

SPECIFICATIONS

MCFV 1680

MCFV 2080

STANDARD

TREND

CONTOUR

Travels

X-axis (worktable)	1650 mm	2030 mm
Y-axis (saddle)	810 mm	810 mm
Z-axis (spindle head)	810 mm	810 mm
Spindle nose to table	110 – 920 mm	110 – 920 mm
Max. feed rates X, Y, Z	15 000 mm/min	15 000 mm/min
Rapid traverse X,Y/Z	30/25 m/min	30/25 m/min
Acceleration	5 m/s ²	5 m/s ²

Table

Surface	1800x 780 mm	2200x780 mm
Number of T-slots x width x span	5x18x160 mm	5x18x160 mm
Max. load	2500 kg	3000 kg

Accuracy (VDI/DGQ 3441)

Positioning (P) X,Y/Z	0,016 / 0,020 mm	0,016 / 0,020 mm
Repeatability (Ps max.) X,Y/Z	0,006 / 0,008 mm	0,006 / 0,008 mm
Feedback	linear scales	linear scales

Spindle

Spindle taper	ISO 50	ISO 50
Speed	8 000 rpm	8 000 rpm
Power/ S6-40%	17/25 kW	17/25 kW
Max. torque/ S6-40%	519/764 Nm	162/239 Nm
Transmission type	planetary gearbox	belt drive
Spindle orientation	electrical	electrical

Automatic tool changer

Number of tools	16	16
Change time	9 s	9 s
Max. tool diameter:		
– full magazine	130 mm	130 mm
– adjacent pocket empty	220 mm	220 mm
Max. tool length	300 mm	300 mm
Max. weight	12 kg	12 kg
Max. all tools weight	108 kg	108 kg

Services

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

Dimensions

Floor space without conveyor	4128 x 2440 mm	4820 x 2440 mm
Max. height	3460 mm	3460 mm
Weight	12 600 kg	13 400 kg

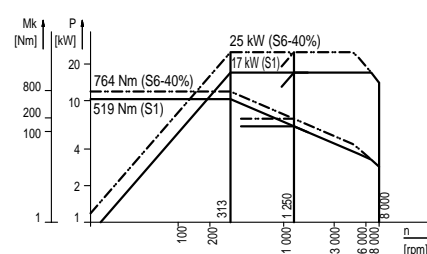
Control

HEIDENHAIN iTNC 530 HEIDENHAIN iTNC 530

Universal machine with wide use, designed for variable production assortment. Spindle with two-speed planetary gearbox.

SPINDLE POWER AND TORQUE DIAGRAM

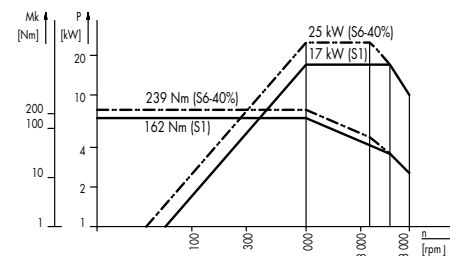
Motor Siemens 1PH7-137-2ND, 17 kW, n_N = 1000 rpm
Two speed planetary gearbox "ZF"
i₁ = 4, i₂ = 1, belt drive i₃ = 0.8



Machine designed for modern technology of high performance machining. Direct belt drive spindle.

SPINDLE POWER AND TORQUE DIAGRAM

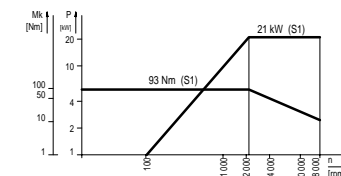
Motor Siemens 1PH7- 137- 2ND, 17 kW, n_N = 1000 rpm,
n_{max} = 8 000 min⁻¹
belt drive i = 1



Machine designed for high speed machining. High speed spindle with max. speed of either 18,000 rpm or 24,000 rpm.

Pick-up tool magazine version with 20 tool capacity, taper HSK-A63.

SPINDLE POWER AND TORQUE DIAGRAM



ISO 50

8 000 rpm

17/25 kW

519/764 Nm

planetary gearbox

electrical

ISO 50

8 000 rpm

17/25 kW

162/239 Nm

belt drive

electrical

HSK – A 63

18 000 rpm

21 kW

85 Nm

vector control

HSK – A 63

24 000 rpm

18 kW

70 Nm

vector control

STANDARD EQUIPMENT

Control HEIDENHAIN iTNC 530
Digital drives SIEMENS
Linear scales
Central lubricating system
Spindle headstock thermal stabilization
Tool holder air blasting
Cooling unit with tool cooling system
Way cover washing-off
Swarf management system

OPTIONS

Through spindle coolant
Through spindle air coolant
Through spindle cooling unit with filtration unit
Hydropneumatic "Z" axis balance
High speed spindle unit, 50 000 rpm
ATC pick-up version 16 tool capacity
Double arm ATC 32, 42, 52 tool capacity
Spindle taper CAT 50, BT 40
4th, (4 / 5 th) axis rotary table
Workpiece measuring probe
Tool setting probe
Upper, lower, washing-off
Control: SELCA S 4045 PD
SINUMERIK 840 D
FANUC 18i, (180)

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

TAJMAC-ZPS, a. s.

Třída 3. května 1180, 764 87 Zlín

Czech Republic

Tel: +420 577 533 590, Fax: +420 577 532 880

http: www.tajmac-zps.cz, e-mail: centra@tajmac-zps.cz