

# Multigrind® Radical

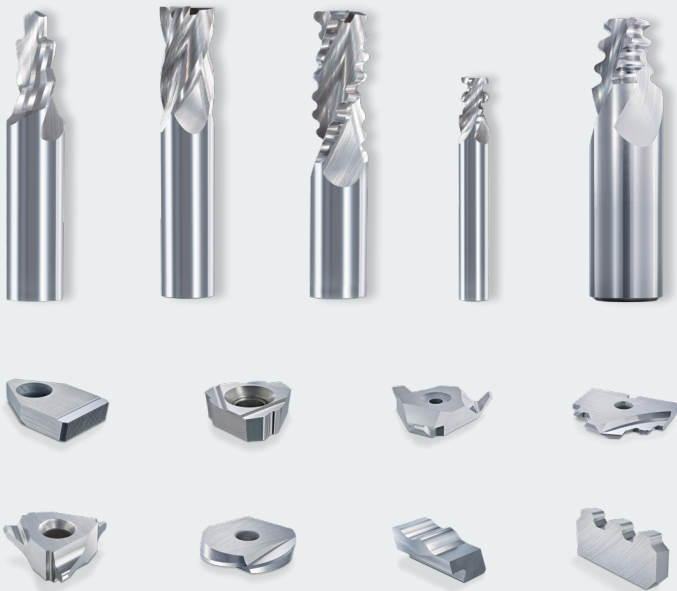


The game changer  
for all tool grinders.

Thought radically,  
implemented  
consistently.

The new Multigrind® was developed explicitly for the future of tool grinding. Maximum precision for milling cutters, inserts and drills. In large quantities or as very small batches from batch size 1 to 1,000. Flexible production as required thanks to chaotic assembly. Maximum benefit and significantly lower costs in ongoing operation. The Multigrind® Radical knows no limits.

The all-in-one tool grinding machine.



# Grind radically faster.

Now a new era starts. Best times for tool and grinding wheel changes because both take place in parallel. Non-productive times are radically reduced. The new Multigrind® Radical is not only a compact solo performer, but also a hyper-productive production cluster in series. This increase in productivity is the new benchmark. And! The new fast will be very easy to handle.

# Grinds better that way.

## Grinding spindle

Interface HSK 50	
Power 100 %	9 kW
Rotation speed infin. var.	10,000 rpm

## Travel range

X-axis	575 mm
Y-axis	370 mm
Z-axis	250 mm
C-axis rotation range	235°

## Measuring system and feed

Direct path measuring system	
Linear axis resolution	0.0001 mm
Linear axis rapid feed	25 m/min
Rotary axis resolution	±0.0005°

## Rotary axis (A-axis)

Standard center height	120 mm
Interface	SK50 or HSK80
Rotation speed	1,200 rpm

## Workpiece dimensions

Diameter	up to 100 mm
Length	up to 200 mm
Weight	up to 10 kg

## Automation

Tool changer	4 grinding wheel flanges max. 12 grinding wheels
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## Electronics

Electrical supply	400 Volt/50 Hz, 63 A
Control	Sinumerik ONE
Grinding software	Multigrind® Horizon
Pneumatics	operating pressure 6 bar

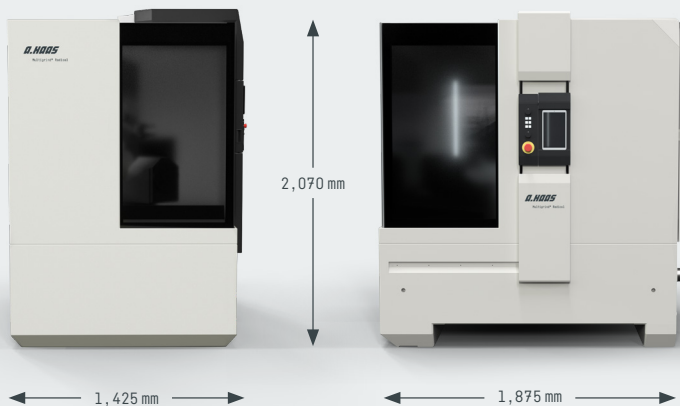
## Weight and space required

Total weight	dep. on equipment <5 t
Length × width	1,425 × 1,875 mm
Height during operation	2,070 mm

# Small is big.

Barriers are broken down. The new Multigrind® Radical is maximally equipped and yet radically reduced. With its self-rigid mineral cast bed, it stands rock-solid on a footprint of 1,425 × 1,875 mm. With its minimum height of 2,070 mm, it is suited for a low hall height. Convenient over-corner access to the inside of the machine through the oversized safety glass door. Think Bigger!

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# Mission control.

Radically rethought. The decoupling of the control from the machine brings maximum independence. Multigrind® Horizon is located in the company's own network and is executed via tablet, laptop or cell phone. The machine operator works mobile and is always and everywhere up to date. Fully automated unmanned series production becomes the production standard with the Multigrind® Radical. Freedom and maximum control.



Up to date, always  
and everywhere.



# Simplify your work.

Quick integration into production is possible with the Multigrind® Radical without any major programming effort. No lengthy training during setup and operation. Production start immediately and without loss of time. Parameterization, templates and ERP information form the data basis. Programming is super easy and makes very fast production changes possible. Just provide parts and get started.

# Cloud grinding.

Multigrind® Horizon Inhouse - added value from the cloud. Additional performance, fast service, current updates, physical information, safety instructions, process parameters and much more can be accessed quickly and easily from the cloud on request. This added value is available without delay, but only when the information is actually needed. Secure and certified.



Check your ambitions, Now!  
For more information,  
simply register at  
[www.multigrind.com/en](http://www.multigrind.com/en)  
or make an appointment  
right away.

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