

Microcut machining Center type DMC-Series

Best
Quality



MICROCUT double column machining center, DMC series combines heavy cutting and high speed machining capabilities in one. Especially excellent for precision machining for extra heavy parts. With the roller type linear guideways on X/Y-axes and box way on Z-axis, the machine fully exhibits its heavy loading resistance and outstanding features.

To meet the high speed and high precision machining requirement, the gearbox also provides high torque output, allowing the machine to perform heavy cutting with ease. The spindle head is designed with advanced automatic compensation balancing system combined with the use of accumulator to control hydraulic cylinder allowing the spindle to move smoothly and steadily at all times.

Distinctive features:

- Roller type linear guideways on X/Y axes and box way on Z axis
- Three axes are transmitted by class C3 precision ballscrews
- Enclosed splash guard
- Automatic compensated balance system (SCBS) on spindle head
- Automatic lubrication system
- One-piece and box type base
- The beam and the columns are one-piece constructed
- Ladder type slide
- Rigid spindle head
- Lubrication oil and coolant are separately collected
- Extra wide working capacity

Standard equipment:

- Coolant flushing system
- 3 axes telescopic covers
- Automatic lubrication system
- Working lamp
- Operation status light
- Screw type chip conveyors
- Chain type 32-tool ATC
- Gear head spindle
- Cooling system
- Z-axis pneumatic balance system
- Air gun/water gun
- MPG handwheel
- Heat exchanger
- Spindle oil cooler
- Adjusting tools and box
- Leveling bolts and pads
- Operation and programming manual
- RS-232 Interface
- CE marking declaration conformity for EU

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Optional equipment:

- Transformer
- Full splash guard
- Chain type chip conveyor
- Coolant through spindle
- Linear scales
- Auto tool length measurement
- Auto workpiece measurement
- Manual universal head (90 degr.)
- Auto universal head (90 degr.)
- Rotary table
- Safety module for all types of controller



Individual coolant tank



Transformer



Chip conveyor

Double column machining center		DMC-A				DMC-B			DMC-C		
		1700A	2200A	3200A	4200A	2200B	3200B	4200B	2200C	3200C	4200C
Table size	mm	1700x1200	2200x1200	3200x1200	4200x1200	2200x1500	3200x1500	4200x1500	2200x1700	3200x1700	4200x1700
Max. table load	kg	5000	5000	8000	8000	5000	8000	8000	8000	10000	12000
Travel X-axis (linear)	mm	1700	2200	3200	4200	2200	3200	4200	2200	3200	4200
Travel Y-axis (linear)	mm	1400				1700			1900		
Travel Z-axis (box)	mm	850				850			850		
Spindle taper		ISO 50				ISO 50			ISO 50		
Spindle speed	rpm	8000				8000			8000		
Main motor	kW	15 / 18,5 (Fanuc)				15 / 18,5 (Fanuc)			15 / 18,5 (Fanuc)		
X/U/Y/X rapid feed	m/min.	20/20/20	16/20/20	16/20/20	12/20/20	16/16/20	16/16/20	12/16/20	12/16/20	12/16/20	10/16/20
X/U/Y/X cutting feed rate	m/min.	10/10/10				10/10/10			10/10/10		
ATC		Chain type - arm				Chain type - arm			Chain type - arm		
Tool storage capacity	Pcs.	32 / 40 (opt.)				32 / 40 (opt.)			32 / 40 (opt.)		
Max. tool length	mm	350				350			350		
Floor space (LxW)	mm	5800x4150	6090x4150	8130x4150	10310x4150	6090x5300	8130x5300	10310x5300	6090x5300	8130x5300	10310x5300
Weight machine	kg	15500	16000	17000	18000	21000	22500	24000	22000	23500	25000