

Kellenberger presents new robot automation for VOUMARD 30

The VOUMARD 30 internal grinding machine, which was launched in 2023, complements the high-precision internal grinding expertise of the Voumard brand with a machine for all industries whose main focus is on simple internal grinding operations in small and medium series. The VOUMARD 30 is designed for workpieces up to 150 mm in length and 150 mm in diameter. High-quality internal grinding spindles ensure the best grinding results with short cycle times. They are available with speeds from 45,000 to 120,000 rpm. Other outstanding features include the high-precision workhead and a high-precision X/Z cross table. With a footprint of 1.80 x 1.80 m, the VOUMARD 30 is particularly suitable for small and medium-sized companies. With its excellent price/performance ratio, it is also an ideal entry-level machine.

Kellenberger has now developed the REX robot cell, a tailored automation for the VOUMARD 30 with a very small footprint. Patrick Zünd, product manager, played a key role in realising this integrated automation: "Grinding was always the last process in production to be automated. Today, more than 25 percent of all enquiries are machines with automation. In the case of smaller standard machines, automation is often already included in the machine design."

The REX automation system was specially designed for the VOUMARD 30 and structurally anchored in the machine. It is very compact and increases the footprint of the VOUMARD 30 by just 500 mm in width. The loader is integrated into the machine panelling, but forms a separate mechanical unit. The double gripper, raw/finished part gripper, for inner diameters from 14.5 mm and outer diameters from 4.5 mm has gripper jaws with grid option and a blow-off nozzle.



The REX loader automates the VOUMARD 30 without taking up much space. The loading access to the machine room is closed during processing.

The machining area is separated from the automation system by a lockable loading hatch, which is open during workpiece changeover. The pallets are changed manually via a side door. To load and unload the pallet, pallet size: 400 x 600 mm, it is pulled out of the enclosure using a device.

The REX automation system is designed for chuck components \varnothing 10-100 mm; L < 100 mm with a maximum weight of 2 kg. The workpiece changeover time is approx. 12s without clamping time. The Rex loader has its own control system with setup assistant for quick changeover to a new workpiece. In addition to the universal loaders, many other automation solutions are available in the Kellenberger portfolio. The design department at Kellenberger develops customised solutions for special requirements. The dressing options on the VOUMARD 30 have now been significantly expanded. In addition to the fixed holder, the standard solution for use with one spindle, a rotating holder for CBN and diamond wheels and a dressing bell for small diameters up to 30 mm are available.

The VOUMARD 30 is equipped with a FANUC 0i control system with the latest Kellenberger BLUE Solution software generation, which is now standard on all Voumard and Kellenberger grinding machines. The VOUMARD 30 can be equipped with automation and the automation is integrated into the machine casing.



Compact machine, compact automation. The footprint of the of the VOUMARD 30 with robot cell is just 2.30 x 1.80 m.

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