

TECHNICAL DATA Flat- and Profile Grinding Machine

Manufacturer	ELB
Type	Smart-Line N6 Comfort
Control	B&R Comfort
Built	2009



Grinding Area

Grinding length	600 mm
Grinding width	400 mm
Grinding height (from mounting table)	475 mm
Table load (on magnetic plate)	400 kg

Magnetic plate

Clamping area	600 x 400 mm
Height (ca.)	81 mm
Type	Lateral pole pitch
Pole pitch	18 mm
Weight ca.	300 kg

X-Axis – Longitudinal table movement

Working plate	Meehanite-Cast Iron
Guiding system	Flat-Prisma-Guides
Guideways	Plastic-coated
Mounting table	960 x 390 mm
Longitudinal movement	max. 700 mm
Drive X-Movement	Hydraulically
Adjustment of X-Movement	manual through sliding elements

Z-Axis – Lateral movement of grinding wheel

Cross slide		Meehanite-Cast Iron
Guiding system		Flat-Prisma-Guides
Guideways		Plastic-coated
Automatic cross movement	max. 370	mm
Drive Z-Movement		Ball-type linear drive
Measuring system		Incremental, rotary encoder
Resolution	0,001	mm
Rapid traverse	max. 2.000	mm/min.

Y-Axis – Vertical movement of grindign wheel

Grinding Column		Meehanite-Cast Iron
Guiding system		Linear guides
Drive Y-Movement		Ball-type linear drive
Measuring system		Incremental, linear encoder
Resolution	0,001	mm
Rapid traverse	max. 1.500	mm/min.

Grinding spindle

Speed	1.000 – 3.000	1/min frequency-controlled
Spindle bearing		Axial and radial backlash-free
Lubrication		Permanent lubrication with grease
Spindle taper	36	mm
Max. size grinding wheel (D _A x B)	300 x 50	mm
Inner bore grinding wheel	76,2	mm

Diamond dresser – mounted at table

Position		Mounting table left side
Height adjustment		manually
Vertical movement	22	mm
Distance working table to diamond tip	ca. 77	mm
Diamond socket		MK 0
Dressing diamond	0,75	Carat

Machine dimensions

Length x Width x Height	2,8 x 2,2 x 2,15	m
Weight ca.	3.800	kg

Accessories

- Wet grinding unit with coolant tank, volume 210l, coolant pump, work room guard, coolant nozzle with bracket
- Universal-paper filter unit
- Rigid diamond dresser, mounted at table
- Electro-permanent magnetic chuck incl. magnetic force adjustment (30 – 100%)
- Water rinse with water spray gun