

### Technical Datasheet

#### CNC – 5-Axis Machining Center

manufacturer	<b>DECKEL MAHO</b>
type	<b>DMC 80 U duoBlock</b>
control	<b>HEIDENHAIN MillPlus IT</b>
built	<b>2009</b>



#### Travels & working area

Cross (X-Axis)	800 mm
Table movement (Y-Axis)	800 mm
Longitudinal (Z-Axis)	800 mm
Max. workpiece height	1.330 mm
Max. workpiece length	450 mm
Max. workpiece diameter	Ø 800 mm

#### Feeds

X-, Y- and Z-Axis, stepless	0 - 60.000 mm/min.
Feeds in X / Y / Z	60.000 mm/min
Max. feed rates X-Y-Z	12.000 N
Approx acceleration in X-Y-Z	7 m/s <sup>2</sup>

### NC- Rotary table

Clamping surface	Ø 800 x 630	mm
Resolution of C-Axis	0,001	°
Max. workpiece weight	1.200	Kg
Max. holding torque of the table surface	5.000	Nm
Max. speed of the table plate	30	rpm
Permitted mass moment of inertia max.	205	kgm <sup>2</sup> H12
Number and size of T-slots	5 x Gr.14	
Distance of T-slots	100	mm
Centering hole	Ø50H6	mm

### Universal NC-Milling head

B-Axis, stepless	180	°
Resolution	0,001	°
Type of spindle	Motor spindle	
Max. power S3, 40 % ED	28	kW
Max. torque S3, 40%	121	Nm
Speed range, stepless	20 - 18.000	min-1
Tool clamping system	HSK-63	DIN 69893 Form A

### Automatic Tool changer

Tool places	120	Places
Tool length max.	450	mm
Tool weight max.	15	kgs

### Dimensions, Weight

Required space for machine	ca. 4.500 x 4.600	m
Total height	ca. 3.400	mm
Machine weight	ca. 17.500	kg

### Connection data

Operating voltage	3 x 400	V
Operating frequency	50	Hz
Total power consumption (100% ED)	64	KVA
Required mains fuse	100	A

### Ausstattung / Zubehör

Universal milling machine in a very solid "duoBlock" design with NC rotary table, tool magazine and pallet changer.

- NC-swivelling milling head with 18,000 rpm motor spindle for 5-axis simultaneous machining
- 3D CNC-control HEIDENHAIN MillPlus iT
- Spindle cone HSK 63 with internal coolant supply (IKZ)
- Direct distance measuring system (glass scale in all three axes)
- SmartKey for operating mode 3
- SmartKey for operating mode 4
- 120-position tool magazine with automatic changer
- 2 pcs. Exchangeable pallets Ø800 x 630mm
- Swivelling control panel for machine operator
- Exhaust system for oil/emulsion mist with separator
- Chip conveyor with discharge height approx. 956mm
- Intermediate tank with feed pumps and high-pressure pump 40 bar)
- Maschine vorbereitet für zentrale Kühlmittelversorgung
- Chip cleaning gun
- 3 pcs installation elements
- Machine in new design
- Machine on: approx. 59.500h, Operation hours: approx 18.900h