

# We're all about solutions.

Offering improved product quality, longer part life, less downtime, improved machine speeds, and safety.

## AMERICAN ROLLER SOLUTIONS

### Metal & Composite Roll Design And Fabrication

- Comprehensive engineering and fabrication solutions that lower outsourcing risks
- Strategic sourcing based on best value and schedule requirements.

### Heat Transfer Roll Capability

- Thermalon® delivers rapid warm up and temperature recovery with lower energy consumption while boosting productivity through reduced maintenance downtime and improved temperature control.
- Advanced cad technology optimizes performance and CNC machining using the most technologically advanced components on the market today.
- Heated, chilled, & specially designed rolls meet or exceed industry standards.

### Custom Elastomeric Roll Covering Technologies

- Combines compounds & industry experience to meet the demands of any application.
- Experts specify the best possible rubber & urethane coverings, with the right tolerances to assure optimum roll performance.

### Tight Tolerance Machining & Finishing

- Cylindrical grinding & super finishing technologies ensure tight tolerances & precision surface finish.
- In-house engineering assistance assures the most efficient services & processes to achieve quality goals.

### Web & Tension Control Solutions

- A full line of spreader rolls to help remove wrinkles, widen webs, & assist in slit separation.
- THE industry standard for more than 25 years.

### Thermal Spray & Plating Solutions

- A complete line of products for abrasion resistance, dimensional restoration, thermal insulation & control, corrosion resistance, oxidation resistance, release and tension control.

### Optimization, Engineering & Lab Services

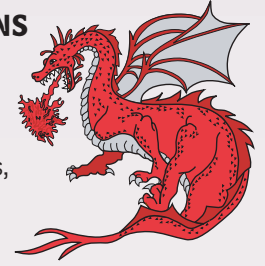
- Chemical researchers and engineers at our 18,000-sq. ft., state-of-the-art center work closely with production and marketing personnel to apply technological breakthroughs to both present and future challenges facing our customers.
- Product Managers, along with R & E staff, provide field service and consultation.



## PLASMA COATINGS SOLUTIONS

### Release Coatings

- 20 different lines of coatings that provide a variety of properties, including varying chemical resistance, service temperatures, curing temps, surface textures, hardness, release, and friction.
- The originator of specialty coatings that combine hard matrix materials such as Tungsten Carbide (72 Rc hardness) with polymers to provide the best of all properties. Specialty coatings provide 7 to 10 times longer life than other commonly used surfaces, resulting in less downtime, less replacement cost, and maintenance cost.



### Traction/Tension Control

- Enhances the surface properties of rolls and parts, which results in improved traction.
- Improved Web tracking, providing more consistent and tighter wrap of products, often improved quality, and potentially higher speeds.
- Coatings available with a contradiction of properties, such as those which offer both TRACTION and NON-STICK, which are ideal for low inertia rolls made of thin aluminum or composites.

### Wear Resistance Coating

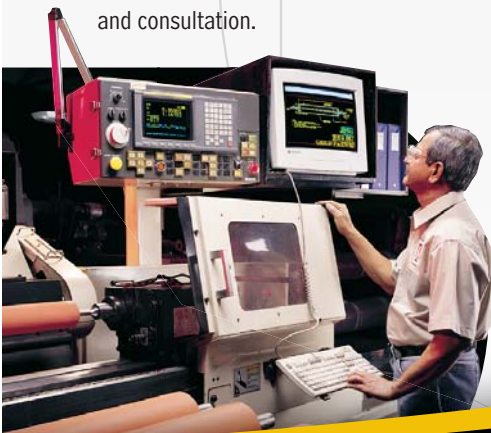
- Strengthens a roll made of lightweight material, such as aluminum, with the surface properties of a hard wear resistant Tungsten Carbide (72Rc) or Ceramic (70 Rc).
- Provides excellent resistance against wear.
- Can be used in the applied state of 200–500 Ra surface texture (depending on coating selected) or ground to a smooth finish.
- Coatings available that outperform chrome plating and can be ground as smooth as a 5–7 Ra.

### Corrosion Resistance

- Offers alternative methods of combating mild to severe corrosion.
- Coatings incorporate materials including Hastelloy®, Stainless Steels, Ceramics, Halar®, Tefzel®, Kynar®, Teflon®.
- Can be applied onto less expensive base materials to provide excellent corrosion resistance.

### On-Site Application

- No disruption of the production equipment.
- Non-Stick, Easy Clean, Traction, Corrosion and Wear Resistant coatings can be applied on-site with no sacrifice of integrity when compared to a factory-applied coating.
- Certain applications are completed within 4 to 6 hours.
- No disassembly or reassembly cost or time.
- Eliminates shipping costs, downtime or transport damage concerns.
- Free inspections providing customers with the information needed to keep machines running at optimum levels.



Rollers • Recovering • Refinishing • Results

**American  
Roller  
Company**