

SDCC series



CNC Double Column Milling

The SDCC series of CNC bridge type milling and boring machines are the heaviest machines in their class, making them exceptionally stable and perfectly suited for heavy production operations, while maintaining exacting tolerances for precision machining. The modular design of these machines allows them to be configured and customized to the demands and applications of the customer..



Features

1. The headstock is equipped with symmetrical double hydraulic balancing mechanism to provide steady and accurate movement of the headstock
2. The large cross section design of the cross-beam and the step design of the guideways minimize the distance between the lower guide way and the spindle center line, and provide increased strength against bending and torsion.
3. The bed, column, cross beam, guide ways, and spindle box of the machine are made of iron cast in resin-bonded sand, and the ample ribbing structure provides super rigidity and steadiness of movement
4. The table of the machine has excellent positioning accuracy and static response characteristics, due to the optimal design which combines AC servo motor, high quality ball screws, and heavy duty linear guide ways.
5. Spindle is supported by precision bearings to increase rigidity and minimize run-out, it comes equipped with an oil chiller to minimize change in spindle temperature during operation, thus reduce thermal distortion.
6. Machine has advanced, safety, steady, high effective electric controlling system

Technical specifications

Item		Unit	SDCC1225		SDCC1230		SDCC1620		SDCC1630		SDCC1640		
Work table	Worktable size	mm	1250x2500		1250x3000		1600x2000		1600x3000		1600x4000		
	Distance between two columns	mm	1450		1450		2100		2100		2100		
	Max. load capacity	kg	5000		6000		8000		10000		12000		
	T-slot		22x7		22x7		22x9		22x9		22x9		
Machining range	Worktable Travel (X-axis)	mm	2500		3000		2200		3200		4200		
	Saddle travel (Y-axis)	mm	1250		1250		2300		2300		2300		
	Spindle box travel (Z-axis)	mm	750		750		1000		1000		1000		
	Distance from spindle nose to table surface	mm	Max.950/Min.200		Max.950/Min.200		Max.1200/Min.200		Max.1200/Min.200		Max.1200/Min.200		
Spindle	Spindle taper (7:24)		BT50		BT50		BT50		BT50		BT50		
	Spindle speed range	r/min	40-6000		40-6000		40-6000		40-6000		40-6000		
	Spindle torque	N.m	456 (continuous) / 611(30min)	468 (continuous) / 560(30min)	456 (continuous) / 611(30min)	468 (continuous) / 560(30min)	1050 (continuous) / 1435(30min)	1000 (continuous) / 1228 (30min)	1050 (continuous) / 1435(30min)	1000 (continuous) / 1228(30min)	1050 (continuous) / 1435(30min)	1000 (continuous) / 1228(30min)	
	Motor power of spindle	kw	12/16 (SIEMENS)	18.5/22 (FANUC)	12/16 (SIEMENS)	18.5/22 (FANUC)	30/41 (SIEMENS)	30/37 (FANUC)	30/41 (SIEMENS)	30/37 (FANUC)	30/41 (SIEMENS)	30/37 (FANUC)	
Feed	Cutting feed speed range	mm/min	1-10000		1-10000		1-8000		1-8000		1-8000		
	Rapid speed X/Y/Z-axis	mm/min	20/20/16		20/20/16		10/10/10		10/10/10		10/10/10		
Tool magazine	Max. tool length	mm	350		350		300		300		300		
	Type and capacity		disk type 20/ chain type 32		disk type 20/ chain type 32		chain type 60		chain type 32,40,50,60		chain type 32,40,50,60		
	Max tool diameter	Full	mm	Φ125		Φ125		Φ125		Φ125		Φ125	
		Adjacent socket empty	mm	Φ225		Φ225		Φ225		Φ225		Φ225	
	Tool changing time (tip to tip)	s	6		6		6		6		6		
Max. tool weight	kg	20		20		20		20		20			
Positioning accuracy	X-axis/ Y-axis/ Z-axis	mm	0.020/0.010/0.010		0.020/0.010/0.010		0.030/0.030/0.020		0.020/0.020/0.010 (with linear scale)		0.020/0.020/0.010 (with linear scale)		
Repeat ability	X-axis/Y-axis/ Z-axis	mm	0.012/0.006/0.006		0.012/0.006/0.006		0.018/0.018/0.012		0.012/0.012/0.006 (with linear scale)		0.012/0.012/0.006 (with linear scale)		
Electric total capacity	KV A	59	64	59	64	89	96	89	96	89	96		
CNC system		SIEMENS 802DSL	FANUC OI-MD	SIEMENS 802DSL	FANUC OI-MD	SIEMENS 802DSL	FANUC OI-MD	SIEMENS 840D	FANUC 3i	SIEMENS 840D	FANUC 3i		

Technical specifications

Item		Unit	SDCC2030		SDCC2040		SDCC2540		SDCC2550		SDCC2560	
Worktable	Worktable size	mm	2000x3000		2000x4000		2500x4000		2500x5000		2500x6000	
	Distance between two columns	mm	2500		2500		3200		3200		3200	
	Max. load capacity	kg	12000		14000		18000		20000		22000	
	T-slot		22x11		22x11		28x11		28x11		28x11	
Machining range	Worktable travel (X-axis)	mm	3200		4200		4200		5200		6200	
	Saddle travel (Y-axis)	mm	2700		2700		2700		2700		2700	
	Spindle box travel (Z-axis)	mm	1000		1000		1000		1000		1000	

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	Distance from spindle nose to table surface	mm	Max.1200/Min.200		Max.1200/Min.200		Max.1200/Min.200		Max.1200/Min.200		Max.1200 /Min.200		
Spindle	Spindle taper (7:24)		BT50		BT50		BT50		BT50		BT50		
	Spindle speed range	r/min	40-6000		40-6000		40-6000		40-6000		40-6000		
	Spindle torque	N.m	1050 (continuous) / 1435(30min)	1000 (continuous) / 1228(30min)	1050 (continuous) / 1435(30min)	1000 (continuous) / 1228(30min)	1050 (continuous) / 1435(30min)	1000 (continuous) / 1228(30min)	1050 (continuous) / 1435(30min)	1000 (continuous) / 1228(30min)	1050 (continuous) / 1435(30min)	1000 (continuous) / 1228(30min)	
	Motor power of spindle	kw	30/41 (SIEMENS)	30/37 (FANUC)	30/41 (SIEMENS)	30/37 (FANUC)	30/41 (SIEMENS)	30/37 (FANUC)	30/41 (SIEMENS)	30/37 (FANUC)	30/41 (SIEMENS)	30/37 (FANUC)	
Feed	Cutting feed speed range	mm/min	1-8000		1-8000		1-8000		1-8000		1-8000		
	Rapid speed X/Y/Z -axis	mm/min	10/10/10		10/10/10		10/10/10		10/10/10		10/10/10		
Tool magazine	Max. tool length	mm	300		300		300		300		300		
	Type and capacity		chain type 32,40,50,60		chain type 32,40,50,60		chain type 32,40,50,60		chain type 32,40,50,60		chain type 32,40,50,60		
	Max tool diameter	Full	mm	Φ125		Φ125		Φ125		Φ125		Φ125	
		Adjacent socket empty	mm	Φ225		Φ225		Φ225		Φ225		Φ225	
	Tool changing time (tip to tip)	s	6		6		6		6		6		
Max. tool weight	kg	20		20		20		20		20			
Positioning accuracy	X-axis/Y-axis/Z-axis	mm	0.020/0.020/0.010 (with linear scale)		0.025/0.020/0.010 (with linear scale)		0.025/0.020/0.010 (with linear scale)		0.025/0.020/0.010 (with linear scale)		0.025/0.020/0.010 (with linear scale)		
Repeatability	X-axis/Y-axis/Z-axis	mm	0.014/0.012/0.006 (with linear scale)		0.016/0.012/0.006 (with linear scale)		0.015/0.014/0.006 (with linear scale)		0.015/0.014/0.006 (with linear scale)		0.015/0.014/0.006 (with linear scale)		
Electric total capacity	KVA	89	96	89	103	89	103	89	103	89	103		
CNC system		SIEMENS 840D	FANUC 31i	SIEMENS 840D	FANUC 31i	SIEMENS 840D	FANUC 31i	SIEMENS 840D	FANUC 31i	SIEMENS 840D	FANUC 31i		

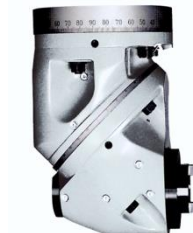
Standard accessories

1. Fanuc Oi-MD CNC controller or Siemens 802DSL CNC controller
2. Spindle Head unit from Taiwan
3. Fanuc αi series X/Y/Z axis motores
4. THK linear roller guide way for X axis
5. Linear guide way for Y axis/box way for Z axis
6. BT50 spindle with 6000 rpm ZF gear box
7. Spindle oil coolant system
8. Spindle motor Fanuc αi series
9. THK ball screws

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10. NSK bearings for ball screws
11. Encoder system for spindle positioning
12. Feed-back system for 3 axes encoder
13. Auto lubrication system
14. Guide way cover for X and Y axis
15. Bi-spiral chip conveyor X 2 sets
16. Rigidity tapping
17. Movable hand pulse generator
18. Working lamp and alarming lamp
19. Air condition for electrical cabinet
20. Semi-enclosed cover
21. CE standard
22. Fanuc warranty 2 years



Optional accessories

1. Linear scale for X, Y, Z axis
2. Disc type ATC 20 tools
3. Chain type ATC 32 tools
4. Spindle through coolant 20 bar

