



PLATFORM 3

THE IDEAL BASIS



LATEST INNOVATION – A CLASS OF ITS OWN

JUNKER opens up far-reaching options for the future and - very importantly - investment security with the new development of Platform 3. JUNKER's grinding technologies are constantly further developed to meet the challenges of the market. With ever more productive grinding concepts, JUNKER offers the perfect solution for permanently increasing demands on cost-effectiveness and precision. The Platform 3 was developed and designed precisely for this purpose.

THE INTENTION

The modular grinding machines of Platform 3 were developed based on the latest market requirements: small lot sizes and increasing part variety. Both combine the need for flexibility of a high-performance grinding machine.

The new JUNICOR covers all conventional corundum grinding requirements in addition to the high-speed grinding machines with CBN and diamond grinding wheels, such as the JUMAT, JUCAM, QUICKPOINT, and JUCRANK. Flexibility and precision keep the balance, and the high-performance grinding machines are suitable for producing individual parts in small batches and larger workpiece series.

THE DEVELOPMENT

Significant objectives of the new development are increased flexibility and cost-effectiveness through optimizing our modular system. Customers will benefit from shorter lead times achieved through quicker production throughputs, an advantage of the modular system that includes a uniform basis for all machine models of the new platform 3. Extension of the base machine is possible by a wide range of configuration options, such as individual table assemblies and grinding spindle heads. The configurations range from standard to custom-made solutions and achieve the best efficiency, flexibility, and economic results.

Platform 3 is versatile and ideally suited to the needs of a wide range of industries, whether small or large series production at Tier 1,2 or 3 suppliers or one-piece requirements in a research and development environment.

THE MACHINES

The design of Platform 3 allows a high degree of flexibility in machine configurations for specific projects. At the same time, it provides for individual customer requirements with a convincing price-performance ratio.

JUNKER offers the right solution depending on the part geometry and grinding task. Depending on accuracy, customers can choose between different guiding and driving systems on both main axes, X and Z.

Another highlight of the new Platform 3 is the integrated automation concept. The machine can be loaded manually or automatically. The internal gantry loading system can quickly adapt to new workpiece configurations with little effort and ensures smooth workpiece handling. Easy access to all components on the outside and inside of the machine, combined with optimized setup capability, is the foundation of the entire system.

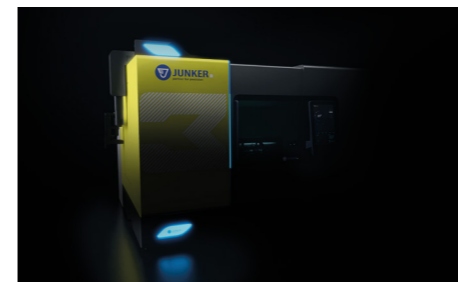
The machine allows individual grinding tasks thanks to various wheel-head variants, with or without an automatically swiveling B-axis. Up to 3 grinding spindles, designed and produced by JUNKER, can be mounted on one single wheel head, leading to an optimal workpiece-focused design of the machine.

HIGHLIGHTS

- Economic efficiency due to modular design
- Short delivery times and reduced throughput of machine and components
- Guaranteed spare parts availability
- Reliable machine availability based on reduced service and repair times
- Investment security due to flexible retooling for second and third product life cycles
- Highest repeatability thanks to optimal thermal stability
- High rigidity through a robust design
- Reduced commissioning time thanks to integrated peripherals
- Future-oriented operating and software concept
- Operator and maintenance-friendly machine platform
- Concise layout for a compact floor plan

THE GRINDING OPTIONS

The new and economical Platform 3 enables a wide range of grinding processes such as cylindrical, non/cylindrical grinding for OD and ID applications, plunge and angular plunge grinding, more complex operations such as profile, face, surface, and groove grinding, as well as the traditional JUNKER QUICKPOINT grinding/peel grinding process.



TECHNICAL DATA

PLATFORM 3	JUNICOR 3S	JUNICOR 3L	JUMAT 3S JUCAM 3S QUICKPOINT 3S JUCRANK 3S
Clamping length / Grinding length	max. 800 mm	max. 1.600 mm	max. 800 mm
Center height	max. 230 mm	max. 230 mm	max. 230 mm
Workpiece weight	max. 250 kg	max. 250 kg	max. 80 kg
Grinding wheel diameter	508/610 mm	508/610 mm	400/500 mm
Peripheral diameter	max. 450 mm	max. 450 mm	max. 290 mm
W x D x H (without peripherals)	3.250 x 2.600 x 2.200	4.050 x 2.600 x 2.200	3.250 x 2.250 x 2.200

**Celebrate the world premiere with us
at GrindingHub 2024 in Stuttgart.**