

VProfile

//////// ROTARY TOOLS //

Wire erosion machine for reliable profiling
and dressing of diamond grinding wheels



//// DIAMOND GRINDING WHEELS // PROFILING //////////////////////////////////////

PROFILE DIAMOND GRINDING WHEELS RELIABLY USING ELECTRIC DISCHARGE MACHINING. IT HAS POTENTIAL: STREAMLINED GRINDING WHEELS WITH A MUCH HIGHER REMOVAL RATE AND SIGNIFICANTLY IMPROVED OPERATING LIFE. TAKE ADVANTAGE OF THESE BENEFITS WITH OUR NEW **VProfile** MACHINE – DESIGNED SPECIALLY FOR PROFILING DIAMOND GRINDING WHEELS WITH CONDUCTIVE BINDING MATERIAL USING WIRE EROSION.

ACHIEVE MAXIMUM PERFORMANCE: VProfile.



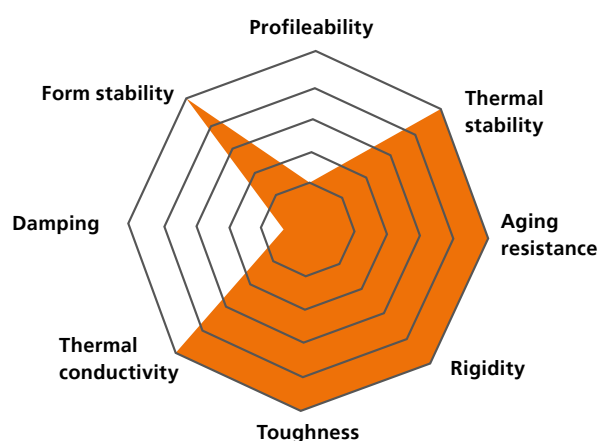
//// **ERGONOMIC OPERATION**

Flexible, height-adjustable and pivoting control panel, optimal view of the machine

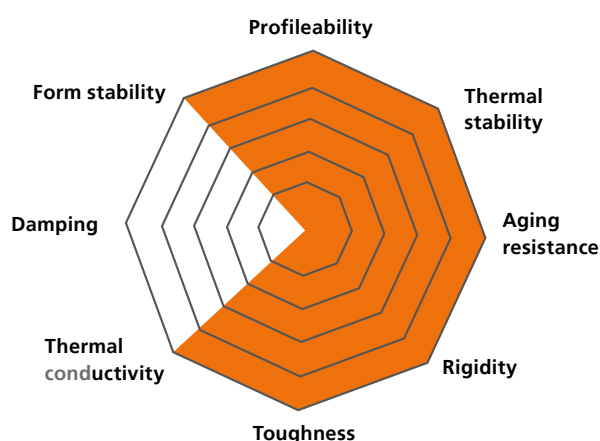
/// THE BENEFITS

BENEFITS OF THIS PROCEDURE:

The tailored erosion process removes the conductive binding material around the electrically non-conductive diamond grain, causing the grinding grains to fall away. This results in an optimum topography of the abrasive coating. More specifically, it means there is high grain protrusion and diamond grains which are not already damaged while achieving a high grain retaining force. Depending on the binding material and grain size, the contour accuracy obtained is in the low μm range. By contrast, with mechanical dressing, the diamond grains partially lose their sharpness and break away easily.



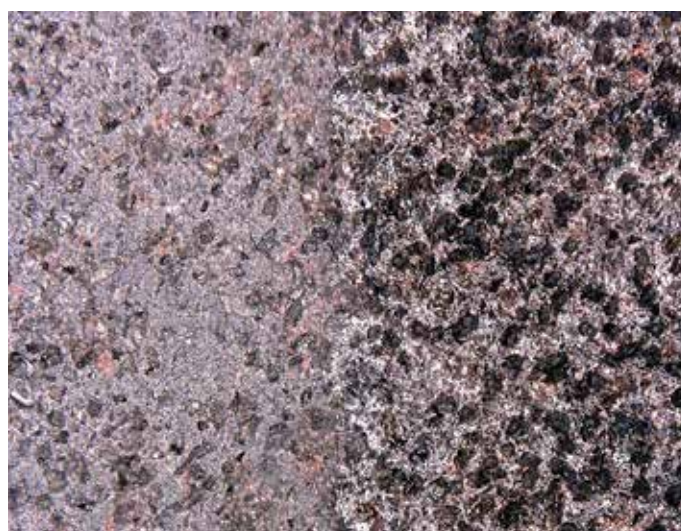
/// Mechanical dressing



/// Dressing using electrical discharge machining

BENEFITS OF VProfile:

- /// Perfect results: A special process technology and specially erosion parameters developed ensure high grain protrusion and optimum contours
- /// Greater operating comfort: A user-friendly operating concept and easy programming mean that you are fully in charge
- /// Maximum reliability: With the **VProfile**, complex geometries and very small internal radii can be machined, including multiple grinding wheels in one set-up
- /// Reliable and fully automated machining: With its multi-axis kinematics, the **VProfile** measures and erodes every diamond grinding wheel automatically. In addition, the machine can be equipped with various workpiece storage options for unmanned machining
- /// Ideal corrosion protection: Using a hydrocarbon-based dielectric protects the wheel packages from corrosion
- /// Increased flexibility: An optional counter point for machining between centres is also available



- /// Left half of the picture: dressed mechanically
Right half of the picture: dressed using electrical discharge machining



/// SPECIFICATIONS

Workpiece

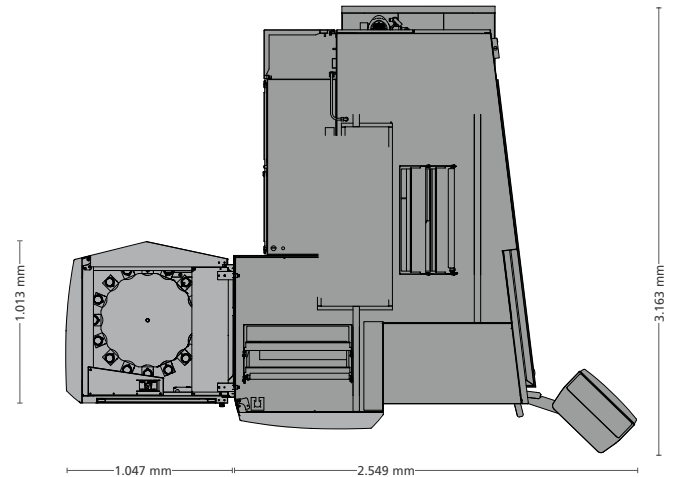
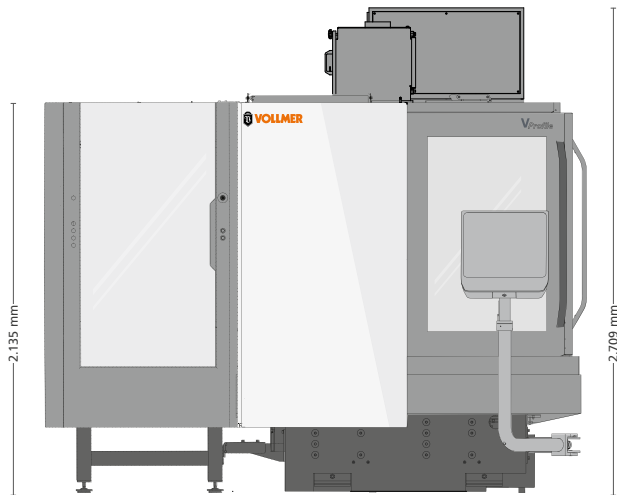
Diameter	up to 320 mm *
Length	up to 500 mm
Weight	25 Kg **
Carrier system	HSK50 / HSK63 / Between centres

Tool

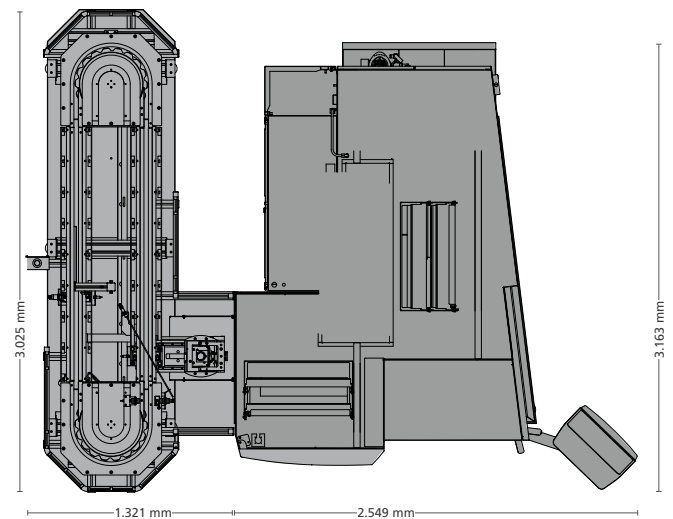
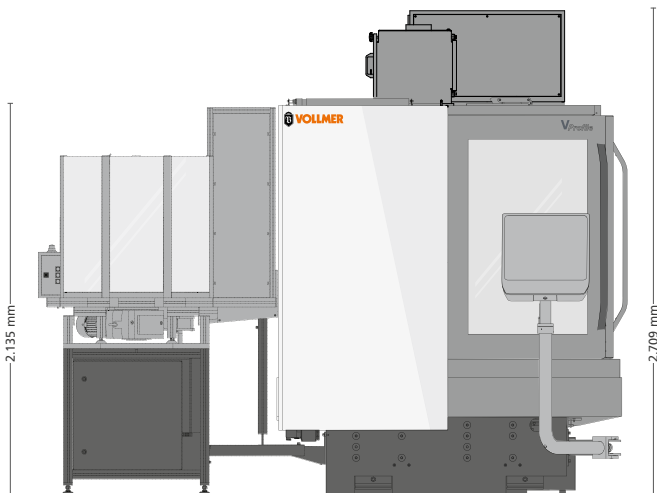
Wire dia.	0.1 mm / 0.15 mm / 0.25 mm
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* automated up to 300 mm // ** automated up to 20 Kg

We reserve the right to make design changes in the interest of technical progress. Patent pending.



/// MACHINE DIMENSIONS VProfile with HR



/// MACHINE DIMENSIONS VProfile with HC 5