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” or 4-1/8”
- **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, 180

**HOLLOW-CORE ABRASIVES HAVE MANY ADVANTAGES:**
- Easy to mount – simply slide on and off
- 100% concentricity – no vibration
- Lower cost and higher productivity!

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

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**PTX CLEAN Wheels**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>47511</td>
<td>Medium (black)</td>
<td>4” dia. x 4” wide</td>
</tr>
<tr>
<td>40018A*</td>
<td>Medium (black)</td>
<td>4” dia. x 2” wide</td>
</tr>
</tbody>
</table>

**PTX GUM Wheels**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 525-4”</td>
<td>60 grit</td>
<td>4” dia. x 4” wide</td>
</tr>
<tr>
<td>45181*</td>
<td>180 grit</td>
<td>4” dia. x 4” wide</td>
</tr>
<tr>
<td>45180*</td>
<td>180 grit</td>
<td>4” dia. x 2” wide</td>
</tr>
</tbody>
</table>

* Keyed Shaft
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

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

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

TIPS & TRICKS
Expansion Roller – Hard Rubber
Internal expansion slots now allow easier sleeve replacement and improved adjustment to the workpiece, as well as vibration absorption and concentricity.
Part Number: 47005

Belt Sleeves for Expansion Roller

PTX Zirconium Grinding Belt Sleeves

<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>

PTX Ceramic Grinding Belt Sleeves

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Size (dia. x width)</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>42440</td>
<td>40 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42460</td>
<td>60 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
</tr>
<tr>
<td>42480</td>
<td>80 grit</td>
<td>3-1/2&quot; x 4&quot;</td>
<td>10 per pack</td>
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</table>

PTX TZ Pyramid Sleeves

<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>

TZ PYRAMID GRIT COMPARISON TABLE

<table>
<thead>
<tr>
<th>Corresponds to grit size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A65</td>
</tr>
<tr>
<td>A45</td>
</tr>
<tr>
<td>A30</td>
</tr>
<tr>
<td>A16</td>
</tr>
<tr>
<td>A06</td>
</tr>
<tr>
<td>320</td>
</tr>
<tr>
<td>400</td>
</tr>
<tr>
<td>600</td>
</tr>
<tr>
<td>1200</td>
</tr>
<tr>
<td>2000</td>
</tr>
</tbody>
</table>

PTX Fleece "Nonwoven" Sleeves

<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>

FLEECE COMPARISON TABLE

<table>
<thead>
<tr>
<th>Corresponds to grit size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse (brown)</td>
</tr>
<tr>
<td>Medium (red)</td>
</tr>
<tr>
<td>Fine (blue)</td>
</tr>
<tr>
<td>Superfine (grey)</td>
</tr>
<tr>
<td>80</td>
</tr>
<tr>
<td>180</td>
</tr>
<tr>
<td>280</td>
</tr>
<tr>
<td>400</td>
</tr>
</tbody>
</table>

TIPS & TRICKS

To remove the grinding sleeve, place the expansion roller on a round object that is slightly smaller than the roller. Then push the sleeve down slightly using both hands.
Special Brushes for Metals, Wood and Hard Plastics

PTX Stranded Wire Wheels
Sturdy steel wire brush. For deburring, rust removal, roughing and cleaning metal. For brushing out soft annual rings on timber, leaving a rough rustic effect.
4" dia. x 2-7/8" wide – Part No. 46301*
4" dia. x 1" wide – Part No. 47702*
* Requires spacer ring 40007

PTX 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

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.

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. 42013

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  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

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

4" dia. x 2" wide
Part No. CS2405*
4" dia. x 4" wide
Part No. CS2410
4" dia. x 6" wide
Part No. CS2420
* Requires spacer ring 40007

Stranded wire wheel for creating a rustic effect on wood

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

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

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

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 Roller with stainless steel flanges
For grinding, fleece, SuperPolish and felt belts. The belt roller is made of wear-resistant soft Vulculan with stainless steel discs on the sides. The surface is grooved to ensure that the abrasive belt does not slip. Diameter: 3.5" x 2.8"  Part No. 470006

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

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

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 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
Grit: coarse (brown) 1.2" x 24"  Part No. 49001
Grit: medium (red) 1.2" x 24"  Part No. 49002
Grit: fine (blue) 1.2" x 24"  Part No. 49003
Grit: superfine (grey) 1.2" x 26"  Part No. 49007

PTX Grinding Belts (Aluminum Oxide)
Grit: 40 grit 1.2" x 24"  Part No. 49040
Grit: 60 grit 1.2" x 24"  Part No. 49060
Grit: 80 grit 1.2" x 24"  Part No. 49080
Grit: 120 grit 1.2" x 24"  Part No. 49120
Grit: 150 grit 1.2" x 24"  Part No. 49150
Grit: 180 grit 1.2" x 24"  Part No. 49180
Grit: 240 grit 1.2" x 24"  Part No. 49240

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.

Dimensions: 1.2" x 24"  Part No. 49004

PTX Fleece Nonwoven Belts (open) *
PTX Miter Tape
Protect adjacent finishes when grinding. Self-adhering 304 Stainless tape for use when creating distinct edges on finishes. Excellent for creating mitered corners. Quick application and residue-free removal. Minimal thickness for accurate grinding lines. Easily cut with scissors.

Dimensions: One roll measures 6" x 8.2 ft.  Part No. 40070

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. 40004

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°).