

SUCCESS STORY

- Revamp of WALDRICH Roll Grinder – - ArcelorMittal Aviles Roll Shop Hot Strip Mill -

Machine Details

OEM : WALDRICH
Year of Installation : 1997
Model : WS III C 10.001 x 5500
Control System : IBSO ILC1000
Max. Roll length : 4.500 mm
Max. Roll diameter : 700 mm
Max. Rollweight : 13to

Description of Project:

The WALDRICH RC1 roll grinder has been selected as one out of five projects at ArcelorMittal Aviles, in order to modernize the roll shops of the hot and cold strip mills. The RC1 roll grinder project was a complete revamp with a new control system, online measuring device, chock turning system and replacement/reparation of wear parts, e.g. headstock, tailstock, etc..

Condition before:



Scope of Supply :

- CNC grinder control system – based on Beckhoff hardware
- Grinder Control Software (HCC KPM10)
- New control cabinet, complete machine cabling and new cable chains
- Hand wheel controller, joystick and emergency stop
- Remote operator station for control centre
- SINAMICS Motor 1FT6, 120S controller and power module for Z-axis
- SINAMICS Motor 1FT6, 120S controller and power module for X-axis
- SINAMICS Motor 1FT6, 120S controller and power module for U-axis
- SINAMICS Motor 1FT6, 120S controller and power module for B-axis
- SINAMICS Motor 1FT6, 120S controller and power module for U1-axis
- Siemens 1PH 7 motor and power module for headstock drive
- Siemens 1PH 7 motor and power module for wheel drive
- Replacement linear encoder (X-axis and measuring device) – absolute
- Replacement probes (measuring device) – 1 Vss
- Repair of chock supporter unit
- SINAMICS Motor 1FK7, 120S controller, power module measuring device
- Integration of existing measurement device
- Integration of existing crack detection system – ET
- Grinding wheel diameter measuring system (light trap system)
- sba grinder control software
- Installation, Start-up and Test of Components before delivery
- Teleservice
- LaserJet printer with extra paper cartridge
- Set of documentation
- Delivery and shipment DDU
- new WMG measuring device
- Replacement ball screw spindle and bearings X-axis drive
- Replacement gearbox X-axis drive
- Set of soft loader
- Chock rotating device incl. replacement and adaption of chock supporting
- Scraping of z-axis carriage bed
- New steel liners in carriage bed
- Telescopic covers
- Scraping of z-axis carriage
- Scraping of x-axis carriage
- Interface for RSMS according to SBA specification
- Spanish RD 1215/97 certification incl. necessary safety equipment and actions
- Start-up and Test Grinding at Customer Premises
- Operator Training on-site at customer premises after start up
- Training for maintenance staff during installation and start up

Condition after finished job :

