# SPECIFICATIONS:

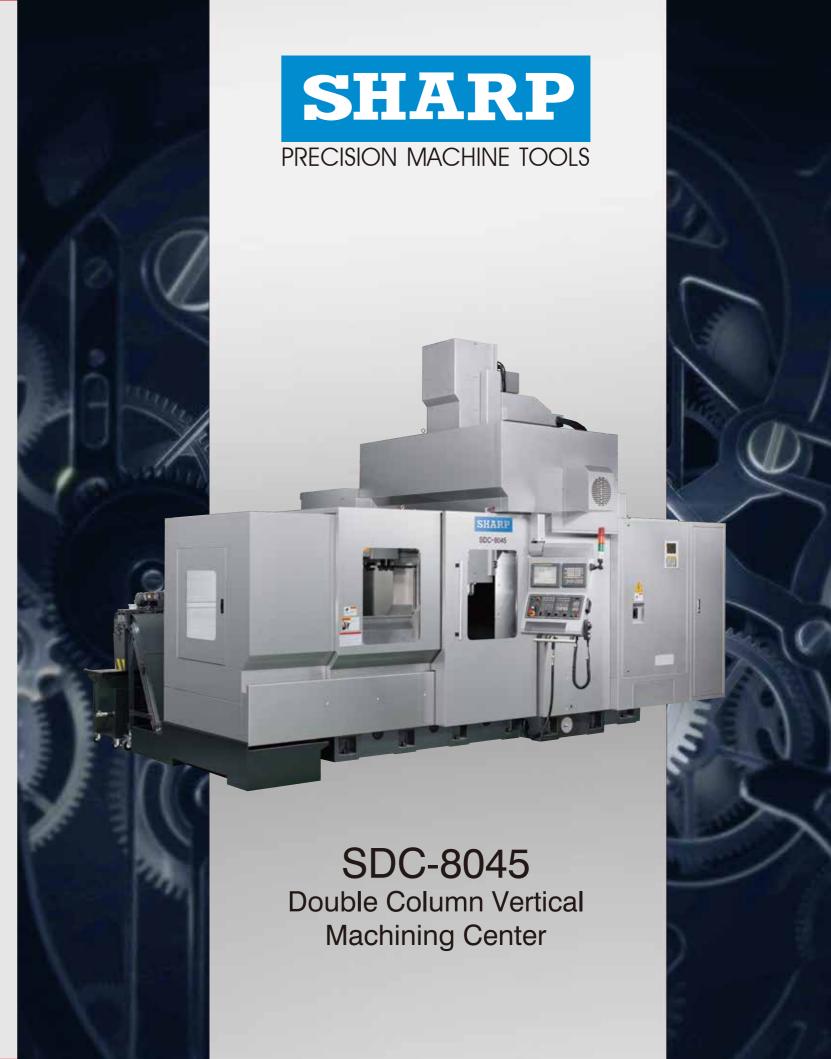
000	045-F	SDC-8045A-F	
80.7" (2050 mm)			
45.27" (1150 mm)			
27.55" (700 mm)			
7.87 ~ 35.43" (200~900mm)			
	86.61 x 39.97" (2200	0mm x 1000mm)	
32.67" (830 mm)			
	6600 Lbs (3	3000 kgs)	
6 x 0.86" x 6.29" (6 x 22mm x 160 mm)			
47.2" (1200 mm)			
X/Y/Z: 30 / 30 / 16 M/min			
X/: Ahpha 30-3000i Y/Z: Ahpha 22-3000i			
X: 2.48/0.47" (63mm/12mm) Y:1.57/0.39" (40mm/10mm)			
Z: 2/0.39" (50mm/10mm)			
0.04 - 393.7 inc/min			
Direct Drive			
CA	T40	CA	AT50
10,000 rpm		10,000 rpm	
· ·		35 HP	
Direc <sup>1</sup>	Drive	Direct Drive / Z	(FGear Box (Op)
			( 1 /
30 / (Op) 40 / 60T	(Op) 90 / 120T	32 / (Op) 40 / 60T	(Op) 90 / 120T
	Armless	type	
2.99" (76 mm)	3.54" (90 mm)	5" (127 mm)	5" (127 mm)
5" (127 mm)	7.08" (180 mm)	8.97" (228 mm)	8.97" (228 mm)
13.77" (350 mm)	13.77" (350 mm)	15.74/15.74/13.77" (400/400/350 mm)	15.74" (400 mm)
15.43l bs (7 kg)	15.43l bs (7 kg)	,	33.06Lbs (15 kg)
	, -,	,	3.57 sec
5.5 sec	9.6 sec	6.8sec	11.57 sec
Yes			
Yes			
	600 I		
	600 L		
	105 L /	min	
		min	
	105 L / screw	min type	
230.9x136.7"	105 L / screw 137" (348	min type :1 mm)	270.2x136.7"
230.9x136.7" (5865x3474 mm)	105 L / screw 137" (348 230.9x136.7"	min type 61 mm) 230.9x136.7"	270.2x136.7" (6865x3474 mm)
(5865x3474 mm)	105 L / screw 137" (348 230.9x136.7" (5865x3474 mm)	min type 31 mm) 230,9x136,7" (5865x3474 mm)	(6865x3474 mm)
	105 L / screw 137" (348 230.9x136.7"	min type 61 mm) 230.9x136.7"	
(5865x3474 mm)	105 L / screw 137" (348 230.9x136.7" (5865x3474 mm) 10406Lbs (22942 kgs)	min type 11 mm) 230.9x136.7" (5865x3474 mm) 10029Lbs (22110 kgs)	(6865x3474 mm)
(5865x3474 mm)	105 L / screw 137" (348 230.9x136.7" (5865x3474 mm) 10406Lbs (22942 kgs) 60 KVA/3PH/22	min type 31 mm) 230.9x136.7" (5865x3474 mm) 10029Lbs (22110 kgs)	(6865x3474 mm)
(5865x3474 mm)	105 L / screw 137" (348 230.9x136.7" (5865x3474 mm) 10406Lbs (22942 kgs)	min type 31 mm) 230.9x136.7" (5865x3474 mm) 10029Lbs (22110 kgs)	(6865x3474 mm)
	CA 10,00 25 Direct 30 / (Op) 40 / 60T  2.99" (76 mm) 5" (127 mm) 13.77" (350 mm)  15.43Lbs (7 kg) 2.5 sec 5.5 sec	86.61 x 39.97" (2200 32.67" (83 6600 Lbs (3 6 x 0.86" x 6.29" (6 x 47.2" (120  X/Y/Z: 30 / 30  X/: Ahpha 30-3000i  X: 2.48/0.47" (63mm/12mm) Y Z: 2/0.39" (50r 0.04 - 393.  Direct (1  CAT40 10,000 rpm 25 HP Direct Drive  30 / (Op) 40 / 60T (Op) 90 / 120T  Armless 2.99" (76 mm) 3.54" (90 mm) 5" (127 mm) 7.08" (180 mm) 13.77" (350 mm) 15.43Lbs (7 kg) 2.5 sec 1.6 sec 5.5 sec 9.6 sec  Random selection bi-direc	86.61 x 39.97" (2200mm x 1000mm)  32.67" (830 mm)  6600 Lbs (3000 kgs)  6 x 0.86" x 6.29" (6 x 22mm x 160 mm)  47.2" (1200 mm)  X///Z: 30 / 30 / 16 M/min  X/: Ahpha 30-3000i Y/Z: Ahpha 22-3000i  X: 2.48/0.47" (63mm/12mm) Y:1.57/0.39" (40mm/10m  Z: 2/0.39" (50mm/10mm)  0.04 - 393.7 inc/min  Direct Drive  CAT40  10,000 rpm  10,000  25 HP  Direct Drive / Z  30 / (Op) 40 / 60T (Op) 90 / 120T 32 / (Op) 40 / 60T  Armless type  2.99" (76 mm)  3.54" (90 mm)  5" (127 mm)  5" (127 mm)  7.08" (180 mm)  8.97" (228 mm)  13.77" (350 mm)  15.74/15.74/13.77" (400/400/350 mm)  15.43Lbs (7 kg)  15.43Lbs (7 kg)  3.5 sec  5.5 sec  Random selection bi-directional magazine rotation

<sup>\*</sup> Power Foundation and environmental controls are required.



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<sup>\*\*</sup>Specification is subject to change without further notice.

# SDC-8045-F / SDC-8045A-F Double Column Vertical Machining Center

- Heavy-duty cutting performance.
- Excellent and stable accuracy.
- User-friendly ergonomic design.
- High precision and rigidity.
- Wider door open range.
- High efficiency.
- Fully enclosed splashguard.

# Optimal Double Column Design Tough! Rugged! Stable!

- ► Meehanite cast iron for all structural parts.
- ▶ Double column design features exceptional stability during heavy cutting.
- ▶ Enlarged saddle and rigid head structure.
- Linear ways on 3 axes.
- ► Two chip augers are equipped at both sides of base.



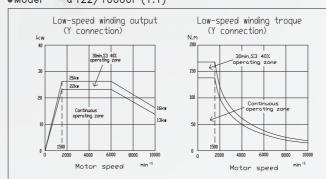
▶ FANUC Oi-MF CNC with 10.4" color LCD screen mounted on versatile pendant operating panel.

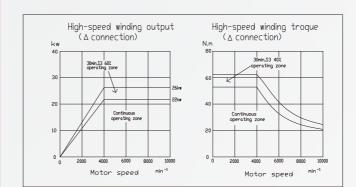


## STANDARD SPINDLE

- ► Easy for after service.
- ▶ High accuracy.
- ▶Cool jet around spindle.







## STANDARD ACCESSORIES

▶#50 taper, 32 T ATC, 35 HP motor

► Automatic lubrication system ► Sprial & flat type chip conveyor

► Heidenhain 3-Axis rotary table

▶ Portable electronic handwheel

▶ Fully enclosed splash guard

▶ Spindle coolant system

► Coolant gun (control by panel)

▶10,000 rpm spindle (Direct drive)

(SDC-8045A-F)

► Spindle chiller

(FANUC)

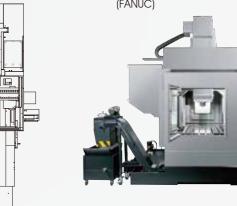
► Working light

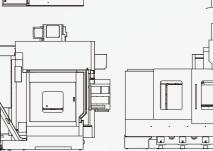
►Alarm liaht

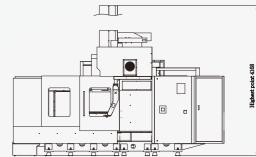
- ▶ #40 taper, 30T ATC, 25 HP motor ► Arm type ATC 40/60 Tools (SDC-8045-F)"
  - ▶ (#40) 15,000 rpm spindle (Direct drive) / 20,000 rpm spindle (Built-in)
  - ► (#50) 6,000 rpm spindle (ZF Gear Box)

**OPTIONAL ACCESSORIES** 

- ▶ Bigger spindle motor
- ► Coolant through spindle system
- ▶ Spindle air blow
- ▶ 4<sup>th</sup> or 4+5<sup>th</sup> axis rotary table
- ► Working piece measurement system
- ▶Tool length measurement system
- ► Heat exchanger on electrical cabinet
- ▶ Vacumn dust collector
- ▶ Power transformer
- ►CE (Safety door interlock)
- ► Air gun
- ► Window defogger
- ▶ Rapper fillter system
- ► Mist collection system
- ▶ Spindle temperature compensation (FANUC)









LARGE PRELOADED HIGH PRECISION BALLSCREWS ▶ Double nut C3 class precision ball screws are used on all three axes.

- ▶ Direct drive from servo motor to ball screw.
- ▶Ball screws diameter: X:63mm / Y: 40mm / Z: 50mm. ▶ Rapid traverse speed X,Y: 1181 ipm (30M/min), Z: 630
- ► Table size :86.6" x 40" (2200 x 1100 mm)
- ► Maximum table load: 6,600 lbs (3,000 kg)
- ▶One-piece base with two slots for chip auger at both sides minimizes cleanina time.



#### TRIPLE GUIDEWAYS FOR Y AXIS MOVEMENT

▶2 roller type linear guideways are on the face of bridge, and the 3rd is loacted on the top to offer excellent holding of headstock.



FULLY SUPPORTED TABLE AND VERTICAL HEAD

► The extra long saddle with 3 guideways fully support the table. The vertical head runs on 6 roller packs (3 on each side of linear guideway) offers high rigidity to spindle movement.



ELECTRICAL COMPONENTS ARRANGED IN MODULAR DESIGN FOR EASY MAINTENANCE



COOLANT GUN



▶ Loading and un-loading tools can be

done during machining. Tool change or tool selection will not be executed while door open for safety consideration.



WINDOW DEFOGGER DEVICE

▶The viewing window can get rid of coolant/cuttina fluid that splash on the glass and allow clear view of the machining process. This facilitate the monitoring of the macine operation.