

ATSKOAT™

OPTIMUM HARD COATING FOR YANKEE AND MG CYLINDERS

WHERE SAFETY MEETS RELIABILITY

ATS Techno offers ATSKOAT coating– a proven Yankee and MG cylinder coating technology for tissue, poster and OTC paper (low GSM paper). The coating can be applied on cast Iron as well as steel Yankee cylinders.



As cylinders are subject to high corrosion and wear, ATSKOAT coating increases the service life of Yankee cylinder.

This quick, on-site, high-quality surface coating of the Yankee cylinder enhances the paper's quality and protects it from corrosion and wear.

COMMON PROBLEMS ON YANKEE

- Scratches & chatter marks
 - Pitting and grooving
 - Uneven heat transfer
 - Need for frequent re-grinding hence degrading shell thickness
 - Paper breaks
 - Surface corrosion
 - Surface deviation
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BENEFITS

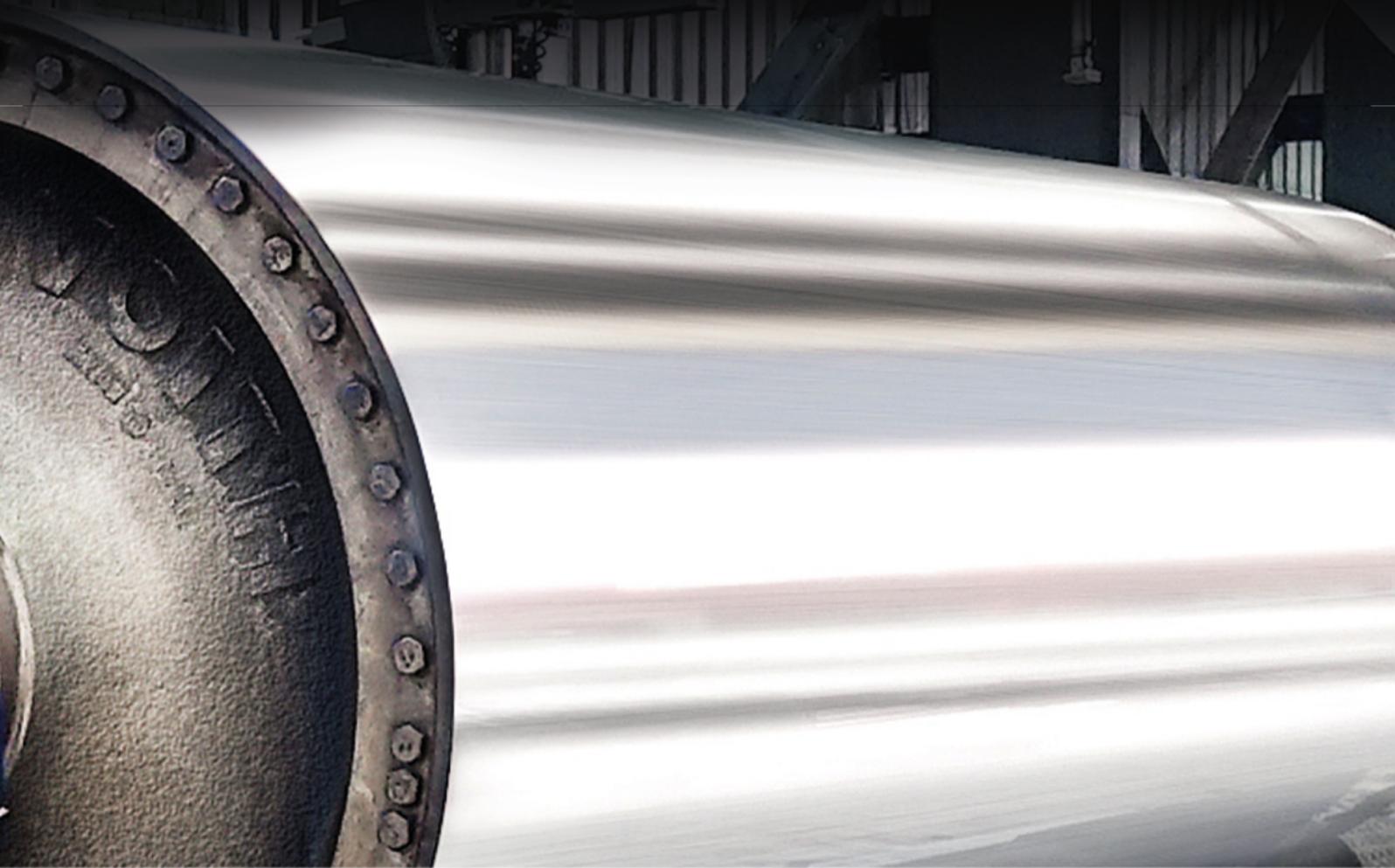
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| • Improved Corrosion and wear resistance hence increasing the service life | • Tailored for tissue production, achieves uniform and precisely calibrated crown surface for best sheet adhesion |
| • Quick on-site application | • Solves excessive doctor blade wear |
| • Reduces re-grinding interval | • Uniform heat transfer |
| • Solves paper picking / decreases web breaks | • Enhances cylinder performance, resulting in better paper quality standard |
| • Improves poster paper gloss | |
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TEFLOCOAT™

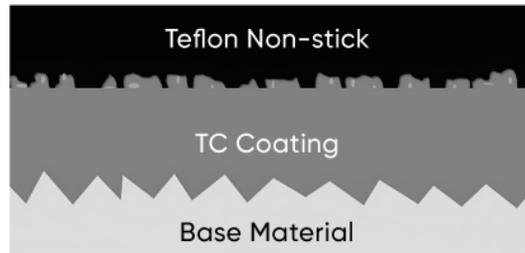
NON-STICK COATING WITH EXCELLENT SHEET RELEASE PROPERTIES FOR DRYER CYLINDERS AND ROLLS

ATS offers TEFLOCOAT that extends the life of cylinders and rolls by protecting against sticking pigments, corrosion, and wear. This coating can be done on-site on a dryer cylinder without removing it from the paper machine resulting in minimum downtime.

PTO.



Beneath the non-stick PTFE (Teflon) top layer lies a layer of tungsten carbide coating, providing excellent non-stick properties and extended longevity to the rolls' operational lifespan.



APPLICATIONS

- Dryer cylinder
- Duo-stabilizer rolls
- Dryer felt roll
- Lead roll

PROBLEMS

- Accumulation of dust, dirt and glue leads to a decrease in drying capacity
- Sticking of starch and pigment
- Sheet picking leads to improper paper release
- Corroded surface
- Sheet moisture profile deviation
- High wear on doctor blade (increase doctor blade consumption)
- Marking, wear and picking on dryer's surface

BENEFITS

- Excellent non-stick surface properties due to top Fluoropolymer layer
- Prolonged lifespan of the rolls and cylinder due to hard Tungsten Carbide base coating
- Reduced stickiness of fibres, gums and glues in pulp
- Solution to dirt and dust buildup
- Consistent heat transfer across surfaces
- Better paper quality
- Excellent wear and corrosion resistance
- Improved doctorability
- Longer service intervals
- Exceptional resistance to normal process chemicals.
- Avoids prolonged exposure to strong alkalis, alcohols or acids
- On-site coating is possible. This minimises shut down time, production losses and cost expenditure.

GLAZECOAT™

SPECIALIZED COATING ON MG CYLINDER

ATS Techno's GLAZECOAT - a proven MG cylinder coating technology for Duplex board and Kraft paper (High GSM Paper) is an effective solution for wear and corrosion on the surface of MG Cylinder.



PROBLEMS

- Wear and tear
 - Uneven surface
 - Groove and porosity
 - Pitting, streaks, scratches, and chatter marks
 - Uneven heat transfer
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BENEFITS

- Improved glaze on paper
 - Corrosion and wear-resistant surface
 - Increased lifespan of MG Cylinder
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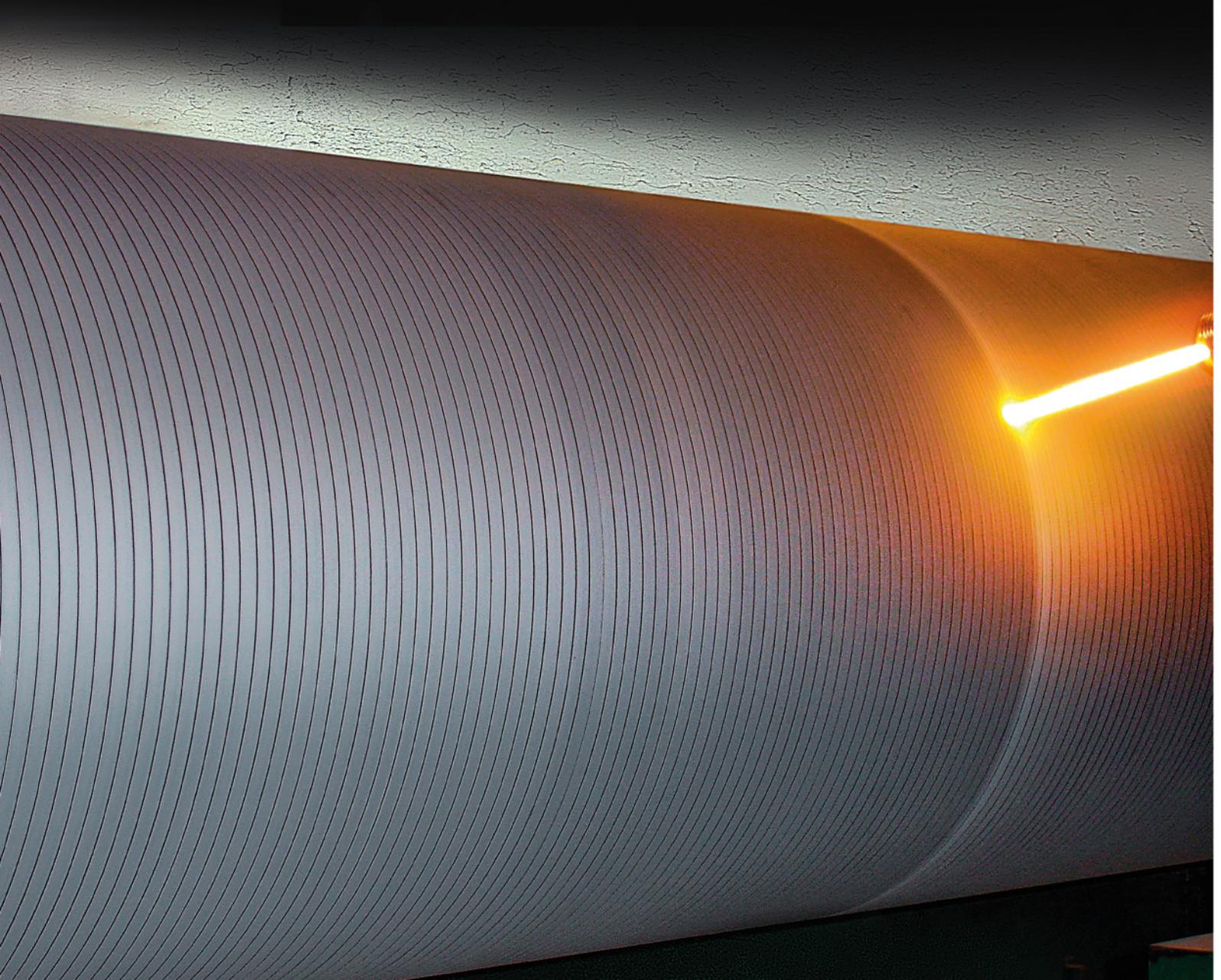
MG GRINDING AND POLISHING

- Effective and precise grinding and polishing with minimum shell thickness loss
- ATS Techno's grinding and polishing service fixes surface defects like scratches, chatters, and pin holes. After precise grinding and polishing the MG cylinder's surface properties can be restored to original condition.

GRIPCOAT™

HIGH TRACTION COATING FOR REWINDER DRUM

ATS offers GRIPCOAT coating for better gripping and less slippage of paper on the Rewinder drum. This coating can be applied at ATS works or on-site itself.



APPLICATIONS

- Rewinder drum rolls
 - Winder cutter rolls
 - Pope reel
 - Spreader rolls
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COMMON PROBLEMS

- Uneven or loose reeling
 - Paper marking
 - Gradual decrease in surface roughness causing slippage of paper reel
 - Machine vibration
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BENEFITS

- Uniform winding
 - Ensures optimal sheet tension
 - Appropriate roughness value to avoid slippage
 - Improved machine runnability
 - Superior surface hardness helps maintain necessary surface roughness
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TECHNICAL DETAILS

Colour: Grey

Surface Finish: 04 – 16 μm Ra (depending on the paper grade)

Coating Thickness: 100+/-15 microns

Hardness: 1000 – 1200 HV

IN-SITU GRINDING AND POLISHING OF DRYER CYLINDERS ON THE PAPER MACHINE

Restore dryer's surface properties in minimal downtime period without the need for removal of dryer from the paper machine.

During paper operation, dryer surface suffers from grooving, pitting, and scratches which are advised to be removed from the surface of the dryer.



During short shutdowns, addressing surface defects like grooves, pitting and scratches without removing the dryer from the paper machine is critical therefore, the in-situ grinding and polishing of dryers prove immensely beneficial.

ATS offers in-situ grinding and polishing of the Dryer cylinders by a lightweight, compact, and accurate in-situ grinding machine that is installed between two dryers, optimizing space utilization while ensuring precise, on-the-spot grinding operations.

Our capability allows for grinding of the dryer's surface, restoring its dimensional accuracy and surface properties to a 'brand-new' state with minimal paper machine downtime.

PROBLEMS

- Grooves and porosity
 - Pitting, chatters, and scratches
 - Pulp buildup causing reduced and uneven heat transfer
 - Creasing of paper
 - Unevenness of surface due to poor doctring
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BENEFITS

- Restoration of surface to original smoothness
 - Nullification of organic matter build-up
 - Better heat transfer to make the drying process more uniform
 - Easy paper release
 - Fewer paper breaks
 - Reduced downtime of machine
 - Economical when compared to the option of replacing the dryer
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