

Phoenix Dressing Machine



An aerospace component manufacturer was looking to replace an aging offline grinding wheel dresser. The grinding wheels are used in their manufacturing processes on a large number of existing grinders. Their current system is 20+ years old and is not very efficient at rough and finish dressing their aluminum oxide grinding wheels and is no longer able to be built by the original manufacturer.

Weldon selected the Phoenix model for this custom build project to help reduce the machine footprint. While typically a large capacity ID grinder, Weldon designed a custom enclosure for side access where the ID grinding spindles would normally be. This will allow an operator to more easily load the arbor mounted grinding wheel into the custom built driving fixture.

Weldon teamed with MasterCAM to develop a software post processor specific to this application. The dual GII dressing spindles will rough and finish the grinding wheel profile in a more modern format to save a sizable amount of time over their existing process. It will also make better use of the diamond dressing rolls, using both sides of the dressing media to spread out the wear saving in the consumables cost.

System Suppliers:

FANUC 0i-TF CNC control, **PRAB** fabric bed coolant filtration system, dual **GII Solutions** electric rotary dressers, **Weldon** custom arbor mounting & driving system



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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www.weldonsolutions.com - info@weldonsolutions.com
425 East Berlin Road, York, PA 17408 - 717-846-4000

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