SUCCESS STORY

- Mechanical Revamp of a Dronsfield Roll Grinder – IP Kwidzyn - Poland

Machine Details

OEM : Dronsfield
Year of Installation : 1972
Model : Modell Number 79
Control System : Siemens 840D SL
Bed Length : 13.000 mm
Max. Roll length : 9.000 mm
Max. Roll diameter : 1600 mm
Max. Roll weight : 45to

Description of Project

The machine was equipped with an old Herkules control system from 1994. Customer wants a new control system, new headstock, Superfinish Unit, groove milling unit and most difficult a stationary measuring equipment on the small carriage. Scraping of x-Axis, dynamic balancing unit. The machine itself was in proper condition from the mechanical side. We had to change all motors and gearboxes as well and need to install a new electric cabinet on a platform behind the machine.

Condition before job :

Scope of Supply :

- Adaption of all remaining mechanical parts for servo drive application …
- Checking of existing balancing unit (repair if necessary)…
- Checking of oil leakages of ball screw spindle of Z-Axis and changing of existing design to prevent oil leaking's …
- New Headstock …
- **CNC Control Equipment**
- SINUMERIK 840D Solution Line …
- New Control Cabinet and Machine Cabling incl. Panel and Hand Wheel Controller …
- SINAMICS Motor 1FT6 or 1FT7, 120S Controller and Power Module for Z-Axis …
- SINAMICS Motor 1FT6 or 1 FT7, 120S Controller and Power Module for X-Axis
- SINAMICS Motor 1FT6 or 1 FT7, 120S Controller and Power Module for C-Axis
- SINAMICS Motor 1 PH8, 120S Controller and Power Module for Roll drive
- SINAMICS Motor 1 PH8, 120S Controller and Power Module for Grinding spindle

- sbA Grinder Control Software for paper application
- Stationary Measurement Device
- Super finish-Device - Loeser SF 102 (incl. holder on x axis)
- Venta-Nip Groove Milling Device (incl. holder on x axis)
- Tele-Service
- Set of Documentation

Time schedule for this Project was very tight.
SBA received the p.o. on 31.01.2013 and finished with the final acceptance certificate on 19.12.2013.

Condition after finished job :