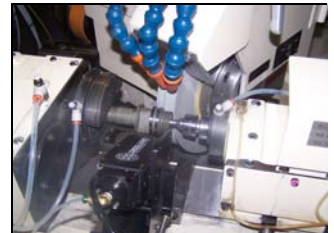




AGN4 Angle Wheelhead Grinder Case Study, June 2005



Customer: Caterpillar, Pontiac, IL *Application:* Injector Valve Body
(steel forging, 62 Rc)

Configuration: Angular wheel, ALOX
Counterweighted driver
3-axis gantry with dual gripper configuration and dual vertical pallet station
Table mounted lateral locator

Process: Diameter and face plunge grind cycle
Dress every five (5) parts
60 parts per hour capability

Attributes: Face flatness 2 micron
Surface finish 8 Ra (max)

Notable: Full Weldon turnkey of machine, automation, tooling, and process

Featuring: CGI lateral locator, SBS wheel balancer, Schunk gripper tooling, GE Fanuc 21i
CNC control