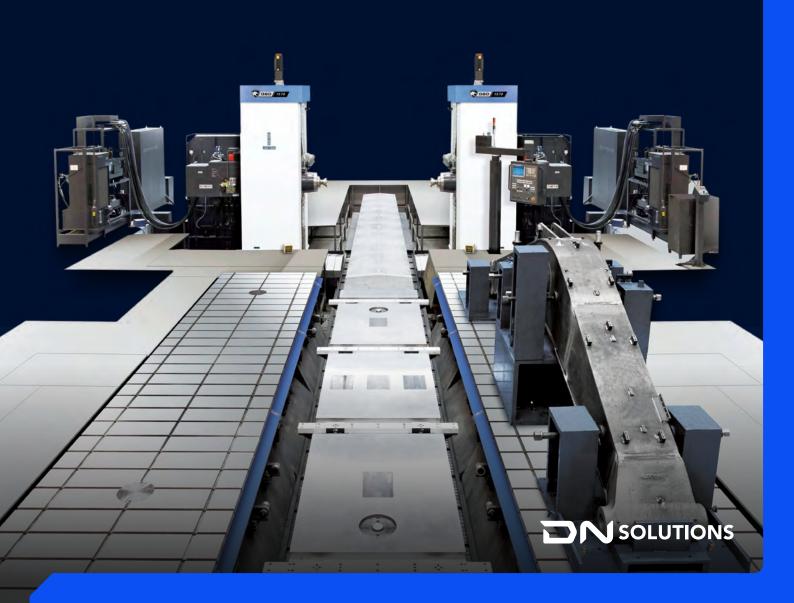


DBD SERIES FOR LARGE SIZED WORK-PIECE

DBD

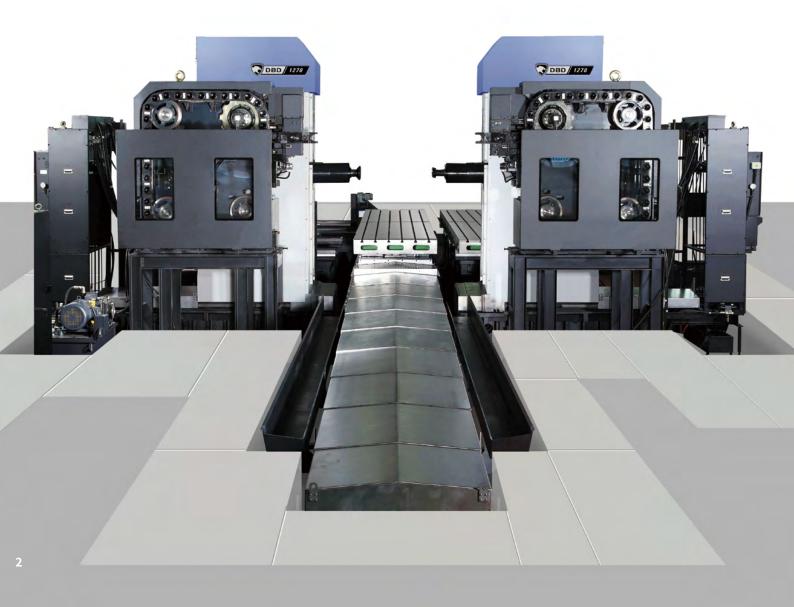
1270 · 1580



DBD SERIES

DBD series has two-headed boring spindles suitable for concentric processing to ensure high-precision and productivity through bidirectional simultaneous processing of symmetrical long workpieces.

Also, the length of the table can be extended depending on the size of the workpieces.





CONCENTRIC MACHINING THROUGH THE DUPLEX SPINDLE

- Max. spindle speed: 2500 r/min
- Max. spindle motor:
 26/22Kw (34.9 / 29.5 Hp)
 (Cont. / 30min)

BIG TABLE FOR LONG AND SYMMETRICAL MACHINING WIDE WORK AREA THROUGH AXIS EXTENSION

- DBD 1270:
- 1250 X 7000 mm (49.2 x 275.6 inch)
- DBD 1580 : 1500 X 8000 mm (59.1 x 315.0 inch)

IMPROVEMENT OF EASE OF USE THROUGH AUTOMATIC TOOL CHANGER

• High-speed and smooth operation and reduced noise by servo-driven tool magazine

BASIC STRUCTURE

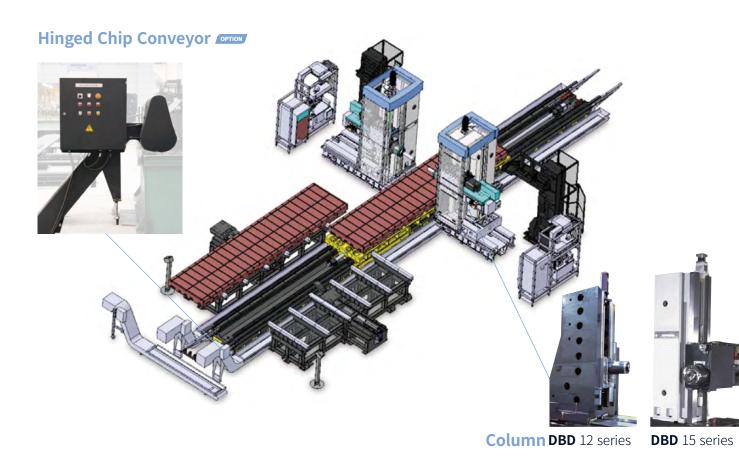




Table moving type realized by linear motion guide provides fast rapid traverse.

Table size (W×L)

DBD 1270

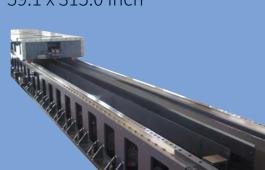
1250 x 7000 mm

49.2 x 275.6 inch

DBD 1580

1500 x 8000 mm

59.1 x 315.0 inch



* Please consult with DN Solutions for increasing the table length.

SPINDLE

Spindle driving torque optimized by 3-steps gear change mechanism.



Max. spindle speed

2500 r/min

Motor (Cont. / 30 min)

26/22 kW 34.9 / 29.5 Hp

Gear transmission

3 steps

AUTOMATIC TOOL CHANGER

Tool Magazine by servo control will be accomplished higher reliability, speed smooth operation and reducing noise.

Acceptable Tool Dimensions

	Spec.	Shape		
Max. tool diameter	Facing Tool D = Ø130mm (Ø5.1 inch) [Continous]			
	Boring Tool D = ø400 mm (15.7 inch) [Adjacent pots empty	O 250mm		
Max. tool length	L = 400 mm (15.7 inch)			
Max. tool weight	W = 25 kg (55.1 lb)	W Max. A		



STANDARD | OPTIONAL SPECIFICATIONS

A range of options is available to suit individual requirements.

	n Item		Specifications	DBD 1270	DBD 1580
	X-axis		7000 mm	•	Х
			8000 mm	X	•
	STROKE	Y-axis	1500 mm 2000 mm	X	X
	STROTE	7	450 mm	X	
		Z-axis	1000 mm	•	X
RAVEL		W-axis	500 mm	X	•
	DISTANCE BETWEEN 2	SPINDLE ENDS	400 ~ 2,300 mm 500 ~ 2,500 mm	X	X
			200 ~ 1,150 mm	X	- ^
	DISTANCE BETWEEN I	TABLE CENTER AND SPINDLE END	250 ~ 1,250 mm	•	X
	SPINDLE CENTER TO	TABLE TOP	300 ~ 1,800 mm		X
			300 ~ 2,300 mm 1,250 × 7,000 mm	X	X
NUDING TABLE	CAPACITY	TABLE SIZE (WIDTH X LENGTH)	1,500 × 8,000 mm	X	Ô
DIVIDING TABLE		LOAD CAPACITY	MAX. 10,000 kg	•	
	T-SLOT × NUMBERS		24H8 mm		•
	SPINDLE DRIVE MOTO	R (30 min./cont. rating)	26 / 22 kW 30 / 22 kW	X	
	SI INDEE DINVE MOTO	it (50 min./cont. rating)	37 / 30 kW	Ô	X
	SPINDLE SPEED		2500 r/min	X	
	NUMBER OF SPEED RA	NCES	3000 r/min 3 STEPS		X
	TOOL SHANK	ANGES	MAS403 BT 50		
SPINDLE HEAD	PULL STUD		MAS403-P50T-1(45°)	ě	Ŏ
	ORIENTATION		POSITION CODER	•	•
	TAPER TYPE		ISO #50, 7/24 TAPER		
	CDINIDI E CC C:	TANK CAPACITY	40 x 2EA L 120 x 2EA L	X	â
	SPINDLE COOLING	CAPACITY	2994(60Hz)/2495(50Hz) Kcal/h	ê	X
			9028(60Hz)/7583(50Hz) Kcal/h	X	•
	RAPID TRAVERSE	X/Y/Z-axis X/Y/Z/W-axis	12,000 / 12,000 / 12,000 mm/min 10,000 / 10,000 / 10,000 / 6,000 mm/min	X	X
	MAX. CUTTING	X/Y/Z-axis	4000 mm/min	- ^	X
	FEEDRATE	X/Y/Z/W-axis	4000 mm/min	X	Ô
	FEED MOTOR	X/Y/Z-axis	AC 9.0 / 9.0 / 9.0 kW	•	X
XIS SYSTEM	TEEDINGTOR	X/Y/Z/W-axis	AC 9.0 / 9.0 / 9.0 / 4.0 kW	X	X
AVI 2 2 L 2 I E MI	FEEDBACK SYSTEM	X / Y / Z-axis X / Y / Z /W-axis	INC. PULSE CODER INC. PULSE CODER	X	Â
	POSITIONING	X/Y/Z-axis	±0.01 / 1000mm	ê	X
	ACCURACY	X/Y/Z/W-axis	±0.01 / 1000mm	X	•
	REPEATABILITY	X/Y/Z-axis X/Y/Z/W-axis	±0.010 mm ±0.010 mm	X	X
	CONCENTRICITY	A/T/Z/W-dXIS	±0.05 mm	- Â	
	SLIDEWAY COVERS (X	/ Z-axis)	2 set	Ŏ	Ŏ
	COLUMN GUIDEWAY C		1 set	•	X
	SPINDLE ORIENTATIO PORTABLE MPG	N	POSITION CODER set 1 set		
	MAIN OP. PANEL		1 set	Ť	Ŏ
		MP (RED / YELLOW / GREEN)	1 set	•	
STANDARD	TABLE CHIP PAN(ARO		1 set 2 set		
ACCESSORIES	WORK LIGHT (HALOGEN LAMP) FOOT SWITCH FOR TOOL UNCLAMP		2 set		
	TOOL KIT		1 set	Ŏ	Ŏ
	CUSTOMER'S MANUAL		1 set	•	•
	LEVELING BLOCKS & ANCHORING BOLTS ⁽³⁾ SPINDLE OIL COOLER		1 set 2 set		
	TEST BAR		2 set	<u> </u>	
	OPERATOR GUARD		1 set	•	
	TOOL STORAGE CAPAGE	CITY	40 EA 60 EA	0	0
	TOOL SHANK		MAS403 BT 50		
	PULL STUD		MAS403-P50T-1(45°)	ě	Ŏ
ATC	TOOL SELECTION TYP		FIXED ADDRESS		•
	MAX. TOOL DIAMETER MAX. TOOL LENGTH		Φ130(CONT.), Φ250(ADJACENT BOTH-SIDE 1POT EMPTY) mm		•
	MAX. TOOL LENGTH MAX. TOOL WEIGHT		400 mm 25 kg		
	MAX. TOOL MOMENT		29.4 N·m	Ŏ	Ŏ
APC	NUMBER OF PALLETS		2 EA	Ŏ	Ŏ
	APC TYPE		PARALLEL SHUTTLE (Z-DIRECTION) 1,250 × 7,000 mm		X
	PALLET SIZE (WIDTH×LENGTH)		1,500 × 8,000 mm	X	Ô
	MAX. WORKPIECE WEIGHT		10000 kg	Q	Ŏ
INFADECALE	T-SLOT		24H8 mm	0	0
INEAR SCALE EEDBACK SYSTEM	INCREMENTAL TYPE		X / Y1 / Y2-axis SET	0	0
LLUDACK STSTEM	CHIP DISPOSAL				
CHID DISDOSAL	(LIFT UP CHIP	HINGED BELT	0.75 kW SET	0	0
CHIP DISPOSAL	CONVEYOR)				
AXIS EXTENSION	CHIP BUCKET STROKE	Y-axis	360 L 2000 mm		X
PNEUMATICACCESSORY	AIR	AIR SPRAY GUN	1 SET	ŏ	Ô
MEASUREMENT	WORK SETTING GUIDE	AUTO. WORKPIECE MEASUREMENT (1)	RENISHAW (RMP60)-2SET/EA SET	Ŏ	O O
		AUTO OFFSET MEASUREMENT WITH RMP6	60 RENISHAW (RMP60)-2SET/EA + S/W FUNCTION EA		\square

^{*} Please contact your DN Solutions representative for detailed machine information.

^{*} When using a semi-synthetic type or synthetic type, contact our sales representative or service center in advance.

FANUC 32i PLUS

Fanuc 32i Plus maximizes customer productivity and convenience.

15" Touch screen + New OP

Fanuc 32i Plus

USB and PCMCIA card QWERTY keyboard



iHMI touchscreen

iHMI provides an intuitive interface that uses a touchscreen for quick and easy operation.

Range of applications

Providing various applications related to planning, machining, improvement and utility, for customer convenience.



NUMERIC CONTROL SPECIFICATIONS

FANUC

Division	Item	Cuasifications	DBD1680	DBD1270
DIVISION	item	Specifications	F32iB PLUS	F32iB PLUS
Controlled axis	Controlled axes		4 (X,Y1,W1,Z1,Y2, Z2,W2)	4 (X,Y1,Z1,Y2, Z2)
	Simultaneously controlled axes		4 axes	4 axes
	Additional controlled Axis	Add 1 Axis (5th Axis)	•	•
Data input/ output	Fast data server		0	0
	Memory card input/output		•	•
	USB memory input/output		•	•
	Large capacity memory(2GB)*2	Available Option only with 15" Touch LCD (iHMI Only) *2)	0	0
	Embedded Ethernet		•	•
Interface function	Fast Ethernet		0	0
lunction	Enhanced Embedded Ethernet function		•	•
	DNC operation	Included in RS232C interface.	•	•
Operation	DNC operation with memory card		•	•
	Workpiece coordinate system	G52 - G59	•	•
Program input	Addition of workpiece coordinate system	G54.1 P1 X 48 (48 pairs)	•	•
	Tool number command	· ·	T4 digits	T4 digits
	Tilted working plane indexing command	G68.2 TWP	X	X
	Al contour control I	G5.1 Q_, 40 Blocks	X	Х
	Al contour control II	G5.1 Q_, 200 Blocks	Х	Х
Feed function	Al contour control II	G5.1 Q_, 600 Blocks	•	•
	Al contour control II	G5.1 Q , 1000 Blocks *1)	Х	Х
	High smooth TCP		X	Х
Operation	EZ Guidei (Conversational Programming Sc	olution)	0	0
Guidance	iHMI with Machining Cycle	Only with 15" Touch LCD standard *2)	•	•
Function	EZ Operation package	,	•	•
Setting and display	CNC screen dual display function		•	•
	FANUC MTConnect		O	0
Network	FANUC OPC UA		•	0
		15" color LCD	X	Х
	Display unit	15" color LCD with Touch Panel	•	•
		640M(256KB)_500 programs	X	Х
		1280M(512KB)_1000 programs	Х	Х
		2560M(1MB)_1000 programs	Х	Х
		5120M(2MB)_1000 programs	X	X
Others	Part program storage size & Number of	10240M(4MB)_1000 programs	•	•
	registerable programs	20480M(8MB)_1000 programs	0	0
	, , , , , , , , , , , , , , , , , , ,	2560M(1MB)_2000 programs	0	0
		5120M(2MB)_4000 programs	0	0
		10240M(4MB)_4000 programs	0	0
		20480M(8MB)_4000 programs	0	0

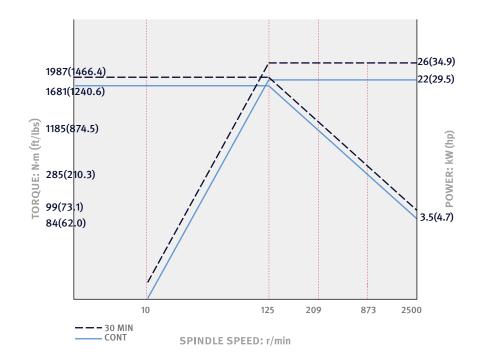
POWER | TORQUE

DBD 1270

Max. spindle speed: 25000 r/min

Max. power: **26/22** kW 34.9/29.5 Hp

Max Torque : **1987** N·m 1466.4 lbf-ft

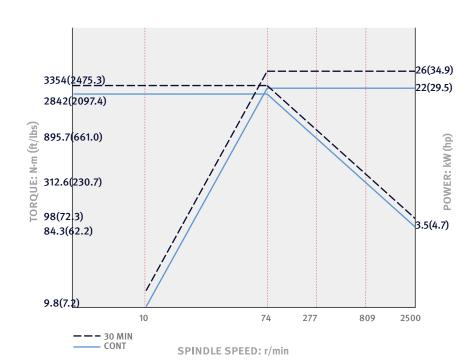


DBD 1580

Max. spindle speed: 25000 r/min

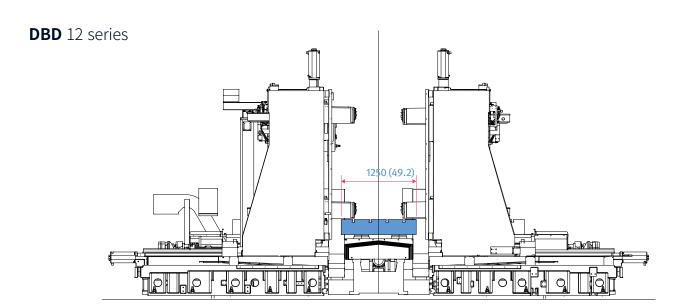
Max. power: **26/22** kW 34.9/29.5 Hp

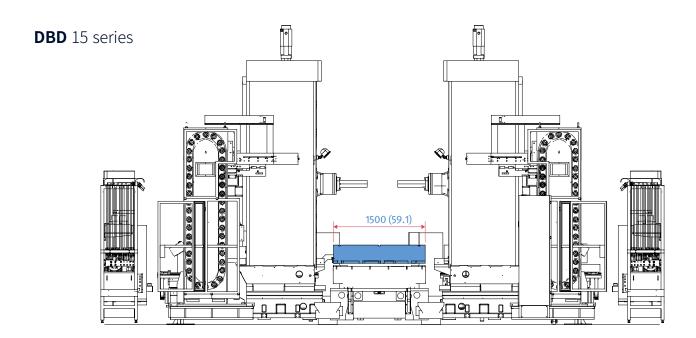
Max Torque : **3354** N · m 2475.3 lbf-ft



EXTERNAL DIMENSIONS

Unit: mm (inch)





	DBD 12 series (Z-axis spindle)	DBD 15 series (Z/W-axis spindle)	
Table size (Width)	1250 (49.2)	1500 (59.1)	
Column ~ Table center	800 (31.5)	1040 (40.9)	
Spindle nose	550 (21.7)	340 (13.4)	
The distance between spindle	550 (21.7)	400 (15.7)	
W-axis travel	-	500 (19.7)	
Spindle bearing inner dia.	ø100 (ø3.9)	ø190 (ø7.5)	
Spindle nose dia.	ø320 (ø12.6)	ø390 (ø15.4)	

MACHINE SPECIFICATIONS

	Description		Unit	DBD 1270	DBD 1580	
		X-axis	mm (inch)	7000 (275.6)	8000	
	Travel distance	Y-axis	mm (inch)	1500 (59.1)	2000	
		Z-axis	mm (inch)	1000 (39.4)	450	
Travels		W-axis	mm (inch)	-	500	
	Spindle center to table top		mm (inch)	150~1650 {150~2150} (5.9~64.9 {5.9~84.6})	0~2000	
	Distance between spindles		mm (inch)	500~2500 (19.7~98.4)	400~2300	
		X-axis	mm/min (ipm)	12000 (472.4)	10000	
Feedrates	Rapid Traverse Rate	Y-axis	mm/min (ipm)	12000 (472.4)	10000	
reediates		Z-axis	mm/min (ipm)	12000 (472.4)	6000	
	Cutting feedrate	X / Y / Z-axis	mm/min (ipm)	4000 (157.5)		
Table *	Table size		mm (inch)	1250 × 7000 (49.2 × 275.6)	1500 × 8000 (59.1 × 315.0)	
	Table loading capacity		kg (lb)	7000 (15432.1)		
	Max. spindle speed		r/min	2500		
	Number of speed range			3		
Spindle	Spindle Taper		-	ISO #50, 7/24 taper		
	Spindle motor (30min./cont.)		kW (Hp)	26 / 22 (34.9 / 29.5)		
	Tool Shank		-	MAS 403 BT50		
	Pull stud		-	MAS 403 P50T-1 (45°)		
	Tool storage capa.		ea	40 {60}		
Automatic Tool	Max. tool diameter	Continous	mm (inch)	130 (5.1)		
Changer		1 pot empty	mm (inch)	250 (9.8)		
	Max. tool length		mm (inch)	400 (15.7)		
	Max. tool weight		kg (lb)	25 (55.1)		
	Method of tool selection			Fixed address		
Machine Dimensions	Length x Width		mm (inch)	20800 × 10700 (818.9 × 421.3)	23000 × 10700 (905.5 × 421.3)	
	Height		mm (inch)	4500 (177.2)	5000 (196.9)	
	Weight		kg (lb)	58000 (127866.2)	86000 (189594.7)	

RESPONDING TO CUSTOMERS ANYTIME, ANYWHERE

DN Solutions Global Network

DN Solutions provides systems-based professional support services, before and after the machine tool sale, by responding quickly and efficiently to customers. By supplying spare parts, product training, field service and technical support, we provide the expert care, attention and assistance our customers expect from a market leader.

Global sales a	nd service support network	51	Technical centers Technical center, Sales support, Service support, Parts support
4	Corporations	200	Service posts
155	Dealer networks	3	Factories



CUSTOMER SUPPORT AND SERVICES

We're there for you whenever you need us.

We help our customers operate at maximum efficiency by providing them with a range of tried, tested and trusted services - from pre-sales consultancy to post-sales support.



Field services

- On-site service
- · Machine installation and testing
- Scheduled preventive maintenance
- Machine repair service



Parts supply

- Supplying a wide range of original DN Solutions spare parts
- Parts repair service



Training

- Programming, machine setup and operation
- Electrical and mechanical maintenance
- Applications engineering



Technical support

- Supports machining methods and technology
- Responds to technical queries
- · Provides technical consultancy









dn-solutions.com

Head Office 22F T Tower, 30, Sowol-ro 2-gil Jung-gu, Seoul, Korea, 04637 Tel +82-2-6972-0370/0350 Fax+82-2-6972-0400

DN Solutions America

19A Chapin Road, Pine Brook New Jersey 07058, United States Tel: +1-973-618-2500

Fax: +1-973-618-2501

DN Solutions Europe Emdener Strasse 24, D-41540 Dormagen, Germany Tel: +49-2133-5067-100 Fax: +49-2133-5067-111

DN Solutions India

No.82, Jakkuar Village Yelahanka Hobil, Bangalore-560064

Tel: +91-80-2205-6900 E-mail: india@dncompany.com

*DN Solutions China*Room 101,201,301, Building 39 Xinzhuan
Highway No.258 Songjiang District
China Shanghai (201612)

Tel: +86 21-5445-1155 Fax: +86 21-6405-1472

Sales inquiry

sales@dncompany.com

^{*} Specifications and information contained within this catalogue may be changed without prior notice.



^{*} For more details, please contact DN Solutions.