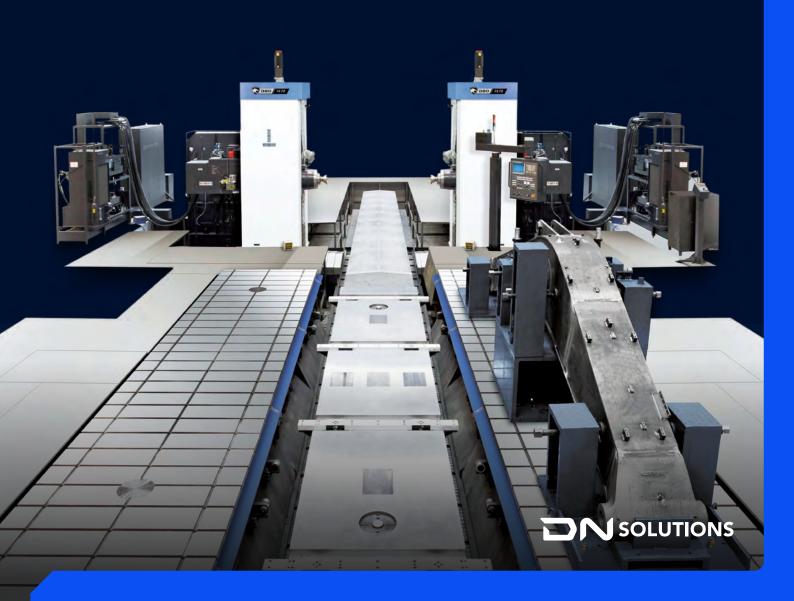


DBD SERIES FOR LARGE SIZED WORK-PIECE

DBD

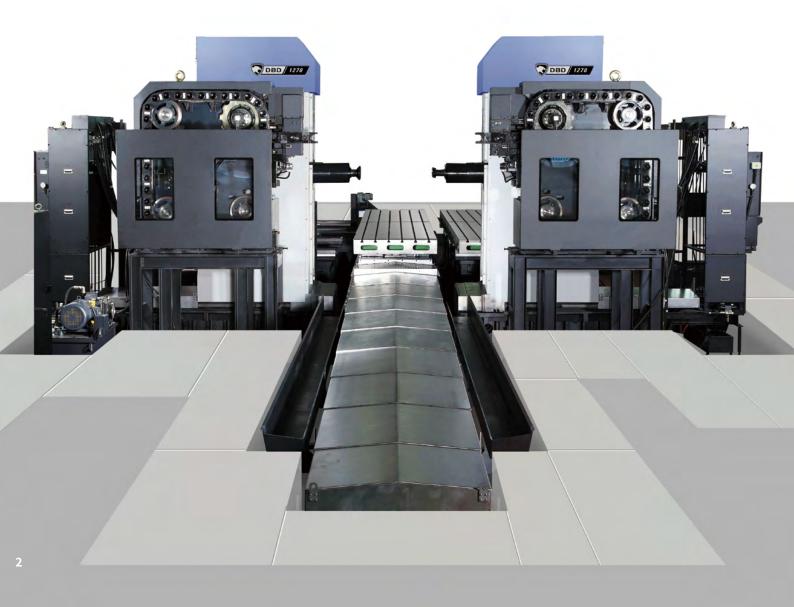
1270 · 1580



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

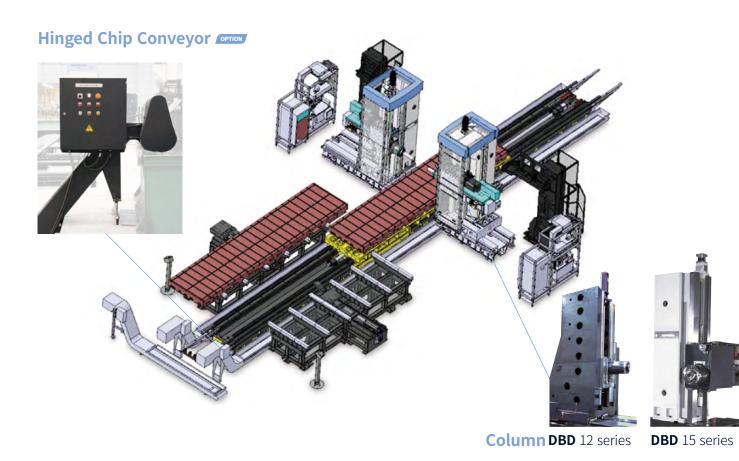




Table moving type realized by linear motion guide provides fast rapid traverse.

Table size (W×L)

DBD 1270

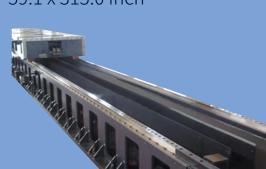
1250 x 7000 mm

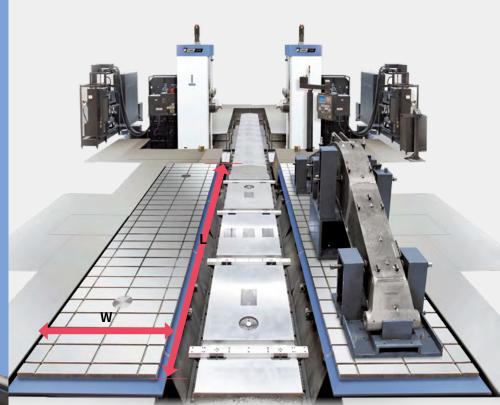
49.2 x 275.6 inch

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	OZSOMM OZSOMM
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.

Division	Item		Specifications	DBD 1270	DBD 158
		X-axis	7000 mm		X
TRAVEL			8000 mm	X	V
	STROKE	Y-axis	1500 mm 2000 mm	X	X
	STROTE	- .	450 mm	X	
		Z-axis	1000 mm	<u> </u>	X
		W-axis	500 mm	X	•
	DISTANCE BETWEEN 2	2 SPINDLE ENDS	400 ~ 2,300 mm	X	V
			500 ~ 2,500 mm 200 ~ 1,150 mm	X	X
	DISTANCE BETWEEN	TABLE CENTER AND SPINDLE END	250 ~ 1,250 mm	•	X
	SPINDLE CENTER TO	TARLE TOP	300 ~ 1,800 mm	•	X
	SI INDEE CENTER TO	INDEE TO	300 ~ 2,300 mm	X	V
	CAPACITY	TABLE SIZE (WIDTH X LENGTH)	1,250 × 7,000 mm 1,500 × 8,000 mm	X	X
IVIDING TABLE	CAFACITI	LOAD CAPACITY	MAX. 10.000 kg	Â	-
	T-SLOT×NUMBERS		24H8 mm	Ŏ	Ŏ
			26 / 22 kW		
	SPINDLE DRIVE MOTO	R (30 min./cont. rating)	30 / 22 kW 37 / 30 kW	<u>X</u>	
			2500 r/min	X	X
	SPINDLE SPEED		3000 r/min	<u> </u>	X
	NUMBER OF SPEED RA	ANGES	3 STEPS	•	•
SPINDLE HEAD	TOOL SHANK		MAS403 BT 50	•	_
	PULL STUD ORIENTATION		MAS403-P50T-1(45°) POSITION CODER		
	TAPER TYPE		ISO #50, 7/24 TAPER		
		TANK CAPACITY	40 x 2EÁ L	Ŏ	X
	SPINDLE COOLING	TAINN CAFACITI	120 x 2EA L	X	
	J. HIDEL GOOLING	CAPACITY	2994(60Hz)/2495(50Hz) Kcal/h		X
		X / Y / Z-axis	9028(60Hz)/7583(50Hz) Kcal/h 12.000 / 12.000 / 12.000 mm/min	X	X
	RAPID TRAVERSE	X/Y/Z/W-axis	10,000 / 10,000 / 10,000 / 6,000 mm/min	X	Ô
	MAX. CUTTING	X/Y/Z-axis	4000 mm/min	•	X
	FEEDRATE	X/Y/Z/W-axis	4000 mm/min	X	
	FEED MOTOR	X/Y/Z-axis	AC 9.0 / 9.0 / 9.0 kW		X
XIS SYSTEM		X / Y / Z /W-axis X / Y / Z-axis	AC 9.0 / 9.0 / 9.0 / 4.0 kW INC. PULSE CODER	X	X
AIS SISILM	FEEDBACK SYSTEM	X/Y/Z/W-axis	INC. PULSE CODER	X	- â
	POSITIONING	X/Y/Z-axis	±0.01 / 1000mm	•	X
	ACCURACY	X/Y/Z/W-axis	±0.01 / 1000mm	X	
	REPEATABILITY	X/Y/Z-axis	±0.010 mm ±0.010 mm	X	X
	CONCENTRICITY	X/Y/Z/W-axis	±0.05 mm	Â	
	SLIDEWAY COVERS (X	/ Z-axis)	2 set	ě	
	COLUMN GUIDEWAY		1 set	•	X
	SPINDLE ORIENTATIO	N	POSITION CODER set	•	-
	PORTABLE MPG MAIN OP. PANEL		1 set		
		MP (RED / YELLOW / GREEN)	1 set	-	
TANDARD	TABLE CHIP PAN(ARO	UND TABLE ONLY)	1 set	•	
CCESSORIES	WORK LIGHT (HALOG		2 set		
	FOOT SWITCH FOR TO	OOL UNCLAMP	2 set 1 set		
	TOOL KIT CUSTOMER'S MANUAL		1 set		
	LEVELING BLOCKS & ANCHORING BOLTS(3)		1 set		Ŏ
	SPINDLE OIL COOLER		2 set	•	
	TEST BAR		2 set	•	•
	OPERATOR GUARD		1 set 40 EA		
	TOOL STORAGE CAPA	CITY	60 EA	ŏ	0
	TOOL SHANK		MAS403 BT 50	ě	Ŏ
	PULL STUD		MAS403-P50T-1(45°)	•	•
тс	TOOL SELECTION TYP		FIXED ADDRESS	_	_
	MAX. TOOL DIAMETER MAX. TOOL LENGTH		Φ130(CONT.), Φ250(ADJACENT BOTH-SIDE 1POT EMPTY) mm 400 mm		
	MAX. TOOL LENGTH MAX. TOOL WEIGHT		25 kg		
	MAX. TOOL MOMENT		29.4 N·m	Ŏ	Ŏ
	NUMBER OF PALLETS		2 EA	0	0
	APC TYPE		PARALLEL SHUTTLE (Z-DIRECTION)	$ \stackrel{\circ}{\sim}$	$ \bigcirc$
PC	PALLET SIZE (WIDTH>	(LENGTH)	1,250 × 7,000 mm 1,500 × 8,000 mm	X	X
	MAX. WORKPIECE WE	GHT	1,500 × 8,000 Hilli 10000 kg	Ô	0
	T-SLOT		24H8 mm	Ŏ	Ŏ
INEAR SCALE EEDBACK SYSTEM	INCREMENTAL TYPE		X / Y1 / Y2-axis SET	0	0
HIP DISPOSAL	CHIP DISPOSAL (LIFT UP CHIP CONVEYOR)	HINGED BELT	0.75 kW SET	0	0
	CHIP BUCKET		360 L	0	0
XIS EXTENSION	STROKE	Y-axis	2000 mm	Ŏ	X
NEUMATICACCESSORY	AIR	AIR SPRAY GUN	1 SET	Q	0
		AUTO. WORKPIECE MEASUREMENT (1	RENISHAW (RMP60)-2SET/EA SET		

^{*} Please contact DN Solutions to select detailed steady rest specifications

[●] Standard ● Optional X Not applicable

CONVENIENT OPERATION

Fanuc 32i

User-friendly operation panel

The FANUC 32i is the core FANUC CNC system. Featuring an array of functions and advanced control technologies, the 32i is the ideal control for high-performance lathes and machining centers. Leading-edge hardware has enhanced the basic performance of the CNC, servos and the PMC to support advanced CNC functionality and operation. The end result is an intuitive, fast and vastly improved operator experience.

Design optimized for customers' needs based on our extensive know-how				
Designed for user convenience	 Convenient and intuitive UI Optimized button size High-visibility lamps Long life cycle buttons Partitioned to prevent operator error 			
Convenient option buttons	Detachable buttons Spare I/O signal ports for optional devices			
Customized functionality	Customer-specific function switches Available for auxiliary panel design			



NUMERIC CONTROL SPECIFICATIONS

FANUC

Division	Item	Specifications	DBD1680 F32iB	DBD1270 F32iB
	Controlled axes		4	4
Controlled axis	Cincultana a cualiu a custuralla di accas		(X,Y1,W1,Z1,Y2, Z2,W2)	(X,Y1,Z1,Y2, Z2)
	Simultaneously controlled axes Additional controlled Axis	A d d 1 A; (Ftla A; a)	4 axes	4 axes
	data server	Add 1 Axis (5th Axis)		
	Memory card input/output		0	
Data innut/autaut	USB memory input/output			
Data input/output	Large capacity memory(2GB)*2	Note *2) Available Option only with 15" Touch LCD (iHMI Only)	х	Х
	Embedded Ethernet	Only		•
Interface function	Fast Ethernet		0	0
interface function	Enhanced Embedded Ethernet function			
	DNC operation	Included in RS232C interface.		
Operation	DNC operation with memory card	metaded in NS2S2C interface.		
		G52 - G59		
	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		X	X
	Al contour control I	G5.1 Q_, 40 Blocks	X	X
	Al contour control II	G5.1 Q_, 200 Blocks	•	<u> </u>
Feed function	Al contour control II	G5.1 Q_, 600 Blocks	0	
	Al contour control II	G5.1 Q_, 1000 Blocks		0
	High smooth TCP		X	X
Operation	EZ Guidei(Conversational Programming S		X	X
Guidance Function	iHMI with Machining Cycle	Note *1) Only with 15" Touch LCD standard	X	X
ouldance runction	EZ Operation package		•	<u> </u>
Setting and display	CNC screen dual display function		•	<u> </u>
Network	FANUC MTConnect		*	*
NELWOIK	FANUC OPC UA		*	*
	Display unit	15" color LCD	•	•
	Display unit	15" color LCD with Touch Panel		0
		640M(256KB)_500 programs	X	Χ
		1280M(512KB)_1000 programs	X	Χ
		2560M(1MB)_1000 programs	X	Χ
Othoro		5120M(2MB)_1000 programs	•	•
Others	Part program storage size & Number of	10240M(4MB)_1000 programs	X	Х
	registerable programs	20480M(8MB)_1000 programs	X	Х
		2560M(1MB)_2000 programs	X	X
		5120M(2MB)_4000 programs	X	Х
		10240M(4MB)_4000 programs	X	Х
		20480M(8MB)_4000 programs	X	Х

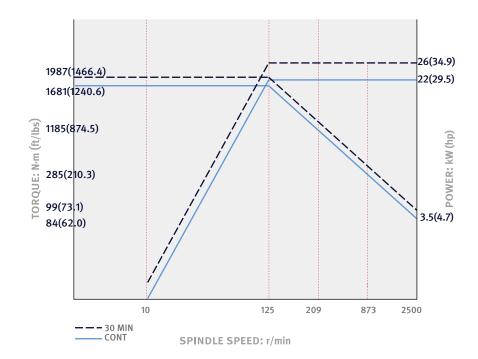
POWER | TORQUE

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

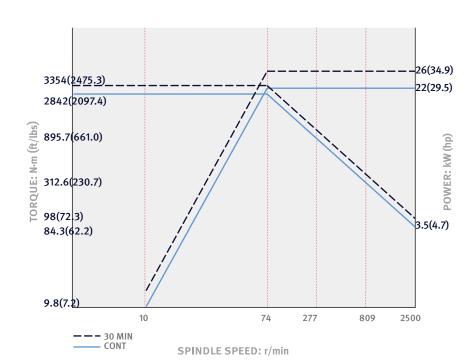


DBD 1580

Max. spindle speed: 25000 r/min

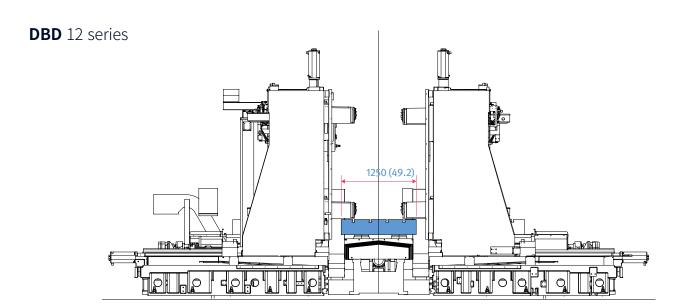
Max. power: **26/22** kW 34.9/29.5 Hp

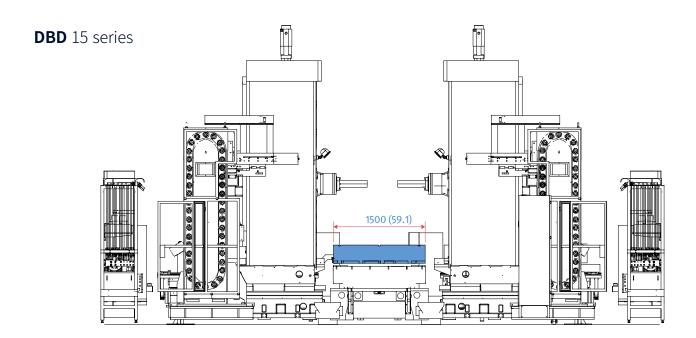
Max Torque : **3354** N · m 2475.3 lbf-ft



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	Length x Width		mm (inch)	20800 × 10700 (818.9 × 421.3)	23000 × 10700 (905.5 × 421.3)	
Dimensions	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	4 Corporations		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 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

DN Solutions America

Fax+82-2-6972-0400

Tel +82-2-6972-0370/0350

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

Head Office 22F T Tower, 30, Sowol-ro 2-gil Jung-gu, Seoul, Korea, 04637

Fax: +1-973-618-2501

* For more details, please contact DN Solutions.

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



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