

## SUCCESS STORY

### - Mechanical Refurbishment of Herkules Roll Grinder and - Naxos Roll Grinder – Posco Thainox - Thailand

#### Machine Details

OEM : 2 Herkules grinder for work rolls (ZRG3 + ZRG3)

Year of Installation : 1996

Model : WS 180

Control System : Original OEM

Bed length : 3500 mm

Max. Roll length : 3000 mm

Max. Roll diameter : 200 mm

Max. Roll weight: 5 to.

OEM : 1 Herkules grinder for backup rolls (SRG1)

Year of Installation : 1998

Model : WS 450

Control System : Original OEM

Bed length : 1200 mm

Max. Roll length : 10000 mm

Max. Roll diameter : 1000 mm

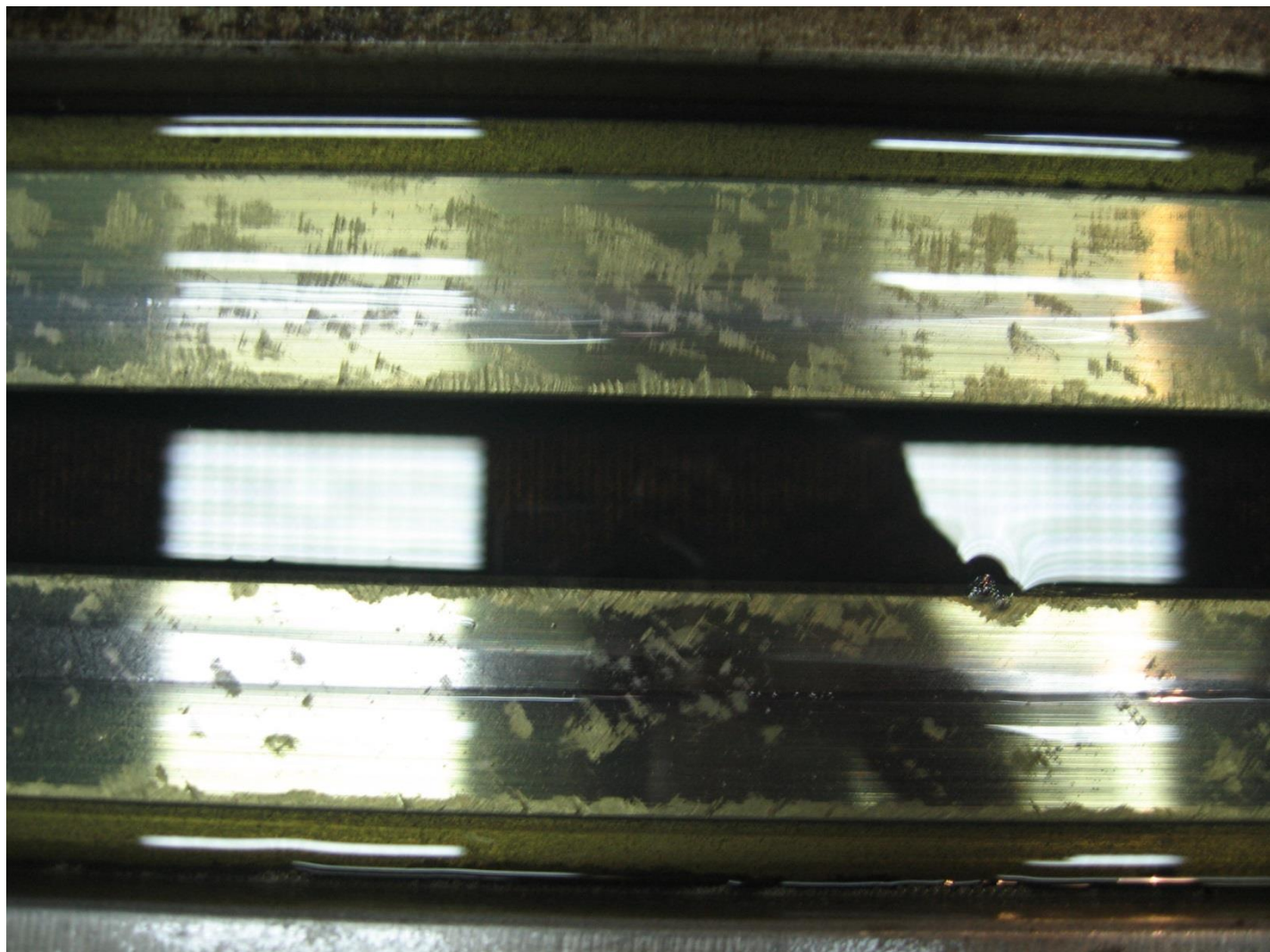
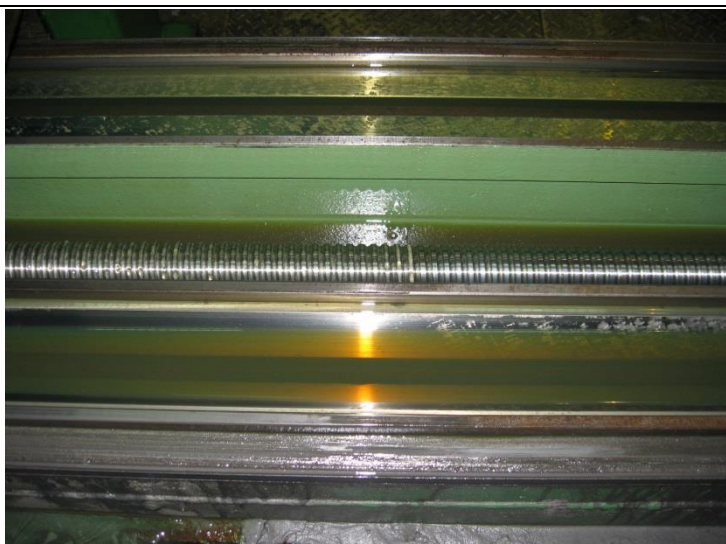
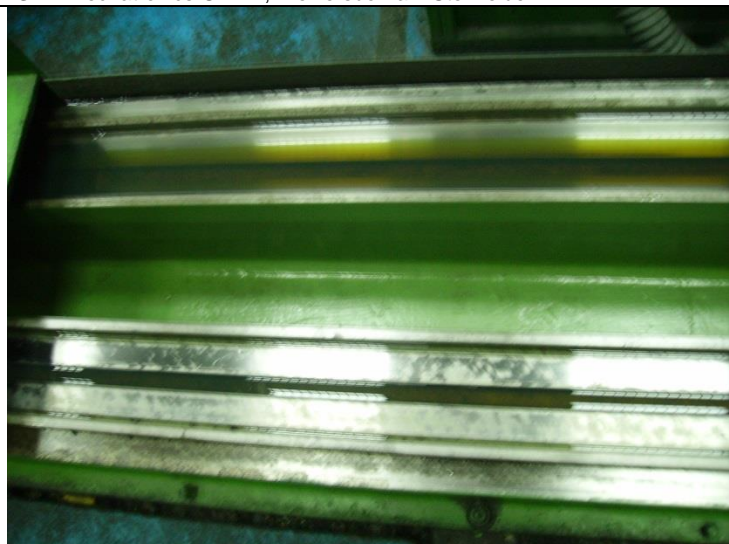
Max. Roll weight: 60 to.

#### Description of Project 60480:

Posco Thainox planned to refurbish 2 small Herkules table roll grinders and a big roll grinder for grinding the backup rolls. The original OEM grinder control system was still running but the mechanical condition especially the machine bed alignment was insufficient.

#### Condition before job :

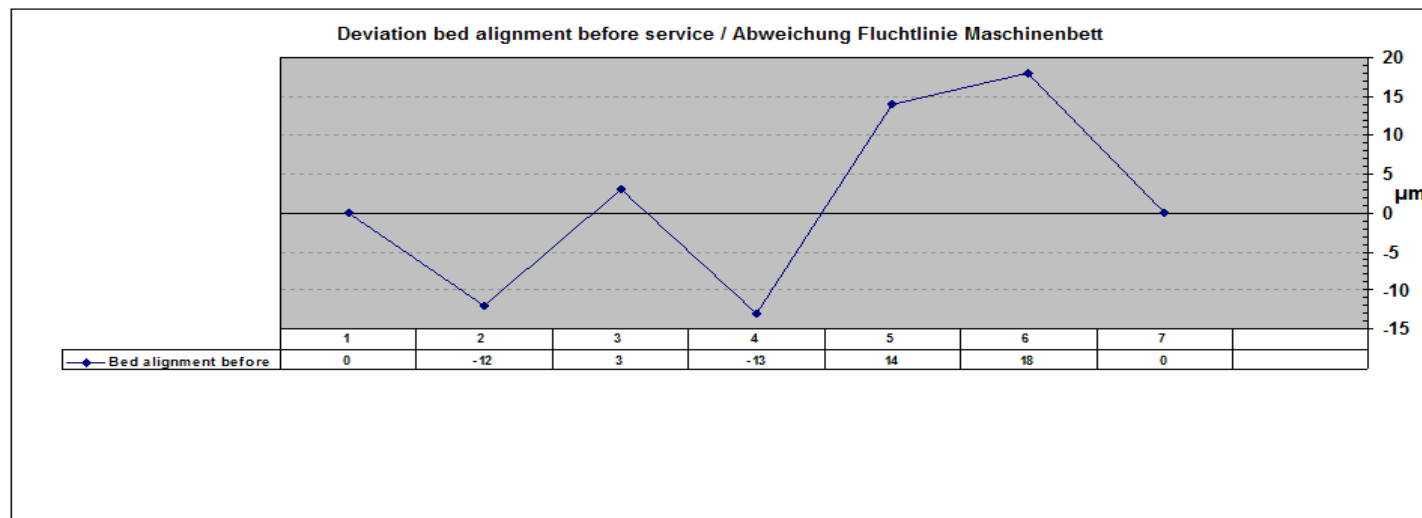




## Machine bed measuring report before service:

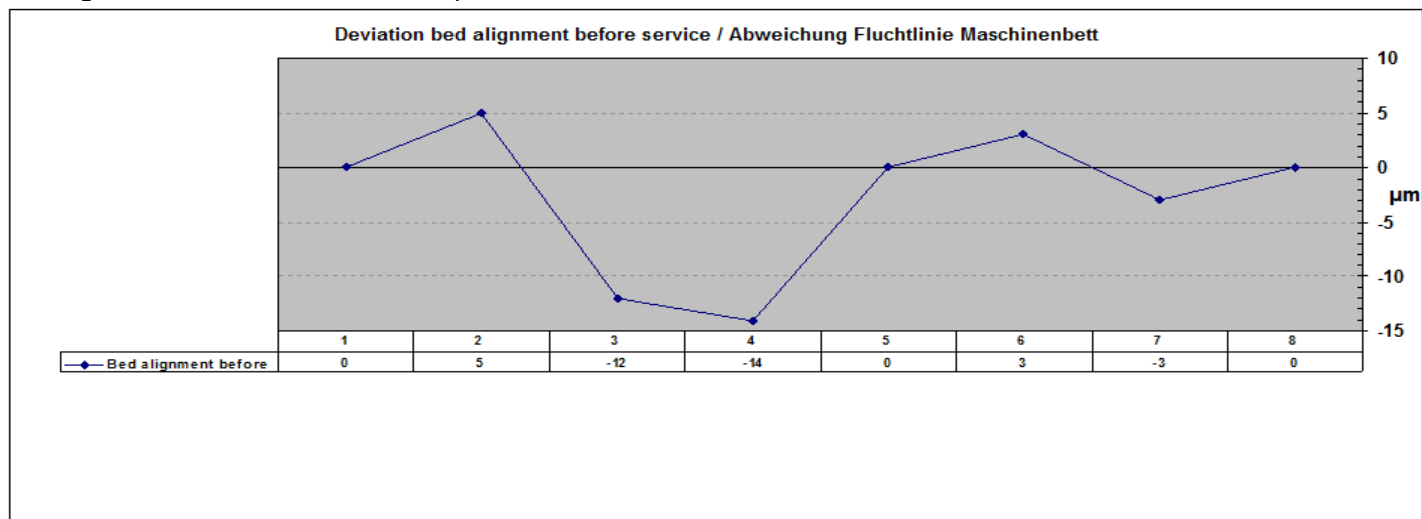
### ZRG3:

The alignment deviation is 10 micron in plus and 13 micron in minus direction.



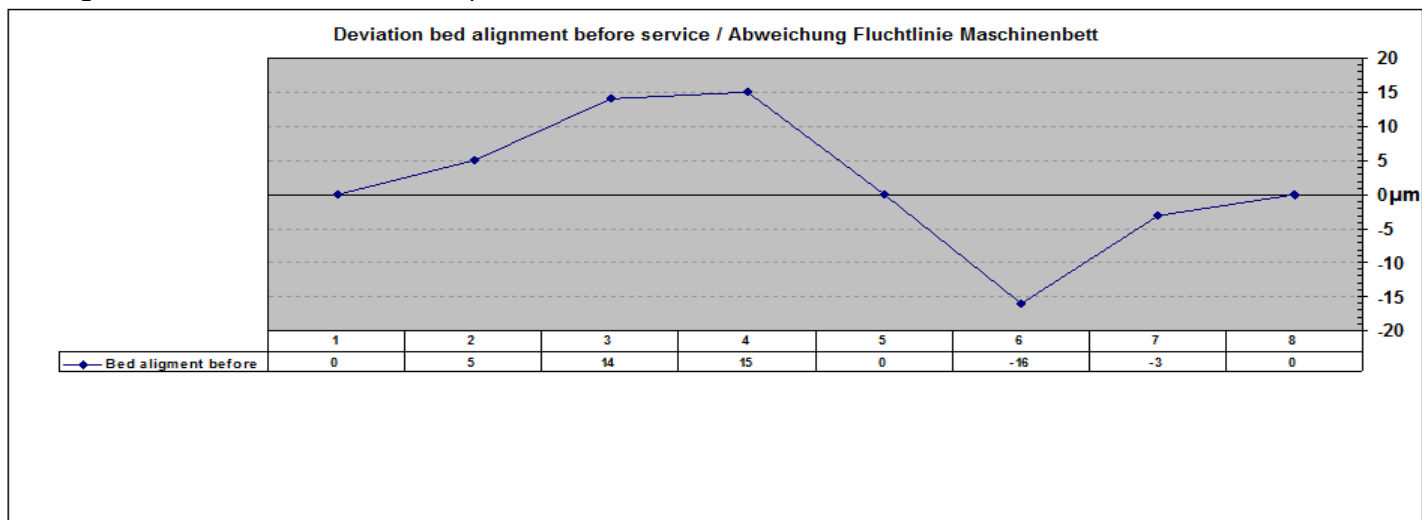
### ZRG4:

The alignment deviation is 5 micron in plus and 14 micron in minus direction.



### SRG1:

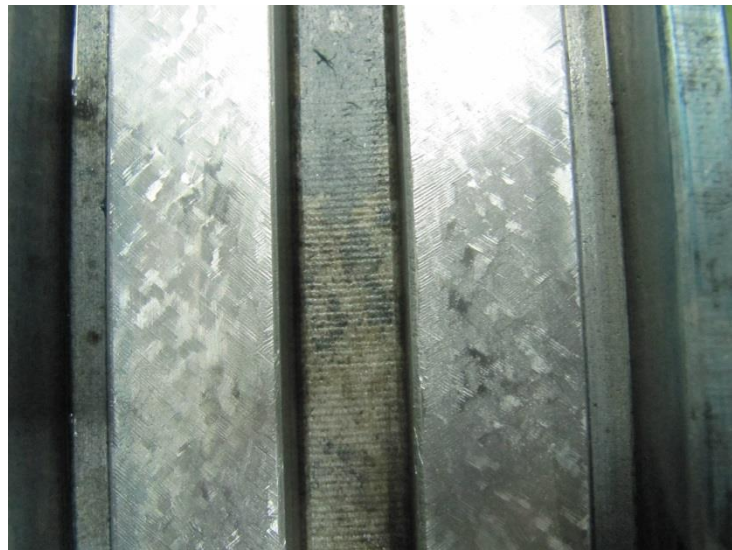
The alignment deviation is 15 micron in plus and 16 micron in minus direction.



### Scope of Supply :

- Leveling and alignment of Z-axis guide-ways.
- Renovation of Z and X-axis guide-ways by scraping.
- Mechanical inspection and preventive maintenance of all major components.
- Checking and repair the head stock to remove the vibration if it is necessary and the time is sufficient.

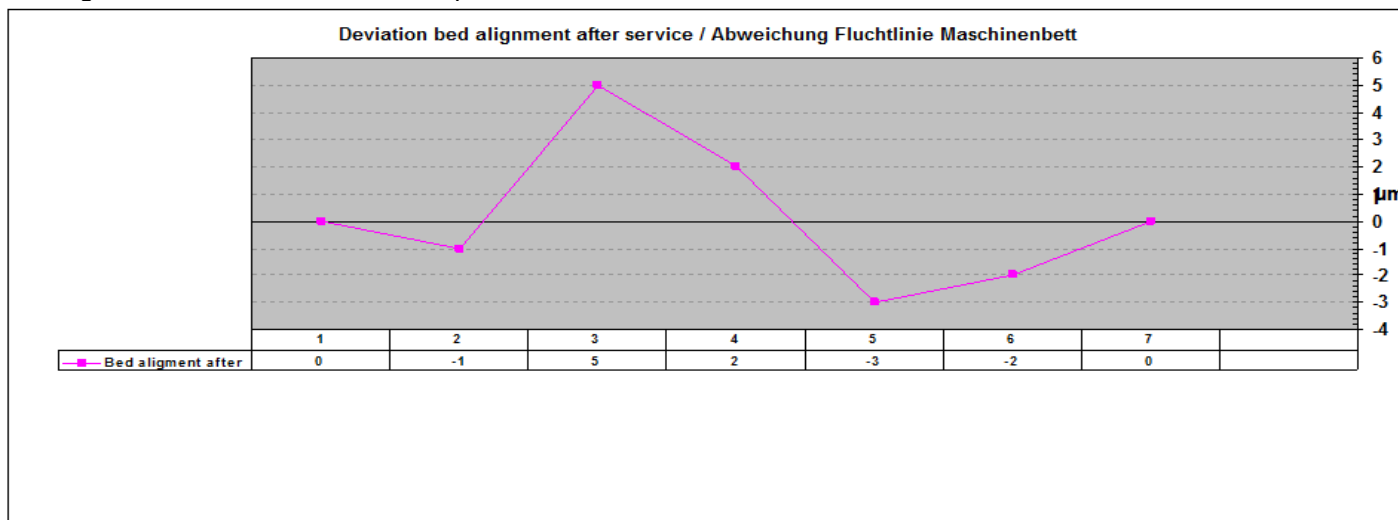
### Condition after finished job :



## Machine bed measuring report after service:

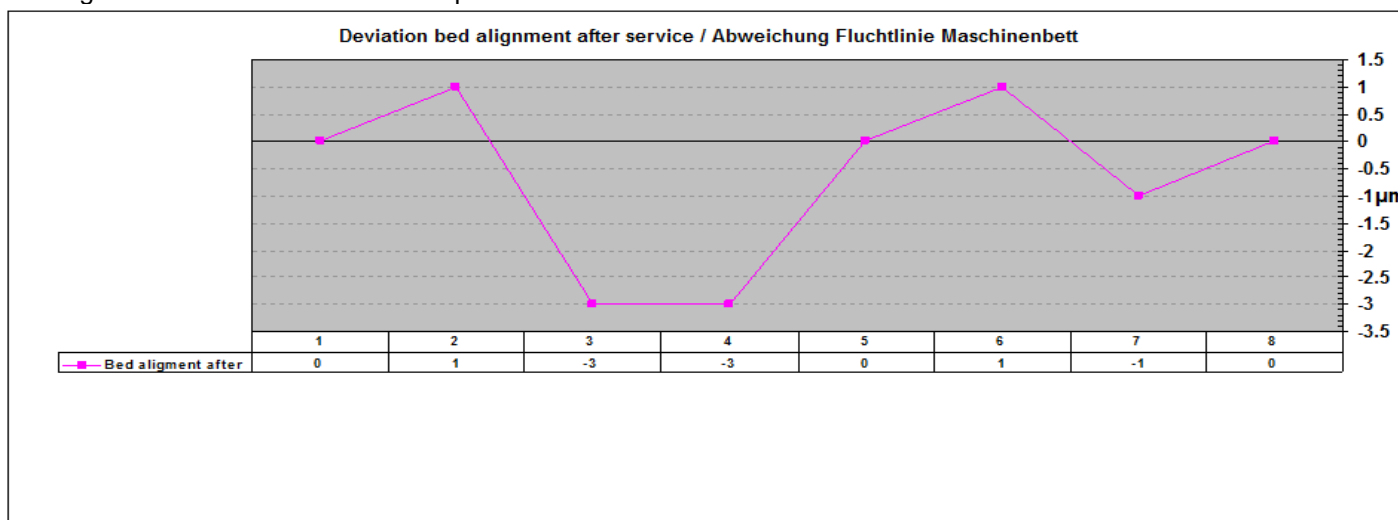
### ZRG3:

The alignment deviation is 5 micron in plus and 3 micron in minus direction.



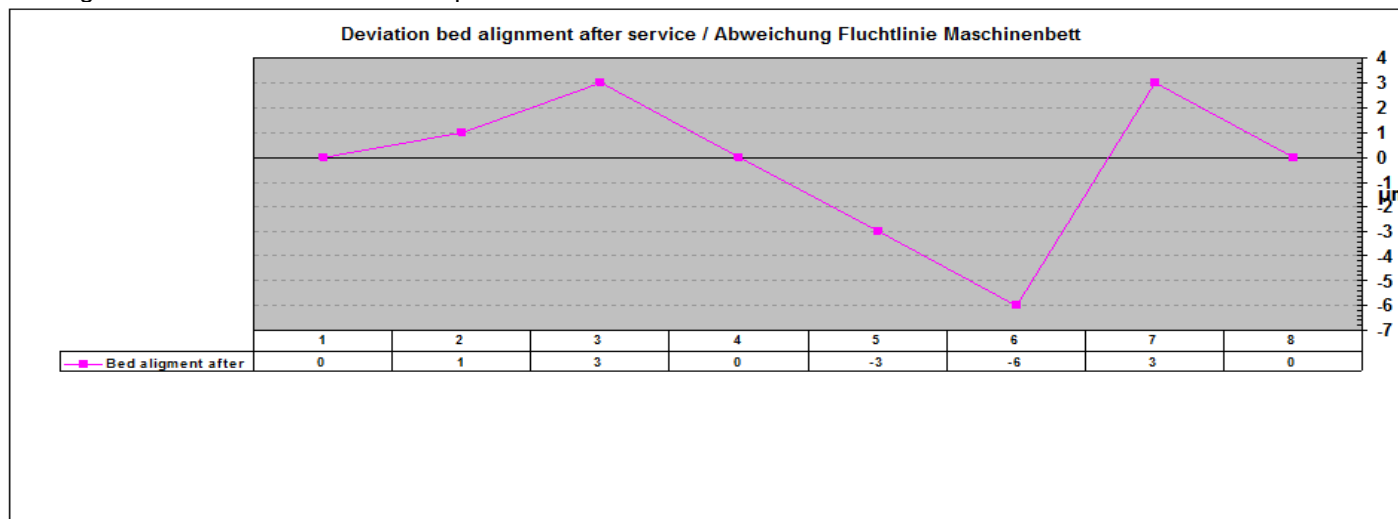
### ZRG4:

The alignment deviation is 1 micron in plus and 3 micron in minus direction.



### SRG1:

The alignment deviation is 3 micron in plus and 6 micron in minus direction.



## Conclusions:

Posco Thainox was very satisfied with the result. In year 2012 the customer ordered again 4 refurbishment services (60327) for the others 3 Herkules grinders (ZRG1, ZRG2, SRG2) and 1 Naxos Union grinder (SRG3). All mechanical grinding machines service was done successfully.