

The Saporiti design and manufacture with knowledge and passion machine tools since 1946. Our first ball valve grinding machine was realised in 1984. Our products are continuously up dated to be keep of a latest technology and to offer always a new generation machine to allow our customers to be competitive in the market. We have satisfied end user all around the World.



SAPORITI

MACHINES

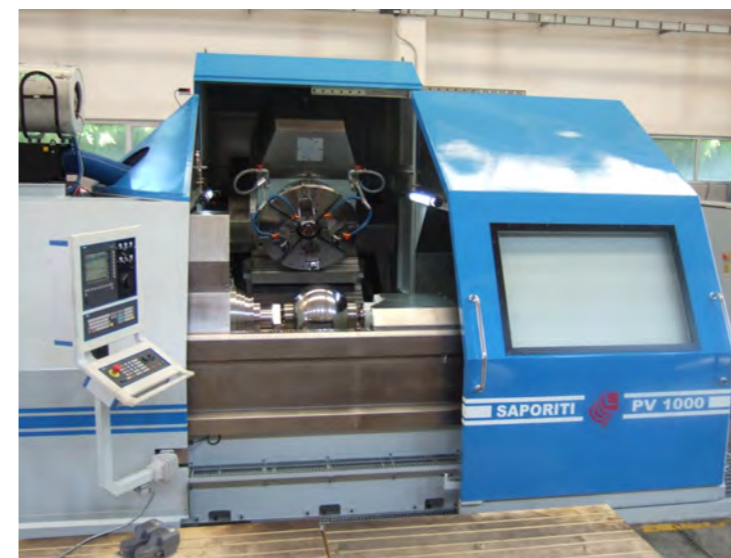
Our Experience Your Success



SAPORITI PV BALL VALVE GRINDING MACHINES



The new generation of valves balls are manufactured especially for metal to metal seats valves and are often coated by extremely hard materials. The ball valves grinding machines series **SAPORITI PV** are available in different sizes to work balls **from 1" up to 72"**. These machines are the latest results of a very long experience to assure a reliable and accurate production to our Customers. The roundness (even better than 0.01 mm 0.0004") and roughness (lower than Ra 0.2) precision which can be achieved can satisfy even the most demanding customers



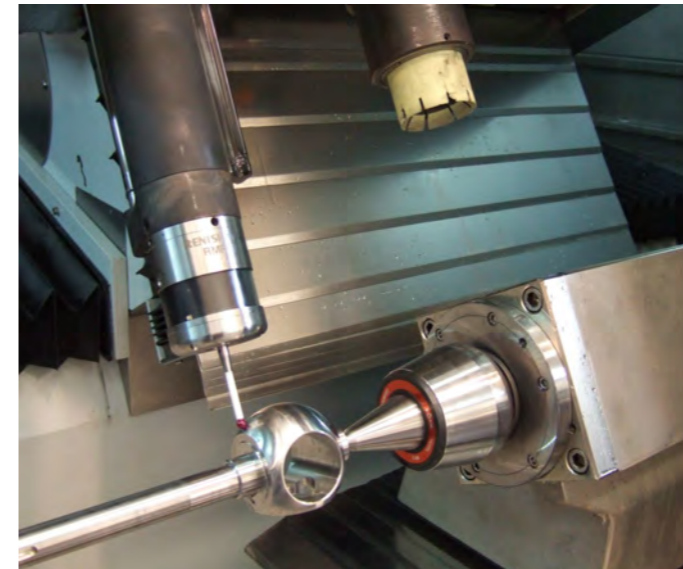
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All the machines runs on roller sliders to assure the max. possible accuracy and the best surface finishing and use latest technology and first quality components. The CNC and motor used are Siemens. Headstocks are manufactured with relevant new generation Torque Motors and the grinding heads use sealed coolant chilled motors. These motors are silent and of latest generation to limit energy loss. In the CNC can be insert customised pages to facilitate the programming and the machine use by the operator.

- relevant quantity of coolant involved and related filter for liquid and air.
- independent chilling unit to keep the coolant temperature constant for the max accuracy of the workpiece
- stainless steel covers



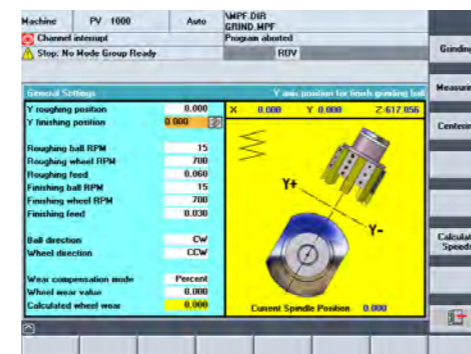
On request could be supplied also tool holder units in two types:

- to work one dimension balls (used on our models PV 250, PV 500 but also on bigger machines)
- To work a range of balls by adapting the wheels jaws at the ball diameters (to cover a wide diameter range and reduce the number of tools required)

All the tool holders can use standard grinding pads and have support to allow the fitting of diamond pads to work coated balls.

Our grinding machines have accuracy test certificate.

On Customer request the models for diameters bigger than 1000 mm could be equipped by arms or sliders for light turning operations also if turning is strongly never recommend on grinding machines.



Main features of these machines are :

- high machine weight
- CNC Controlled **Y axis** for the micro vertical movement of the Grinding tools
- Wi Fi Renishaw probe for the easy founding of ball centre This option combined with the possibility to move the Y axis allow the perfect centering between Grinding wheel and valve centre to archive the required roundness

