

Midas 320S Shaft Grinder



A long time Weldon customer, in need of increased capacity to meet their immediate production needs, purchased a used Weldon model Midas 320S grinder on the open market. This machine, originally put into service in 2007, ran over 1.5 million cycles at a tier 1 automotive supplier prior to decommissioning.

To be able to grind countershafts for heavy duty truck transmissions, this machine needed to be retrofitted with a number of components as well as a full X-axis, wheel spindle, and workhead rebuild to bring those all back to factory specifications to go along with a thorough cleaning. A heavy duty, long stroke tailstock was added to minimize changeover along with a lateral locator, hydraulically actuated face driver, and electric rotary dresser.

These shafts are processed using a multi-diameter plunge and wipe grind cycle under in-process gage control using a vitrified CBN superabrasive grinding wheel. The results are an under 2 minute grind cycle and dressing every 80+ parts.

System Suppliers:

FANUC 16i-T CNC control, **SBS** automatic wheel balancer, **Renishaw** lateral locator, **Dittel** acoustic emissions monitoring system, **Gil Solutions** electric rotary dresser, **CGI** dual in-process gaging system, **FRB** face driver & live spindle tailstock center



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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Contact Weldon today to find out how a new CNC grinder can enhance your manufacturing operation, and increase efficiency and profitability