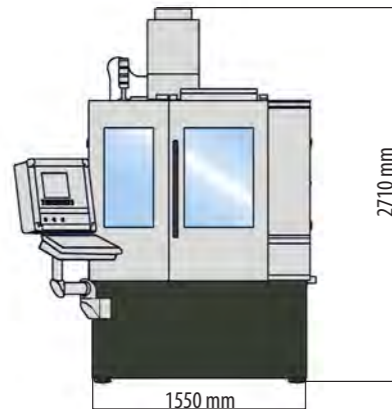


K 366 CNC

Technical data K 366 CNC

Machine

Grinding range (Ø head/length)	0,4-8 mm/ 20 mm
Control unit	Siemens 840 D sl
Operator guidance	Windows interface
Grinding software KIRNER BURRSoft®	Software modules available for various types of drilling and milling tools (e.g. for dental and miniature rotary burrs)
Machine axes	6 CNC-axes + 1 spindle
X-axis	Servomotor
Stroke	120 mm
Rapid speed	10 m/min
Encoder	on the servomotor
Y-axis	Servomotor
Stroke	95 mm
Rapid speed	10 m/min
Encoder	on the servomotor
Z-Achse	Servomotor
Stroke	140 mm
Rapid speed	10 m/min
Encoder	on the servomotor
A-axis	High-torque motor
Swivel range	unrestricted
Resolution	0,00035°
Rapid feed / axis / spindle	200 1/min (Achse) 600 1/min (Spindel)
B-axis and C-axis	High-torque motor
Swivel range	205° / 210°
Resolution	0,00035°
Rapid feed	60 1/min



Measurement system

Camera	1/3" CCD-camera
Resolution	768 x 576 pixel
Working distance / Object depiction	127 mm / 9,3 x 7 mm

Grinding motor

Power / Torque at speed	1.26 kW / 2.0 Nm at max. 6000 rpm
Grinding spindle	Ø 50 x 160 mm
Rotational speed	max. 10000 1/min (Grinding spindle Ø 50 x 160 mm)
Grinding Wheels	Ø = 50 - 100 mm
Mounting capacity	max. 4 wheels on one flange

Tool mount

Collet chuck	K4.5 / K7
Shank diameter	max. 3,17 mm (1/8")
Tool guidance	Steady rest

Loading / unloading robots

Loader axes	3 CNC axes
Tool capacity	max. 2040 parts
Shaft diameter range	max. up to 3.17 mm (1/8")
Workpiece length (max.)	100 mm
Pallet quantity/size (L x W x H)	3 / 250 x 200 x 20 (30) mm

Power consumption

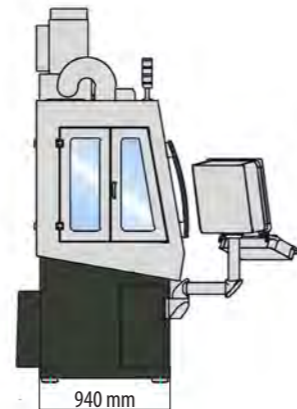
Average / Maximum	ca. 7 kW / max. 10 kW
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Pneumatics

Working pressure	6 bar
Connected pressure	max. 16 bar

Dimensions

Space requirement L x W x H	3500 x 3000 x 3500 mm
Weight, incl. operator panel	ca. 2200 kg



K 366 CNC

Precise
Intuitive
Dynamic

Gestaltung: www.fox-grafik-design.de



Kirner Maschinenbau GmbH
Gutachstrasse 17-19
D- 79822 Titisee-Neustadt

Telefon: 0 76 51 92 26-0
Telefax: 0 76 51 92 26-28
info@kirner-maschinenbau.de
www.kirner-maschinenbau.de

K 366 CNC

Fully automated tool grinding centre with 10 CNC axes

All popular and specialised dental and medical tools as well as industrial burrs up to a head diameter of 8 mm can be manufactured on the extremely compact **tool grinding center K366 CNC** with full automation and high precision.

The **KIRNER-specific 6-axes kinematics** with dominant swivel axes is globally unique and offers decisive advantages in the grinding process. The integrated **pallet loader** allows for the shortest production cycles while operating with extreme reliability. More than 2000 workpieces can be stockpiled in this way.

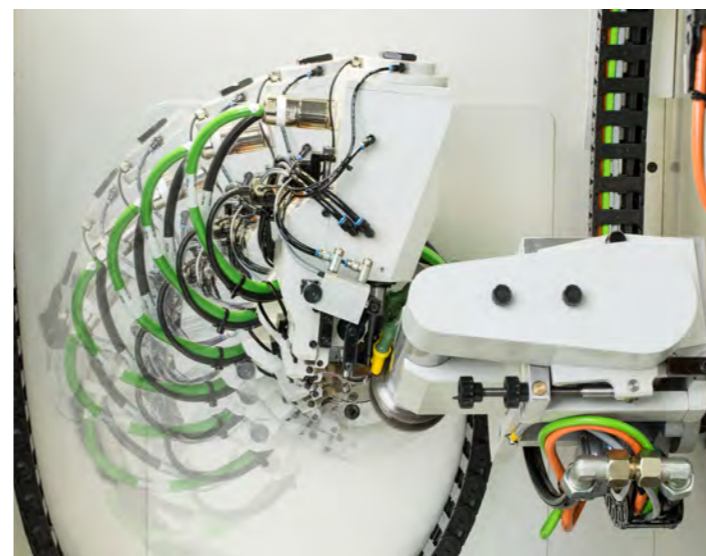
The sophisticated **grinding software** from the KIRNER forge lets you develop the complete spectrum for everything concerned with grinding.

Optimised **tool supporting systems** also allow grinding tasks to be completed where collision is a critical issue. The proven tool support using bezel grippers guarantees the best concentricity and thus optimal grinding results.

The **K 366 CNC** machine already reflects the technology of tomorrow – **KIRNER's 4th generation** of machines!

We install only the proven components of renowned manufacturers in our **quality machines**.

This guarantees high machine availability and sustainable support.



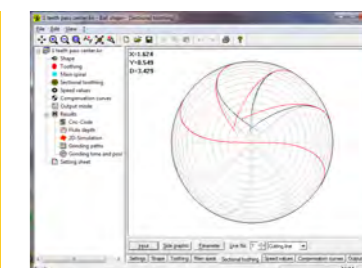
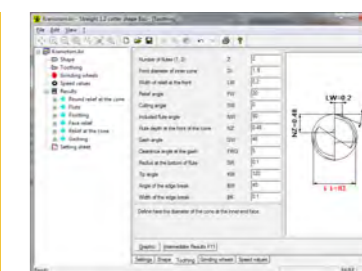
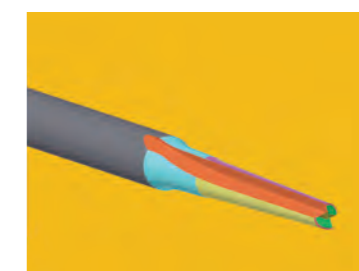
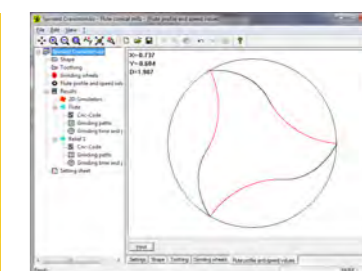
Decades of accumulated **know-how** in the production of CNC-controlled tool grinding machines, paired with the wishes of leading tool manufacturers led us to this machine – the **K 366 CNC**. Along with the modern Siemens PC control systems and digital drive technology, the guarantors for an optimal **grinding result in record time** include the precision linear guides and precision bearings, particularly the high-torque direct drives in the rotary axes. The **degree of automation** achieved for the complete tool run – paired with the latest generation of hardware and software – shortens the cycle time, the decisive step for a fast return on your investment. The **K 366 CNC** machine can accommodate up to **4 grinding wheels and a diameter of up to 100 mm**. No matter what you want to grind, much can be completed in just one clamping.

Thanks to the new **setup program**, the machine can be configured with very little effort. The parameters of your grinding machine are set in a

logical sequence and the machine technician is guided to the desired setup result by completing only a few tasks. The control system handles the rest. Plausibility checks, confirmation prompts and the optional integration of a presetter, a flange detection system or a barcode scanner effectively increase the setup efficiency and reduce the potential for errors. The pallet loader fully integrated in the CNC, the meaningful KIRNER 6-axes kinematics and the integrated CCD camera additionally simplify the

areas such as the development of our own software, the optimisation of equipment management tools and 2D/3D simulation, as well as expertise in the fields of pallet loading technology, truing technology, measurement technology and tool presetting through to remote diagnostics round off our system solution.

We offer competence from one source, for our customers at home and abroad.



complete setup process. This makes even small batch sizes attractive! **Automation solutions to meet the demands** of all aspects of grinding ensure the highest efficiency and investment security. Associated

