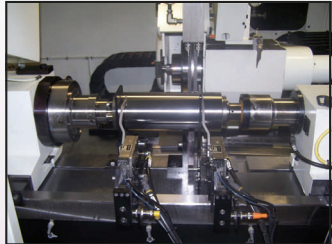




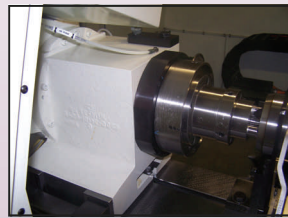
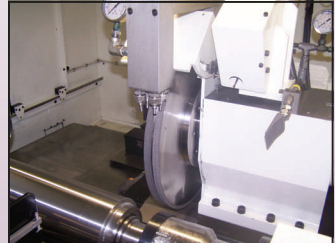
# ALTAIRA Grinder Case Study, October 2008



Dual in-process sizing gage system with BCD output capability.

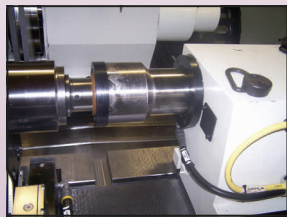


High pressure wheel cleaning and air-knife for part blow-off



Live spindle work head with hydraulic face driver

Heavy duty live spindle tailstock



<b>Customer:</b>	Caterpillar	<b>Application:</b>	OD "Peel" Grind; Various pins and shafts; 8620 Rc 58-62
<b>Configuration:</b>	Straight wheel, dual CBN layer Hydraulic face driver Automatic lateral locator Electric rotary diamond dresser Live spindle tailstock Dual in-process gaging Acoustic emission sensor system		
<b>Notable:</b>	40" between centers and 16" swing capacity. Dual CBN wheel configuration allows for roughing and finishing in the same cycle. Large diameter pins and shafts are presented with up to .040" stock on diameter and over .005" run-out, and are finished ground in only 2 (two) passes. With better control of incoming stock, a single pass operation would be possible.		
<b>Featuring:</b>	GE Fanuc 18iTB CNC control, Renishaw lateral probe, Dittel acoustic sensor, CGI sizing gages. SBS automatic wheel balancer, FRB hydraulic face driver.		