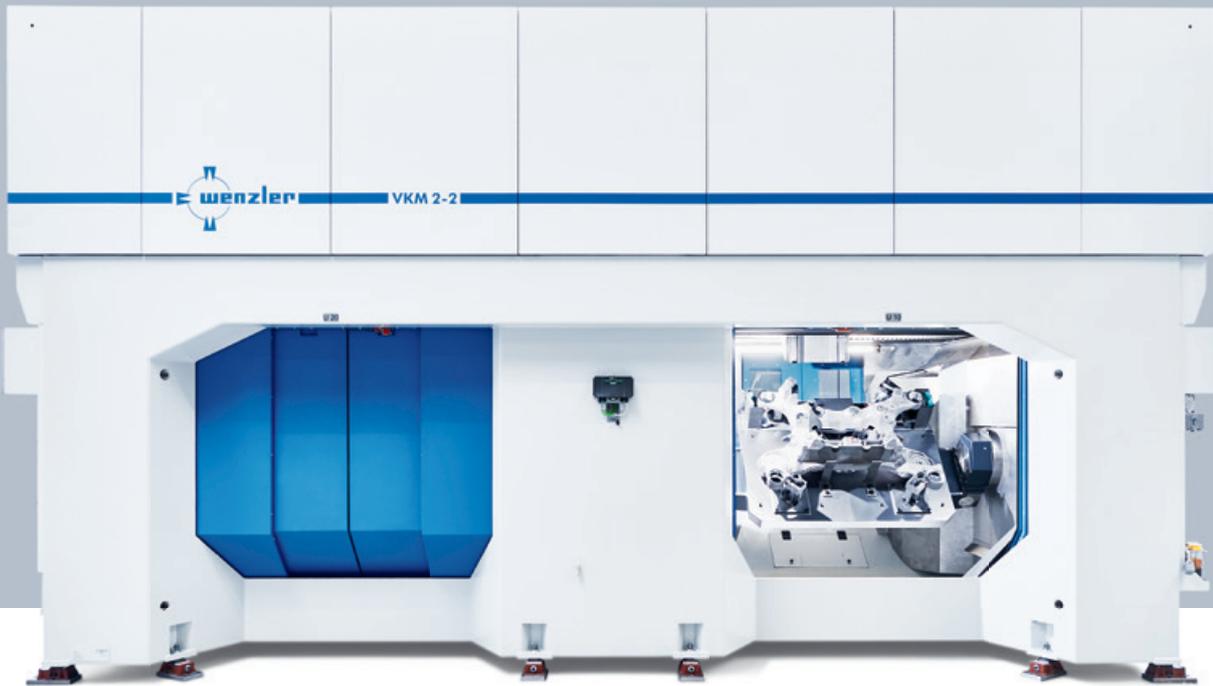


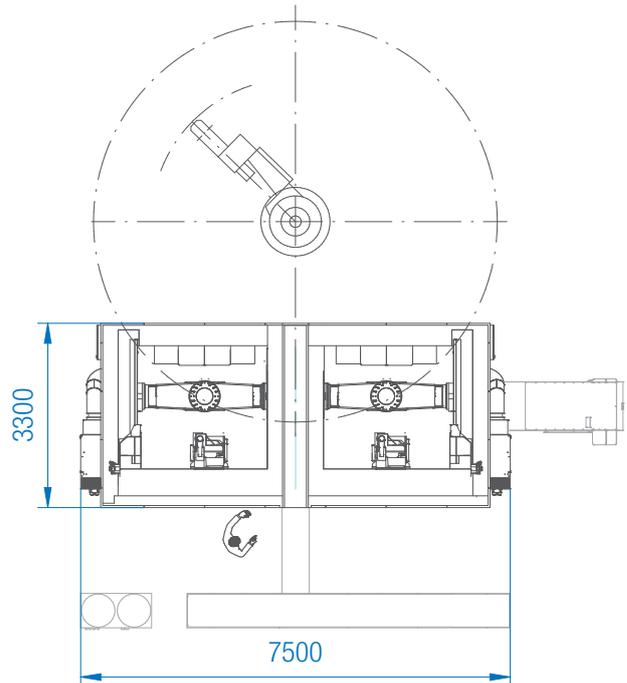
TRUE GREATNESS
FOR STRUCTURAL COMPONENTS
IN SERIES LIGHTWEIGHT DESIGN
Wenzler VKM



Wenzler VKM 2 – two spindles, two autonomous centers

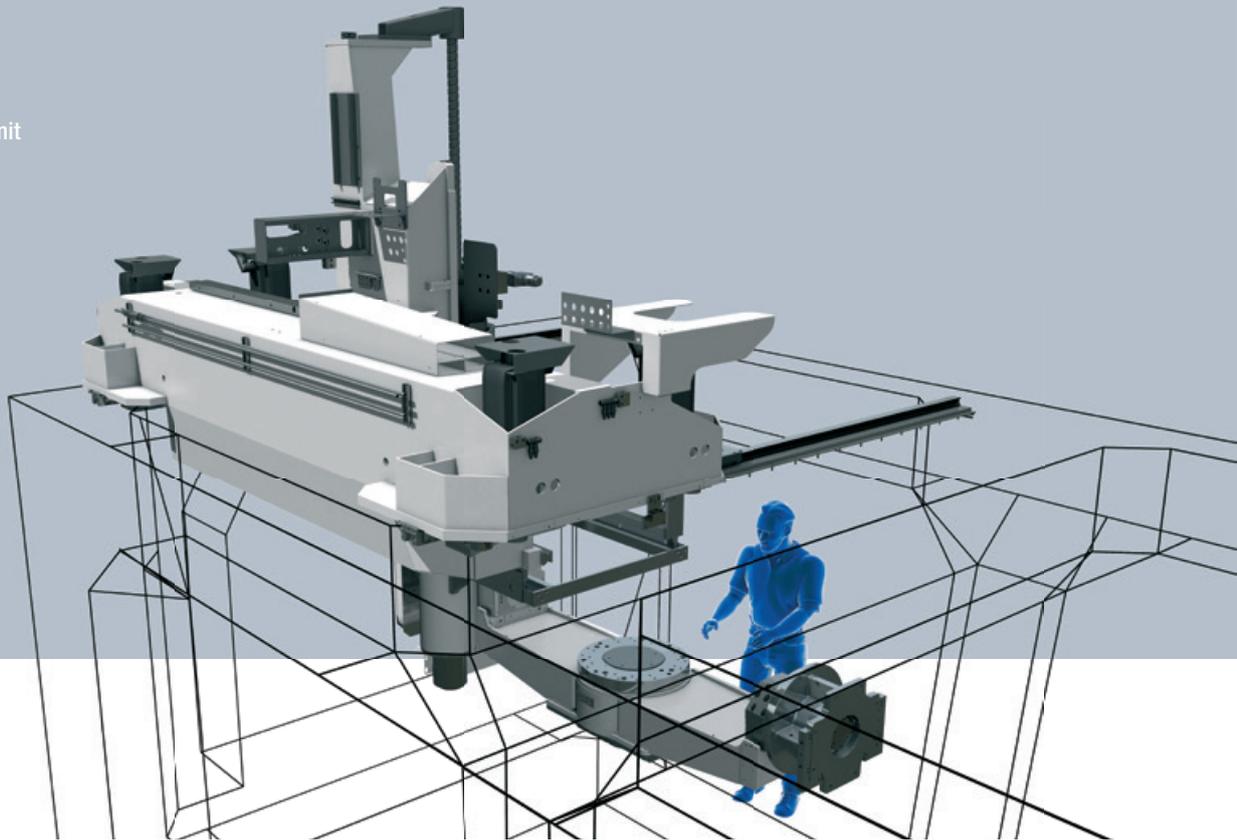
The Wenzler VKM 2 consists of two autonomous 5-axis machining centers and integrates two VKM-type machines into one machine base. The compact design enables the VKM to duplicate without limiting accessibility.

This design provides you with two 5-axis centers offering optimum loading and unloading processes on a floor area of 7500 x 3300 mm – a substantial advantage for layouts optimized for material flow. Both centers work autonomously, only sharing the control and power units.



Front axle subframe

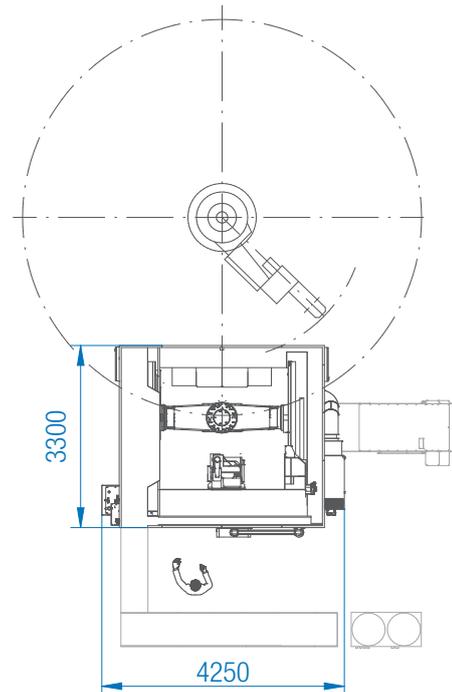
Made for great tasks:
Wenzler processing unit



Wenzler VKM – think big for better machining

The consistent design of the Wenzler VKM for structural components offers fundamental advantages. The strengths of the vertical machining center include, among others, optimum automation capacity, free chip fall and high agility.

The axle configuration featuring the translational axes in the tool and the rotative axes in the work piece axis allows for the integration of large travel ranges with dimensions of 1500 x 1250 mm on a floor area of 4250 x 3300 mm. At the same time, the machining center is well accessible for the machine operator and during loading and unloading. The position of the control cabinet can be freely chosen according to the layout.



Front axle subframe



Wenzler VKM – an agile machining center

The Wenzler VKM features special construction characteristics offering decisive advantages in industrial application. A stable, self-supporting and vibration-damping cube forms the machine base.

This cube carries the 3-axis unit and offers access to the machining area from two opposite sides. Round axle suspensions and magazines are integrated into the remaining side openings. To increase agility and economic efficiency, the cube has a steel monocoque design and the monocoque is filled with a vibration-reducing and self-hardening special material (Hydropol®).

Technical highlights of the vertical 5-axis machining center:

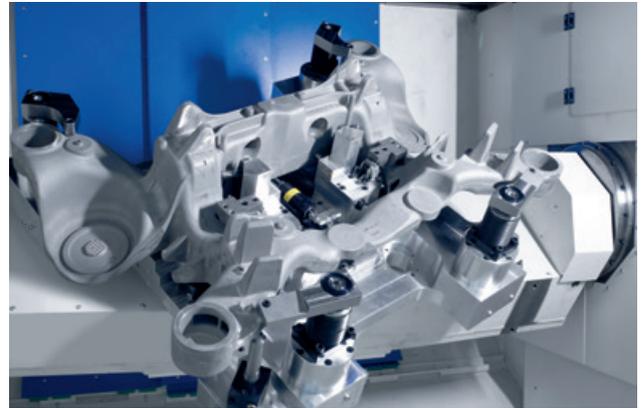
- Large travel ranges
- Tool change via pick-up
- Lightweight moving masses provide high speeds with steep acceleration ramps
- Easy accessibility from two sides
- Manual and automatic loading and unloading
- Optimum chip flow
- Minimum quantity lubrication
- Rotary axes are driven directly



Cross beam



Front axle subframe

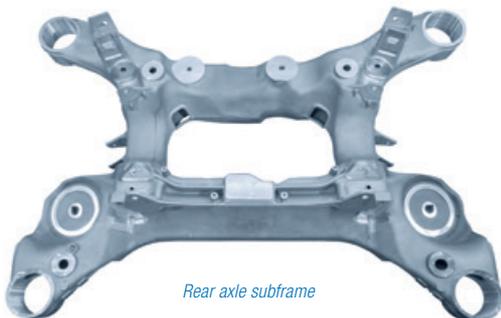


Wenzler process competence

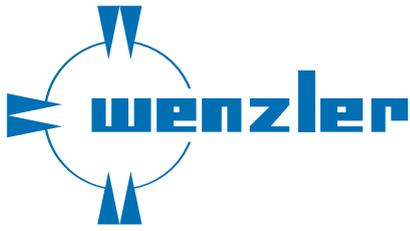
As turn-key machine constructors, we offer you the entire machining process from planning to implementation. What is more, we offer automation for your entire installation and integrate all participants of an extended value chain. All participants can be visualized and their primary functions can be controlled by a central computer. The integration of machine and operating data collection interfaces is also part of our portfolio.

Ready for Industry 4.0 now

Our machine type Wenzler VKM can be perfectly integrated into your smart factory. The installation is equipped with an intuitive touch control that allows for an up-to-date operation in everyday working life. At the same time, evaluation and visualization of process data provide for process flow transparency. Internet connection facilitates maintenance and service processes.



Rear axle subframe



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HELLER

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Wenzler VKM – Technical data

Working area

▪ X axis	1500 mm
▪ Y axis	1250 mm
▪ Z axis	880 mm

Feed rate

▪ Rapid travers	
▪ X axis	100 m/min
▪ Y, Z axis	100 m/min
▪ Axis acceleration	
▪ X, Y axis	7 m/s ²
▪ Z axis	10 m/s ²
▪ Jerk	150 m/s ³

Table load

▪ Max. weight	400 kg
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Work spindle

▪ Spindle taper	HSK 63
▪ Speed range	16000 min ⁻¹
▪ Power S6/40% ED	34 kW
▪ Maximum torque	85 Nm

Tool magazine

▪ Places	40
▪ Length	520 mm
▪ Max. Ø (adjacent space free)	205 mm
▪ Max. tool weight	12 kg
▪ Load capacity	200 kg
▪ Tool change time	2.5 s

HSK 100	HSK 100
10000 min ⁻¹	12000 min ⁻¹
40 kW	90 kW
175 Nm	345 Nm

32
520 mm
205 mm
20 kg
200 kg
3 s

As a medium-sized company, Wenzler has the ability to respond swiftly and flexibly to individual requirements. All components of Wenzler machining centers requiring our specific know-how are produced in-house to ensure our customers receive reliable and economically efficient solutions at the highest level of quality.

Do you have any question on the Wenzler VKM and our service portfolio? We are very much looking forward to getting in touch with you and talking about your requirements.