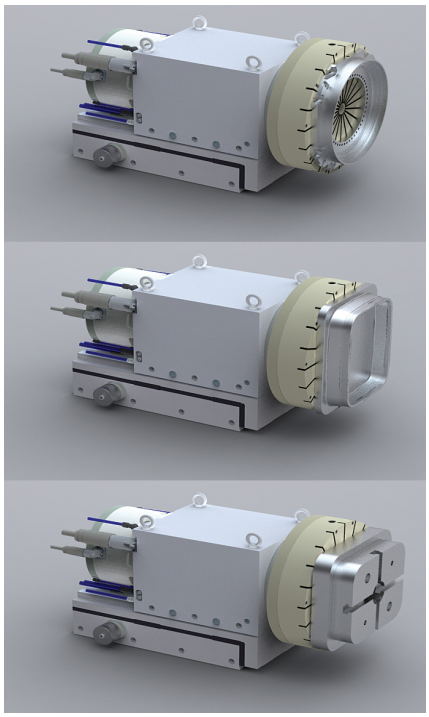
Direct-Drive Workhead and Hydrostatic B-Axis on Cylindrical Grinder

MDT Staff



Kellenberger Kel-Varia CNC-controlled, universal cylindrical grinding machines feature a robust and rigid direct-drive workhead to provide reliable and accurate grinding of large, heavy parts. A powerful torque drive allows heavy parts to be quickly and precisely accelerated and braked with zero backlash during bidirectional movements for increased productivity. A large spectrum of parts and a wide range of geometries can be processed using combinations of cylindrical grinding, OD and ID out-of-round grinding, thread grinding and jig grinding all in one set-up. Advanced C-axis (ultra-high resolution) operation allows precise grinding of grooves and satellite & centering bores.

The direct-drive workhead has an infinitely variable spindle speed from 1 to 500-rpm (with Heidenhain control) with a maximum weight capacity of 750 Nm / 300 kg (660 lbs) with an option of ±60 second micro-correction for easy adjustment of cylindricity. For between center work, a heavy-duty Morse taper 4 tailstock with nitride-coated sleeve runs in sturdy ball-bush bearings to achieve high rates of in-feed even with heavy parts. A sleeve retraction of up to 50mm is pneumatically or hydraulically operated. Maximum weight is 250 kg / 550 pounds between centers.

For more information, visit: www.hardinge.com [1].

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[1] http://www.hardinge.com/