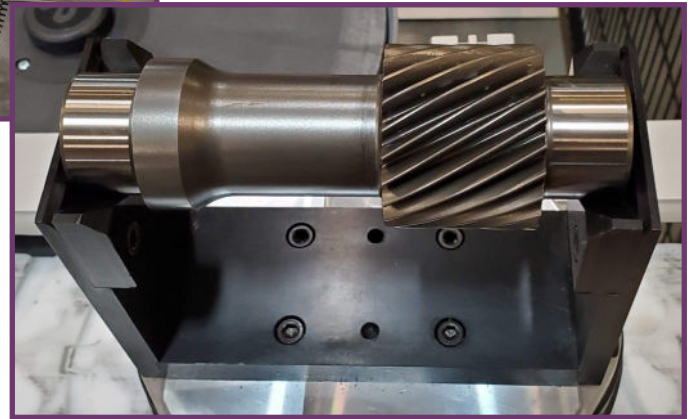
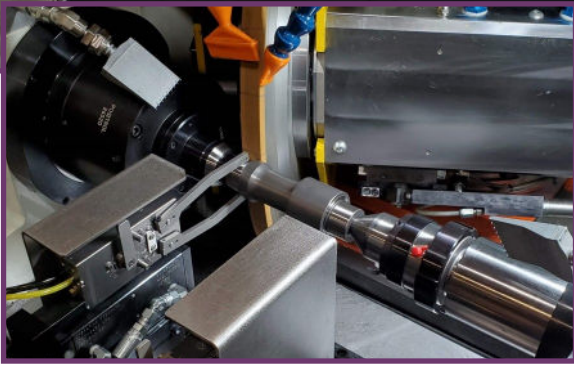


Automated Midas T - EV Shaft Grinder



A heavy duty transmission manufacturer has purchased a Weldon model Midas CNC grinder for their new Electric Vehicle (EV) transmission production line. This grinding process of the (3) different input and intermediate geared shafts utilizes opposing 30° angular approach **GMM** high frequency grinding spindles on a **Fibro** indexing turret wheelhead to grind the bearing journals under dual **CGI** in-process gage control using **SuperAbrasives, Inc.** vitrified CBN super-abrasives. The workcell is tended by a **FANUC** M-20iD/35 6-axis material handling robot with a **Schunk** dual gripper end of arm tooling assembly while shafts are presented via a **FlexLink** powered infeed conveyor. Output of the cell is approximately 90 seconds floor to floor. Diametric tolerances on bearing journals are +/- .005µm with a surface finish requirement of under .8 Ra µm.

Additional System Suppliers:

Balance Systems acoustic emissions monitoring system, **Barnes** magnetic/fabric coolant filtration system, **FANUC** 32i-BT CNC control & linear motors, **Gil Solutions** electric rotary dresser, **Heidenhain** linear precision glass scales on X axis, **HydraCell** high pressure coolant pump, **Noil** mist collector, **Positrol** workholding system, **Renishaw** lateral locator, **SBS** automatic wheel balancer, **Servax** auto door system, **Spindel** frequency inverters, **SuperAbrasives Inc.** rotary diamond dressing roll, **Turmoil** chiller for spindles, linear motors, & coolant, **Weldon** long stroke programmable tailstock



Weldon Solutions offers a full line of CNC OD, ID, and combination grinders. As a FANUC Robotics integrator, Weldon can also address your machine tending, material removal, material handling, and packaging/palletizing needs.

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