

Coatings and Platings for Precision Rolls

Perhaps your web is abrasive enough to scratch the surface of steel idlers. Or maybe the caustic vapors of your coating operation likes to pit and corrode aluminum rolls. And it wouldn't be unusual if your coated web was causing some trouble by sticking just a little too much to certain rolls in the line.

These are typical challenges where custom roll coatings and platings are used successfully every day to improve web handling. The real challenges, however, are much more numerous. Likewise, the custom solutions Webex has to offer are quite varied and unique.

In this section of the Precision Roll Master Catalog, you'll find some of the more common coating and plating options used today to meet the challenge of unique environments, webs and converting processes. This overview is meant to provide an initial understanding of solutions that may work for you.

For professional assistance in selecting the best possible option, talk to our Customer Support Specialists. They have the experience and expertise to properly shape your decision.

For problems with air entrapment and/or wrinkling, be sure to look at Rubber-Covered WebSpreaders and Machined Surfaces.

TYPICAL CHALLENGES ADDRESSED BY COATINGS AND PLATINGS

Process

- vertical webs
- high speed
- spreading
- double-sided coatings
- low wrap
- high tension
- low tension
- wrap angle
- light load
- spreading and wrinkling
- stretching

Environment

- clean room
- dusty/dirty environment
- food grade
- high moisture
- corrosive environment
- limited space to fit idler
- elevated temperatures
- submersed web

Web Characteristics

- brittle
- fragile
- sensitive
- web coated
- abrasive
- contaminated
- lightweight
- low tensile strength

Speak with a roll expert!

Call 1.920.729.6666 or email sales@webexinc.com

COMMON COATINGS AND PLATINGS

Hardcoat Anodize

- Transforms aluminum surface to aluminum oxide
- Excellent wear resistance and toughness
- As hard as chrome plated steel
- Can be impregnated with Teflon® for improved release
- Does not chip, peel or crack
- FDA approved

Electroless Nickel

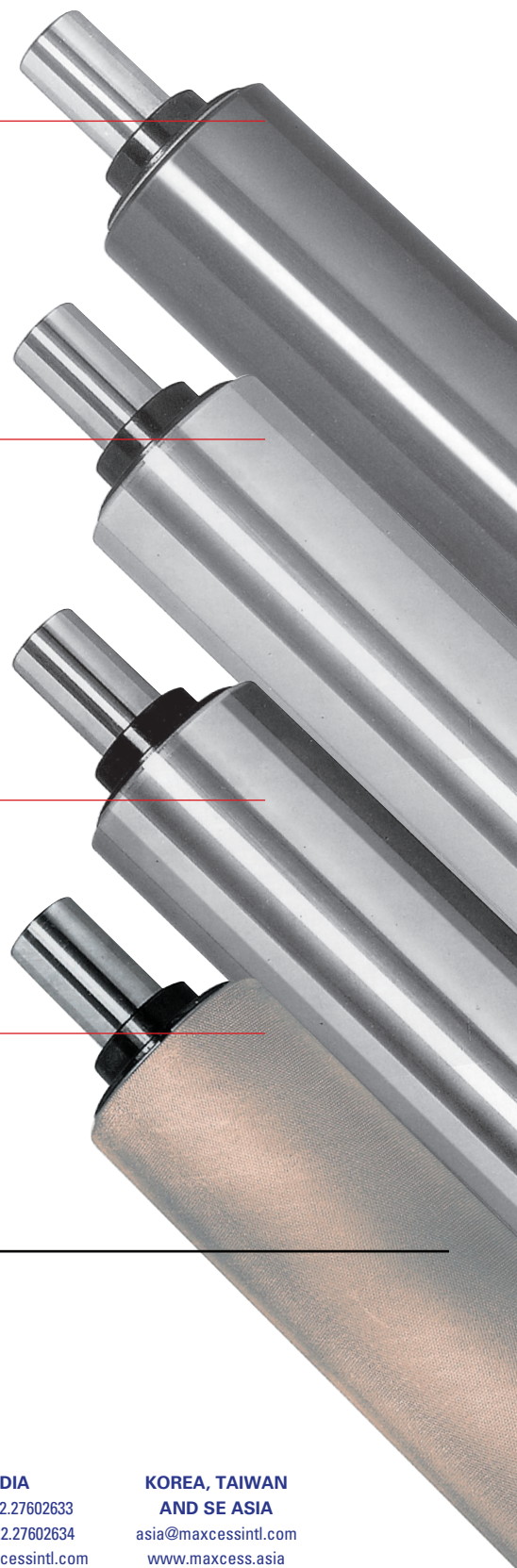
- Excellent corrosion protection
- Does not require grinding after plating
- Can be applied to both steel and aluminum
- FDA approved
- Preferred coating for clean-room components
- Abrasion resistant at 50 – 60 Rockwell C
- Can be plated on heat-transfer roll internal water passages

Chrome Plating

- An industry standard for steel
- Abrasion resistant at 60 – 70 Rockwell C
- Corrosion resistant
- Preferred coating for fine grinding and superfinishing

High Release Tungsten Carbide (Plasma) Coatings

- As sprayed finish 200 – 500 Ra provides traction surface
- Superior release characteristics
- Abrasion resistant up to 72 Rockwell C
- A favorite for tape and coated adhesive lines



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