

Technical Datasheet

CNC – 5-Axis Machining Center

manufacturer	DECKEL MAHO
type	DMC 125 U hi-dyn
control	HEIDENHAIN iTNC530
built	2002



Travels & working area

Cross (X-Axis)	1.250 mm
Table movement (Y-Axis)	880 mm
Vertical movement (Z-Axis)	800 mm
Max. workpiece diameter	Ø 1.250 mm
Max. workpiece height	1.230 mm

Feeds

X-, Y- und Z-Achse, stepless	0 - 15.000 mm/min.
Feeds in X / Y / Z	40.000 mm/min

NC- Rotary table

Number of pallets	2
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Pallet size	1.000 x 800	mm
Pallet diameter	Ø 1.100	mm
Max. table load	1.000	kgs
C-Axis	360 x 0,001	°

Universal NC-Milling head with motor spindle

B-Axis, Swivelling range	+ 180 / -7	°	stepless
Resolution	0,001	°	
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	

Dimensions, weight

Required space for machine	ca. 5,5 x 4,5 x 3,2	m
Machine weight	approx. 15.000	kgs

Connection data

Operation voltage	3 x 400	V
Operation frequency	50	Hz
Total power consumption	58	KVA

Equipment / Accessories

Universal milling machine in a very sturdy design with NC rotary table, tool magazine and pallet changer, NC swicelling milling head (B-head) with 18,000 rpm motor spindle for 5-axis simultanes

- 3D CNC-control HEIDENHAIN iTNC530
- Spindle cone HSK 63 with internal coolant supply (IKZ)
- Direct distance measuring system (glass scales in all trhee axes)
- Operation mode 4
- 60-slot tool magazine with automatic changer
- 3D Measuring probe
- Chip conveyor
- Internal coolant supply 40 bar with belt filter system
- Rotation viewing disc
- Chip cleaning pistol
- Documentation
- Machine on: approx 76.500h, Operation hours: approx. 69.800h