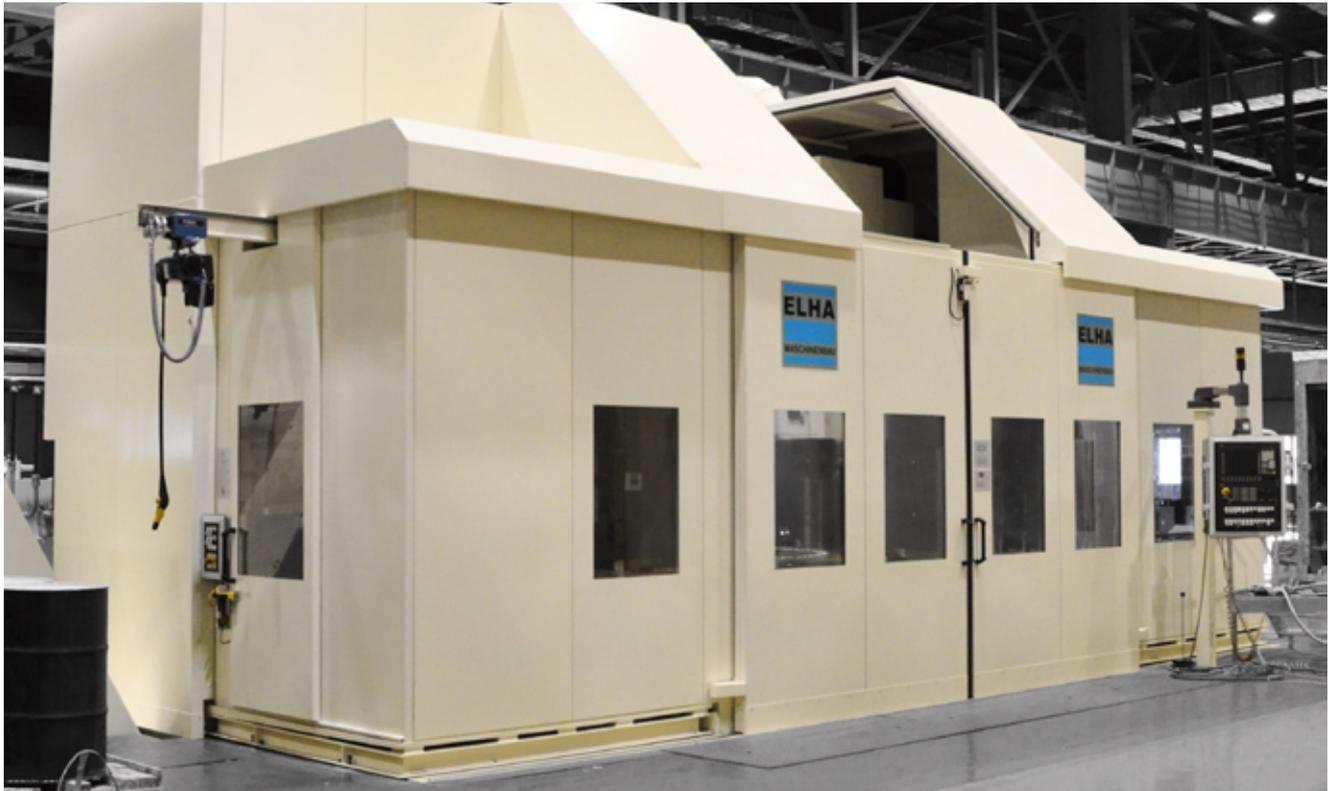


VTM *ht* (hard turning version)

The VTM *ht* is a budget optimized machine which was specially designed for flat and ring shaped parts. Therefore it is the optimal machining solution for large diameter bearings, flanges and gear box parts. The VTM *ht* is capable for a great variety of finishing processes like hard turning, grinding, milling, drilling and threading.

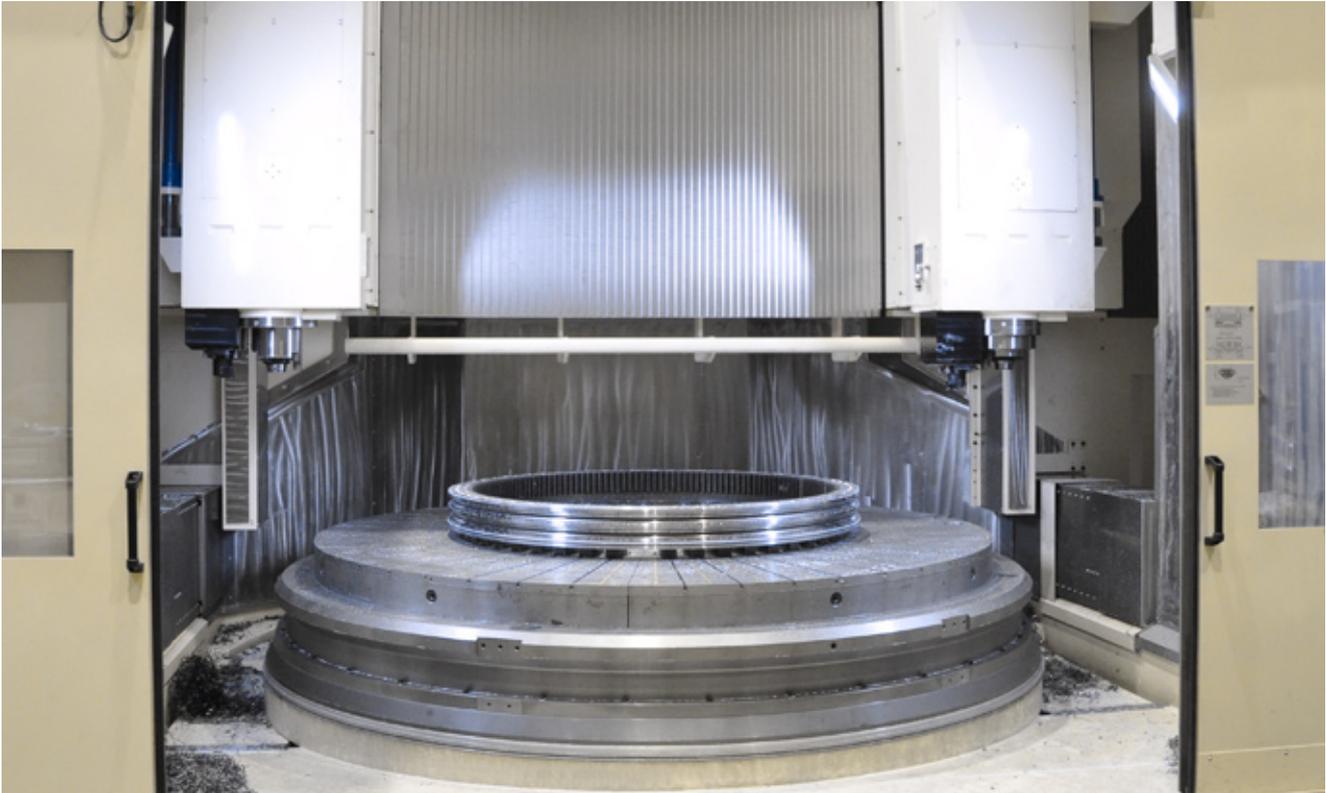


The VTM *ht* uses same innovative SDD direct table drive which ELHA designed for the VTM series. Thus it contains all advantages of this table drive concept like excellent positioning accuracy, outstanding dynamic and machining quality as well as the radial and axial hydrostatic bearings for best machining performance of the VTM *ht*.

For utilization of grinding processes, the VTM *ht* could be equipped with automatic dressing units for renewing of the grinding wheel shape by using dressing rollers. The grinding wheel unit is clamped by HSK-A 100 tool shank with additional clamping device for optimized rigidity during the grinding process.



Vertical turning milling center VTM 602 *ht*

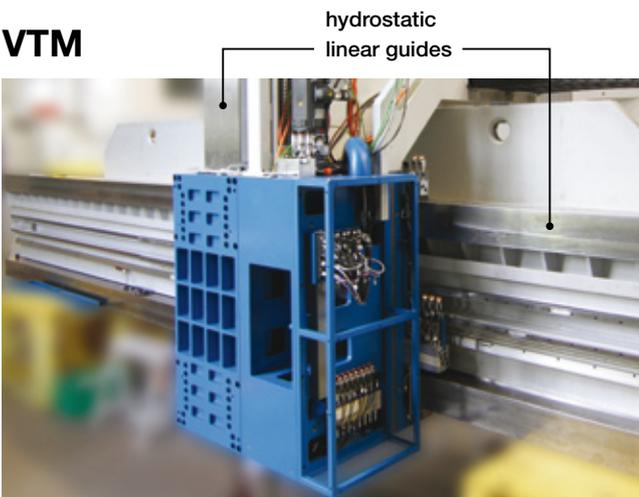


Differences VTM / VTM *ht*

Contrarily to the VTM series, the VTM *ht* uses cross slide work units with broadly dimensioned linear roller guides in the linear axes due to the special design for finish machining of flat, ring shaped workpieces. The vertical travel (Z-axis) is available up to 800 mm.

Another difference is that the VTM *ht* does not have RAM construction with exchangeable work units but separated interfaces for turning tools (Capto) and milling, drilling, grinding tools (HSK). It is also possible to equip this machine with laser or touch probe measuring systems as well as other peripheral process support devices, same as the VTM series.

VTM



VTM *ht*

