WPG 7 CNC from EMAG Weiss:

Ensure rapid external grinding processes in the smallest of spaces

**In many areas of application, it is uneconomical to use oversized universal cylindrical grinding machines for the external machining of smaller components - a lot of floor space is lost and the functionality is not fully utilized. With the new WPG 7 CNC external grinding machine, EMAG Weiss demonstrates another way of grinding workpieces with a maximum length of 250 millimeters. The very small machine requires only a minimal footprint, but at the same time features a whole range of high-tech components for flexibility and productivity. What is important in detail?**

If you want to finish small and medium-sized components, you may not need a large grinding machine, is the simple credo of EMAG Weiss with regard to the WPG 7 CNC. The purely external cylindrical grinding machine fits on two Euro pallets and can be easily transported to its location by crane as an easy to set up machine. The grinding process can then be started immediately - without compromising on quality or process reliability, as the WPG 7 CNC has negligible heat build-up thanks to its rigid design. In addition, high-precision in-process measurement with proven Marposs technology, which works independently of the cycle time during the machining process, is available as an option.

**Dialog interface ensures productivity**

Straight or angled external grinding wheels are used, which have a maximum diameter of 500 millimetres, and can of course also be profiled depending on the task. Conversely, this means that it is not possible to integrate an internal grinding wheel and there is no B-axis for swiveling the headstock. Instead, the rest of the WPG 7 CNC is a state-of-the-art solution including highly dynamic axes, a powerful and controllable grinding wheel drive and a workhead with stationary or live center (MK4/MK5 or W20/W25). The graphical dialog interface of the control panel is also important for the productivity of the solution. It is based on a Fanuc control system and considerably simplifies the input of technology parameters for certain cycles. The basic version of the control already includes all common grinding cycles.

Last but not least, many users are interested in the fact that EMAG Weiss offers this solution with automatic or manual loading. Many individual linkages can also be implemented around the machine because the specialists have developed their own linear gantry for the WPG 7 CNC, which is virtually integrated into the housing. It first removes the raw parts from an approximately two-meter-long chain conveyor belt, and then feeds them into the work area from the side at high speed. Once the process is complete, the finished parts are returned to the conveyor belt via a gantry. The whole process is controlled simply by a machine panel.

**Already used extensively**

Under these overall conditions, the WPG 7 CNC is an ideal solution for purely external grinding processes on smaller components with a maximum length of 250 millimetres and a maximum weight of 30 kilograms. Thanks to the existing automation solution, medium quantities can also be completed at high speed. Dynamic axes and drives ensure fast grinding processes and the intuitive dialog control ensures uncomplicated changeover processes. Current market successes show that this approach may interest many users since the machine is in frequent demand at EMAG Weiss and has a proven track record.

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The small "easy to set up machine" has a footprint of just 1.8 x 2.4 m.

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The grinding wheels in the WPG 7 CNC have a maximum diameter of 500 mm and a maximum width of 80 mm.

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The machine is ideal for the production of many small shafts and pinions in medium quantities.

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The interior is easily accessible after opening the large front door.

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