/ PRESS INFORMATION // FEBRUARY 2017

Q becomes V – wire erosion tools which will keep your finger on the pulse

Biberach an der Riß, 14th February 2017 – The new wire erosion machine from VOLLMER, the German sharpening specialists, is called the VPulse 500. The VPulse 500 is not just the successor to the tried and tested QWD series; it is also equipped with a new erosion generator and the most advanced technology. Using this machine, PCD (polycrystalline diamond)-tipped tools can be produced quickly and precisely in large quantities. Modern machine kinematics ensure high profile accuracy in both production and maintenance. VOLLMER's operating concept for the VPulse 500 is designed around intuition: The touchscreen acts as a highly developed human-machine interface, simplifying programming and control and guaranteeing quick, error-free work.

With the VPulse 500 wire erosion machine, VOLLMER has begun a new chapter in its long history of eroding tools. For a quarter of a century, the sharpening specialist from Biberach, Germany has been developing erosion technologies which – until now – have been brought to life in machines with designations beginning with Q. But V is the new Q: The VPulse 500 is the successor to the QWD machines and comes as standard with technology that enables high-quality PCD-tipped tools to be manufactured at incredibly high productivity levels, whether for production or servicing. At the human-machine interface, the adjustable control panel, which includes a touchscreen, offers user-friendly menu navigation and intuitive operation, meaning that even complex tasks can be carried out after a short training period. The PCD tools are measured and eroded in one clamping process in which simultaneous path interpolation along five CNC axes guarantees that milling cutters, drills and multi-stage tools are machined precisely. The

machining process is carried out with unsupported clamping or, optionally, with a counter point unit for the machining between the tool centers.

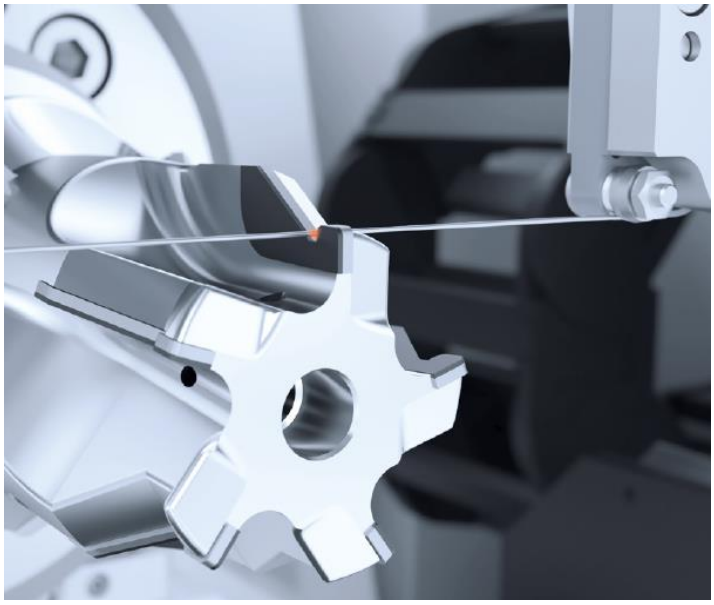
The beating heart of the new VPulse 500 is the VPulse EDM generator technology. This newly developed high-performance generator ensures higher stock removal rates or improved surface quality. As is the case for the previous QWD machines, the eroding wire for the VPulse 500 also functions as an electrode. The wire is guided close enough to the workpiece that a spark is generated between the electrode and the workpiece and removes the material from the PCD-tipped cutting edge. Thanks to the fine eroding wire, complex geometries and the smallest inner radii can be machined precisely – these structures are typical of multi-stage tools and bell-shaped tools.

The VPulse 500 integrated technology database makes handling preconfigured parameters simpler and improves its user-friendliness, as the material-specific machining programs can be selected in no time. Depending on the requirements of the tool manufacturer, the technology database can be added to individually. Intelligent automation solutions allow the wire erosion machines to be operated on a multi-shift basis, or in unmanned operation at weekends. Workpiece storage for the VPulse 500 is available for 16, 28 and 65 workpieces. PCD tools weighing up to 25 kilograms can be machined using the VOLLMER machine. Workpieces with a length of up to 500 millimeters and a diameter of up to 320 millimeters can be accommodated in the interior space.

"The VPulse 500 marks the beginning of a new era of wire erosion for us – not only in terms of technology and applications, but also in our naming style," states Dr.-Ing. Stefan Brand, CEO of the VOLLMER Group. "The V stands for VOLLMER and the second part of the name describes the technology. 'Pulse' refers to the generator technology which is used in the VPulse 500 and sets a faster pace for the erosion process."

(approx. 4000 characters)

Press images



Caption: The wire in the VOLLMER VPulse 500 wire erosion machine is guided close to the workpiece until a spark is generated and removes the PCD material.

Caption: Q becomes V – the new generation of VOLLMER wire erosion machines is called the VPulse 500 and will replace the previous QWD-series machines.

Caption: Dr. Stefan Brand, CEO of the VOLLMER Group: "The VPulse 500 marks the beginning of a new era of wire erosion for us – not only in terms of technology and applications, but also in our naming style."

About the VOLLMER Group

With its comprehensive range of machinery, the VOLLMER Group – which has sites in Germany, Austria, Great Britain, France, Italy, Poland, Spain, Sweden, the USA, Brazil, Japan, China, South Korea, India and Russia – enjoys global success as a tool machining specialist in terms of both production and service. The technological leader's range of products contains the most advanced grinding, eroding and machine tools for rotary tools, circular saws and band saws in the wood- and metalworking industries. In offering this, VOLLMER relies heavily on tradition and the company's strengths: Local branches, quick decisions and rapid action by a family-run company. The VOLLMER Group currently employs approximately 700 workers worldwide, with around 500 of these at the main headquarters in Biberach alone, including more than 50 trainees. The company invests around eight to ten per cent of its turnover in the research and development of new technologies and products. As a provider of technology and services, the VOLLMER Group is a reliable partner to its customers.

Further information and relevant images are available at:
http://www.vollmer-group.com/us/information/press.html

Link to VOLLMER's Facebook page:
https://www.facebook.com/vollmerofamerica/

Contacts for journalists
VOLLMER of America Corp.
Peter Allen
President
(+1) 412-278-0655
E-mail: p.allen@vollmer-group.com

VOLLMER of America Corp.
Tatjana Gruber
Marketing Assistant
(+1) 412-278-0655 ext. 225
E-mail: tgruber@vollmer-us.com