Xaloy® DuraShell™ Chill Rolls

We conduct a thorough engineering analysis of your sheet extrusion process to ensure that our rolls meet or exceed your requirements for heat transfer, mechanical strength and consistently high performance commonly required in sheet extrusion processes.

Xaloy DuraShell™ chill rolls are backed by the proven performance of the Keystone and F.R. Cross® roll brands. Nordson has what it takes to meet your needs for new chill rolls and reconditioning or modification of your existing units.

Features and Benefits

Built to perform
- Shrink fit double shell spiral design provides uniform temperature control: ±0.5°C (±1°F)
- Consistent performance under loads up to 2100 N/cm, higher if your process requires
- High precision: TIR (total indicator runout) of 13 μm standard
- Our large in house CNC machining capability offers many diameter and face length combination to meet your requirements

Built to last
- Low-carbon steel tubing, hardsurfaced, overlaid with 420 stainless steel to 52 Rc
- More resistance to worm tracking than carburized and flame-hardened shells
- Lower reconditioning costs

Service Offering

Quality Assurance
- Complete design engineering, manufacturing, hard chrome plating and finishing
- Hard chrome plating
  - 63-65 Rc hardness
- Vertical stress relief
  - 42” (1065mm) dia. and
  - 210” (5330mm) lengths
- Dynamic balancing
  - In accordance with ISO 1940/1
Xaloy® DuraShell™ Chill Rolls

Roll Repair and Refinishing Services

Complete repair/remanufacturing services of Xaloy chill rolls for sheet, film paper coating and heat transfer applications.

Regular maintenance and/or modified finish requirements are our specialty. Combine with total in-house chrome plating and finishing equipment, Nordson offers committed customer service and accurate delivery quotations with every request.

<table>
<thead>
<tr>
<th>Finish Options, Ra —µ in (µm)</th>
<th>Flawless Super</th>
<th>Bright Mirror</th>
<th>Standard Mirror</th>
<th>Polish Finish</th>
<th>Satin Finish</th>
<th>Coarse Matte</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;1” (&gt;.025)</td>
<td>1” - 2”</td>
<td>2” - 4”</td>
<td>6” - 32”</td>
<td>Variable</td>
<td>125” - 150”</td>
<td>(Variable)</td>
</tr>
<tr>
<td></td>
<td>(.025 - .050)</td>
<td>(.05 - .10)</td>
<td>(.15 - .81)</td>
<td>(Variable)</td>
<td>(3.18 - 3.81)</td>
<td></td>
</tr>
</tbody>
</table>

Specialty finishes: water retention, flash plating over matte, pocket release, 30-50% gloss, tungsten carbide coating.

Our precision finishing facility enables us to provide 0.0005” (13 mm) TIR on every order regardless of size or weight.

For finishing, we offer optical mirror “superfinish” to coarse matte applied after chrome plating.

Our capabilities include:
- 42” (1065 mm) diameter and 210” (5330 mm) lengths
- Acid flush and flow testing
- Journal and body repairs
- Repolish existing chrome

Plus specialty industry finishes:
- Water retention
- Flash plating over matte
- Pocket release
- 30-50% gloss
- Tungsten carbide coating

Final process in which repaired roll is receiving a standard mirror finish.