

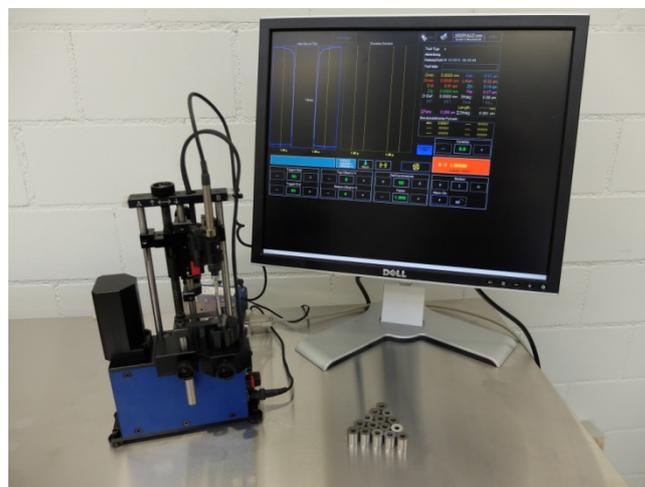
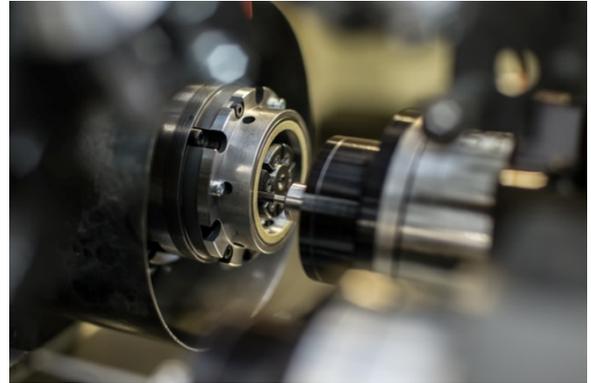
MASTER ABRASIVES

Meister Test Centre reduces "Time to Market"

Meister Abrasives Switzerland has decades of experience in the manufacture and application of specialised high-precision tools for fuel injection components.

Achieving the tight tolerances of grinding the guidance bore and seat of the injection nozzle is one of the biggest challenges in internal grinding. The combination of the grinding tool, quill, and dressing system

creates the foundation for a successful process solution. Extensive technical experience in engineering, production and application is the basis of Meister's technological leadership in this specialist field. With its new test centre Meister can continue to meet industry needs and Master Abrasives as the sole UK distributor for Meister can offer technical applications support to UK based customers.



To continue meeting this challenge in future, Meister is the first manufacturer to have its own internal grinding test centre available, which simulates conditions in bore and seat grinding of injection nozzles. Fundamental to this development environment is a UVA U80 high-precision grinding machine, which is tried and trusted in series production and equipped with the following components:

- 2 internal grinding spindles (100,000 rpm)
- 1 surface grinding spindle (6,000 rpm)
- Workpiece spindle with diaphragm chuck and dressing ring
- Dressing turbine

- Devices for process optimisation

This machine offers the basis for innovative process developments and production-ready optimisation. In addition to the machine, the following measurement equipment is available, providing comprehensive analysis and documentation of the test series:

- Dimensional tactile measurement
- Form testing
- Surface measurement

Meister's development of this Test Centre demonstrates its commitment to being at the forefront of technological advancements in internal grinding. The production-ready use of new developments can significantly reduce lead times and thereby constructively support customers in the continuing development of processes.

Ref – Meister Test Centre – June 2016