



K 43
Dressing machine for diamond and CBN grinding wheels

Suitable for profile wheels up to 350 mm in diameter

Optimal adaption to various grinding wheel specifications

With KirCam visualisation software

Dressing machine K 43

The K 43 dressing machine is a compact machine for truing and profiling diamond and CBN grinding wheels of various shapes and specifications up to a Ø of 350 mm.

Advantages of the K 43:

- Specially developed KirCam visualisation software
- High-resolution camera and monitor system
- Multi-level zoom from factor 9 to 110
- High machine rigidity through **FEM Engineering**
- Highly efficient dust extraction through the pivot centre point
- Integrated positioning transducer for A-, X- and Y-axis
- Variable teach-in oscillating travel
- Ability to dress single wheels or multiple-wheel packs
- Maximum dimensional accuracy and concentricity of the wheels
- Profiling of the smallest radii up to 0.05 mm
- Extremely user-friendly with minimal wear and low maintenance requirements
- Ability to pivot the profiling head
- Onboard PC with windows operating system

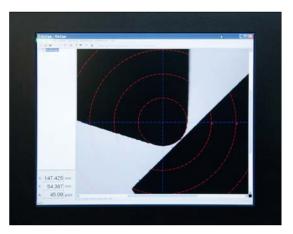


Application examples



Anyone wanting to manufacture high-quality precision tools in large or small quantities must operate with grinding wheels that fulfil the highest requirements in terms of geometry and tool life. Tools can only be produced in series with a consistent level of quality by using a precisely defined grinding wheel profile. At the same time, this high quality must remain competitive pricewise.

The KirCam software especially developed by Kirner allows a multi-level zoom function (from factor 9 to 110) to be generated in combination with a high-resolution camera and monitor system. This enables the profiling and visualisation of the smallest radii down to 0.05 mm.



Visualisation of the smallest radii up to 0.05 mm

The machine cinematics facilitate optimal adaption to the most diverse dimensions and specifications by adjusting the relative speed and oscillating regrinding process by means of a SIC wheel in rotation/counter-rotation. This enables the surface of the grinding wheel to be shaped and sharpened in one process.



Ability to pivot the profiling head

K 43 technical data

Workpiece spindle head

Workpiece spindle	Standard 100 x 160 ISO 40
Speed range	200 – 1800 rpm
Rotation	synchronous / non
Profile grinding wheel	max. 350 mm

Coordinate table

Quick travel of the X-axis	80 mm
Travel X-axis	150 mm
Travel Y-axis	130 mm

Profiling head

Maximum dressing wheel Ø	200 mm
Maximum dressing wheel width	20 mm
Speed	infinitely variable 1000 – 3000 rpm
Dressing wheel bore Ø	32 mm
Swivelling range	approx. 190 degrees
Oscillating travel	42 mm
Infeed	manual
Option	additional swivelling

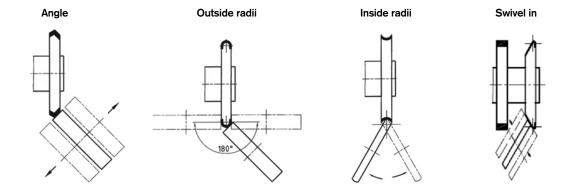
Camera monitor system

Monitor	17" industrial TFT
Camera zoom	9-, 20-, 40-, 55- and 110-fold
Interfaces	USB, network connection
Drawing software	DXF, DWG, VBF

Weight

Machine size

1800 x 2600 x 2200 mm approx. 750 kg





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