



**TUNGSTEN  
CARBIDE COATED  
STEEL MILL ROLLS**



**QUALITY.  
COATINGS.  
JOB SHOP.  
EXPERTISE.  
EXPERIENCE.  
PLASMA & HVOF.**



**PLASMA**  
SPRAY PROCESSORS

WIDE RANGE OF APPLICATIONS
● Bridle Rolls
● Deflector Rolls
● Furnace Rolls
● Hearth Rolls
● Pot (Sink) Rolls
● Re-coiler Drums
● Tuyers
● Mandrels

OUR PROCESSES - THERMAL SPRAY COATINGS
HVOF COATINGS
PLASMA COATINGS
WIRE ARC SPRAY
PLASMA TRANSFERRED ARC
GRINDING AND FINISHING

### ADVANTAGES OF COATED ROLLS

**BRIDLE ROLL :** Resist material pick up between the roll and the coil. Keep the roll surface free from wear / defects so that these are not transferred to the coil. Resist working temperature (about 550°C) without losing its hardness, oxidation and other adverse effects of high temperature. The capacity to grip the coil with controlled friction and surface finish. It should not allow any coil slippage, which leads to marks on the coil surface.

**FURNACE ROLLS :** Resist oxidation and wear which lead to spalling, which reduce the roll dimensions, resulting in low roll life. Resist material pick up between the roll and the annealed coil. Should not allow any slippage of the coil, which occurs on account of non-uniform wear.

**SINK (POT) ROLLS :** Sink roll immersed in the molten zinc bath is affected by the dross picked up by the coil. Also it is attacked by the molten zinc leading to pitting and build ups. All these factors affect the coil surface.

**HEARTH ROLLS :** Hearth rolls in continuous galvanizing lines and continuous annealing lines contact steel strips moving under tension at very high speeds and temperatures, they need special protective coating which protect hearth rolls from wear, thermal shock, and metal buildup and to reduce slippage caused by poor roll surface integrity.



### PLASMA SPRAY PROCESSORS PROMISES TO PROVIDE BEST QUALITY COATINGS - REASONABLE COSTS

- **EQUIPMENT** - We use latest imported coating machineries manufactured and supplied by Praxair Surface Technologies & Oerlikon Metco.
- **RAW MATERIAL** - We use certified coating powders manufactured and supplied by praxair surface technologies and oerlikon metco only.
- **EXPERTISE** - We have experience of more than 32 years in thermal spraying and have developed in house processes to substitute for imported technology used by mnc's to help offer solutions to our indian customers at reasonable costs.



Estd. 1984



**PLASMA**  
SPRAY PROCESSORS

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