AGN4 Chucking Grinder
Case Study

Customer: Caterpillar, Pontiac, IL
Application: Injector Valve Body

Configuration:
- Angular wheel, ALOX
- Pneumatic 3-jaw chuck
- 3-axis gantry with dual gripper configuration and dual vertical pallet station
- Radial positioning laser system and table mounted lateral locator

Process:
- Face plunge/wipe grind cycle
- Dress every fifteen (15) parts
- 90 parts per hour capability

Attributes:
- Face flatness: 2 micron, 1.67 PPk
- Surface finish: 8 Ra (max)

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

Featuring:
- Keyence radial positioning laser, CGI lateral locator, SBS wheel balancer, Microcentric pneumatic chuck, Schunk gripper tooling