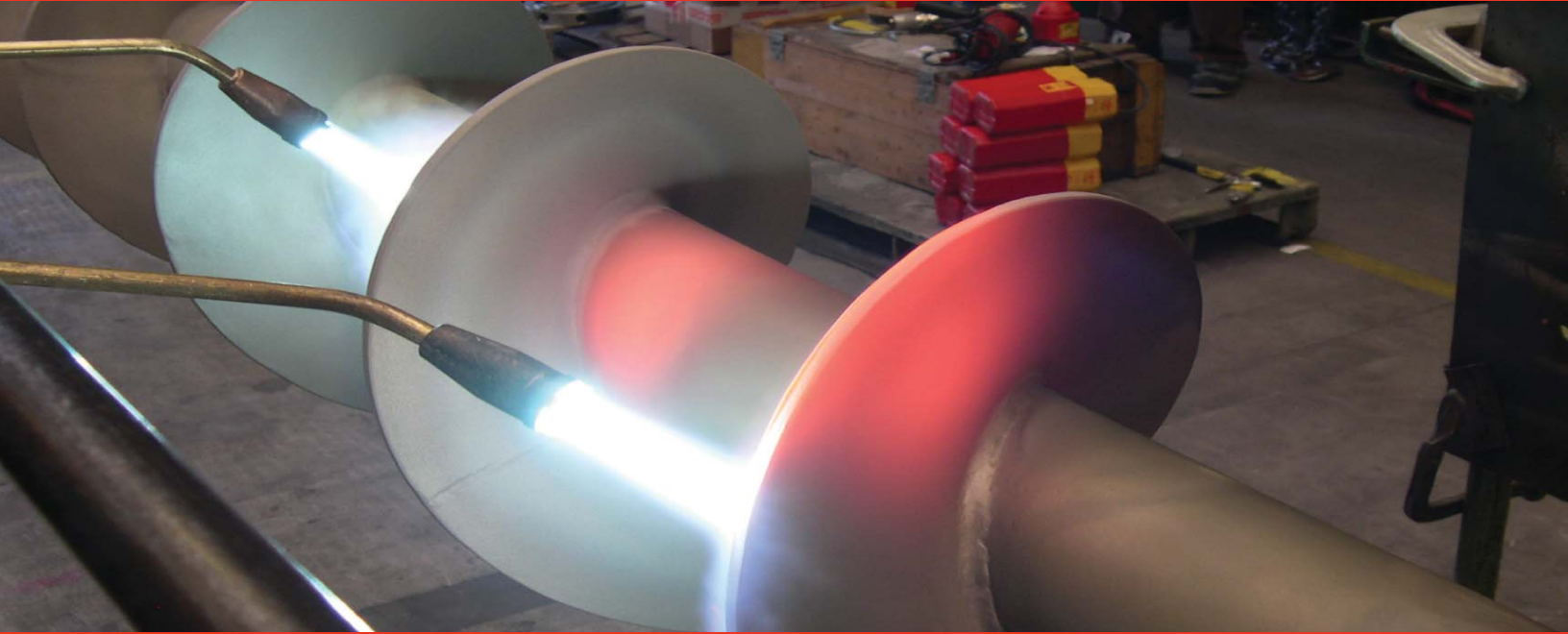


Wear Management Solutions

Protective Coatings for Industrial Screws



- Advanced technologies for abrasion, erosion and corrosion wear
- Reduce maintenance costs
- Extend service life of valuable transport screws
- Increase productivity and save money
- Repairs and OEM manufacturing



Eutectic Solutions for Transport Screw Wear

Transport screws are widely recognized as one of the most efficient systems for material handling. In addition to conveying of solid, semi-solid, wet and sticky materials, they are also used in production processes for drying, cooling and mixing. These processes cause extensive wear damage to the screw/auger flights and the shafts. Equipment fails, causing loss in productivity and expensive repairs or the need for replacement parts.

Protected transport equipment saves you time and money

- Eutectic wear experts repair and protect screws and augers to extend service life
- Thermal Spray coatings, specialty hardfacing alloys or CDP wear plate
- Multiple coatings applied to provide the best solution to combinations of wear
- Fully equipped Eutectic Services workshops with the latest technology

Do These Pictures Look Familiar?



Critical equipment, that's subjected to extreme conditions, needs the best hardfacing solution!

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
- Broadest product and process range in the industry
- Recommendations based on a deep understanding of applied metallurgy



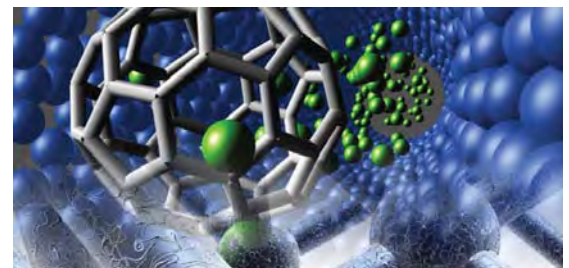
Extensive on-site wear analysis



Strong international R&D facilities



Lab testing to define wear resistance



Development of new, cutting edge technologies

Stronger, with Eutectic

www.eutectic.com

Increase Service Life with Superior Wearfacing Technologies



Thermal Spray Processes

(Arc Spray, TeroDyn®, CastoDyn®, SuperJet® and HVOF)



Wear Plate

(CastoDur® Diamond Plate)



Electrode and MIG Wire Hardfacing

(TeroMatec®, EnDOtec® and EutecTrode®)



Brazing

(TeroCote®)

Eutectic Services Workshop Case Studies

Feeding Screw - Cement Industry

PART: Ball Mill Feeding Screw

WEAR PROBLEM: Heavy wear occurs on the inside walls of the cylinder and on the spirals.

PREVIOUS SOLUTION: Replace part.

EUTECTIC SOLUTION: Fabricate cylinder and spirals from CDP wear plate and coat spiral passages with an abrasion resistant alloy.

RESULTS: **Tripled the service life!**



Mixing Screw – Pulp & Paper Industry

PART: Mixing Screw

WEAR PROBLEM: Wood pulp and chemical additives used in the paper making process cause severe abrasive and corrosive wear on the Paper Machine Mixing Screws.

PREVIOUS SOLUTION: The uncoated screws made of unalloyed steel lasted only 12 months.

EUTECTIC SOLUTION: To increase service life, Eutectic recommended using a cold spray process to coat the screw flights with an abrasion resistant tungsten carbide alloy.

RESULTS: **No noticeable wear after 36 months!**



On-Site Services: *The Reliability Experts*



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.

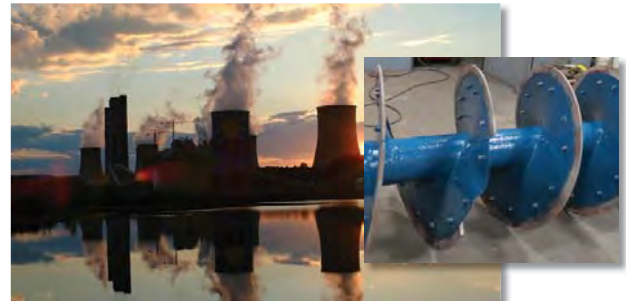
The combination of Castolin Eutectic's product and application expertise with a world-class site mobilization team offers customers the best possible solution for on-site projects – test the reliability experts with your demanding repair or material conservation projects.



Typical Industries Served using Eutectic Solutions...



Mining



Power Generation



Cement



Steel

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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