We’ve got your fix!

We provide tailored solutions to increase the performance of your equipment.

**Effect of wear:**
- Decreased service life of the wear components
- Impact of hardfacing on key components (e.g. Mills and Shredders)

**Impact of ‘Arcing’ on mill extraction**
- Preparation of the grinding roll in order to extend service life

**Example:** On days 5 and 16, arcing is applied
- Results: 30% decrease of brix by applying special ‘arcing’

**MAX EXTRACT PLUS**
- Provides at least 50-60% more service life when compared to all standard arcing solutions
- Extraction rates up to 97-98%

**TOPCASE 425-4**
- Stretch your productivity
- Semi-automatic welding process
- All-terrain wire feeder: Outdoor and indoor
- Less stop and start - High productivity
- Optimized operability & less defects
- Easy to use

**SMK NG (Sugar Mill K3 New Generation)**
- Easy to operate
- Fuel-less on-site assembly
- Increased efficiency through independent twin wire system
- Roll rebuild – during service (with/without cane bypass)
- Reduced defects due to welder-friendly wire selection

**TOPTORCH 300-4E**
- Special sugar Torch
- 1500 mm
We've got your fix!
We provide tailored solutions to increase the performance of your equipment.

Effect of wear
Decreased service life of the wear components

Impact of hardfacing on key components (e.g. Mills and Shredders)

Period 1:
time taken to reach the optimum grinding phase.

Period 2:
period of greatest efficiency, optimum conditions. The longer the process operates under these optimum conditions, the lower the operating cost per ton.

Period 3:
period of excessive wear, increased cost per ton to produce.

Increasing the duration of Period 2 is achieved by applying the right hardfacing solution to the respective key components.

Impact of ‘Arcing’ on mill extraction
Preparation of the grinding roll in order to extend service life

Example: On days 5 and 16, arcing is applied
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MAX EXTRACT PLUS provides at least 50-60% more service life, when compared to all standard arcing solutions, and extraction rates up to 97-98%.

SMK NG - Sugar Mill K3 New Generation

• Easy to operate
• Two less assembly
• Increased efficiency through independent four wire feed system
• Tool-less onsite assembly
• Wall thickness – coating sensor (offload feed cane bypass)

TOPCASE 425-4 - Stretch your productivity

• Semi-automatic welding process
• All-terrain wire feeder: Outdoor and indoor
• Less stop and start - High productivity
• Optimized operability & less defects
• Easy to use

WA Consumables
The go-to provider of advanced welding consumables

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<th>Electrode Type</th>
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<td>Hardfacing</td>
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<td>TRI S 312</td>
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<td>Dissimilar welding</td>
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WA Applications
for Sugar Cane

www.welding-alloys.com
We’ve got your fix!
We provide tailored solutions to increase the performance of your equipment.

**Effect of wear**
- Decreased service life of the wear components

**Impact of hardfacing on key components (e.g. Mills and Shredders)**
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**Impact of ‘Arcing’ on milling extraction**
- Preparation of the grinding roll in order to extend service life
- Example: On days 5 and 16, arcing is applied.
- Results: 30% decrease of brix by applying special ‘arcing’

**TEAR DROP**
- Robocane K Zucar
- Max Extract Plus

**SIDE**
- Build up: Hardfacing Buf-O
- Hardfacing UCW-O

**Max Extract**
- Spatter
- Max Extract Plus
- Tear drop and Spatter

**Max Extract Plus provides at least 50-60% more service life, when compared to all standard arcing solutions, and extraction rates up to 97-98%**

**SPECIFIC SUGAR APPLICATIONS**
- **MAX EXTRACT**
  - O: Open arc
  - TE: Tubular electrodes
- **MAX EXTRACT PLUS**
  - T1: T2 T30 E0 E1
- **HARDFACE BUF**
  - O: Build-up 250 HB
- **HARDFACE UCW**
  - O: Buffer layer / Rebuilding 180 HB (47 HRC)
- **GROOVALLOY**
  - O: Gouging
- **HARDFACE TIC**
  - O: Hardfacing 57 HRC
- **HARDFACE DIAMOND**
  - O: Hardfacing 63 HRC
- **CAST NIO**
  - O: Repairing of cast iron 190 HB
- **TRI S 312**
  - O: Dissimilar welding 260 HB
- **HARDFACE AP**
  - O: Build-up and repair 220 HB (50 HRC)

**GENERAL MAINTENANCE APPLICATIONS**
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  - O: Repairing of cast iron 190 HB
- **TRI S 312**
  - O: Dissimilar welding 260 HB
- **HARDFACE AP**
  - O: Build-up and repair 220 HB (50 HRC)

**MINERAL abrasion**
- **Impact**
- **Metal / Metal friction**
- **Corrosion**
- **Machinable**

**WA Consumables**
The go-to provider of advanced welding consumables.

- Suitable
- Highly Suitable

WA Machines
The go-to provider of automated equipment for wear protection.

- **SMK NG**
  - Sugar Mill Kit New Generation
  - • Easy to operate
  - • Tool-less onsite assembly
  - • Increased efficiency through independent twin wire feed system
  - • Roll rebuild – during service (with/without cane bypass)

- **TOPCASE 425-4**
  - Stretch your productivity
  - • Semi-automatic welding process
  - • All-terrain wire feeder: Outdoor and indoor
  - • Less stop and start - High productivity
  - • Optimized operability & less defects
  - • Easy to use
A Welding Alloys solution for every step of the process.
We've got your fix!
We provide tailored solutions to increase the performance of your equipment.

Effect of wear - Decreased service life of the wear components
- Decreased service life of the wear components

Impact of hardfacing on key components (e.g. Mills and Shredders)
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Results: 30% decrease of brix by applying special ‘arcing’

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Our Technical ‘Spark’ Solves Your Industrial Challenges

A worldwide presence

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  - Tool-less onsite assembly
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  - Enhanced performance: Wear protection
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