

Machine - Datasheet

Machinetype: turning and machining center
 Make: NILES-SIMMONS
 Type: N30 M-2500
 New in: 2007
 Control: SIMENS 840 D
 Origin: Germany
 Term of delivery: On request
 Quotation: ex works
 Description: -



Technical details

Dimension:

Working range

Nominal turning length: 2,500 mm
 Rotation Ø:
 - over bed slide: 750 mm
 - over bed: 780 mm
 Working height: 1,300 mm

Workpiece spindle

Spindle head according to DIN 55026: A 11
 Bore through: 123 mm
 Diameter in front bearing: 200 mm
 Oriented spindle stop: 0-359 degrees

C-axis

- Speed range: 0.1 - 30 1/min
 - Measuring system resolution: 0.001 degrees
 - Max. torque on turning spindle (60 % ED): 930 Nm
 - Holding torque: 3,000 Nm
 - Positioning accuracy: 0.005 degrees

Longitudinal slide/cross slide/feed drive

Measuring system

- plane X-axis: linear, absolute
 - longitudinal Z-axis: linear, absolute

Slide paths

- plane X-axis (universal tool head): 720 mm
 - longitudinal Z-axis: 3,072 / 4,072 mm

Tailstock

positioned by bed slide, hydraulically clamped
Quill hydraulically actuated, travel and pressure monitored

- Quill diameter:	150 mm
- Quill stroke:	160 mm
- Inner taper:	MK 5
- Axial force, manually adjustable:	4-25 kN
- Travel speed quill/tailstock:	8/12 m/min
- Height adjustment quill tip:	+/- 0.15 mm

Universal turning, drilling, milling tool head**Tool spindle**

- Diameter in front bearing:	110 mm
- Interface for tool heads:	HSK100A
- Main cutting force with clamped tool spindle:	15 kN
- Main cutting force with rotating tool spindle:	6 kN
- Power at 100 % / 60 % / 40 % ED:	29 / 33 / 37.5 kW
- Spindle speed (nominal speed 862 min ⁻¹):	0 - 4,000 min ⁻¹
- Max. torque at 100 % / 60 % / 40 % ED:	305 / 347 / 395 Nm

Y-axis

- Measuring system: linear	
- Travel range:	-165 to +300 mm
- Rapid traverse:	12 m/min
- Feed range:	0.1 - 12,000 mm/min

B-axis

- Swivel range, related to vertical 0-position:	-105 to +95 degrees
- Rapid traverse:	180 degrees/s
- Resolution:	0.001 degrees
- Positioning:	-105 to +95 degrees
- Holding torque around B-axis clamped:	4,000 Nm
- Holding torque around B-axis as NC axis:	800 Nm
- Holding torque around milling spindle clamped:	1,000 Nm
- Clamping force HSK 100A / Capto C6:	75 kN

Accessories:

Tool magazine No. 48

Chip conveyor

Recooling system