

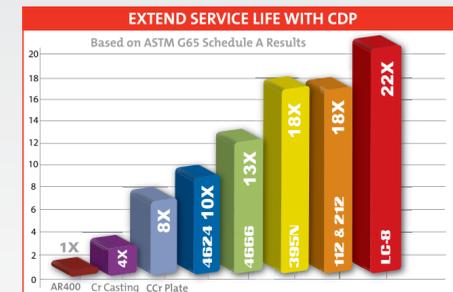
CastoDur® Diamond Plate

*Wear plate for protection against
Abrasion, Erosion and Impact...*

>>> CastoDur® Diamond Plate (CDP) is welded flat with special Eutectic flux-cored wire and a controlled "cool" welding process!

<<< Provides a coating with uniform hardness and exceptional wear properties. CDP does not delaminate or "chunk out" during service.

>>> LC8, the thinnest and most advanced wear plate manufactured with the laser cladding process. Most abrasion and erosion resistant coating with 60% tungsten carbide.



XuperWave® for Enhanced Erosion Resistance...

>>> Unique weld bead geometry to combat fine particle abrasion. XuperWave prevents particle tracking on the weld bead overlap and in the stress relief cracks (points most susceptible to start wearing). It also ensures that the stress relief cracks and weld beads are never aligned in the direction of the abrasive particle flow.

<<< **This can result in a reduction in wear by up to 30% over conventional plates!**



RoboTec SMART

Features of RoboTec

RoboTec Smart, Eutectic's continuous wire robotic system for coating sugar crusher rolls. Ability to coat all crucial areas in one automated system.

- Easy to program with minimum setup time
- Only system with easy programming to apply all hardfacing and arcing coatings
- Provides uniform arcing hardfacing coating in the shop or during the crushing season
- Lightweight system easier to install and position the torches
- Independent wire feeder with improved cored wire feeding system provides greater reliability
- Ideal for areas with minimum work space



Benefits of RoboTec Coatings

- Improves extraction efficiency of sugar mills
- Increases the useful service life of crusher rolls
- Enhances occupational health conditions
- Uniform and consistent weld overlay with alloys specifically designed for increased service life of crusher rolls



Stronger... with Eutectic

www.eutectic.com

Ask for a demonstration from our
Application Specialists.

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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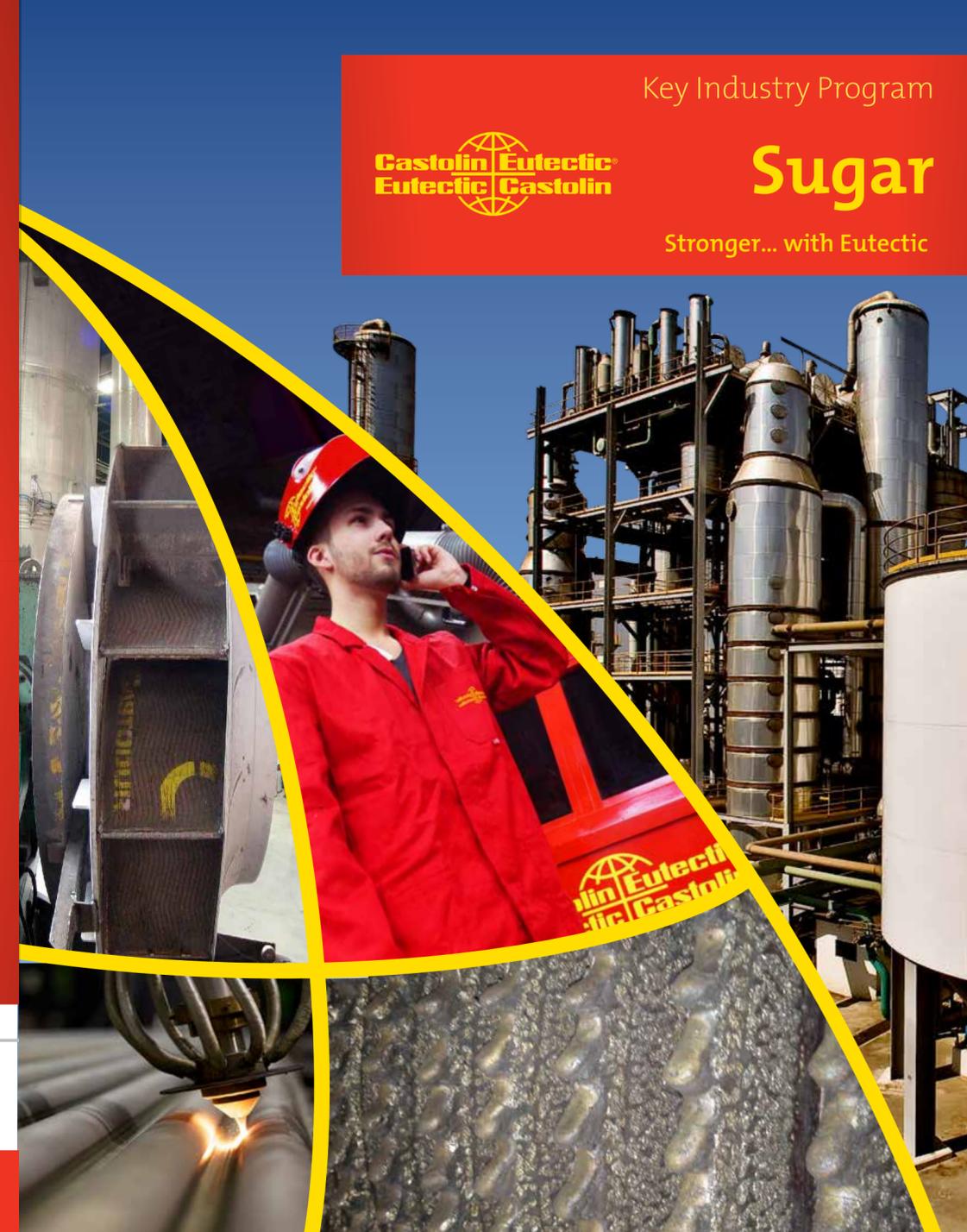
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Key Industry Program



Sugar

Stronger... with Eutectic



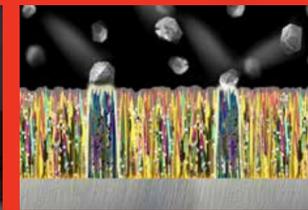
The Company

*Eutectic Castolin is the leading company
worldwide in fighting wear with...*

- Over 100 years of experience solving industries' toughest wear problems
- A deep understanding of applied metallurgy
- The broadest product and process range in the industry
- Worldwide manufacturing facilities



R&D centers to develop new and innovative wear solutions



The latest in hardfacing technologies



Worldwide presence

Eutectic Services Workshops

Eutectic has opened service workshops around the world to support the sugar industry. Using highly trained technicians, specialized equipment and quality Eutectic consumables, the company is able to offer world-class repair and wear protection services.

We can help you...

- Reduce costly repairs and spare parts inventory
- Extend the life of your valuable equipment
- Increase process efficiency



Preparation Area: Solutions for Knives

PLUS SOLUTION

- One welding pass on the cutting edge of the knife

Electrode: AbraTec® 6710 XHD or EutecTrode® 4004N
Wire: TeroMatec® OA 4601 Open Arc Wire

- Lasts up to 40% longer than Standard CrC!

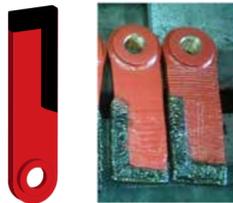


MASTER SOLUTION

- Buildup entire cutting face

Wire: TeroMatec OA 3965 Open Arc Wire

- Lasts up to 2 times longer than Plus Solution!
- Allows future repairs



HIGH ABRASION RESISTANCE • MAXIMIZE EXTRACTION

Preparation Area: Solutions for Hammers

PLUS SOLUTION

- Hardface on the crushing edge of the hammer

Electrode: AbraTec 6710 XHD or EutecTrode 4004N
Wire: TeroMatec OA 4601 Open Arc Wire

- Lasts 30% - 50% longer than Standard CrC!



PREMIUM SOLUTION

- Buildup faces and hardface corners

Step 1: Buildup using TeroMatec OA 4923 wire
Step 2: Cap using TeroMatec OA 4601 wire or AbraTec 6710 XHD or EutecTrode 4004N electrodes

- Lasts up to 2 times longer than Plus Solution!



MASTER SOLUTION

- Buildup crushing face in one step with single hardfacing alloy

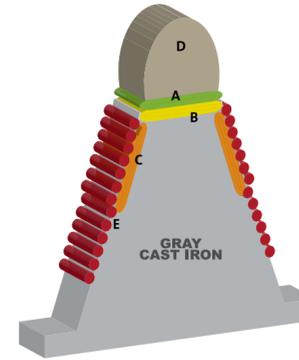
Wire: TeroMatec OA 3965 Open Arc Wire

- Lasts up to 40% longer than Premium Solution!
- Allows future repairs



MAXIMIZE EXTRACTION • CONSTANT PREPARATION INDEX (% OPEN CELLS) • IMPROVE PRODUCTIVITY

Crushing & Extraction: Solutions for Crushing Rolls



- "A" (Crucial layer)
- Manual Solution: EutecTrode® 4040
 - Automated Solution: TeroMatec OA 4617

Only hardfacing alloys designed to apply directly to Cast Iron

- "B" (when needed, to surface cast iron)
- Manual Solution: EutecTrode 27
 - Automated Solution: EnDotec DO*21Ni



- "C" Teeth Sides
- Manual Solution: EutecTrode 4040
 - Automated Solution: EnDotec DO*17

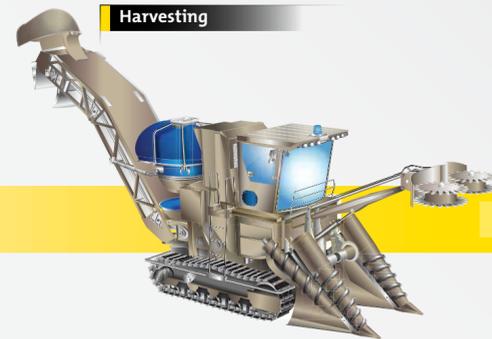


- "D" Tear Drop/Dot
- Manual Solution: AbraTec 6710 XHD (High abrasion/low impact)
EutecTrode 4004N (Abrasion/medium impact)
 - Automated Solution: TeroMatec OA 4633

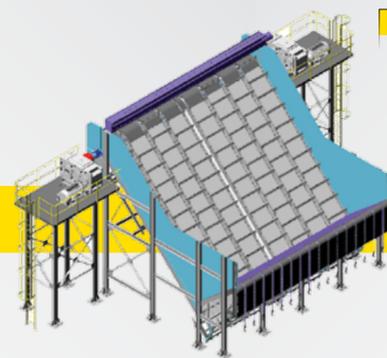


- "E" Teeth Sides Arcing
- Manual Solution: SugarTec® GG (Large spherical drops)
SugarMill 1000 (Rougher deposit)
 - Automated Solution: SugarTec TUB

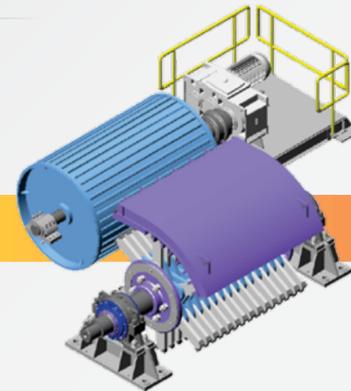
LOW HEAT INPUT • MINIMUM CRACKING • HIGH ABRASION RESISTANCE • EXCELLENT DEPOSIT EFFICIENCY • MAXIMUM EXTRACTION



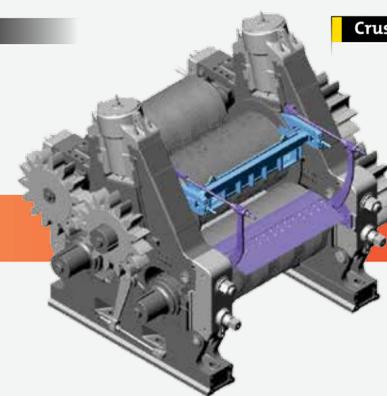
Harvesting



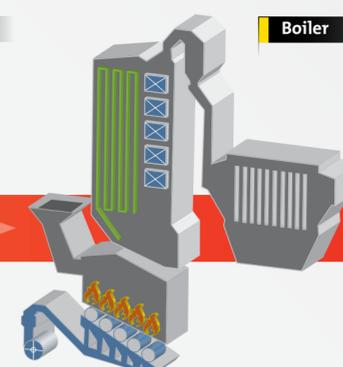
Feeding



Preparation Area



Crushing & Extraction



Boiler

PROTECT BOILER WALLS & TUBES



- Smooth surface reduces slag buildup
- Wear Resistance and Densification
- Applied on-site or in the workshop
- Improves Heat Transfer



- Very low dilution with 0.035" thick cladding
- Shop applied only
- Single tubes, panels, flat plate



- Very dense thermal cladded deposit
- Applied on-site or in workshop
- Sealed with Tube Armor™ ceramic
- Severe corrosion applications



- Metallurgically bonded, cladded deposit
- Applied in workshop
- Severe erosion and corrosion applications



- Harvester Roll & Cutting Discs
- Extreme Abrasion
 - Hardface TeroMatec OA 4603 or AbraTec 6710 XHD
 - Increase service life up to 3x



- Defibering Unit Housing
- Abrasive Wear
 - Lined with CDP 4666 XuperWave® wear plate
 - Increase service life up to 4x



- Defibering Plate
- High Impact and Abrasion
 - Top with CDP 4666 XuperWave wear plate
 - Bottom with AbraTec 6710 XHD or TeroMatec OA 4601
 - Increase service life up to 4x



- Crusher Roll Teeth
- Reconstruct broken teeth then coat with EutecTrode 3055 base, plus EutecTrode 66N
 - Fast, low heat improves toughness
 - See roll hardfacing solutions above



- Crusher Shaft
- Friction and Abrasion
 - Hardface using CastoMag® 45554
 - Increase service life, low heat
 - Hardness like base metal



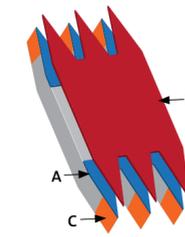
- Fans
- High Speed Particle Abrasion
 - Fabricate with CDP 4666 XuperWave wear plate or LaserClad™ 60% WC
 - Increase life up to 3-5x

Crushing & Extraction: Solutions for Trash Plates & Combs

PREMIUM SOLUTION

- "A": Coat teeth and adjacent area with EutecTrode XHD 646 as a cushion layer
"B": Hardface entire top surface of Trash Plate with AbraTec 6710 XHD or TeroMatec OA 4601
"C": Coat sides of teeth with BoroTec 10009 spray & fuse powder

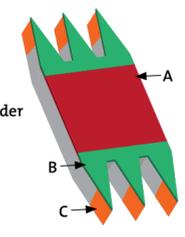
- Advantages
- Lasts 50% longer than Standard solution
 - Reduce downtime
 - Maximize extraction



MASTER SOLUTION

- "A": Coat center area with either AbraTec XHD 6710 or TeroMatec OA 4601
"B": Coat top of teeth and adjacent area with Xuper ElastoDur 7888T or Eutectic PE 8913 spray & fuse powder
"C": Coat sides of teeth with BoroTec 10009 spray & fuse powder

- Advantages
- Lasts 40 - 60% longer than Premium Solution!
 - Reduce downtime
 - Maximize extraction



EXTEND SERVICE LIFE • MAINTAIN PART PROFILE • IMPROVE EXTRACTION • REDUCE DOWNTIME