

Technical Datasheet

5-axis CNC milling machine
with swivel spindle and NC dividing head

manufacturer	DECKEL MAHO
type	DMU 100 monoBLOCK®
control	HEIDENHAIN iTNC530
built	2008



Travels & working area

Longitudinal movement (X-Axis)	1.150 mm
Lateral movement (Y-Axis)	710 mm
Vertical movement (Z-Axis)	710 mm
B-Axis	+ 30 / - 120 °
A-Axis	360 °
Min. Distance between spindle nose and table surface	143 mm

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CNC – 5-Axis Milling machine

DMG DMU100 monoBLOCK®

Feeds

X-, Y- and Z-Axis, stepless	0 - 30.000	mm/min.
Rapid traverse in X / Y / Z	30.000	mm/min
Set-up mode in X-Y-Z	0 - 2.000	mm/min

Work table

Clamping surface	1.500 x 795	mm
Max. workpiece weight	1.100	kgs
Number and size of T-slots	11 x size14	
Distance of T-slots	63	mm

NC diving head with tailstock

Manufacturer	Lehmann	.
Peak height	160	mm

Universal NC-Milling head

B-Axis, stepless	+ 30 / - 120	°
Resolution	0,001	°
Type of spindle	Motor spindle	Liquid cooled
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
Tool clamping		hydraulic / mechanical

Automatic Tool changer

Type of magazine	chain	
Tool places	60	Places
Max.tool length	315	mm
Max. workpiece diameter	Ø130	mm

Dimensions, Weight

Required space for machine	ca. 6.000 x 3.200	m
Total height	ca. 3.400	mm
Machine weight	ca. 12.000	kgs

Connection data

Operating voltage	3 x 400	V
Operating frequency	50	Hz

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Total power consumption (100% ED)

55 KVA

Required mains fuse

100 A

Equipment / Accessories

CNC universal milling machine in a very stable 'monoBLOCK' design, ideal for single-part and small-batch production with swivel spindle, NC dividing head and tool magazine.

- NC-swivelling milling head hydraulically clampable, with HSK-A63 spindle taper and 18,000 rpm motor spindle
- LEHMANN vertical NC dividing head mounted on the machine table for 5-axis simultaneous machining with tailstock
- DMG ERGOline® Control with 19" screen and HEIDENHAIN iTNC530 3D contouring control
- Production package with RotoClear viewing window, 600-litre coolant tank, chip flushing in the work area door, belt filter system and internal coolant supply (IKZ) 40 bar
- 60-position chain tool magazine with automatic changer
- 3D measuring probe
- Operating mode 4
- Closed full protection cabin with large loading door and large viewing window
- Swivelling control panel for machine operator
- Extraction system for oil/emulsion mist with separator
- Scraper belt chip conveyor
- Main switch ON: 85,200 hours
- Operating hours approx. 34,500 hours
- Spindle hours since replacement approx. 8,000h



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