



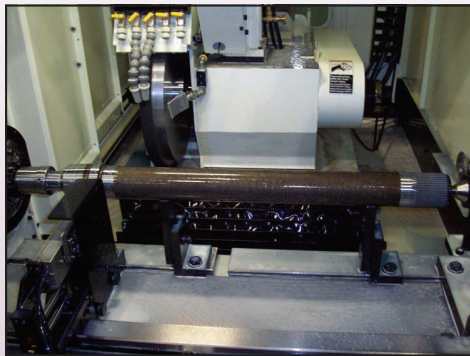
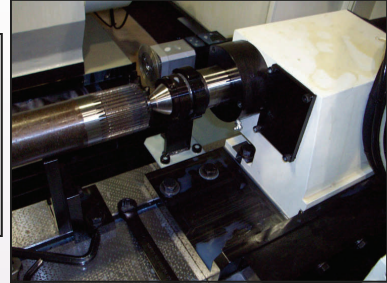
MIDAS 320S CBN Grinder

Case Study, January 2008



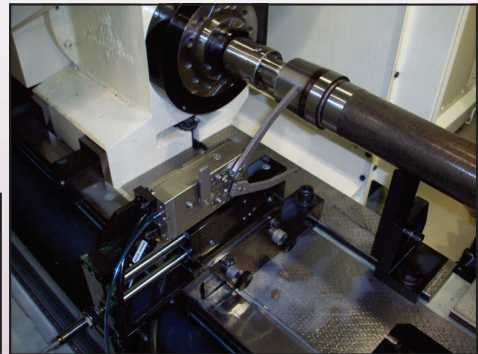
GE Fanuc
18i TB
CNC
control;
Automation
ready

5" stroke
hydraulic
tailstock;
Electric
rotary
dresser



Vitrified CBN
grinding wheel;
Part blow-off.

Hydraulic face
driver; Quick-set
in-process sizing
gage



| | | | |
|-----------------------|--|---------------------|-------------------|
| Customer: | Bobcat Gwinner, ND | Application: | Axle Grind |
| Configuration: | Straight wheel, CBN (vitrified) Hydraulic face driver In-process sizing gage Hydraulically operated tailstock with live center High-pressure wheel cleaner Acoustic emissions sensor Electric rotary dresser | | |
| Process: | Multi-plunge two bearing journals and one seal diameter in a single automatic cycle | | |
| Attributes: | Diameter tolerance | +/- .00025" | |
| | Surface finish | 24 Ra | |
| Notable: | Machine was shipped "automation ready". The customer successfully integrated a machine tending Fanuc robot | | |
| Featuring: | <u>SBS</u> automatic wheel balancer, <u>GE Fanuc</u> 18i CNC control, <u>CGI D-100</u> in-process gage, <u>Barnes</u> coolant filtration system, <u>Superabrasives Inc.</u> vitrified CBN grinding wheel, <u>GII</u> electric rotary dresser, <u>Dittel</u> acoustic sensor, <u>FRB</u> face driver and live tailstock center | | |