



SKU : 102781

The special construction of the Multi Grind makes it possible to combine the functions of cylindrical, flat and tool grinding in one machine. With external cylindrical grinding, the workpiece is either clamped on one side or supported between centers in the stable tailstock. An internal grinding device can also be attached to the headstock and light surface grinding work is also possible with this model. With the additional tool grinding function area, you can use the Multi Grind to machine the cutting edges of a large number of tools.

- Outer and inner cylindrical grinding
- Surface grinding
- Tool grinding
- Hydraulic table feed
- Wide range of accessories

TECHNICAL SPECS

WORKING AREA

Grinding diameter	200 mm
Workpiece length (max.)	500 mm
Outside grinding measure, maximum	Ø 5-50 x 400 mm
Inside grinding measures, optimal	Ø 10-50 x 75 mm
Tool grinding measure	200 mm x 500 mm
Workpiece length surface grinding	200 mm
Workpiece width surface grinding	50 mm
Workpiece weight (max.)	10 kg
Table swivel range (max.)	+45° / -30°

TRAVELS

Travel Z-axis	480 mm
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FEED

Feed per hand-wheel rotation X-axis, fine	1 mm
Feed per hand-wheel rotation X-axis, rough	4 mm
Feed per scale division X-axis, fine	0.005 mm
Feed per scale division, X-axis, rough	0.02 mm
Scale division of height adjustment	0.01 mm
Longitudinal feed speed (hydraulic)	0.1 m/min - 6 m/min
Manual, hydraulic assist	7 m/min

HEADSTOCK

Working headstock swivel range	± 90°
Working spindle speed	110 1/min - 300 1/min
Working spindle taper	2 MT
Chuck diameter	100 mm

GRINDING HEADSTOCK

Grinding spindle speed	2500 1/min
Inside grinding spindle speed	13500 1/min
Grinding headstock swivel range	± 90°
Grinding headstock - vertical / - transverse	200 mm

TAILSTOCK

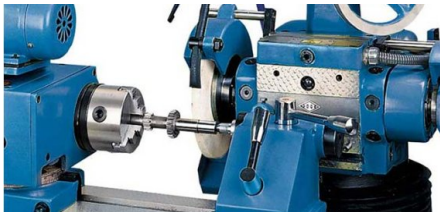
Height adjustment per handwheel rotation	2 mm
Tailstock taper	2 MT
Tailstock quill stroke	14 mm

DRIVE CAPACITY

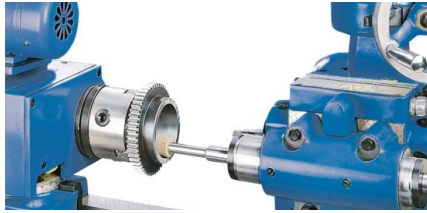
Machine drive capacity	2.525 kW
Motor rating main drive	1.1 kW

MEASURES AND WEIGHTS

Grinding wheel dimensions	200 mm x 20 mm x 75 mm
Grindstone dimensions, inside grinding (min.)	10 mm x 10 mm x 3 mm
Grindstone dimensions, inside grinding (max.)	25 mm x 20 mm x 6 mm
Overall dimensions (length x width x height)	1.52 m x 1.35 m x 1.4 m
Weight	1300 kg



Outside cylindrical grinding for lengths up to 400 mm



High-speed inside cylindrical grinding



Rigid angle-adjustable workpiece mounts



Swiveling headstock and extensive accessories



Saw blade sharpening

PRODUCT DETAILS

The functionality of the Multi-Grind ranges from external and internal cylindrical grinding to taper grinding. The Multi-Grind also allows easy tool grinding (sharpening of cutters, reamers and turning tools) and is suitable for light surface grinding job.

- Three-Point Bearing The custom three-point bearing of the grinding spindle ensures minimum temperature effects and consistent grinding quality.
- Feed Drives Hydraulic table feed (longitudinal) with automatic change of direction. An additional manually operated longitudinal feed with hydraulic support allows feed speeds up to 7 m/min.
- Grinding Headstock Special grinding headstock design allows simultaneous setup of 2 different grinding wheels. The grinding headstock can be moved in transverse direction and also vertically; and it can be rotated around the vertical axis.
- Speeds The headstock operates at 3 different speeds (110, 200, 300 min⁻¹), which are set through an easy to operate gear shift lever.
- Additional Features... - central lubrication system - sturdy construction - the KNUTH Multi-Grind body is made of solid cast-iron and weight 1300 kg; minimizes vibration effects - electrical components are mounted easily accessible in a control cabinet

STANDARD EQUIPMENT

Coolant system
 Exhaust vacuum
 Tool mount / indexing head MT 4
 Internal grinding unit including 2 die grinders
 3-jaw chuck Ø 100 mm
 Left tailstock
 Right tailstock MT 2
 Center point
 Half center points
 Balancing station
 Spindle extension
 Vise for surface grinding (3-D angle adjustment)
 Spring stop
 5 drivers
 Various splash guards
 Grinding wheel guard (2x)
 Automatic central lubrication
 Operator manual
 Test certificate



KNUTH on YouTube Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?
Please feel free to contact us!**