



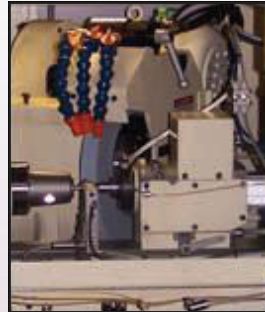
AGN4 Angle Wheelhead Grinder Case Study, September 2006



OD ground to .00018" roundness.



Angular wheelhead configuration with standard pneumatic tailstock.



In-process size control with Marposs MicroAlsar gage featuring the model E9 amplifier.



Customer:	Hydraulic Component Manufacturer	Application:	Poppet Grind (86L20, 57 Rc)
Configuration:	Angular wheel, ALOX 5C Collet chuck, pneumatic 6-axis robot with dual gripper configuration and horizontal pallet station In-process sizing gage Pneumatic operated tailstock		
Process:	Diameter and face multi-plunge grind cycle Dress every five (7) parts 120 parts per hour capability		
Attributes:	Diameter tolerance	+/- .0001"	
	Surface finish	8 Ra (max)	
Notable:	Weldon turnkey of machine, tooling, and process; Integration of customer furnished robot, safety mat, and pallet station		
Featuring:	SBS automatic wheel balancer, Schunk gripper tooling, Epson 6-axis robot, GE Fanuc 21i CNC control, Marposs in-process gage		