

# 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.



## Built to perform

- Uniform temperature across the roll face:  $\pm 1.1^{\circ}\text{C}$  ( $\pm 2^{\circ}\text{F}$ ).
- Consistent performance under loads up to 2100 N/cm (1200 lb/in), higher if your process requires
- High precision: TIR (total indicator runout) of 13  $\mu\text{m}$  (0.0005 in) standard.
- Size: Diameter up to 122 cm (48 in) and length up to 7620 mm (300 in) available.

## Built to last

- Low-carbon steel tubing, hard-surfaced, overlaid with 420 stainless steel (50-52 Rc).
- More resistance to worm tracking than carburized and flame-hardened shells.
- Lower reconditioning costs.

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



## Quality Assurance

- Complete Design Engineering, Manufacturing, Hard Chrome Plating and Finishing
  - Control of the processes enables Xaloy to ensure your delivery will be met
- Hard Chrome Plating
  - 63-65 Rc hardness
- Vertical Stress Relief
  - 48" (1220 mm) dia. x 24ft (7320 mm) length.
- Dynamic Balancing
  - In accordance with ISO 1940/1

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

**XALOY**

every pellet knows our name™

### EXTRUSION

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Hickory, NC 28601  
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Toll-free: 800-457-7550  
Fax: 828-326-8882

### INJECTION

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## Roll Repair and Refinishing Services

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



Complete repair/remanufacturing services of 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, Xaloy offers committed customer service and accurate delivery quotations with every request.

### Our capabilities include:

- 42" (1065 mm) diameter and 350" (8890 mm) lengths
- Acid flush and flow testing
- Journal and body repairs
- Repolish existing chrome

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

### Finish Options, Ra – μ in (μm)

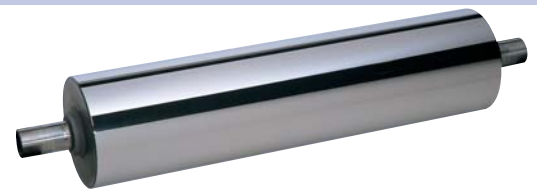
Flawless Super	Bright Mirror	Standard Mirror	Polish Finish	Satin Finish	Coarse Matte
>1" (>.025)	1" – 2" (.025 – .050)	2" – 4" (.05 – .10)	6" – 32" (.15 – .81)	Variable (Variable)	125" – 150" (3.18 – 3.81)

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

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

### Plus specialty industry finishes:

- Water retention
- Flash plating over matte
- Pocket release
- 30-50% gloss
- Tungsten carbide coating



*Our worldwide presence includes sales and service offices located in the United States, Europe, Thailand, Japan, China and India and a global network of agents geographically positioned to serve customers throughout the world.*

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