

Technical Datasheet

CNC – 5-Axis Machining Center

manufacturer	DECKEL MAHO
type	DMU 160P hi-dyn
control	HEIDENHAIN iTNC530
built	2004



Travels

Cross movement (X-Axis)	1.600	mm	
Table movement (Y-Axis)	1.250	mm	
Vertical movement (Z-Axis)	1.000	mm	
Rotary table (C-Axis)	360 x 0,001	°	continuous
Milling head (B-Axis)	+ 180 / -7 x 0,001	°	continuous

Feeds

X-, Y- and Z-Axis, stepless	0 - 15.000	mm/min.
Rapid feeds in X / Y / Z	60.000	mm/min

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NC- Rotary table

Clamping surface	Ø 1.500 x 1.250	mm
Resolution of C-Axis	0,001	°
Max. Workpiece weight	4.000	kgs

Universal NC-Milling head

B-Axis, stepless	+ 180 / - 7	°
Resolution	0,001	°
Type of spindle	Motor spindle	
Max. Power S3, 40 % ED	28	kW
Speed range, stepless	20 - 18.000	min-1
Tool clamping system	HSK-63	DIN 69893 Form A

Automatic Tool changer

Tool places	60	Places
Tool holder	HSK-A63	mm

Dimensions, Weight

Machine space requirement	approx 8.800 x 8.800	m
Total height	approx. 3.500	mm
Machine weight	approx. 35.000	kgs

Connection data

Operating voltage	3 x 400	V
Operating frequency	50	Hz

Equipment and accessories

Versatile universal machining center with NC – Rotary table, tool magazine and large loading door at the front.

- NC-swivelling milling head with 18,000 rpm motor spindle for 5 -axis simultaneous machining
- 3D CNC - -Control HEIDENHAIN iTNC530
- HSK 63 spindle cone with internal coolant supply (IKZ)
- Direct travel measuring systems (glass scales in all three axes)
- Operation mode 4
- 60-position tool magazine with automatic changer
- Swivelling control panel for machine operators
- Exhaust system for oil/emulsion mist with separator
- Chip conveyor with side tank and lifting pump for coolant supply
- Coolant system with belt filter and large tank, with 40 bar high-pressure pump to provide the internal coolant supply
- Electronic handwheel Heidenhain HR410

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- Rotation disc
- Electronic 3D infrared measuring probe Hexagon m&h IRP 25.10 with receiver unit
- Chip cleaning unit
- 3 pcs. set-up elements
- Brankamp collision monitoring system
- Second operating terminal on the tool magazine
- Very well-maintained condition due the past premium service and maintenance contract with the machine manufacturer