

2. Technical data of the machine

WORKING RANGE

slide path (X)	420 mm (16.535")
slide path (Y)	330 mm (12.992")
slide path (Z)	400 mm (15.748")
workpiece dimension (LxWxH)	max. 400 x 300 x 190 mm (15.748" x 11.811" x 7.480")
useful Z stroke	240 mm (9.449")
distance spindle nose - table surface	210 - 450 mm (8.268" - 17.717")

MILLING TABLE

table clamping surface (LxW)	850 x 325 mm (33.465" x 12.795")
max. table load	150 kg (331 lb)
3 T-slots acc. to DIN 650	14 mm (.551")
difference of the T-slots	100 mm (3.937")

MILLING SPINDLE

spindle bearing	Ø 60 mm (2.362")
type of bearing	angular ball bearing
clamping fixture acc. to DIN 69871	SK 40
tightening bolt acc. to DIN 69872	SK 40
tool clamping	automatic
clamping force	6000 N (1349 lbf)
throat (distance between spindle and guide)	330 mm (12.992")

MILLING SPINDLE DRIVE

main motor (DC 100/40% duty cycle)	6.6/10 kW (8.9/13.4 hp)
type	direct drive
speed range (working spindle)	50 - 4500 rpm, infinitely variable
max. torque (working spindle)	72 Nm (53.1 ft lbf)

MACHINING CAPACITY

milling capacity in steel	120 cm ³ /min (7.3 in ³ /min)
drilling capacity in steel	Ø 20 mm (.787")
thread-cutting capacity in steel	M 18

FEED DRIVE

DC-motor single drive + ball screw spindle	
feed in X/Y/Z	1 - 4000 mm/min (.039 - 157.480 in/min)
rapid feeds in X/Y/Z	12/12/12 m/min (39/39/39 ft/min)
feed force X/Y	4000 N (899 lbf)
feed force Z	6000 N (1349 lbf)

TOOL SYSTEM

tool shop	drum with direction logic
number of tool posts	12
max. adm. tool weight	5 kg (11 lb)
average tool weight	approx. 3.0 kg (6.5 lb)
max. adm. tool weight in shop	approx. 36 kg (79 lb)
distance center gravity point (from tool + tool holding fixture) to the spindle nose	max. 75 mm (2.953")
max. adm. tool diameter	100 mm (3.937")
cut-to-cut time acc. to VDI 2852 T1/T2/T3	13,5/12,3/12,3 s
tool changing time T1/T2/T3	9,3/8,7,9 s