American Roller Company DuraShell™ Chill Rolls have 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, hard surfaced, 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
Roll Repair and Refinishing Services

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

### Finish Options, Ra –μ in (μm)

<table>
<thead>
<tr>
<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>&lt;1” (.025)</td>
<td>1” - 2” (.025 - .050)</td>
<td>2” - 4” (.05 - .10)</td>
<td>6” - 32” (.15 - .81)</td>
<td>Variable (Variable)</td>
<td>125” - 150” (3.18 - 3.81)</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.