

NEW



Product information

QXD 200

Disc eroding machine for the complete processing of PCD-tipped tools



QXD 200

The idea: Increased productivity and future safety in eroding and grinding of PCD-tipped tools.

Business field metal working: What offers the best solution for the most flexible eroding and grinding of PCD-tipped tools in the area of up to 250 mm diameter and 200 mm long? Our answer: The new QXD 200 platform concept with 6 simultaneously controlled CNC axes for complete machining even of complex tools.

That's how the QXD 200 gets a winning margin edge with its flexible use of various eroding and grinding wheels, a factor that allows the perfect preparation of the PCD-tips and of the tool body. The result: The most modern technology that sets new standards in productivity, precision, and profitability.

The concept: Measuring, eroding, grinding, polishing – complete in only one clamping.

The base of this particularly economical and future-oriented platform concept comes from the most modern CNC and drive technologies, which assure one primary advantage: Complete machining in only one clamping, from the fully automatic measuring through eroding and grinding down to polishing. Six CNC axes guarantee this; they make manual intervention unnecessary and reduce significantly the set-up times.

At the same time, the QXD 200 is made for the future. With its technical design, it offers a high degree of room for development of new cutting-edge geometries and guarantees into the future for its users a high degree of coverage for the machining of various tool variants.

“Whoever is thinking of the future must be ready to tread new paths.”

The equipment



With path interpolations controlled simultaneously in 6 CNC axes, the QXD 200 offers you tomorrow's solution.



Through the integrated function of "polishing," the tool is machined to a complete state in one clamping.

The technology: Guarantee for process safety, machining quality, simple maintenance, and a top notch energy balance.

Because of its extraordinary system rigidity and vibration damping by the one-part machine stand made of polymer concrete, the QXD 200 provides every tool with a high machining accuracy and a perfect surface quality. The stable dressing unit stands for enormous process safety in dressing of electrodes — precisely in unmanned operation. These technical innovations are supplemented by efficient direct drives, which open up further advantages: Extremely high dynamics, the highest maintenance friendliness, and an outstanding energy balance.

The innovation: More precision and less wear on the work piece interface by a novel axial arrangement.

If you want to improve, you must change your thinking. The result is the QXD 200: A novel arrangement of the axes, the tool is machined in a suspended position. And this pays off: Every tool can be eroded, sharpened, and polished with the utmost precision. By applying this new concept, a deflection of the tool due to its own weight belongs to the past. At the same time the work piece interface is unaffected by debris, and is subject to less wear and tear.

Even more guarantees of increased productivity, process safety, and flexibility include among others the obligatory tool changing unit, as well as appropriate cooling nozzles for the optimal flushing conditions in machining, or the various work piece interfaces (HSK/SK), which allow extremely fast new setups.



Eroding the profile of a tool.



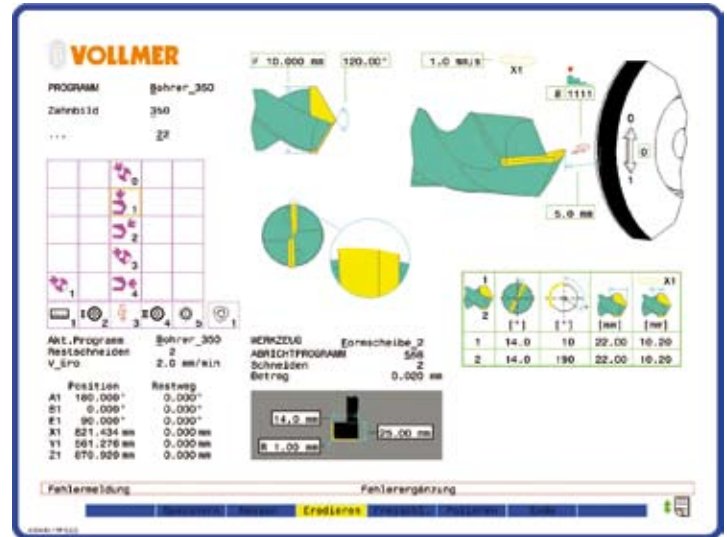
Eroding the plunge-in PCD-tip of a drill bit with the new software package - no problem!

The operability: Simple, safe, and efficient with globally successful VOLLMER menu technology.

The well-known, proven VOLLMER operational philosophy applies to the QXD 200 as well: Quick and simple up to maximum efficiency. That is why the globally successful VOLLMER menu technology provides short programming times and short training times, and therefore enables the fast and flexible use of operators. The whole system is managed by one control mechanism only and provides safety for data input through the greatest possible graphic support.

Automation: Flexible solutions for unmanned shifts round the clock

Magazine disc, palette magazines, and external interfaces: Versatile possibilities for work piece data storage and feeding create the best possible conditions for unmanned shifts round the clock, and thus provide for maximum profitability. Loading and unloading of the work piece magazines can be done parallel to the automatic machining mode. The integrated tool changer for up to 6 different eroding, grinding, and polishing wheels guarantees perfect machining of numerous work piece variants.

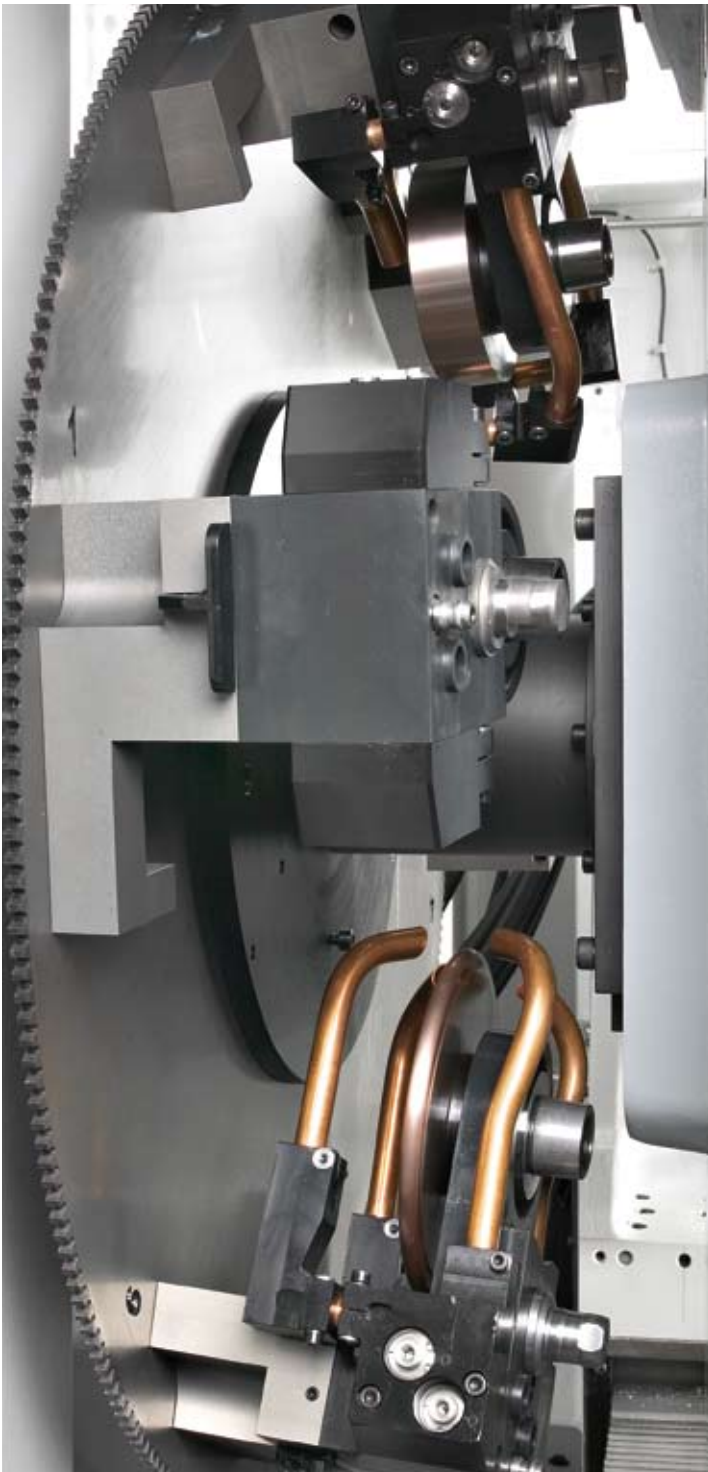


“We think that complexity must remain manageable. We take that into account with the proven VOLLMER operational philosophy.”



Reliable and efficient: Automation made by VOLLMER. Tool changing process of a PCD-tipped cutter.

The highlights: Future orientated VOLLMER technology



Integrated 6-slot tool exchanger

A universal machine for eroding, grinding and polishing various PCD-tipped tools up to 250 mm in diameter and 200 mm in length in production and service mode.

- Expansion of the QX series in proven future-oriented technology.
- Simultaneously controlled path interpolation of 6 CNC axes.
- Combined machining: Measuring, eroding, grinding, and polishing.
- All-embracing automation.
- Integrated 6-slot tool exchanger.
- Specially developed machine and generator for PCD- and PCBN-tipped tools..
- Direct drives.
- Integration of all peripheral devices.
- Well-known VOLLMER operational philosophy.



Relief grinding of the frontal tip of a shank-type cutter.

VOLLMER: Path-breaking technologies for the sharpening of PCD-tipped tools.

CHPD - four letters that in 1985 marked the entry of VOLLMER into the development of the latest technologies for the sharpening of PCD tools.

Only three years later came the next "thunderbolt": The innovative machine program with products like the QR 20 P and the QF 20 P for the eroding of PCD-tipped circular saw blades of the woodworking industry.

In 1994 the company introduced the QM 71 P, its first disc eroding machine. Further developments in the area of disc and wire eroding machines have led most recently to today's high-tech solutions: The QXD series with path interpolation in 6 simultaneously controlled CNC axes.

You can experience the latest results of 20 years of successful research and development on the GrindTec 2008. Or, as usual, direct from VOLLMER.



Highlights of VOLLMER machines for the past 20 years: CHPD, QR 20 P, QF 20 P, QM 71 P, QWD 70 P, and so on



VOLLMER - full line

Disc eroding machines

QR 270

QM eco

QF 270

QXD 200

QXD 400

Wire eroding machines

QWD 750

QWD 750 H

QWD 760

QWD 760 H