



Cylindrical Grinding, Chrome Plating & OD Finishing

The Only Industrial Roller Source You'll Ever Need

Since 1966, Menges Roller has been dedicated to fabricating, refurbishing and maintaining industrial rollers used in the manufacturing and processing of a wide variety of products. Our customers are primarily in the plastic, paper and steel converting industries, and we provide specialized products and services to each sector.

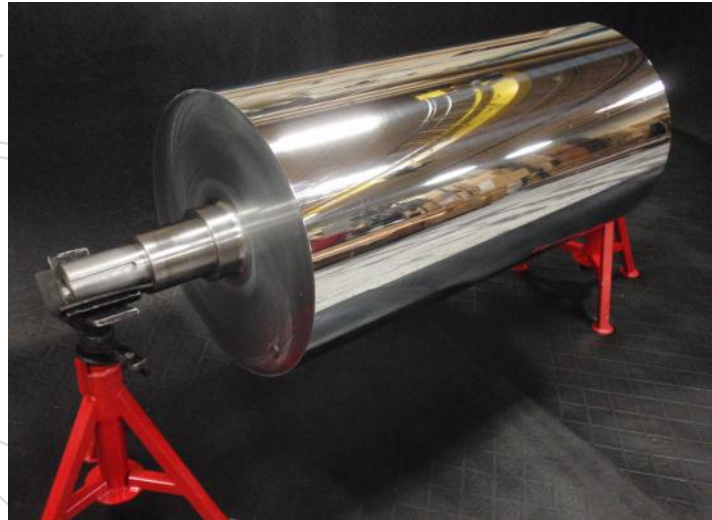
Here you'll find an overview of our services relating to finishing & refinishing the roller face. Its measurements, material choice and finish are critical - simply because the face is the area in contact with your finished product.

Menges Roller's primary offerings in this field include:

- Chrome Plating
- Precision Cylindrical Grinding
- Outside Diameter Modification

Rest assured that, no matter what service you require, the Menges Team will deliver outstanding support with:

- Quick Turnaround of Quotes
- Expedited Service for Critical Jobs
- Pickup & Delivery via In-House Trucking Service



This chill roll - used in a plastic sheet extrusion process - was fabricated by Menges and chromed to a mirror optical finish.

Chrome Plating & Mirror Finishes

Menges offers chrome plating for new rollers or as a repair service for existing rolls. For rolls with worn chrome, our re-chroming service follows these basic steps:

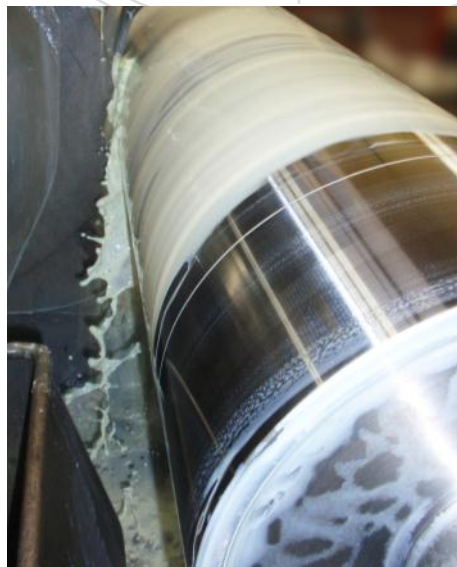
- Old chrome is removed via a precision cylindrical grinding process
- The rollface is fine-ground as needed, in preparation for plating
- The roll undergoes the prescribed chroming process
- The roll is finished-ground for tolerance compliance
- The rollface is polished to the specified Ra value, including mirror finishes

Other Available Finishes Include:

- Super Finished Chrome (0-1 Ra)
- Grit / Shot-Blasted
- Tempered & Case-Hardened
- Thermal Sprayed Applications



The above roll is being cylindrically ground and will be re-plated in chrome.



The roll to the right has been chromed and is undergoing the polishing process.



Here a Menges Engineer inspects a recently chrome plated heat transfer roll. Using a special tool, he is measuring the thickness of the mirror-finish chrome.

Flawless chrome can be very important, especially in situations where the substrate material is soft (hot plastics for example). A rollface's worn chrome can cause contacted plastic materials to lose glossiness, resulting in a cloudy or imperfect gloss finish.

Precision Cylindrical Grinding Services:

Today's rollers - especially those in the steel & coil processing industries - encounter tremendous pressures and loads, often accompanied by metal-on-metal abrasion or exposure to harsh chemicals.

This takes a toll, resulting in out-of-round cores, bent journals and damaged rollfaces - all of which effects the quality of a plant's product. Coil processors see 'waves' in their stock. Rollface scratches are transferred to finished products, and so on.

But with Menges Roller's Cylindrical Grinding services, your rolls are brought back to like-new OEM specifications.

- Rolls are 'trued-up' so they run smooth, even and flat; this removes rotational wobble and prevents waving effects
- Very specific diameter adjustments can be achieved - to within one-tenth of one-thousandth of an inch
- Rollface surfaces can be finely ground or polished to achieve specific Ra values or textures



This serrated roll needed a very exact diameter & low TIR. Here we see it at the preliminary grinding stage.



These work rolls, for a coil converter, have been precision ground and are ready to return to service as part of a flattening operation.

Outside Diameter Modification

Diameter modification can be an important service, especially in cases where you're refurbishing a worn roll or repurposing an existing roll for a new application. Menges Roller has the machinery and technical expertise to handle all your diameter modification needs.

A lathe is employed to cut down the bulk of the material, achieving a diameter that is slightly larger than the target.

Our engineers then finish with finer processes, using finely-adjusted circumferential grinding machines to achieve tolerances of one-tenth of one-thousandth of an inch (.0001) - delivering your exact diameter.

Related Services

- **Balancing:** Two-Plane Dynamic & Static Balancing services are available for all rollers; Menges uses computer-assisted balancing equipment to balance & test your roll at your specific linespeed.
- **Crowning & Tapering:** Rolls may be ground with parabolic or reverse-parabolic crowns to deliver better material handling characteristics.
- **Repair Services:** Menges has a complete roll repair facility; we repair & replace journal shafts and outer shells, refurbish double-shell rolls, and can cover rolls in any elastomer.
- **Rubber Covering:** Our fully-equipped in-house rollcovering department is capable of covering rolls with any elastomer on the market. We stock many rubber, silicone and urethane compounds for immediate use. Groove and serration services are also available for covered rolls.



Menges Engineers are diligent, using an array of instruments to ensure every roll meets the customer's specifications and our own in-house standards for quality.

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