

# MACHINE SPECIFICATIONS

## DBC S series

Description		Unit	DBC 110S	DBC 130S	
Travels	Travel distance	X-axis	2000 (78.7)		
		Y-axis	1500 (59.1)		
		Z-axis	1200 (47.2)		
		W-axis	500 (19.7)	600 (23.6)	
	Distance from spindle nose to table top		mm (inch)	0 ~ 1500 (0~59.1)	
	Distance from spindle nose to table center		mm (inch)	550 ~ 1750 (21.7~2.9)	
Feedrate	Rapid traverse	X, Y, Zaxes	12		
		W-axis	6		
	Cutting feedrate	X, Y, Zaxes	1 ~ 6000		
Table	Table size		1400 x 1600 (55.1x63.0)		
	Max. Swing diameter	Without semi-S/G	ø2550 (100.4)		
		With semi-S/G	ø2100 (82.7)		
	Load capacity	1400 x 1600 mm	kg (lb)	7000 (15432.1)	8000 {10000} (17636.7 {22045.9})
		1400 x 1800 mm	kg (lb)	-	-
		1600 x 1800 mm	kg (lb)	-	-
		1800 x 2000 mm	kg (lb)	-	-
2000 x 2200 mm		kg (lb)	-	-	
Spindle	Max. spindle speed		3000	2500	
	Boring spindle diameter		110 (4.3)	130 (5.1)	
	Quill diameter		-	-	
Motor	Spindle motor (30 min/cont.) {AMP UP: 15 min/cont.}		26/22 (34.9/29.5) {30/22 (40.2/29.5)}*	37/30 (49.6/40.2)	
ATC <small>OPTION</small>	Tool storage capacity		40 {60 / 90 / 120}*		
	Tool shank		MAS403 BT50		
	Max. tool diameter		ø130 / 250 / 400 / 600 <sup>(1)</sup> (5.1 / 9.8 / 15.7 / 23.6)		
	Max. tool length		600 (23.6)		
	Max. tool weight		30 (66.1)		
	Max. tool moment		34.3 (25.3)		
	Method of tool selection		Fixed address		
Power source	Electric power supply (rated capacity)		70		
Machine dimensions	Height		4200 (165.4)	4440 (174.8)	
	Length x Width		5540 x 5930 (218.1 x 233.5)		
	Weight		29000 (63933.1)	30000 (66137.7)	
CNC system			Fanuc 32i Plus	DN Solutions Fanuc i Plus	

\*{ } : Option

(1) For ø250 and ø400 mm tools, neighboring pots must be empty. For ø600 mm tools, neighboring two pots must be empty.

# MACHINE SPECIFICATIONS

## DBC II series

Description		Unit	DBC 110II	DBC 130II	DBC 130LII	DBC 160	DBC 160L	DBC 250LII	
Travels	Travel distance	X-axis	mm (inch)	2500 (98.4)	3000 (118.1)	4000(157.5)	4000 (157.5)	5000 (196.9)	4000 (157.5)
		Y-axis	mm (inch)	2000 (78.7)		2500 (98.4)	2500 (98.4)	3000 (118.1)	2500 (98.4)
		Z-axis	mm (inch)	1500 (59.1)	1600 (63.0)	2000 (78.7)	1600 (63.0)	2000 (78.7)	2000 (78.7)
		W-axis	mm (inch)	550 (21.7)	700 (27.6)		800 (31.5)	800 (31.5)	500 (19.7)
	Distance from spindle nose to table top	mm (inch)	0 ~ 2000 (0~78.7)		0 ~ 2500 (0~98.4)	0 ~ 2500 (0~98.4)	0 ~ 3000 (0~118.1)	0 ~ 2500 (0~98.4)	
	Distance from spindle nose to table center	mm (inch)	550 ~ 2050 (21.7 ~ 80.7)	700 ~ 2300 (27.6 ~ 90.6)	700 ~ 2700 (27.6 ~ 106.3)	850 ~ 2450 (33.5 ~ 96.5)	850 ~ 2850 (33.5 ~ 112.2)	770 ~ 2770 (30.3 ~ 109.1)	
Feedrate	Rapid traverse	X, Y, Z axes	m/min	12	10	10 / 8 / 10 {8 / 8 / 10}*	10 / 10 / 10 {8 / 10 / 10}^{(1)}	7.5 / 10 / 10	10 / 8 / 10
		W-axis	m/min	6(0.2)					10
	Cutting feedrate	X, Y, Z axes	mm/min	1 ~ 6000	1 ~ 4000				
Table	Table size	mm (inch)	1400 x 1800 (55.1 x 70.9)	1600 x 1800 (63.0 x 70.9) {1800 x 2000 (70.9 x 78.7), 2000 x 2200 (78.7 x 86.6)}*		2000 x 2200 (78.7 x 86.6)	2000 x 2200 (78.7 x 86.6)	1600 x 1800 (63.0 x 70.9) {1800 x 2000 (70.9 x 78.7), 2000 x 2200 (78.7 x 86.6)}*	
	Max. Swing diameter	Without semi-S/G	mm (inch)	ø3400 (ø133.9)	ø3900 (ø153.5)	ø4800 (ø189.0)	ø4800 (ø189.0)	ø5000 (ø196.9)	ø4800 (ø189.0)
		With semi-S/G	mm (inch)	ø2250 (ø88.6)	ø3400 (ø133.9)	ø3400 (ø133.9)	ø3400 (ø133.9)	ø3400 (ø133.9)	ø3400 (ø133.9)
	Load capacity	1400 x 1600 mm (55.1 x 63.0 inch)	kg (lb)	-	-	-	-	-	-
		1400 x 1800 mm (55.1 x 70.9 inch)	kg (lb)	10000 (22045.9)	-	-	-	-	-
		1600 x 1800 mm (63.0 x 70.9 inch)	kg (lb)	-	15000 (3306.9)		-	-	15000 (3306.9)
1800 x 2000 mm (70.9 x 78.7 inch)		kg (lb)	-	{13000 (28659.7)}*	{13000 (28659.7), 20000 (44091.8)}*	-	-	{13000 (28659.7)}*	
2000 x 2200 mm (78.7 x 86.6 inch)	kg (lb)	-	{12000 (26455.1)}*	{12000 (26455.1), 19000}*	20000 {25000} (44091.8 {55114.8})*	20000 (44091.8)	{12000 (26455.1)}*		
Spindle	Max. spindle speed	r/min	4000	3000		2000	2000	6000	
	Boring spindle diameter	mm (inch)	110 (4.3)	130 (5.1)		160 (6.3)	160 (6.3)	-	
	Quill diameter	mm (inch)	-		-	-	250 (9.8)		
Motor	Spindle motor (30 min/cont.) {AMP UP: 15 min/cont.}	kW (Hp)	26/22 {30/22}* , {45/37}* (34.9/29.5 {40.2/29.5}, {60.3/49.6})			45/37 (60.3/49.6)		30/22 (40.2/29.5)	
ATC <small>OPTION</small>	Tool storage capacity	ea	40 {60 / 90 / 120}*						
	Tool shank		MAS403 BT50						
	Max. tool diameter	mm	ø130 / 250 / 400 / 600^{(2)} (5.1 / 9.8 / 15.7 / 23.6)						
	Max. tool length	mm (inch)	600 (23.6)						
	Max. tool weight	kg (lb)	30 (66.1)						
	Max. tool moment	N · m (ft-lbs)	34.3 (25.3)						
	Method of tool selection		Fixed address						
Power source	Electric power supply (rated capacity)	kVA	70 {90 kVA with 45kW motor}*			90		70	
Machine dimensions	Height	mm (inch)	5070 (199.6)	5070 (199.6)	5570 (219.3)	6140 (241.7)	6650 (261.8)	5570 (219.3)	
	Length x Width	mm (inch)	7630 x 6990 (300.4 x 275.2)	8970 x 7640 (353.1 x 300.8)	9970 x 8040 (392.5 x 316.5)	9000 X 7900 (354.3 x 311.0)	10000 x 8300 (393.7 x 326.8)	9970 x 8040 (392.5 x 316.5)	
	Weight	kg (lb)	36000 (79365.2)	43000 (94797.4)	48000 {50000}* (105820.3 {110229.5})	49000 (108024.9)	51000 (112434.1)	48000 (105802.3)	
CNC system		F31iB Plus {Heidenhain, Siemens}							

\*{ } : Option

(1) For Ø250 and Ø400 mm tools, neighboring pots must be empty. For Ø600 mm tools, neighboring two pots must be empty.