Wear Resistant Coatings for New and Worn Rolls

Enduring Performance...

Stronger, with Eutectic

- Experts in wear preventive coatings for rolls
- Refurbishment and OEM manufacturing
- Specialized workshops
- Wearfacing alloy specialist now offers turn-key solutions
- Extend life, increase productivity and save money

Typical Industries Served using Eutectic Solutions...

- Oil & Gas
- Power Generation
- Cement
- Steel

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS
Increase Your Roll Service Life with Superior Wearfacing Technologies

World Leader in Advanced Alloy Development Now Offers Turn-Key Solutions

- Wide range of wearfacing alloys from the experts
- World leader in Wear & Fusion technologies
- Fully equipped workshop with latest technologies
- Extreme quality control procedures

CastoLab® Services Workshop Case Studies

**Straightener Rolls - Steel Industry**

**PART:** Continuous Caster Straightener Rolls

**WEAR PROBLEM:** High abrasion at high temperature (2400°F-2600°F) as red hot steel strand moves along the Continuous Caster Straightener Rolls.

**TYPICAL SOLUTION:** 400 series sub arc alloys

**ADVANCED SOLUTION:** Rebuild or fabricate and coat a roll using Eutectic’s proprietary EnDo tec® flux cored wire.

**RESULTS:** EnDo tec maintains high hardness even at high temperatures. This solution is proven to extend roll life up to 8 times!

**VRM Crusher Rolls - Cement Industry**

**PART:** Vertical Roller Mill Crusher Rolls

**WEAR PROBLEM:** The production of cement often leads to extreme wear from crushing aggregate.

**TYPICAL SOLUTION:** Roll replacement

**ADVANCED SOLUTION:** Rebuild rolls with complex carbide wearfacing wire and a final layer of our NanoAlloy®.

**RESULTS:** TeroMatec alloy's ultra-fine carbides resist combined abrasion, impact and compressive wear. This solution is proven to extend roll life up to 4 times!
Increase Your Roll Service Life with Superior Wearfacing Technologies

Spray and Fuse Process
(TeroDyn® and Superior®)

Cold Spray Process
(EuTronic® Arc-Spray, TeroDyn® and CastoDyn®)

World Leader in Advanced Alloy Development Now Offers Turn-Key Solutions

- Wide range of wearfacing alloys from the experts
- World leader in Wear & Fusion technologies
- Fully equipped workshop with latest technologies
- Extreme quality control procedures

Eutectic Services Workshop Case Studies

Straightener Rolls - Steel Industry

PART: Continuous Caster Straightener Rolls
WEAR PROBLEM: High abrasion at high temperature (2400°F-2600°F) as red hot steel strand moves along the Continuous Caster Straightener Rolls.
TYPICAL SOLUTION: 400 series sub arc alloys
ADVANCED SOLUTION: Rebuild or fabricate and coat a roll using Eutectic’s proprietary EnDOtec® flux cored wire.
RESULTS: EnDOtec maintains high hardness even at high temperatures. This solution is proven to extend roll life up to 8 times!

VRM Crusher Rolls - Cement Industry

PART: Vertical Roller Mill Crusher Rolls
WEAR PROBLEM: The production of cement often leads to extreme wear from crushing aggregate.
TYPICAL SOLUTION: Roll replacement
ADVANCED SOLUTION: Rebuild rolls with complex carbide wearfacing wire and a final layer of our NanoAlloy®.
RESULTS: TeroMatec alloy’s ultra-fine carbides resist combined abrasion, impact and compressive wear. This solution is proven to extend roll life up to 4 times!

Strong international R&D facilities

PAA RT:

Vertical Roller Mill Crus h er Rolls

WEAR PROBLEM:

TYPICAL SOLUTION:

ADVANCED SOLUTION:

RESULTS:

High Velocity Oxy-Fuel Powder Spraying
(CastoJet® Kerosene S)

Plasma Transferred Arc (PTA)
(EuTronic® GAP®)

Automated Welding with Shielding Gas
(EnDOtec®)

Automated Open-Arc Welding
(TeroMatec®)

Stronger, with Eutectic

www.eutectic.com

Stronger, with Eutectic

www.eutectic.com
Whertec is the on-site service division of Castolin Eutectic. The division offers a highly organized inspection, mobilization, welding and thermal spray service covering a wide range of industrial applications. Every job is covered by a pre- and post-project report that can be used to assess future preventative maintenance requirements and evaluate in-service performance of key component parts. Whertec operates with stringent health and safety standards and has established a reputation for efficiency and reliability.

The combination of Castolin Eutectic’s product and application expertise with a world-class site mobilization team offers customers the best possible solution for on-site projects — test the reliability experts with your demanding repair or material conservation projects.

Typical Industries Served using Eutectic Solutions...

- Oil & Gas
- Power Generation
- Cement
- Steel

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS