

Chamfering and deburring of gears

RGC 350



Radial Gear Chamfering

Maximum flexibility in the smallest installation space!

The RGC 350 chamfering machine has been developed together with the Radial Gear Chamfering process and is precisely tailored to its requirements. The RGC process can be used to produce defined, reproducible chamfers on the tooth face edges, even on workpieces with interfering contours, such as multiple gears and/or shaft shoulders/offsets, etc.

The chamfering process takes place in continuous operation at high cutting speeds in an environmentally friendly and economical dry cut.

This enables you to achieve short cycle times and maximum efficiency with minimal installation space and maximum working space at the same time.

In addition to spur gears, the extremely flexible RGC350 can also be used to machine components with splines, sprockets, bevel gears, worm gears and much more!

Facts about the RGC 350

- Changeover times < 15 minutes
- Convenient and easy operation thanks to the intuitive user interface developed specifically for the process
- Short main times, thereby relieving bottlenecks during deburring
- Extremely compact machine, installation area approx. 2.5 m²
- Easy to transport and set up
- Automatic tooth gap position detection



Machine bed

- Base body made of natural stone for optimal vibration damping and maximum tool life
- Form-fit mounting surfaces for screwing on the generously dimensioned linear guides, manufactured in one clamping for high geometric accuracy
- Thermostable during dry machining as chips fall freely into the work area without dragging cables. All moving components are protected from chips behind covers

Workpiece spindle

- Direct drive with high torques
- Short taper interface, size 5
- Liquid-cooled spindle for high continuous availability
- High resolution angle sensor

Tool spindle

- Direct drive with high torques
- HSK-F63 tool interface with angular position alignment
- Air-cooled spindle with high power density
- High torques

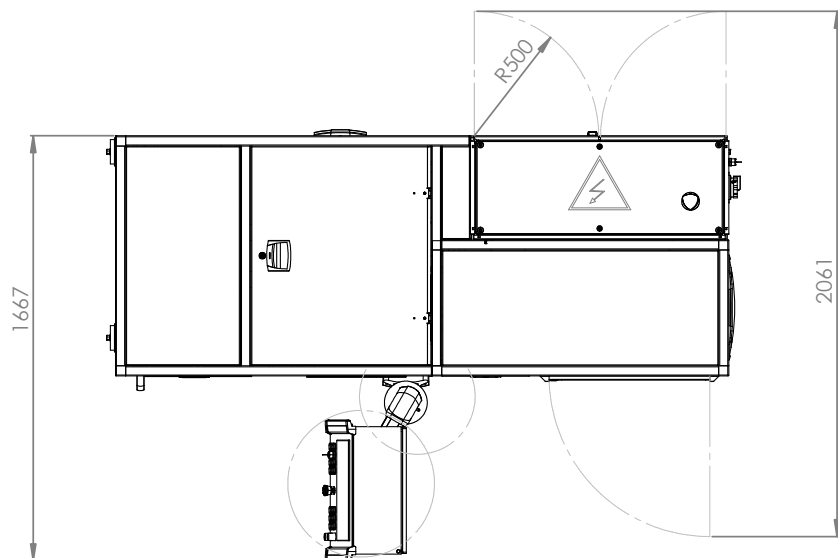
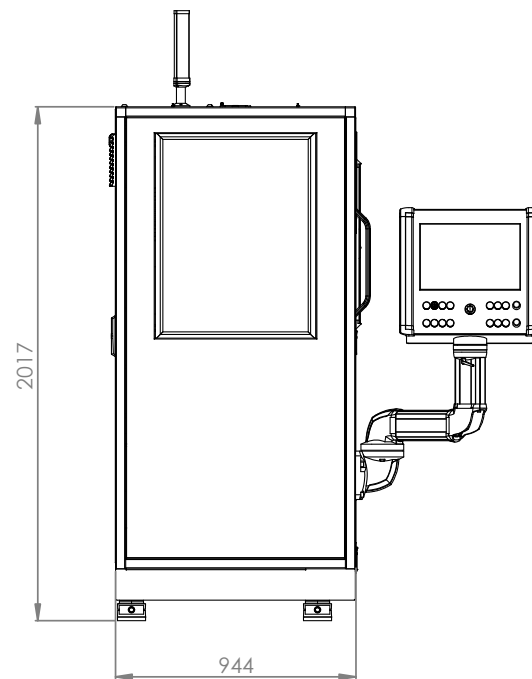
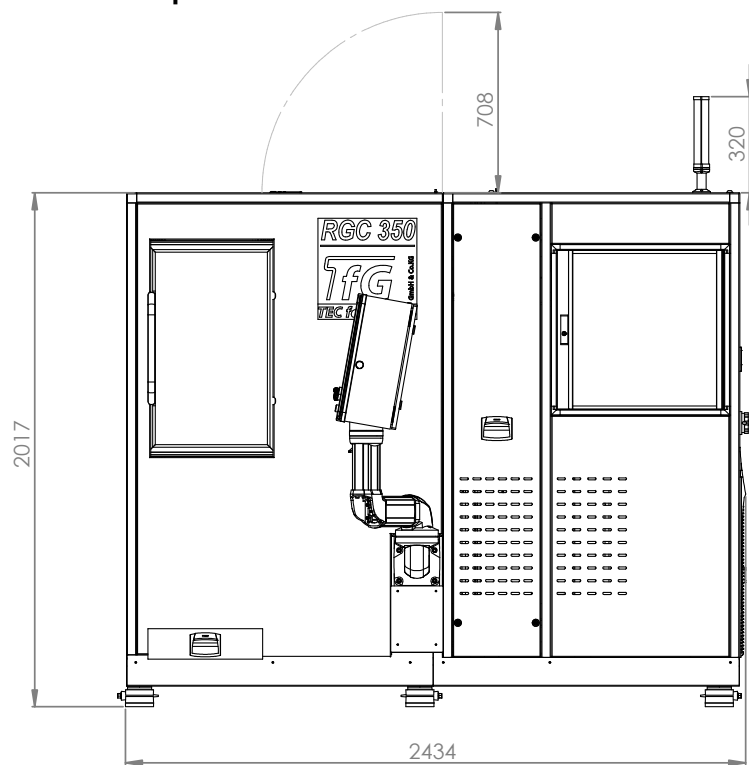
X-Z slide

- Generously sized linear guides
- Non-contact measuring system integrated into the linear guides

Technical Data RGC 350

Workpiece		
Outer diameter	[mm]	300
Length	[mm]	350
Module from to	[mm]	6
Tool		
Milling arbor holder	adapted HSK-F63 interface	
Machine		
Tool spindle drive power	[kW]	11.3
Tool spindle speed max.	[1/min]	17,000
Workpiece spindle drive power	[kW]	1.8
Workpiece spindle speed max.	[1/min]	1,000
X-axis travel	[mm]	170
Z-axis travel	[mm]	355
Distance X axis min/max	[mm]	5 ... 170
Distance Z axis min/max	[mm]	97.5 ... 452.5
Rapid feed rate X- and Z-axis	[m/min]	20
Control unit	Beckhoff	
Electrics		
Total connected load of machine approx.	[kW]	32
Air consumption approx. (must be determined separately for each part)	[NI/min]	12.5
Installation area		
Machine RGC350 (without automation)	[m]	ca. 1.00 x 2.40
Weight		
Machine RGC350 (without automation)	[kg]	ca. 3, 000

Installation plan



Short cycle times for the chamfering and deburring process even for workpieces with interfering contours.



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