23 for two versatile FIX Hook & Loop System kits.
Unbeatable technology and performance

The first flap discs for high-speed angle grinders were developed at the end of the 1970s. More than 30 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, the flap discs that bear the brand TIGER SHARK-PLANTEX® – plus the newest development, PLANTEX®, made of hemp fiber high-tech compound – are among the best in the world.

Top of the class in material removal, service life and quality

The performance and service life of a flap disc are not only dependent on the abrasive fabric used, but above all on the correct combination of flexible backing material; grit mixtures on the flaps; the angle at which the flap is held against the material; hard pressing; gluing system; and more. These considerations are part of what sets CS Unitec apart from the rest – not all flap discs are the same!

Good for the environment and better for your health

Great care is taken to select raw materials that are environmentally sound and user friendly. Commonly used materials such as fiberglass, mineral fibers and epoxy resins are avoided in favor of sustainable raw materials such as hemp for the discs’ backing plates. A patented, revolutionary flexible adhesive mounting system for the abrasive fabric flaps further contributes to the safety, performance, service life and user friendliness of CS Unitec flap discs. Our discs also considerably reduce vibration and noise while grinding.

Unique patented production process

Completely new production technologies have been developed to manufacture our high-quality flap discs. The adhesion of the flaps to the backing disc is achieved using a patented, revolutionary adhesive system. In contrast to many rival products, the flaps of CS Unitec’s discs are pressed on to the backing disc over their full area – throughout the entire hardening process – to produce a solid, compact and vibration-stable abrasive. This also gives added support to the grits and holds them firmly in their mounting, considerably extending the service life of the grinding discs.

Standard and endurance tests ensure quality and play an essential role in progressive new 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.

Compliant with American and German standards set by ANSI B7.1 and DIN 13743.
Check the speed

The right speed increases the service life of flap discs by up to 100% — a major factor in ensuring a low-cost workflow. Operating flap discs between 5000 and 8000 RPM sets the table for optimal grinding capacity and service life. Powerful, speed-controlled angle grinders such as the VARILEX® WSF 1800 Professional (see page 14) are ideal for working with flap discs.

Recommended speeds for maximum flap disc service life and economy:

- **4" diameter:** 9000 – 11,000 RPM
- **4-1/2" diameter:** 7000 – 9000 RPM
- **5" diameter:** 6000 – 8000 RPM
- **6" diameter:** 5000 – 7000 RPM
- **7" diameter:** 4000 – 6000 RPM

A clear difference

These pictures show the clear difference between a CS Unitec flap disc with hard-pressed flaps (top) and a standard flap disc with fiberglass backing and unpressed flaps (bottom). The poorly pressed disc tends to “chatter” during the grinding process, generating vibrations and resulting in the grit pulling away from the mounting prematurely. This results in irregular grinding, poor grinding capacity, short service life and potential flap tearing.

Grinding & Polishing Discs

**PLANTEX®**
Flap discs for grinding steel and stainless steel, with hemp/polypropylene backing.
*See page 18-20*

**PLANTEX® COOL TOP**
Provides additional cooling to improve grinding performance for stainless steel.
*See page 20*

**PLANTEX® CERAMIC**
Provides increased performance and additional cooling to improve service life on all metals. *See page 21*

**PLANTEX® TIGER SHARK®**
Specially designed for blending aluminum. *See page 22*

**FIX HOOK & LOOP SYSTEM**
Highly flexible backing disc for outstanding finish quality. *See page 23-25*

**POLY-MAGIC-WHEEL**
Ideal for dry polishing stainless steel. *See page 26*

**MAGNUM® FLEECE TOP**
For surface conditioning, fine finishing and polishing. *See page 27*

**MAGNUM® CLEAN**
For pore-deep cleaning of metals. *See page 27*

**REDUCED SPARKING & CUT-OFF DISCS**
EB diamond wheels reduce sparking. *See page 28-29*
PLANTEX®
High-tech Compound

A quantum leap in flap disc technology.

Provides:
✓ Higher Productivity
✓ Lower Cost
✓ Increased Safety

PLANTEX® offers important advances in grinding performance, service life, protection for the environment and personal safety.

The development of the new PLANTEX® high-tech compound has resulted in the production of the first flap discs in the world with a backing plate made of natural hemp, with polypropylene used to bind it. In addition to excellent material abrasion and a long service life, the discs offer maximum operator safety, protection of natural resources and environmental friendliness.

This new composite material (hemp and polypropylene) minimizes pollution from production to waste disposal. Even the polypropylene binding material combusts to approximately 1% carbon when disposed of by thermal methods, producing almost zero residue. Polypropylene is physiologically safe and is used in automotive engineering (interior) and medical technology for common items such as syringes, cannulae and infusion bottles. As a result of its fiber structure, the hemp fiber offers excellent tearing strength values. The superior strength values of this high-tech compound are achieved through a patented new treatment ("impact method") for hemp fibers.

Hemp fiber high-tech compound is an almost ideal base material for flap disc backing plates – it is flexible, heat-absorbent (for low grinding temperatures), very easy to trim, safe to use and easy to dispose of. The cavities of the hemp fiber structure, in conjunction with polypropylene, have a highly insulating, damping and noise-reducing effect, thus enhancing the safety features of the discs.

Safer working conditions
- No fiberglass, no mineral fibers, no epoxy resin
- Easy to trim, safe to use, easy to dispose of

Earth friendly
- Minimizes pollution, from production to disposal
- Hemp plant counteracts greenhouse effect

Competitively priced
- Lower cost of production
- Superior service life; 100% utilization
The high-tech compound material used for the PLANTEX® flap disc is perfectly safe. The backing plate is trimmed automatically during the grinding process or can be trimmed manually using cutting tools. The CO₂ and energy balance are also impressive. During its growth, 1 ton of hemp converts approximately 2 tons of carbon dioxide into oxygen by means of photosynthesis. Hemp therefore plays a beneficial role in counteracting the greenhouse effect.

Grinding down to the last fraction of an inch

The backing plate used on PLANTEX® flap discs reduces in diameter automatically during grinding. It can also be trimmed with cutting tools, a process that is simple and straightforward. The PLANTEX® flap disc can be used down to the last flap of the abrading fabric – and saves you money in the process!

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.

Ordering information for general-use PLANTEX® flap discs, as well as the full line of PLANTEX® products, begins on the next page.
**PLANTEX®**

Flexible flap disc for general use.

The PLANTEX® high-tech compound is becoming the standard flap disc for many companies. The backing plate is made of hemp fiber and can be trimmed completely. High grinding performance is achieved with the extreme flexibility of the backing plate and the 100% RZ-Zirconium abrasive fabric.

**PLANTEX® Ordering Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size (dia. x arbor)</th>
<th>Grit</th>
<th>Maximum Speed</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>93514</td>
<td>4&quot; x 5/8&quot;</td>
<td>40</td>
<td>15,000 RPM</td>
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<tr>
<td>93516</td>
<td>4&quot; x 5/8&quot;</td>
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</tr>
<tr>
<td>93518</td>
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<td>93524</td>
<td>4-1/2&quot; x 7/8&quot;</td>
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<tr>
<td>93529</td>
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**PLANTEX® COOL TOP®**

Flap disc with cool performance for grinding stainless steel.

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

A new abrasive fabric with additional top-size coating improves grinding performance and service life and also provides additional cooling.

**PLANTEX® COOL TOP® Ordering Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size (dia. x arbor)</th>
<th>Grit</th>
<th>Maximum Speed</th>
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<tr>
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<td>40</td>
<td>13,200 RPM</td>
<td>10 pack</td>
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<tr>
<td>93644</td>
<td>7&quot; x 7/8&quot;</td>
<td>40</td>
<td>12,200 RPM</td>
<td>10 pack</td>
</tr>
</tbody>
</table>
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 grinding performance for maximum removal, saves time, extends service life and provides additional cooling. The PLANTEX® high-tech compound is becoming the standard flap disc for many companies. It is fiberglass free and provides excellent performance and service life. PLANTEX® natural fiber hemp backing plate offers flexibility to reduce vibration and increase performance. The PLANTEX® disc’s composition also protects the environment and precious resources.

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 Specifications

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Diameter: 4-1/2&quot; and 5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. speed</td>
<td>13,200 RPM for 4-1/2&quot; diameter</td>
</tr>
<tr>
<td>Ideal speed</td>
<td>5000 to 8000 RPM</td>
</tr>
<tr>
<td>Complies with</td>
<td>ANSI B7.1, 260 ft./sec. DIN EN 13743</td>
</tr>
<tr>
<td>Grits</td>
<td>40, 60, 80</td>
</tr>
<tr>
<td>Arbor size</td>
<td>7/8&quot;</td>
</tr>
</tbody>
</table>

PLANTEX® CERAMIC Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size (dia. x arbor)</th>
<th>Grit</th>
<th>Maximum Speed</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>93550</td>
<td>4-1/2&quot; x 7/8&quot;</td>
<td>40</td>
<td>13,200 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93551</td>
<td>4-1/2&quot; x 7/8&quot;</td>
<td>60</td>
<td>13,200 RPM</td>
<td>10 pack</td>
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<tr>
<td>93552</td>
<td>4-1/2&quot; x 7/8&quot;</td>
<td>80</td>
<td>13,200 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93555</td>
<td>5&quot; x 7/8&quot;</td>
<td>40</td>
<td>12,200 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93556</td>
<td>5&quot; x 7/8&quot;</td>
<td>60</td>
<td>12,200 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93557</td>
<td>5&quot; x 7/8&quot;</td>
<td>80</td>
<td>12,200 RPM</td>
<td>10 pack</td>
</tr>
</tbody>
</table>

Strength & safety with FEM

The backing plate for the PLANTEX® high-tech compound is calculated using the finite element method (FEM). That ensures that it provides the optimal strength and safety properties, while minimizing material use. Like all flap discs from CS Unitec, PLANTEX® flap discs are approved for 260 ft./sec. to DIN EN 13743 and have been approved by the MPA (Material Testing Institute) in Hanover and by the BGIA (Professional Association Institute for Industrial Safety). PLANTEX® additionally complies with ANSI standard B7.1.

Easy Disc Changeover – No Wrenches or Hubs Required!

Grinding discs can be changed in seconds, without tools, using the 5/8"-11 EASY-LOCK SPEED NUT. It is easily tightened by hand and eliminates the need for wrenches or expensive hubs. Part No. 65008-1
**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 make the TIGER SHARK® the first choice for these applications. This flap disc, with its ceramic/corundum cotton abrasive fabric, also offers high grinding capacity and low tool costs for steel and nonferrous metals. The backing plate is flexible PLANTEX® earth-friendly compound and adjusts well to the shape of the workpiece. TIGER SHARK® is ideal for grinding curved surfaces and shapes, and it is often used in car body shops, car workshops and for tool making.

The excellent features of the TIGER SHARK® can be enhanced even further with the newly developed Kangaroo ALU-FIX® OIL. A quick spray on the workpiece will solve many of the problems you may have encountered while grinding aluminum in the past. Loading no longer occurs, the material removal rate is up to 300% higher, the finish is visibly better – and the flap disc will last up to three times longer.

**PLANTEX® TIGER SHARK® Specifications**

| Dimensions | Diameter: 4", 4-1/2", 5", 7" |
| 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**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size (dia. x arbor)</th>
<th>Grit</th>
<th>Maximum Speed</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>93814</td>
<td>4&quot; x 5/8&quot;</td>
<td>40</td>
<td>15,000 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93816</td>
<td>4&quot; x 5/8&quot;</td>
<td>60</td>
<td>15,000 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93818</td>
<td>4&quot; x 5/8&quot;</td>
<td>80</td>
<td>15,000 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93819</td>
<td>4&quot; x 5/8&quot;</td>
<td>120</td>
<td>15,000 RPM</td>
<td>10 pack</td>
</tr>
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<td>40</td>
<td>13,200 RPM</td>
<td>10 pack</td>
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<td>4-1/2&quot; x 7/8&quot;</td>
<td>60</td>
<td>13,200 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93828</td>
<td>4-1/2&quot; x 7/8&quot;</td>
<td>80</td>
<td>13,200 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93829</td>
<td>4-1/2&quot; x 7/8&quot;</td>
<td>120</td>
<td>13,200 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93834</td>
<td>5&quot; x 7/8&quot;</td>
<td>40</td>
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</tr>
<tr>
<td>93836</td>
<td>5&quot; x 7/8&quot;</td>
<td>60</td>
<td>12,200 RPM</td>
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</tr>
<tr>
<td>93838</td>
<td>5&quot; x 7/8&quot;</td>
<td>80</td>
<td>12,200 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93839</td>
<td>5&quot; x 7/8&quot;</td>
<td>120</td>
<td>12,200 RPM</td>
<td>10 pack</td>
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<tr>
<td>93844</td>
<td>7&quot; x 7/8&quot;</td>
<td>40</td>
<td>8600 RPM</td>
<td>10 pack</td>
</tr>
<tr>
<td>93846</td>
<td>7&quot; x 7/8&quot;</td>
<td>60</td>
<td>8600 RPM</td>
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<tr>
<td>93848</td>
<td>7&quot; x 7/8&quot;</td>
<td>80</td>
<td>8600 RPM</td>
<td>10 pack</td>
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<tr>
<td>93849</td>
<td>7&quot; x 7/8&quot;</td>
<td>120</td>
<td>8600 RPM</td>
<td>10 pack</td>
</tr>
</tbody>
</table>

**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

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Visit our Web site at www.csunitec.com
The FIX Hook & Loop system is an essential surface finishing and polishing system for all sheet metal applications.

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

**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 Disc with Centering Pin, without Foam
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 Fleece (Nonwoven) Disc**
Versatile disc for fine surface conditioning and pre-polishing.
Diameter: 4-1/2" and 6"
Grits: coarse, medium, fine, superfine

**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**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Diameter</th>
<th>Grit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>80904</td>
<td>4-1/2&quot;</td>
<td>40</td>
<td>50 pack</td>
</tr>
<tr>
<td>80906</td>
<td>4-1/2&quot;</td>
<td>60</td>
<td>50 pack</td>
</tr>
<tr>
<td>80908</td>
<td>4-1/2&quot;</td>
<td>80</td>
<td>50 pack</td>
</tr>
<tr>
<td>80909</td>
<td>4-1/2&quot;</td>
<td>120</td>
<td>50 pack</td>
</tr>
<tr>
<td>80914</td>
<td>6&quot;</td>
<td>40</td>
<td>50 pack</td>
</tr>
<tr>
<td>80916</td>
<td>6&quot;</td>
<td>60</td>
<td>50 pack</td>
</tr>
<tr>
<td>80918</td>
<td>6&quot;</td>
<td>80</td>
<td>50 pack</td>
</tr>
<tr>
<td>80919</td>
<td>6&quot;</td>
<td>120</td>
<td>50 pack</td>
</tr>
</tbody>
</table>

**FIX TZ Pyramid Disc**
New 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 drastically 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 TZ Pyramid Disc Ordering Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Diameter</th>
<th>Grit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>80932</td>
<td>4-1/2&quot;</td>
<td>A65/320</td>
<td>10 pack</td>
</tr>
<tr>
<td>80940</td>
<td>4-1/2&quot;</td>
<td>A45/400</td>
<td>10 pack</td>
</tr>
<tr>
<td>80960</td>
<td>4-1/2&quot;</td>
<td>A30/600</td>
<td>10 pack</td>
</tr>
<tr>
<td>80970</td>
<td>4-1/2&quot;</td>
<td>A16/1200</td>
<td>10 pack</td>
</tr>
<tr>
<td>80980</td>
<td>4-1/2&quot;</td>
<td>A06/2000</td>
<td>10 pack</td>
</tr>
<tr>
<td>80985</td>
<td>6&quot;</td>
<td>A65/320</td>
<td>10 pack</td>
</tr>
<tr>
<td>80986</td>
<td>6&quot;</td>
<td>A45/400</td>
<td>10 pack</td>
</tr>
<tr>
<td>80987</td>
<td>6&quot;</td>
<td>A30/600</td>
<td>10 pack</td>
</tr>
<tr>
<td>80988</td>
<td>6&quot;</td>
<td>A16/1200</td>
<td>10 pack</td>
</tr>
<tr>
<td>80989</td>
<td>6&quot;</td>
<td>A06/2000</td>
<td>10 pack</td>
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**Grit Equivalents**
A100 = Grit 220
A65 = Grit 320
A45 = Grit 400
A30 = Grit 600
A16 = Grit 1200
A06 = Grit 2000

**FIX Fleece (Nonwoven) Disc**
Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Diameter</th>
<th>Grit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>80615</td>
<td>4-1/2&quot;</td>
<td>coarse (brown)</td>
<td>10 pack</td>
</tr>
<tr>
<td>80616</td>
<td>4-1/2&quot;</td>
<td>medium (red)</td>
<td>10 pack</td>
</tr>
<tr>
<td>80617</td>
<td>4-1/2&quot;</td>
<td>fine (blue)</td>
<td>10 pack</td>
</tr>
<tr>
<td>80618</td>
<td>4-1/2&quot;</td>
<td>superfine (grey)</td>
<td>10 pack</td>
</tr>
<tr>
<td>80650</td>
<td>6&quot;</td>
<td>coarse (brown)</td>
<td>10 pack</td>
</tr>
<tr>
<td>80651</td>
<td>6&quot;</td>
<td>medium (red)</td>
<td>10 pack</td>
</tr>
<tr>
<td>80652</td>
<td>6&quot;</td>
<td>fine (blue)</td>
<td>10 pack</td>
</tr>
<tr>
<td>80653</td>
<td>6&quot;</td>
<td>superfine (grey)</td>
<td>10 pack</td>
</tr>
</tbody>
</table>

**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 new, special needle fleece that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Used 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)

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 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

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

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

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.
Miniature tube, 2 oz. – Part No. 40015T
Can, 2.2 lbs. – Part No. 40015

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

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.
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 made of highly compressed fleece material and are made in a sophisticated production process using compressed single flaps that are strengthened by being impregnated with foam. 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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>6-1/2” dia. x 7/8” arbor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. speed</td>
<td>5000 RPM</td>
</tr>
<tr>
<td>Ideal speed</td>
<td>3000 to 4000 RPM</td>
</tr>
<tr>
<td>Grits</td>
<td>A/80 (red) Initial grinding &amp; leveling welds (P/N 96720, 5 pk.)</td>
</tr>
<tr>
<td></td>
<td>B/900 (gray) Polishing to a perfect mirror finish (P/N 96721, 5 pk.)</td>
</tr>
</tbody>
</table>

Mirror finish in 2 steps:

1. POLY-MAGIC-WHEEL A (80 grit)
2. POLY-MAGIC-WHEEL B (900 grit)

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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 page 27). 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

<table>
<thead>
<tr>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>Ideal speed</td>
<td>2000 to 4500 RPM</td>
</tr>
<tr>
<td>Max. speed</td>
<td>6000 RPM</td>
</tr>
<tr>
<td>Grit</td>
<td>80 (P/N 96705, 5 pk.)</td>
</tr>
</tbody>
</table>
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 eight times the service life of traditional fleece and SC discs. Its range of uses is impressive. The FLEECE TOP is an ideal disc for metalworking that requires fine grinding and pre-polishing to a uniform clean finish, and 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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>4-1/2” dia. x 7/8” arbor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ideal speed</td>
<td>2000 to 4500 RPM</td>
</tr>
<tr>
<td>Max. speed</td>
<td>8000 RPM</td>
</tr>
<tr>
<td>Grits</td>
<td>80 (P/N 96710, 5 pk.)</td>
</tr>
<tr>
<td></td>
<td>180 (P/N 96711, 5 pk.)</td>
</tr>
<tr>
<td></td>
<td>280 (P/N 96712, 5 pk.)</td>
</tr>
<tr>
<td></td>
<td>400 (P/N 96713, 5 pk.)</td>
</tr>
<tr>
<td></td>
<td>600 (P/N 96714, 5 pk.)</td>
</tr>
<tr>
<td></td>
<td>900 (P/N 96715, 5 pk.)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>5” dia. x 7/8” arbor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ideal speed</td>
<td>2000 to 4500 RPM</td>
</tr>
<tr>
<td>Max. speed</td>
<td>5000 RPM</td>
</tr>
<tr>
<td>Grit</td>
<td>Medium (P/N 96700, 5 pk.)</td>
</tr>
</tbody>
</table>
EB diamond grinding discs reduce sparking up to 1/100 of that produced by resinoid grinding wheels (inset left).

Benefits of reduced sparking:
• Workpiece visibility is improved, allowing more accurate grinding
• Reduced fire hazard from sparks

EB diamond grinding discs reduce sparking up to 1/100 of that produced by resinoid grinding wheels (inset left).

REDUCED SPARKING GRINDING DISCS

Designed for grinding steel, stainless steel and other materials in nuclear plants, oil and gas industries and applications where spark reduction is an important feature.

Eco Brazing (EB) diamond grinding discs from CS Unitec reduce sparking to 1% of that produced by resinoid wheels, making EB diamond a better choice than resinoid for use in some hazardous environments.

• Diamond grit protrudes higher off the EB diamond disc than traditional diamond wheels, providing greater durability, longer service life and ease in cutting
• High-tensile steel backing disc reduces plate thickness for a lightweight wheel that allows for high-rotation grinding
• High yield strength makes the steel backing disc flexible, helping to ensure that operators do not grind the material by over-removal
• Reduced sparking increases the visibility of the workpiece
• The EB diamond wheel wears approximately 1% as much as a resinoid wheel, therefore significantly reducing the amount of abrasive dust emitted
• Ideal for grinding steel and stainless steel, as well as natural stone, granite, marble, fiberglass and other materials

EB DIAMOND DISC Specifications

| Dimensions | Diameter: 4”, 7” |
| Max. speed | 13,000 RPM (4”) or 8500 RPM (7”) |
| Ideal speed | 6000 RPM (4”) or 3300 RPM (7”) |
| Grits | 30, 40, 50, 60, 80 |
| Arbor size | 7/8” |

EB DIAMOND DISC Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Size (dia. x arbor)</th>
<th>Grit</th>
<th>Max. Speed</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB4007850</td>
<td>4” x 7/8”</td>
<td>50</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB4007860</td>
<td>4” x 7/8”</td>
<td>60</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB7007850</td>
<td>7” x 7/8”</td>
<td>50</td>
<td>8500 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB7007860</td>
<td>7” x 7/8”</td>
<td>60</td>
<td>8500 RPM</td>
<td>1 disc</td>
</tr>
</tbody>
</table>

Though EB diamond discs have been shown to reduce sparking, we make no claim that sparking will be eliminated. Follow all appropriate safety regulations (ATEX, OSHA, ANSI) for all grinding applications, including those for working in hazardous environments.
REDUCED SPARKING DIAMOND GRINDING AND CUTTING DISCS

- Last 100x longer than ordinary resin bonded wheels
- Reduce sparks, dust and material waste
- Save time changing discs
- Ideal for grinding and cutting steel, stainless steel, aluminum, titanium, fiberglass and more

EB Cut Off Wheels – "Slicer" for cutting metal and more
Eco Brazing (EB) diamond cutting wheels from CS Unitec are designed for cutting steel and stainless steel pipe, tubing, bolts and plate, as well as composites, fiberglass and other materials.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Size (dia. x arbor)</th>
<th>Grit</th>
<th>Max. Speed</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBC4007850C</td>
<td>4&quot; x 7/8&quot;</td>
<td>50</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EBC4507830C</td>
<td>4-1/2&quot; x 7/8&quot;</td>
<td>30</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EBC4507850C</td>
<td>4-1/2&quot; x 7/8&quot;</td>
<td>50</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EBC7007850C</td>
<td>7&quot; x 7/8&quot;</td>
<td>50</td>
<td>8500 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EBC9007850C</td>
<td>9&quot; x 7/8&quot;</td>
<td>50</td>
<td>8500 RPM</td>
<td>1 disc</td>
</tr>
</tbody>
</table>

EB Combination (Grinding – Cutter) Wheels
Eco Brazing (EB) diamond combination metal grinding and cutting wheels from CS Unitec are designed for grinding and cutting steel and stainless steel bolts and plate.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Size (dia. x arbor)</th>
<th>Grit</th>
<th>Max. Speed</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB4007835CM</td>
<td>4&quot; x 7/8&quot;</td>
<td>35</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB4007850CM</td>
<td>4&quot; x 7/8&quot;</td>
<td>50</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB5007850CM</td>
<td>5&quot; x 7/8&quot;</td>
<td>50</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB7007835CM</td>
<td>7&quot; x 7/8&quot;</td>
<td>35</td>
<td>8500 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB7007850CM</td>
<td>7&quot; x 7/8&quot;</td>
<td>50</td>
<td>8500 RPM</td>
<td>1 disc</td>
</tr>
</tbody>
</table>

EB Cluster (Cleaning – Grinding) Wheels
Eco Brazing (EB) diamond cluster wheels from CS Unitec are designed for removing paint, rust and epoxy on metal. Also for high material removal on fiberglass, composites and plastics without loading up like traditional abrasives.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Size (dia. x arbor)</th>
<th>Grit</th>
<th>Max. Speed</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB4007880CLSF</td>
<td>4&quot; x 7/8&quot;</td>
<td>80</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB4507880CLSF</td>
<td>4-1/2&quot; x 7/8&quot;</td>
<td>80</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB5007880CLSF</td>
<td>5&quot; x 7/8&quot;</td>
<td>80</td>
<td>13,000 RPM</td>
<td>1 disc</td>
</tr>
<tr>
<td>EB7007880CLSF</td>
<td>7&quot; x 7/8&quot;</td>
<td>80</td>
<td>8500 RPM</td>
<td>1 disc</td>
</tr>
</tbody>
</table>

Caution: User must follow all appropriate safety regulations when choosing a tool for their particular working environment.

Follow all appropriate safety regulations (ATEX, OSHA, ANSI, etc.) for all grinding applications, including those for working in hazardous environments. Follow all appropriate OSHA and international safety regulations for grinding metal, fiberglass, hard plastics and more.
The PIPE-MAX is a combination grinder and pipe belt sander. The front hard rubber contact roller drives the abrasive belt to grind flat surfaces. It removes weld seams in a straight line, without leaving edges or a wavy finish.

For sanding pipes or handrails, it is a flexible tool. The sanding belt follows every contour to grind and polish up to a high-gloss finish. The belt wraps around the pipe and requires only a few steps to polish the entire circumference. It is ideal for stainless steel, aluminum and high-quality metals.

- For sanding pipes from small to large diameter, up to 14"
- Grinds weld seams on flat surfaces – leaves no edges
- Powerful 15 Amp motor and variable-speed control from 950 to 3500 RPM
- Quick and easy changing of sanding belts
- Ideal for stainless steel and aluminum

PIPE-MAX Accessories

10 belts per package

<table>
<thead>
<tr>
<th>Grit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>38523</td>
</tr>
<tr>
<td>40</td>
<td>38524</td>
</tr>
<tr>
<td>50</td>
<td>38525</td>
</tr>
<tr>
<td>60</td>
<td>38526</td>
</tr>
<tr>
<td>80</td>
<td>38528</td>
</tr>
<tr>
<td>120</td>
<td>38529</td>
</tr>
</tbody>
</table>

Abbrasive Grinding Belts – Ceramic

<table>
<thead>
<tr>
<th>Grit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>38124</td>
</tr>
<tr>
<td>36</td>
<td>38136</td>
</tr>
<tr>
<td>40</td>
<td>38520</td>
</tr>
<tr>
<td>60</td>
<td>38160</td>
</tr>
<tr>
<td>80</td>
<td>38180</td>
</tr>
<tr>
<td>100</td>
<td>38100</td>
</tr>
</tbody>
</table>

TZ Pyramid Belts

<table>
<thead>
<tr>
<th>Grit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A100/220</td>
<td>38544</td>
</tr>
<tr>
<td>A65/320</td>
<td>38545</td>
</tr>
<tr>
<td>A45/400</td>
<td>38546</td>
</tr>
<tr>
<td>A30/600</td>
<td>38547</td>
</tr>
<tr>
<td>A16/1200</td>
<td>38548</td>
</tr>
</tbody>
</table>

Pneumatic Pipe Sander also available. (LBR1506 AIR)
See price list for details.

PIECE-BELT Specifications

<table>
<thead>
<tr>
<th>Part Number: 38502A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt Size (L x W)</td>
</tr>
<tr>
<td>Belt Speed</td>
</tr>
<tr>
<td>Power</td>
</tr>
<tr>
<td>Power ø Max.</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

Standard Equipment

1 PIPE-MAX basic machine, 110V
1 QUICK-LOCK cable, 13 feet
1 additional handgrip
2 PIPE-MAX SC-fleece belts, medium
2 PIPE-MAX SC-fleece belts, fine
3 spare rubber rings
PIEPE-MAX grinding belts, 2 each grits 40, 60, 80 and 120
220 Volt also available. *Note: Exact belt size is 780mm x 40mm.

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

Abrasive Surface Conditioning Fleece Belts

<table>
<thead>
<tr>
<th>Grit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse (brown)</td>
<td>38531</td>
</tr>
<tr>
<td>Medium (red)</td>
<td>38532</td>
</tr>
<tr>
<td>Fine (blue)</td>
<td>38533</td>
</tr>
<tr>
<td>Superfine (grey)</td>
<td>38534</td>
</tr>
</tbody>
</table>

SuperPolish Belt

Part No. 38850
BOA PIPE SANDER

Electric or Pneumatic

All-around polishing solution for handrails, pipe and tubing.

The LRP 1503 BOA Pipe Sander is the perfect solution for sanding and polishing pipe constructions. The sanding arm snakes up to 270° around the radius of the pipe. The operator simply rotates the BOA slightly to achieve a full 360° finish. Spring resistance between the deflection rollers ensures that the sanding arm and belt are always uniformly tensioned. The BOA saves time finishing stainless steel and other ferrous and nonferrous pipe.

- Variable-speed control; 12 to 40 ft./sec. belt speed
- Maximum pipe Ø: 5" diameter
- Quick, tool-free replacement of sanding belt
- High-quality 270° sanding arm is made of light alloy with two deflection rollers for quick progress, perfect finish and simple operation
- Additional side handle can be rotated 180° in narrow spaces

### Electric BOA Pipe Sander

<table>
<thead>
<tr>
<th>Part Number: LRP 1503 VRA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
</tr>
<tr>
<td><strong>Belt Speed</strong></td>
</tr>
<tr>
<td><strong>Belt Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
</tbody>
</table>

### Pneumatic BOA Pipe Sander

<table>
<thead>
<tr>
<th>Part Number: LRP 1503 AIR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
</tr>
<tr>
<td><strong>Belt Speed</strong></td>
</tr>
<tr>
<td><strong>Air Consumption</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
</tbody>
</table>

### Standard Equipment

- 1 carrying case with padding
- 1 abrasive grinding belt, grit 80, 30" x 1-1/2"
- 1 abrasive grinding belt, grit 120, 30" x 3/4"
- 1 abrasive grinding belt, grit 220, 30" x 3/4"
- 1 surface conditioning fleece, fine, 30" x 1-1/2"
- 1 surface conditioning fleece, medium, 30" x 1-1/2"
- 1 super polish belt, grit 600, 30" x 1-1/2"
- 1 super polish belt, grit 1500, 30" x 1-1/2"

* Note: Exact belt size is 760mm x 40mm or 20mm

### Abrasive grinding belt (10/pkg.)

<table>
<thead>
<tr>
<th>Size</th>
<th>Grit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>24</td>
<td>326 706</td>
</tr>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>36</td>
<td>326 712</td>
</tr>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>60</td>
<td>326 723</td>
</tr>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>80</td>
<td>326 739</td>
</tr>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>120</td>
<td>326 755</td>
</tr>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>220</td>
<td>326 771</td>
</tr>
<tr>
<td>30&quot; x 3/4&quot;</td>
<td>120</td>
<td>326 801</td>
</tr>
<tr>
<td>30&quot; x 3/4&quot;</td>
<td>220</td>
<td>326 836</td>
</tr>
</tbody>
</table>

### Surface conditioning fleece belt (3/pkg.)

<table>
<thead>
<tr>
<th>Size</th>
<th>Grit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>Coarse (brown)</td>
<td>326 895</td>
</tr>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>Medium (red)</td>
<td>326 879</td>
</tr>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>Fine (blue)</td>
<td>326 852</td>
</tr>
</tbody>
</table>

### Sanding-Polishing Belt (1/pkg.)

For high-gloss polishing, without polishing agents, in two steps

<table>
<thead>
<tr>
<th>Size</th>
<th>Grit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>600</td>
<td>326 917</td>
</tr>
<tr>
<td>30&quot; x 1-1/2&quot;</td>
<td>1500</td>
<td>326 933</td>
</tr>
</tbody>
</table>
FINGER BELT SANDER Variable Speed

Ideal for angles and tight spaces, as well as pipes and curves. The swivel-mounted arm, with 140° flexibility, reaches into corners, grooves and folds.

The LBS 1105 VE finger belt sander saves time grinding in confined and difficult areas. It uses belt sizes 3/16" to 1-1/8" wide by 21" long. The sanding arm rotates up to 140° for reaching into corners, grooves and folds, including pipes and curves.

The finger sander is ideal for grinding, blending, polishing and deburring ferrous and nonferrous metal. It also works on wood, plastic, fiberglass and other material. Speed is adjustable from 13 to 39 ft./sec.

---

Optional Equipment

- (1) 3/8" sanding arm (curved) – Part No. 256 532
- (1) 1-1/8" sanding arm (large roller) – Part No. 258 888

---

Finger Belt Sander Accessories

<table>
<thead>
<tr>
<th>Abrasive Sanding Belt  (10/pkg.)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Grit</td>
</tr>
<tr>
<td>3/16&quot;</td>
<td>60</td>
</tr>
<tr>
<td>3/16&quot;</td>
<td>120</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>40</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>60</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>120</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>220</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>60</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>120</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>220</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Surface conditioning fleece belt</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Grit</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>Medium (red)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>Fine (blue)</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>Medium (red)</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>Fine (blue)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SuperPolish Belt  (1/pkg.)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Grit</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>600</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>1500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Finger Belt Sander Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No. LBS 1105 VE</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>6.1 Amp</td>
</tr>
<tr>
<td>Belt Speed</td>
<td>13 to 39 ft./sec.</td>
</tr>
<tr>
<td>Weight</td>
<td>5.5 lbs.</td>
</tr>
</tbody>
</table>

Standard Equipment

- (1) 3/8" sanding arm (pointed) – Part No. 256 525
- (1) abrasive belt kit, grits 40/120/220 – 1 set
- (1) side handle – Part No. 194 034
- (1) hexagon socket screw key – Part No. 115 460

Standard equipment includes a metal carrying case.
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

The Gladius® 1800 uses the same abrasive belts as the PIPE-MAX. See page 30 for more information.

Gladius® 1800 Specifications

<table>
<thead>
<tr>
<th>Part No. 38651A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt Size (LxW)</td>
</tr>
<tr>
<td>Power</td>
</tr>
<tr>
<td>Speed</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

* Note: Exact belt size is 780mm x 40mm

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

Visit our Web site at www.csunitec.com
Angle Grinders / Sanders with Dust Extraction

**L 1506 VV** 4” and 4-1/2”, Electric
Extremely powerful 11 Amp angle grinder and sander with variable-speed electronic motor. Vacuum port: 1-1/4". Ideal for use with our CS 1445 H or CS 1225 Dust Extraction Vacuum (see page 35).

**L 1506 VV AIR** 4” and 4-1/2”, Pneumatic
Extremely powerful 1 HP angle grinder and sander with 1 HP pneumatic motor. Vacuum port: 1-1/4". Ideal for use with our CS 1445 H or CS 1225 Dust Extraction Vacuum (see page 35).

Vacuum Port: 1-1/4"

### L 1506 VV Specifications

<table>
<thead>
<tr>
<th>Part Number:</th>
<th>L 1506 VV</th>
<th>L 1506 VV AIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>11 Amp</td>
<td>1 HP</td>
</tr>
<tr>
<td>Speed</td>
<td>2200-6800 RPM</td>
<td>6000 RPM</td>
</tr>
<tr>
<td>Max. Diameter</td>
<td>4-1/2&quot;</td>
<td>4-1/2&quot;</td>
</tr>
<tr>
<td>Spindle Thread</td>
<td>5/8&quot;-11 UNC</td>
<td>5/8&quot;-11 UNC</td>
</tr>
<tr>
<td>Weight</td>
<td>4 lbs.</td>
<td>4 lbs.</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>–</td>
<td>33 CFM @ 90 PSI</td>
</tr>
<tr>
<td>Air Connection</td>
<td>–</td>
<td>1-1/4&quot;</td>
</tr>
</tbody>
</table>

---

**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.
Dust Collection Vacuums with HEPA Filtration

CS Unitec’s dust extraction vacuums offer strong 130 CFM air flow and an electromagnetic pulse filter cleaning system to maximize vacuum power and dust collection.

- Ideal for use with power tools
- 99.995% HEPA filtration efficiency of particles down to 0.3 microns; automatic filter cleaning
- "Power Take Off" outlet activates the vacuum ON/OFF from the power tool switch
- Non-HEPA models available, 99.900% filtration efficiency
- Kit available to connect two power tools (P/N 198804)

Activate vacuum on/off from power tool controls

Model CS 1445 H automatically "pulse" cleans filters without interrupting operation!

HEPA Vacuum Specifications

<table>
<thead>
<tr>
<th></th>
<th>CS 1225 H</th>
<th>CS 1445 H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>11 Amp</td>
<td>11 Amp</td>
</tr>
<tr>
<td>Air flow</td>
<td>130 CFM</td>
<td>130 CFM</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>6.6 gal.</td>
<td>9 gal.</td>
</tr>
<tr>
<td>Weight</td>
<td>24.3 lbs.</td>
<td>24.3 lbs.</td>
</tr>
<tr>
<td>Filter P/N (2pk.)</td>
<td>428956</td>
<td>428956</td>
</tr>
</tbody>
</table>

Optional Filter Bags
Paper filter bags for CS 1225 and CS 1445 P/N 435305 (5-pack)
Plastic filter bags for CS 1225 and CS 1445 P/N 421742 (5-pack)

Standard Vacuum Specifications

<table>
<thead>
<tr>
<th></th>
<th>CS 1225</th>
<th>CS 1445</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>11 Amp</td>
<td>11 Amp</td>
</tr>
<tr>
<td>Air flow</td>
<td>130 CFM</td>
<td>130 CFM</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>6.6 gal.</td>
<td>9 gal.</td>
</tr>
<tr>
<td>Weight</td>
<td>24.3 lbs.</td>
<td>24.3 lbs.</td>
</tr>
<tr>
<td>Filter P/N (2pk.)</td>
<td>416069</td>
<td>416069</td>
</tr>
</tbody>
</table>

We make no claim that use of a vacuum will eliminate contaminants. Wear an approved respirator mask and follow all appropriate OSHA safety regulations for proper ventilation, dust handling, eye protection, etc. when using a dust extraction grinder and vacuum.

Visit our Web site at www.csunitec.com
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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>3-Phase Motor</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>220V 3-phase / 2 speeds</td>
<td>19.7&quot; x 12.8&quot; x 7.9&quot;</td>
<td>64 lbs.</td>
</tr>
<tr>
<td></td>
<td>380V 3-phase / 2 speeds</td>
<td>.2 KW / .9 Amp</td>
<td></td>
</tr>
</tbody>
</table>

### ROLEI® BE 5 Flap Wheels

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>37040</td>
<td>40</td>
<td>2 discs per pack</td>
</tr>
<tr>
<td>37060</td>
<td>60</td>
<td>2 discs per pack</td>
</tr>
<tr>
<td>37080</td>
<td>80</td>
<td>2 discs per pack</td>
</tr>
<tr>
<td>37120</td>
<td>120</td>
<td>2 discs per pack</td>
</tr>
</tbody>
</table>

### Additional Accessories
- **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

---

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

Deburring on both sides of the sheet edges

Sheet with burr after cutting

Spare flap wheels for sheet metal deburring machine BE 5
Gr 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

Visit our Web site at www.csunitec.com
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

<table>
<thead>
<tr>
<th>Part Number:</th>
<th>30116</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal Motor</td>
<td>15 Amp (1710 W) 110V / 60 Hz (230V / 50 Hz, 1600 W also available)</td>
</tr>
<tr>
<td>Speed</td>
<td>Infinitely adjustable from 2,000 to 7,600 RPM</td>
</tr>
<tr>
<td>Weight</td>
<td>9 lbs.</td>
</tr>
<tr>
<td>Options</td>
<td>Sliding guide rail, plastic (Part No. 30117, 2-piece set)</td>
</tr>
</tbody>
</table>

ROLEI® EF 115 Flap Discs

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>21050A</td>
<td>50</td>
<td>10 discs per pack</td>
</tr>
<tr>
<td>21060A</td>
<td>60</td>
<td>10 discs per pack</td>
</tr>
<tr>
<td>21080A</td>
<td>80</td>
<td>10 discs per pack</td>
</tr>
<tr>
<td>21120A</td>
<td>120</td>
<td>10 discs per pack</td>
</tr>
</tbody>
</table>

QUICK-LOCK cable for fast, easy replacement, e.g. if the cable is damaged. 13 ft., included. Part No. 52004-2
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
Beveling and deburring machine for facets at an angle of 45°.

ROLEI® EF 165 Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Motor</th>
<th>Dimensions</th>
<th>Support Table</th>
<th>Weight</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>30101 (220 Volt)</td>
<td>220V single-phase or 380V, 3-phase</td>
<td>14&quot; x 13&quot; x 12”</td>
<td>5” x 13”</td>
<td>40 lbs.</td>
<td>Table extension, machine stand, extraction port for dust extractor connection</td>
</tr>
<tr>
<td>30100 (380 Volt)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Supplied as standard with 80 grit disc. Other grits can also be used to suit the face 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

Parts are bevelled 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°

**ROLEI® PEF 500 Specifications**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>30201 (220 Volt)</th>
<th>30200 (380 Volt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>220V single-phase or 380V, 3-phase</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>20&quot; x 14&quot; x 14&quot;</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>88 lbs.</td>
<td></td>
</tr>
<tr>
<td>Options</td>
<td>Machine stand, extraction port for dust extractor connection</td>
<td></td>
</tr>
</tbody>
</table>

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

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

The EKF multipurpose beveling machine is designed to bevel 30° or 45° weld seams on steel, stainless steel, nonferrous metals, brass and plastics. It can also be used to deburr and chamfer; straighten edges, internal and external radii; and countersink holes from 7/8” diameter.

- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Three milling head options – 30°, 45° and 2.5mm
- Ideal for the following applications: Moldmaking (straighten edges, internal and external radii and countersink holes from 7/8” dia.);
  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)

One Machine, Three Milling Options

<table>
<thead>
<tr>
<th>Beveling angle</th>
<th>EKF 300.3</th>
<th>EKF 450.3</th>
<th>EKF 452.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>30°</td>
<td>30°</td>
<td>45°</td>
<td>2.5mm</td>
</tr>
<tr>
<td>Bevel width (max.)</td>
<td>1/4”</td>
<td>1/4”</td>
<td>1/4”</td>
</tr>
<tr>
<td>Motor power/Voltage</td>
<td>13.5 Amp / 110V</td>
<td>(220 V / 50 Hz also available)</td>
<td></td>
</tr>
<tr>
<td>Cutting speed</td>
<td>3000 SFPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutting inserts</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>12-1/2” x 5-1/2” x 11-5/8”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>10.5 lbs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* EKF milling heads are interchangeable.
** Max. bevel width may require several passes, depending on material hardness.
SKF 025

PORTABLE BEVELING MACHINES

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.

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

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

Portable Beveler Specifications

<table>
<thead>
<tr>
<th>Part Number: SKF 025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beveling angle</td>
</tr>
<tr>
<td>Bevel width (max.)**</td>
</tr>
<tr>
<td>Motor power</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Cutting speed</td>
</tr>
<tr>
<td>Cutting inserts</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

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

Automatic Edge Processing Machine Specifications

<table>
<thead>
<tr>
<th>Part Number: AutoCUT 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beveling angle</td>
</tr>
<tr>
<td>Bevel width (max.)**</td>
</tr>
<tr>
<td>Motor power</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Cutting speed</td>
</tr>
<tr>
<td>Cutting inserts</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

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

Visit our Web site at www.csunitec.com
Surface Preparation Equipment

**Electric and air power for the preparation of concrete, steel and stone.**

CS Unitec now offers even more innovative electric and pneumatic equipment for the preparation of steel, concrete and stone. These tools are ideal for industries, including: construction, floor preparation, utilities, marine & offshore, oil & gas, and nuclear decommissioning/remediation, as well as restoration, refurbishment and demolition. 

*Contact us for more information about our new line of surface preparation equipment.*

**Hand-held ScaleForce Scaling Hammers and Deck Hammers**

*Up to 33,000 blows per minute*

Ideal for breaking down the hardest of coatings prior to abrasive blast cleaning, reducing cost of blast media and increasing surface preparation productivity. Widely used in the marine industry for removing rust, scale and paint from ship decks, as well as to descale tanks, bridge decks and floating platforms. Low vibration for operator comfort. Options include spark-resistant replacement heads for use in potentially hazardous environments and vacuum shroud to reduce dust.

**Peening Preparation Tools – Hand-held Scarifiers**

*Clean, economical alternative to small-area shot blasting*

The PPT line of hand-held scarifiers use 3M™ Heavy-duty Rotopeen™ captive shot flaps or steel cutters for surface preparation. These units are ideal for the removal of alkyds, mastics, adhesives and coatings corrosion from a range of steel and concrete substrates. When part of a dust collection system, these tools more safely remove hazardous materials such as lead-based paints and contaminated particles quickly and cleanly.

**Floor Scarifiers – Gas, Electric and Pneumatic**

*Remove rust, scale, paint, adhesives and more from steel and concrete*

CS Unitec's Trelawny™ Floor Scarifiers tackle the most demanding surface preparation and material removal applications. Ideal for the removal of coatings and corrosion from steel and concrete surfaces to prepare for re-coating. Produce an ideal keyed or grooved profile on concrete for waterproofing and non-slip surface applications. Available with 8” and 10” cutting widths.

**Needle/Chisel Scalers**

*Trelawny™ original Vibro-Lo™ low-vibration scalers*

Lightweight, easy-to-handle pneumatic units provide up to 3000 blows per minute to remove coatings, corrosion and other accumulated materials. Ideal for all surfaces, especially irregular surfaces that are otherwise difficult to prepare. Also used for chipping, weld dressing and brick/stone cleaning. Optional in-line dust control systems to maintain worksite/environment cleanliness.
Portable Magnetic Drills

Fast, accurate hole cutting... on the job site or in the shop!

CS Unitec’s portable magnetic drills are ideal for drilling structural steel and virtually any metal. We offer a compact, powerful and reliable range of portable magnetic drills for holes up to 5-1/8" diameter.

**Cut up to 5-1/8" • Twist Drill up to 1-3/4" • Tap up to 1-5/8"**

Unique features of CS Unitec’s portable magnetic drill line:

- Variable-speed, multiple-geared models
- Reversible motors for tapping and machining
- Swivel base stand for hard-to-reach areas
- Manual or automatic feed
- Lightweight – from 24 lbs.

**MAB 1300**
- Ø 5-1/8" cutter capacity
- Ø 1-3/4" twist drill capacity
- Ø 1-5/8" tapping capacity
- Reversible, 4-gear motor

The ultimate in power

**AutoMAB 350**
- Ø 1-1/2" cutter capacity
- Automatic feed, reverse and shut-off

**MABasic 200**
- Ø 1-3/8" cutter capacity
- Ø 1/2" twist drill capacity

Annular Cutters available for burr-free finished holes, without predrilling or step drilling

Dry Cutting Saws – Pneumatic

Fast, portable, burr-free cutting of metal plates, pipes, profiles and more... without coolant

Air power – ideal for petrochemical, marine, demolition and fabrication industries

**Model 5 1117 0020**
- Blade dia. – 12-5/8"
- Max. DOC – 4-3/4"

**Model 5 1115 0020**
- Blade dia. – 9"
- Max. DOC – 3-1/4" at 90°

For more information, visit our website at www.csunitec.com/saws/dry-cutting-circular-saws

Blades and Guide Rails available to meet your application needs.
CS Unitec, Inc. specializes in industrial power tools and safety tools for construction and industry. Innovation and high quality are synonymous with CS Unitec's power tools. In 1991, the company invented the first pneumatic portable band saw. CS Unitec has added to its list of industry firsts with the widest range of portable magnetic drills and hand-held concrete core drills. The line also includes surface preparation tools for metal, concrete and masonry, air, electric and hydraulic portable band saws, reciprocating saws, hacksaws, nut runners, rotary hammer drills, rolling motors, non-sparking safety tools, portable mixers and dust extraction vacuum systems.

For tool specifications and ATEX and Ex Zone information, visit www.csunitec.com.

Call 1-800-700-5919 or 203-853-9522 to request any of the catalogs shown below.