





## **K 45** **Dressing machine for** **diamond and CBN** **grinding wheels**

-  Suitable for profile wheels up to 500 mm in diameter
-  Permanent inspection of the profile during the dressing procedure
-  Easy to handle and to maintain

# Dressing machine K 45

The K 45 machine is a tool-grinding machine for dressing and profiling diamond or boron nitride (CBN) grinding wheels in various shapes up to a maximum diameter of 500 mm.

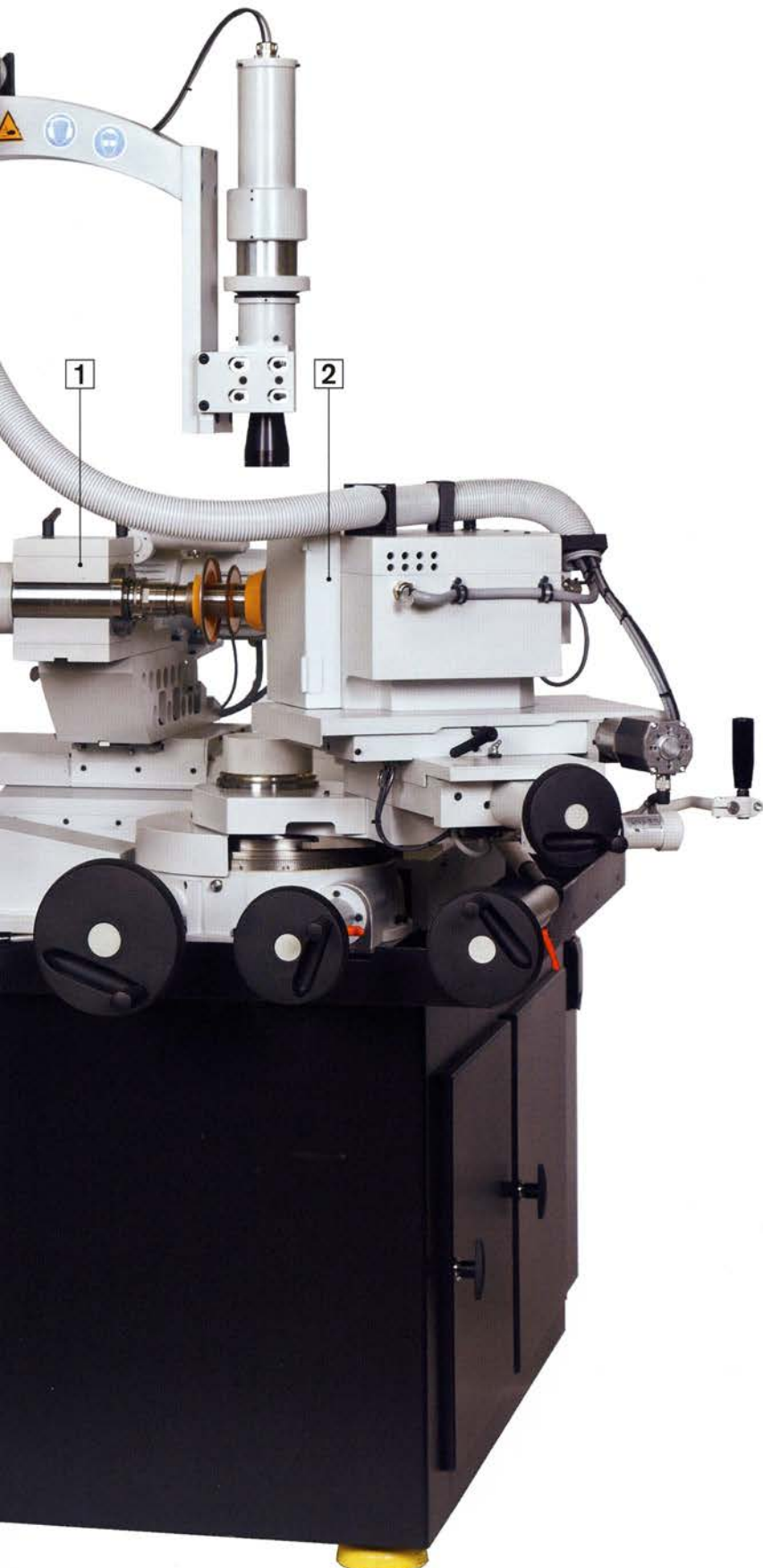
## Advantages of the K 45:

- Compact & stable machine
- Working range up to 500 mm diameter
- Onboard industrial PC with windows operating system
- Visualisation software KirCam
- High resolution camera and monitor system
- Multi-level zoom from factor 9 to 110
- Big 19" industrial PC screen
- Excellent picture resolution
- Dressing of wheel sets
- Dressing of very small radii down to 0.05 mm
- User-friendly
- Minimal wear
- Low maintenance requirements



## Examples of usage





### **Workpiece spindle head (1)**

The workpiece spindle head is mounted on a sturdy cross-coordinate table. The spindle can be positioned and blocked in position by coordinates or by visualisation on the monitor.

The standard machine is equipped with a 100 x 160 ISO 40 workpiece spindle. The spindle is driven by a change-pole motor in connection with a freely adjustable gear mechanism. To obtain an optimum cutting speed the number of spindle rotations may be freely adjusted within a large range.

### **Dressing head (2)**

The dressing unit is run on solid bearings and may be slewed by 184 degrees approx. To be able to dress a precise angle the unit is equipped with adjustable angle stops or can be exactly set on the screen as an option. The SIC wheel is manually fed and will perform an automatic oscillatory movement during dressing. Position, length and speed are variably adjustable.

### **Electronic hand wheel (3)**

The position and the stroke of the oscillation can be set very easily and rapidly with the electronic hand wheel.



Electronic hand wheel

# K 45 Technical Data

## Workpiece spindle head

Workpiece spindle	100 x 160 ISO 40
Speed range	160 – 2000 1/min
Rotation	synchronous / non
Profile grinding wheel	max. 500 mm diameter / max. 40 mm width

## Coordinate table

Coarse travel X-axis	200 mm
Coarse travel Y-axis	130 mm
Travel X-axis	150 mm
Travel Y-axis	130 mm

## Profiling head

Dressing spindle	70 x 200 mm
Spindle speed range	infinitely variable 450 – 2000 1/min
Dressing wheel	max. 250 mm diameter / max. 25 mm width
Wheel bore	51 mm
Slewable range	ca. 184 degrees
Oscillating travel	0 – 70 mm
Oscillating speed	infinitely variable
Infeed	manual / automatic
Option	additional swivelling

## Camera monitor system

Monitor	19" industrial TFT
Camera zoom	approx. 9-, 20-, 40-, 55- and 110-fold
Interfaces	USB, network connection
Drawing software	DXF, DWG, VBF

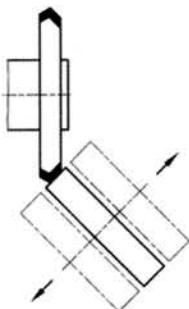
## Machine size

2900 x 3400 x 2300 mm

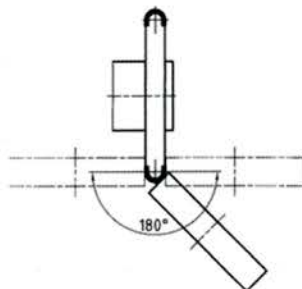
## Machine weight

ca. 1200 kg

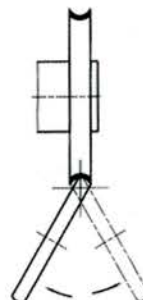
Angles



Outside Radii



Inside Radii



Swivel in

