



fives cinetic

Landis LT2 Twin Wheelhead CNC Crankshaft Grinder



The industry standard for productivity,
flexibility and cost efficiency

Unmatched Flexibility And Performance

The innovative Landis LT2 Twin Wheelhead precision cylindrical grinder is the most productive and cost efficient flexible crankshaft production grinder in the world. This non-indexing production grinder features two independently programmable wheelheads that can be tooled with CBN grinding wheels for grinding multiple shaft features.

This capability allows tremendous flexibility in developing lean, highly productive processes. In certain applications, it is possible to grind all of the concentric and non-concentric diameters on a crankshaft with only one fixturing using different width wheels on the separate wheelheads as necessary.

Optimized For Crankshaft Processing

Designed for use exclusively with CBN grinding wheels, the Landis LT2 Twin Wheelhead provides an important advantage for controlling critical roundness in grinding crankshaft pin journals. For most crankpin grinding applications, the shaft is supported and driven from the main journal axis, which is directly correlated to the shaft's operation in the engine. The Landis LT2 Twin Wheelhead incorporates the orbital crankpin grinding process in which the grinding wheel precisely follows the orbit of each crankpin about the main journal axis.



Heavy-Duty Box Type
Bed Construction

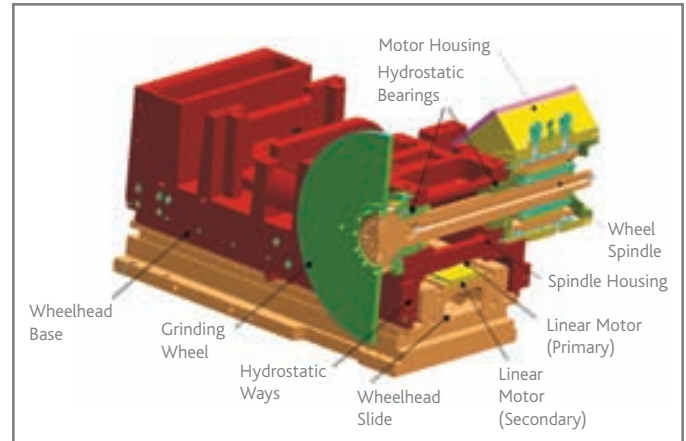
Several crankshaft processing methods are available using CBN grinding wheels:

- Simultaneously finish grind one main bearing diameter with LH wheelhead and one main bearing with RH wheelhead.
- Finish grind main and crankpin journal diameters in a combined operation.
- Finish grind other concentric diameters, radii and face by various sequencing of twin wheelheads.

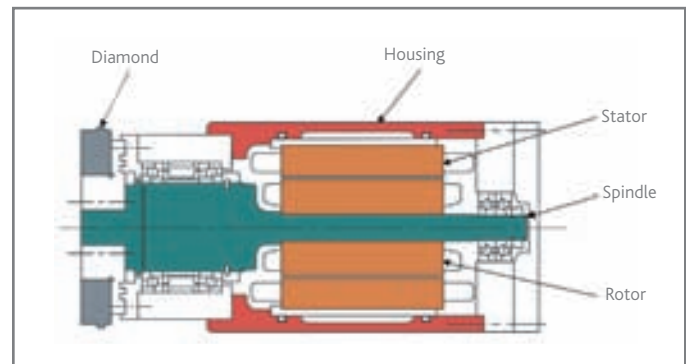
Advanced Technology Features

The LT2 Twin Wheelhead incorporates many advanced features to reliably meet your production grinding requirements. These include:

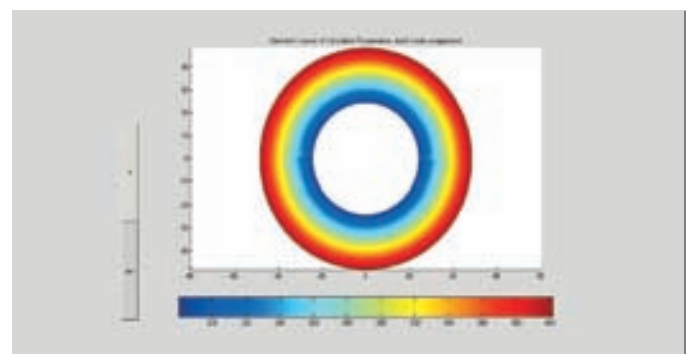
- Constrained hydrostatic ways on the X- and Z-axes deliver high stiffness, accurate, repeatable performance and enable improved contour accuracy.
- Highly reliable, friction-free permanent magnet linear motor drive system improves part quality and allows faster workspeeds.
- Hydrostatic wheel spindle improves finishes, provides consistent maintenance-free accuracy.
- Motorized headstock drive helps improve part quality and allows variable speed work rotation for maintaining constant metal removal rates.
- Motorized front-mounted dresser provides precision wheel truing including wheel profiling capability.
- State-of-the-art open architecture 6400 CNC control system.
- Single hydrostatic/hydraulic unit.
- Environmental guarding.



Permanent Magnet Linear Motor Wheelfeed Drive and Hydrostatic Ways Systems



Rotary Diamond Dresser



Exclusive Thermal Modeling Software