

SPECIFICATIONS

H 40

Travels

X – axis (column)	560 mm
Y – axis (spindle head)	510 mm
Z – axis (work table)	560 mm
Max. feed rate	15 000 mm/min
Rapid traverse	30 m/min

Rotary table with palet

Pallet size	400 x 400 mm
Max. pallet load	300 kg
Max. workpiece (dia. x height)	600 x 600 mm
Pallet change time	10 s

Accuracy (VDI/DVG 3441)

Positioning (P)	0,016 mm
Repeatability (Ps max.)	0,008 mm
Pallet change accuracy X,Z/Y	0,01/0,05 mm

Spindle

Spindle taper	ISO 40
Spindle speed	8 000 rpm
Power/S6 – 40%	12/18,5 kW
Max. torque /S6 – 40%	115/177 Nm
Transmission type	belt drive
Spindle orientation	electrical

Automatic tool changer

Number of tools	45
Tool change time	5 s
Max. tool diameter:	
– full magazine	85 mm
– adjacent pocket empty	125 mm
Max. tool length	300 mm
Max. tool weight	7 kg

Services

Voltage	3 x 400 V / 50 Hz
Power input	35 kVA
Air supply	0,6 – 0,8 MPa

Dimensions

Floor space	4 097 x 2 540 mm
Max. height	2616 mm
Machine weight	9000 kg

Control

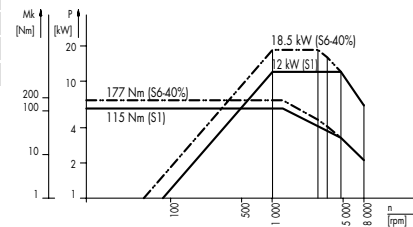
SINUMERIK 840D

STANDARD

Heavy-duty, universal machine for variable production assortment. Max. spindle speed 8 000 rpm
Rotary table, Indexing angle 1°, high positioning accuracy ± 3" due to Hirth gear coupling

SPINDLE AND TORQUE DIAGRAM

MOTOR SIEMENS 1PH7 133 - 2ND02, 12 kW,
n_N = 1000 rpm, belt drive i = 0,991



STANDARD EQUIPMENT

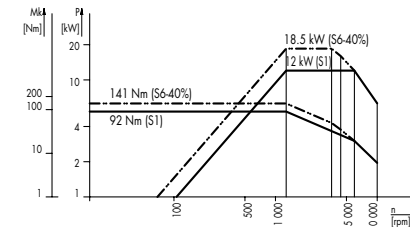
Control SINUMERIK 840D
Digital drives SIEMENS
Rotary encoders
APC with 2 pallets, size 400 x 400mm
Tool holder air blasting
Cooling unit with through-flow system
Auger style chip conveyor
Swarf pan

TREND

Machine designed for modern high performance machining, Max. spindle speed 10 000 rpm
Continuous rotary table, 4th controlled B - axis, positioning accuracy ± 3", Max. table speed 10 rpm

SPINDLE AND TORQUE DIAGRAM

MOTOR SIEMENS 1PH7 133 - 2ND02, 12 kW,
n_N = 1000 rpm, belt drive i = 0,786



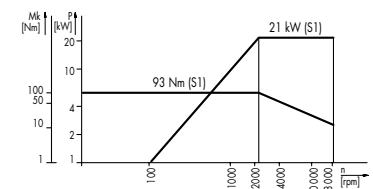
OPTION

Indexing table 1° indexing
Continuous rotary table
Linear guideways with direct feedback
Through spindle coolant
Through spindle air coolant
Cooling unit with through-flow filtration
ATC, 75 tool capacity
Spindle taper CAT 40, BT 40
Workpiece measuring probe
Tool setting probe
Upper, lower, washing-off
Swarf conveyor
Control HEIDENHAIN iTNC 530

CONTOUR

Machine designed for high speed machining.
High-speed spindle with max. speed 18 000 rpm
Continuous rotary table, 4th controlled B - axis, positioning accuracy ± 3", max. table speed 10 rpm

SPINDLE AND TORQUE DIAGRAM



Specifications are subject to change without notice in line with our policy of continuous improvement.

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