

PRECISION TSUGAMI

CNC Precision Automatic Lathe

BO Series

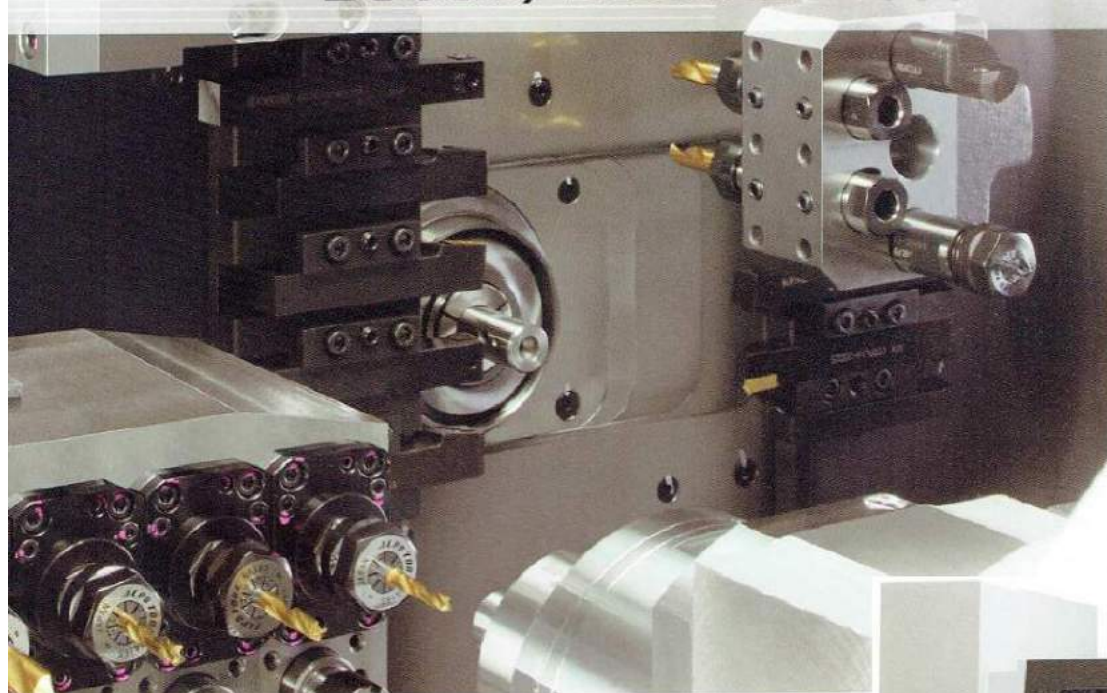
B073-III / B0123-III / B0203-III

B074-III / B0124-III / B0204-III

B075-III / B0125-III / B0205-III / B0126-III / B0206-III

B0265-II / B0325-II / B0265B-II / B0325B-II / B0266-II / B0326-II

B0385 / B0385L



TSUGAMI TẠI VIỆT NAM

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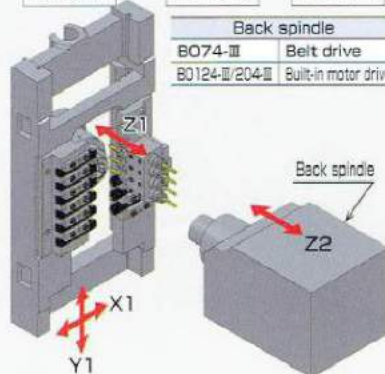
Hotline : **0912.333.774**

Basic machines provide maximum profits by the minimal investment.

B073-III/123-III/203-IIIφ7 mm
3-axis controlφ12 mm
3-axis controlφ20 mm
3-axis control

Front & back simultaneous machining	—
Back spindle	—
Cross rotary tool	Option
Guide-bush-less kit	Option
Direct-drive guide bushing	Option
C-axis	Option
Cross rigid tap	Option
Number of tools	
OD tool storage capacity	9
Cross-rotary	Option
Front	Fixed 4 Rotary —
Back	Fixed — Rotary —
Total tool storage capacity	13

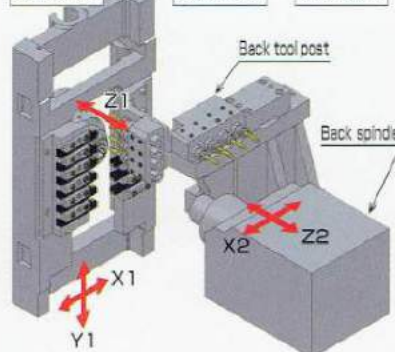
With back spindle

B074-III/124-III/204-IIIφ7 mm
4-axis controlφ12 mm
4-axis controlφ20 mm
4-axis control

Back spindle
B074-III Belt drive
B0124-III/204-III Built-in motor drive

Front & back simultaneous machining	—
Back spindle	—
Cross rotary tool	Option
Guide-bush-less kit	Option
Direct-drive guide bushing	Option
C-axis	Option
Cross rigid tap	Option
Number of tools	
OD tool storage capacity	9
Cross-rotary	Option
Front	Fixed 4 Rotary —
Back	Fixed 4 Rotary —
Total tool storage capacity	17

Front & back simultaneous machining

B075-III/125-III/205-IIIφ7 mm
5-axis controlφ12 mm
5-axis controlφ20 mm
5-axis control

Front & back simultaneous machining	—
Back spindle	—
Cross rotary tool	Option
Back rotary tool	Option
Guide-bush-less kit	Option
Direct-drive guide bushing	Option
C-axis	Option
Cross rigid tap	Option
Back rigid tapping	Option
Number of tools	
OD tool storage capacity	9
Cross-rotary	Option
Front	Fixed 4 Rotary —
Back	Fixed 8, Option (6) Rotary Option (2)
Total tool storage capacity	21

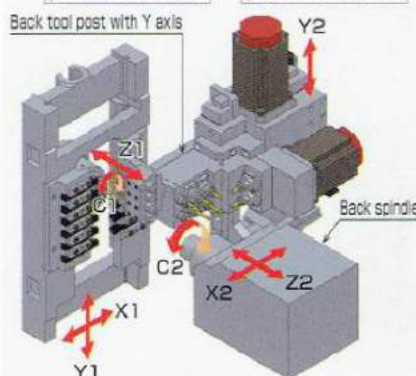
Note that the combination of C-axis, rotary tool and direct-drive rotary guide bushing has restrictions.

Front and back simultaneous processing including milling thanks to the Y2 axis control

B0126-III/206-III

φ12 mm 6-axis control

φ20 mm 6-axis control

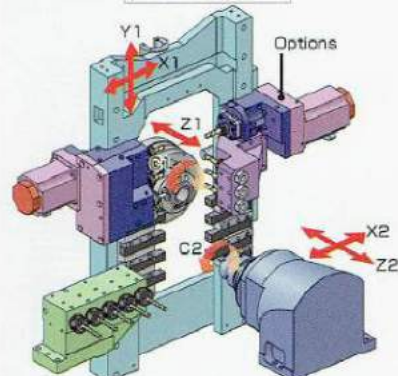


Front & back simultaneous machining	—
Back spindle	—
Cross rotary tool	Option
Back rotary tool	Option
Guide-bush-less kit	Option
Direct-drive guide bushing	Option
C-axis	Option
Cross rigid tap	Option
Back rigid tapping	Option
Number of tools	
OD tool storage capacity	9
Cross-rotary	Option
Front	Fixed 4 Rotary —
Back	Fixed 8 Rotary Front2/Cross2
Total tool storage capacity	25

Front & back simultaneous machining

B0385

φ38 mm 5-axis control



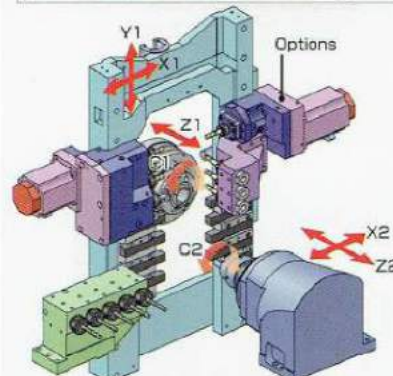
Front & back simultaneous machining	—
Back spindle	—
4-spindle cross rotary tool	Option
Back rotary tool	Option
Guide-bush-less kit	—
Direct-drive guide bushing	—
C-axis	Option
Cross rigid tap	Option
Back rigid tapping	Option
Number of tools	
OD tool storage capacity	8
4-spindle cross-rotary	4
Front	Fixed 3 Rotary Option
Back	Fixed 8 Rotary Option
Total tool storage capacity	23 (Standard)

Note that the combination of C-axis and rotary tool has restrictions.

Front & back simultaneous machining

B0385L

φ38 mm 5-axis control Guide Bushless Configuration



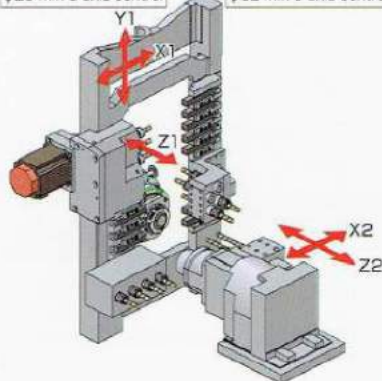
Front & back simultaneous machining	—
Back spindle	—
4-spindle cross rotary tool	Option
Back rotary tool	Option
Guide-bush-less kit	—
Direct-drive guide bushing	—
C-axis	Option
Cross rigid tap	Option
Back rigid tapping	Option
Number of tools	
OD tool storage capacity	8
4-spindle cross-rotary	4
Front	Fixed 3 Rotary Option
Back	Fixed 8 Rotary Option
Total tool storage capacity	23 (Standard)

Note that the combination of C-axis and rotary tool has restrictions.

Front & back simultaneous machining

B0265-II/B0325-II

φ26 mm 5-axis control φ32 mm 5-axis control



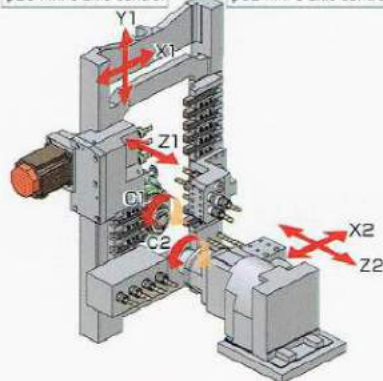
Front & back simultaneous machining	☐
Back spindle	☐
4-spindle cross rotary tool	☐
Back rotary tool	Option
Guide-bush-less kit	Option
Direct-drive guide bushing	Option
C-axis	Option
Cross rigid tap	Option
Back rigid tapping	Option
Number of tools	
OD tool storage capacity	12
4-spindle cross-rotary	4
Front	Fixed 7
	Rotary Option
Back	Fixed 4
	Rotary Option
Total tool storage capacity	27 (Standard)

Note that the combination of C-axis, rotary tool and direct-drive rotary guide bushing has restrictions.

Front & back simultaneous machining

B0265B-II/B0325B-II

φ26 mm 5-axis control φ32 mm 5-axis control

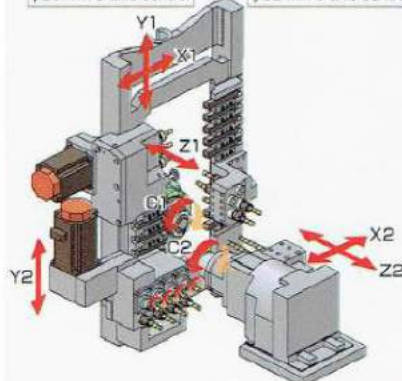


Front & back simultaneous machining	☐
Back spindle	☐
4-spindle cross rotary tool	☐
Back rotary tool	Option
Guide-bush-less kit	Option
Direct-drive guide bushing	Option
C-axis	Option
Cross rigid tap	Option
Back rigid tapping	Option
Number of tools	
OD tool storage capacity	12
4-spindle cross-rotary	4
Front	Fixed 7
	Rotary Option
Back	Fixed 4
	Rotary Option
Total tool storage capacity	27 (Standard)

Front and back simultaneous processing including milling thanks to the Y2 axis control

B0266-II/B0326-II

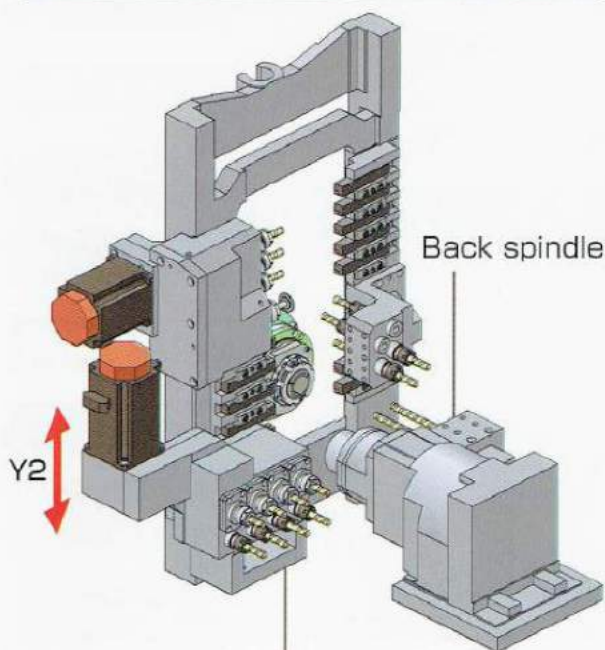
φ26 mm 6-axis control φ32 mm 6-axis control



Front & back simultaneous machining	☐
Back spindle	☐
4-spindle cross rotary tool	☐
Back drive	☐
Guide-bush-less kit	Option
Direct-drive guide bushing	Option
C-axis	Option
Cross rigid tap	Option
Back rigid tapping	Option
Number of tools	
OD tool storage capacity	12
4-spindle cross-rotary	4
Front	Fixed 7
	Rotary Option
Back	Fixed 4
	Rotary Option
Total tool storage capacity	31 (Standard)

*Tool spindle (Back tool post) is optional.

Controllable linear axis and functions



Back tool post

Back tool post with Y2 axis

	3-axis	4-axis	5-axis	6-axis
Back spindle	—	○	○	○
Back tool post	—	—	○	—
Back tool post with Y2 axis	—	—	—	○

3-axis control: Dedicated front side machining only, without back spindle

4-axis control: With back spindle, the parted-off side machining is possible. Tool post is mutual use.

5-axis control: By the dedicated tool post for back machining, front & back simultaneous machining is possible and more productive than 4-axis machine.

6-axis control: Thanks to the Y2 axis on back tool post, milling capability is improved on the back side machining.

Standard Specifications of Machine

Item	B073-Ⅲ	B074-Ⅲ	B075-Ⅲ	B0123-Ⅲ	B0124-Ⅲ	B0203-Ⅲ	B0204-Ⅲ	
Machine capacity, Machining range	Working barstock diameter	φ1 to φ7 mm			φ3~φ12 mm		φ3~φ20 mm	
	Max. machining length	70 mm (40 mm (Carrier type rotary guide bushing)/ 70 mm (Direct-drive rotary guide bushing))			210 mm (80/170 mm: (Rotary guide			
	Max. main spindle drilling diameter	φ4			φ7		φ10	
	Max. main spindle tapping diameter	M4 x 0.7			M6x1		M10	
	Max. back spindle chucking dia.	φ7			—	φ12	—	φ20
	Max. back spindle drilling diameter	—	φ4	φ4	—	φ7	—	φ8
	Max. back spindle tapping diameter	—	M4 x 0.7	M4 x 0.7	—	M8	—	M8
	Max. cross drilling diameter	φ4 (Option)			φ6 (Option)			
	Max. cross tapping diameter	M4 x 0.7 (Option)			M5 x 0.8 (Option)			
	Max. tool spindle slotting cutter dia.	φ25 (Option)			φ30 (Option)			
	Max. back drilling diameter	—	—	φ4	—			
	Max. back tapping diameter	—	—	M4 x 0.7	—			
Machine	Main spindle speed	200 to 15,000 min ⁻¹			200 to 12,000 min ⁻¹		200 to 10,000 min ⁻¹	
	Back spindle speed*1	—	200 to 10,000 min ⁻¹	200 to 12,000 min ⁻¹	—	200 to 12,000 min ⁻¹	—	200 to 12,000 min ⁻¹
	Rotary guide bushing speed	200 to 8,000 min ⁻¹ : Carrier type/ 200 to 12,000 min ⁻¹ : Direct-drive			200 to 8,000 min ⁻¹ : Carrier type rotary guide bushing/ 200 to 12,000 min ⁻¹ : Direct-drive rotary guide bushing		200 to 8,000 min ⁻¹ : Carrier type rotary guide bushing/ 200 to 10,000 min ⁻¹ : Direct-drive rotary	
	Tool spindle speed	200 to 8,000 min ⁻¹ (Option) *3(Rated speed: 7,000 min ⁻¹)			200 to 8,000 min ⁻¹ (Option) *3(Rated speed: 7,000 min ⁻¹)			
	Total tool storage capacity (Standard / Max.: Option)	13	17	21	13	17	13	17
	Tool size	8 mm x 8 mm x 85 mm			12 mm x 12 mm x 85 mm			
	Rapid traverse rate	32 m/min (X1: 24 m/min)			32 m/min (X1: 24 m/min)			
Motors	Controlled axes (linear axes)	3-axis	4-axis	5-axis	3-axis	4-axis	3-axis	4-axis
	Main spindle	1.1/1.5 kW			1.5/2.2 kW		2.2/3.7 kW	
	Back spindle	—	0.55/1.1 kW	1.5/2.2 kW	—	1.5/2.2kW	—	1.5/2.2 kW
	Axis	0.5 kW (X1,X2,Y1,Z1,Z2)			0.5 kW (X1,X2,Y1,Z1,Z2)			
	Cross drill	0.75 kW (Option)			0.75 kW (Option)			
	Coolant pump	0.18 kW			0.25 kW			
	Lubricating oil pump	3 W			3 W			
Power supply and others	Net weight	1,400 kg	1,700 kg	1,700 kg	1,500 kg	1,950 kg	1,500 kg	1,950 kg
	Power source requirement	6 kVA	9 kVA	10 kVA	7 kVA	10 kVA	7 kVA	10 kVA
	Compressed air requirement	0.4 MPa or above			0.4 MPa or above			
	Air discharge rate	50 NL/min			50 NL/min			
	Coolant tank capacity	115 L	120 L		115 L	120 L	115 L	120 L
	Width x depth x height	1,440 x 1,125 x 1,700	1,655 x 1,135 x 1,700		1,590 x 1,135 x 1,700	1,655 x 1,135 x 1,700	1,590 x 1,135 x 1,700	1,655 x 1,135 x 1,700

NC Specifications

Item	B073-Ⅲ/B0123-Ⅲ/B0203-Ⅲ	B074-Ⅲ/B0124-Ⅲ/B0204-Ⅲ	B075-Ⅲ/B0125-Ⅲ/B0205-Ⅲ	B0126-Ⅲ/B0206-Ⅲ
NC unit	FANUC Oi Mate-TD *1	FANUC Oi-TD		FANUC 32i-B
Controlled axes	X1,Z1,Y1	X1,Z1,Y1,Z2	X1,Z1,Y1,X2,Z2	X1,Z1,Y1,X2,Z2,Y2,C1,C2
Least input increment	0.001 mm (X in diameter) (B073-Ⅲ/74-Ⅲ/75-Ⅲ: 0.0001 mm)			0.001 mm (X1/X2 axis in diameter)
Least command increment	X: 0.0005 mm, other axes: 0.001 mm (B073-Ⅲ/74-Ⅲ/75-Ⅲ: 0.00005 mm, other axes: 0.0001 mm)			0.001 mm (X1/X2 axis in diameter)
Maximum programmable value	±8 digits			±8 digits
Interpolation method	Linear, circular			Linear, circular
Feedrate	1 to 6,000 mm/min			1 to 6,000 mm/min
Feedrate override	0 to 150 % in 10 % increments			0 to 150 % in 10 % increments
Dwell	G04 0 to 99999.99			G04 0 to 99999.99
ABS/INC command	X,Y,Z: absolute, U,V,W: Incremental			X,Y,Z,C: absolute, U,V,W,H: Incremental
Tool offset pairs	Main: 64, Back: 64 (B073-Ⅲ, B0123-Ⅲ, B0203-Ⅲ Main only)			99
LCD/MDI	8.4" color LCD			10.4" color LCD
Display language	Japanese/English			Japanese/English
Part program storage size	512 k byte (equivalent to 1,280 m tape length)	1 Mbyte (equivalent to 2,560 m tape length) *sum of main and back spindle NCs		64 kbyte (equivalent to 80m for each path system)
Registerable programs	400	800 *sum of main and back spindle NCs		63 *sum of main and back spindle NCs
Miscellaneous functions	M5-digits			M5-digits
Spindle function	S5-digits			S5-digits
Tool function	T4-digits			T4-digits

Note *1: CE type: NC controller has been changed to FANUC Oi-TD

B0125-III	B0205-III	B0126-III	B0206-III	B0265-II B0265B-II	B0266-II	B0325-II B0325B-II	B0326-II	B0385	B0385L
φ3~φ12 mm	φ3~φ20 mm	φ3~φ12 mm	φ3~φ20 mm	φ8 to φ26 mm		φ8 to φ32 mm		φ8 to φ38 mm*2	
bushing)/45 mm (Guide bush less))*4				320 mm (Direct-drive rotary guide bushing) 50 mm (Guide bush less) *4		320 mm (Direct-drive rotary guide bushing) 70 mm (Guide bush less) *4		250 mm	100 mm
φ7	φ10	φ7	φ10	φ12 mm				φ13	
M6 x 1	M10	M6x1	M10	M10				M12	
φ12	φ20	φ12	φ20	φ26		φ32		φ38	
φ7	φ8	φ7	φ8	φ10				φ12	
M8		M8		M10				M12	
φ6 (Option)		φ6 (Option)		φ10 (T01 to T03), φ12 (T04)				φ10 (T01 to T03), φ12 (T04)	
M5 x 0.8 (Option)		M5 x 0.8 (Option)		M6 x 1.0 (T01 to T03), M8 x 1.25 (T04)				M6 x 1.0 (T01 to T03), M8 x 1.25 (T04)	
φ30 (Option)				φ45				φ45	
φ6 (Option)		φ6		φ8 (Option)		φ8		φ8 (Option)	
M5 (Option)		M5		M6 (Option)		M6		M6 (Option)	
200 to 12,000 min ⁻¹	200 to 10,000 min ⁻¹	200 to 12,000 min ⁻¹	200 to 10,000 min ⁻¹	200 to 10,000 min ⁻¹		200 to 8,000 min ⁻¹		200 to 6,000 min ⁻¹	
200 to 12,000 min ⁻¹		200 to 12,000 min ⁻¹		200 to 10,000 min ⁻¹ *1		200 to 8,000 min ⁻¹		200 to 7,000 min ⁻¹	
200 to 8,000 min ⁻¹ : Carrier type rotary guide bushing/ 200 to 12,000 min ⁻¹ : Direct-drive rotary guide bushing	200 to 8,000 min ⁻¹ : Carrier type rotary guide bushing/ 200 to 10,000 min ⁻¹ : Direct-drive rotary guide bushing	200 to 8,000 min ⁻¹ : Carrier type rotary guide bushing/ 200 to 12,000 min ⁻¹ : Direct-drive rotary guide bushing	200 to 8,000 min ⁻¹ : Carrier type rotary guide bushing/ 200 to 10,000 min ⁻¹ : Direct-drive rotary guide bushing	200 to 10,000 min ⁻¹		200 to 8,000 min ⁻¹		200 to 6,000 min ⁻¹	—
200 to 8,000 min ⁻¹ (Option) *3(Rated speed: 7,000 min ⁻¹)				200 to 6,000 min ⁻¹ *3(Rated speed: 4,800 min ⁻¹)				200 to 5,000 min ⁻¹ *3(Rated speed: 4,000 min ⁻¹)	
21		25		27/39	31/43	27/39	31/43	20/31	
12 mm x 12 mm x 85 mm		12 mm x 12 mm x 85 mm		16 mm x 16 mm x 100 mm				20 mm x 20 mm x 125 mm	
32 m/min (X1: 24m/min)		32 m/min (X1: 24m/min Y2: 15m/min)		32 m/min (X1,Y1,Y2: 24m/min)				45 m/min (X1,Y1,Z1: 24m/min)/X2: 32m/min	
5-axis		6-axis		5-axis	6-axis	5-axis	6-axis	5-axis	5-axis
1.5/2.2 kW		1.5/2.2 kW		3.7/5.5 kW				7.5/11 kW	
1.5/2.2 kW		1.5/2.2 kW		2.2/3.7 kW				3.7/5.5 kW	
0.5 kW (X1,X2,Y1,Z1,Z2)		0.5 kW (X1,X2,Y1,Y2,Z1,Z2)		X1,Y2: 0.5 kW Y1,Z1,X2,Z2: 0.75 kW				Z1:1.2 kW, X1,Y1:0.75 kW, X2,Z2: 25 kW	
0.75 kW (Option)		0.75 kW (Option)		1.0 kW				1.0 kW	
0.25 kW		0.25 kW		0.4 kW				0.4 kW	
3 W		3 W		3 W				3 W	
2,000 kg		2,050 kg		3,500 kg				4,600 kg	
11 kVA		11 kVA	12 kVA	21.4 kVA				30 kVA	
0.4 MPa or above		0.4 MPa or above		0.4 MPa or above				0.4 MPa or above	
50 NL/min		50 NL/min		100 NL/min				100 NL/min	
120 L		120 L		180 L				195 L	
1,655 x 1,125 x 1,700		1,655 x 1,125 x 1,700		2,150 x 1,280 x 1,930				2,520 x 1,345 x 1,970	

Note *1: Maximum back spindle speed is limited to 8,000 min⁻¹ when the rotary tool beside the back spindle is mounted.

Note *2: In case of more than φ35 mm, bar end have to be turned till φ35 mm. (B0385 only)

Note *3: When this device is used at rated speed 4,000 min⁻¹, 4,800 min⁻¹, 7,000 min⁻¹, or above, the operation time has to be short.

Note *4: Stationary guide bushing, carrier type rotary guide bushing and direct-drive rotary guide bushing and guide-bushless are optional.

* Machining capacity is based on JIS S45C or equivalent.

B0265-II/B0325-II	B0265B-II/B0325B-II	B0266-II/B0326-II	B0385	B0385L
FANUC Oi-TD	FANUC 32i-B		FANUC Oi-TD	
X1,Z1,Y1,X2,Z2	X1,Z1,Y1,X2,Z2,C1,C2	X1,Z1,Y1,X2,Z2,Y2,C1,C2	X1,Z1,Y1,X2,Z2,C1,C2	
0.001 mm (X1/X2 axis in diameter)		0.001 mm (X1/X2 axis in diameter)	0.001 mm (X1/X2 axis in diameter)	
X1,X2 axis: 0.0005 mm, other axes: 0.001 mm			X1,X2 axis: 0.0005 mm, other axes: 0.001 mm	
±8 digits			±8 digits	
Linear, circular			Linear, circular	
1 to 6,000 mm/min			1 to 6,000 mm/min	
0 to 150 % in 10 % increments			0 to 150 % in 10 % increments	
G04 0 to 99999.99			G04 0 to 99999.99	
X,Y,Z: absolute, U,V,W: Incremental	X,Y,Z,C: absolute, U,V,W,H: Incremental		X,Y,Z,C: absolute, U,V,W,H: Incremental	
Main: 64, Back: 64	99		Main: 64, Back: 64	
10.4" color LCD			8.4" color LCD	
Japanese/English			Japanese/English	
1 Mbyte (equivalent to 2,560 m tape length) *sum of main and back spindle NCs		64 kbyte (equivalent to 80m for each path system)	1 Mbyte (equivalent to 2,560 m tape length) *sum of main and back spindle NCs	
800 *sum of main and back spindle NCs		63 *sum of main and back spindle NCs	800 *sum of main and back spindle NCs	
M5-digits			Main: M5 digits, Back: M3 digits	
S5-digits			S5-digits	
T4-digits			T4-digits	

Standard Accessories

Item	B073-III B0123-III B0203-III	B074-III B0124-III B0204-III	B075-III B0125-III B0205-III	B0126-III B0206-III	B0265-II B0325-II	B0265B-II/325B-II B0266-II/326-II	B0385	B0385L
Automatic programming system	○	○	○	○	○	○	○	○
Tool height compensation	○	○	○	○	○	○	○	○
Tool life counter	○	○	○	○	○	○	○	○
Periodic maintenance screen	○	○	○	○	○	○	○	○
Main spindle adapter	○	○	○	○	○	○	○	—
Back spindle adapter	—	○	○	○	○	○	○	○
Guide bushing adapter	(B073-III standard)	(B074-III standard)	(B075-III standard)	—	—	—	○	—
Door interlock	○	○	○	○	○	○	○	○
Coolant level detector	○	○	○	○	○	○	○	○
Spindle cooling unit	○	○	○	○	○	○	○	○
Standard tools	○	○	○	○	○	○	○	○
Transit clamps	○	○	○	○	○	○	○	○
4-hole drill bracket	○	○	○	○	—	—	—	—
Retractable coolant nozzle	○	○	○	○	○	○	○	○
Automatic power shut off	○	○	○	○	○	○	○	○
Front tool post: 4-spindle cross drill	—	—	—	—	○	○	○	○
Deep hole drill holder(φ25mm×2)	—	—	—	—	○	○	—	—
Automatic cut-off function/Automatic facing function	○	○	○	○	○	○	—	—
Main spindle/back spindle air purge	—	—	—	—	○	○	○	○
Cross drill air purge	—	—	—	—	○	○	○	○
Main spindle brake	—	—	—	—	○	○	○	○
C-axis control for main/back spindles	—	—	—	○	—	○	○	○
Drill holder (Single head)	○(4)	○(3)	○(7)	○(7)	—	—	—	—
Double heads drill holder(Adjustable drill holder)	—	○(1)	○(1)	○(1)	—	—	—	—
Illumination light	○	○	○	○	—	—	—	—

NC standard accessories

Item	B073-III B0123-III B0203-III	B074-III/124-III/125-III B075-III/204-III/205-III	B0126-III B0206-III	B0265-II B0325-II	B0265B-II/325B-II B0266-II/326-II	B0385	B0385L
Chasing function	○	○	○	○	○	○	○
Continuous thread cutting	○	○	○	○	○	○	○
Manual pulse generator	○	○	○	○	○	○	○
Memory card input/output interface	○	○	○	○	○	○	○
Back ground editing	○	○	○	○	○	○	○
Run time & parts number display	○	○	○	○	○	○	○
Custom macro	○	○	○	○	○	○	○
Constant surface speed control	○	○	○	○	○	○	○
Spindle synchronous control (rotation/phase/tracing)	—	○	○	○	○	○	○
Tool geometry/wear offset	○	○	○	○	○	○	○
Programmable data input	○	○	○	○	○	○	○
Chamfering & corner R	○	○	○	○	○	○	○
Tool nose radius compensation	○	○	○	○	○	○	○
HRV control	○	○	○	○	○	○	○
Multiple repetitive cycle	○	○	○	○	○	○	○
Extended program editing	○	○	○	○	○	○	○
Canned drilling cycle	○	○	○	○	○	○	○
Rigid tap (Main spindle, back spindle)	○*	○	○	○	○	○	○
Spindle speed fluctuation detection	○	○	○	○	○	○	○
Cut-off detection (Speed Differential type)	—	○	○	○	○	○	○
Manual handle retrace function	—	—	—	—	—	○	○
Stored stroke check 2,3	—	—	—	○	○	—	—
Part program storage size	512Kbyte	1Mbyte(sum of main and back spindle NCs)	64Kbyte(sum of main and back spindle NCs) 63Kbyte(sum of main and back spindle NCs)	1Mbyte(sum of main and back spindle NCs) 800Kbyte(sum of main and back spindle NCs)	64Kbyte(sum of main and back spindle NCs) 63Kbyte(sum of main and back spindle NCs)	1Mbyte(sum of main and back spindle NCs) 800Kbyte(sum of main and back spindle NCs)	1Mbyte(sum of main and back spindle NCs) 800Kbyte(sum of main and back spindle NCs)
Registerable programs	400	800(sum of main and back spindle NCs)	63(sum of main and back spindle NCs)	800(sum of main and back spindle NCs)	63(sum of main and back spindle NCs)	800(sum of main and back spindle NCs)	800(sum of main and back spindle NCs)

*: B073-III/B0123-III/B0203-III: Main spindle only

Options

○: Mountable options

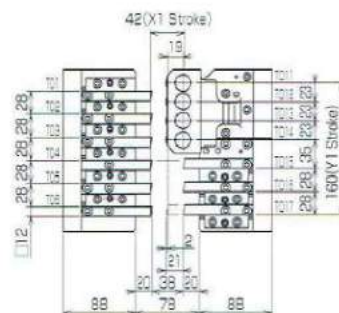
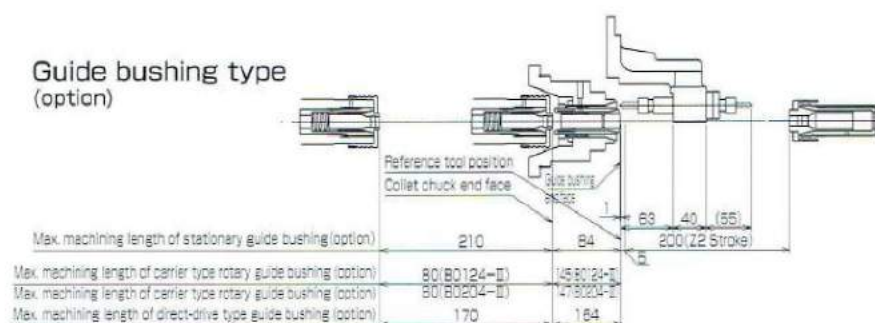
	Item	B073-III B074-III B075-III	B0123-III/203-III B0124-III/204-III B0125-III/205-III	B0126-III B0206-III	B0265-II B0325-II	B0265B-II B0325B-II	B0266-II B0326-II	B0385	B0385L
Guide bushing	Stationary guide bushing	standard	○	○	—	—	—	—	—
	Carrier type rotary guide bushing	○	○	○	—	—	—	—	—
	Direct-drive guide bushing	○*6	○*6	○	○	○	○	—	—
	Guide-bushing-less kit	—	○	○	○	○	○	—	standard
Advanced function system	Main spindle C axis control	○	○	standard*4	○	standard	standard	standard	standard
	Back spindle C axis control (Brake is optional)	○*7	○*1	standard	○	standard	standard	standard	standard
	Spindle 1°index	○	○	○	○	○	○	—	—
	Spindle 15°index	○	○	○	—	—	—	—	—
	Main spindle brake	○	○	○	standard	standard	standard	standard	standard
	Back spindle 15°index	○*1	○*1	○	○	○	○	—	—
	Back spindle 1°index	○*1	○*1	○	○	○	○	○	○
	Back spindle brake	○*1	○*1	○	○	○	○	○	○
	Live tool beside the back spindle	—	—	—	○	○	○	—	—
	Cross drill (Modular type: 1)	—	○	○	—	—	—	—	—
	2-spindle cross drill	—	○	○	—	—	—	—	—
	3-spindle cross drill	○	○	○	—	—	—	—	—
	4-spindle cross drill	○	○	○	standard	standard	standard	standard	standard
High precision system	0.1 μm resolution	standard	○	○	○	○	○	○	○
	Coolant oil temperature controller	○	○	○	○	○	○	○	○
	X2-axis touch switch	○*3	○*3	○	standard	standard	standard	standard	standard
Live tools (Rear tool post)	Rear drive	—	—	—	○	○	○	○	○
	Tool spindle	—	—	—	○	○	○	○	○
	Double face spindle	—	—	—	○	○	○	○	○
	Angular drilling head	—	—	—	○	○	○	○	○
	Thread whirling head	—	—	—	○	○	○	—	—
Live tools (Back tool post)	Hobbing head	—	—	—	○	○	○	—	—
	Back drive	○*3	○*3	standard	○	○	standard	○	○
	Tool spindle	○*3	○*3	standard	○	○	○	○	○
	Back cross tool spindle	○*3	○*3	standard	—	—	○	—	—
Coolant related	Back tool adapter	○*3	○*3	—	○	○	○	○	○
	Mist collector	○	○	○	○	○	○	○	○
	High pressure pump unit	○	○	○	○	○	○	○	○
	M code oil blow	○	○	○	○	○	○	○	○
Workpiece discharge system	WAVY coolant nozzle	○	○	○	○	○	○	○	○
	Work catcher	standard	○*2	○	○	○	○	○	○
	Work conveyor	○*3	○*1	○	○	○	○	○	○
	Front discharge	○*1	○*1	○	○	○	○	○	○
Chip disposal	Rear discharge	○*1	○*1	○	○	○	○	○	○
	Chip conveyor	○*1	○*1	○	○	○	○	○	○
	Cut-off detection (Touch switch type)	○	○	○	—	—	—	—	—
	Signal indicator	○	○	○	○	○	○	○	○
Tooling related	Adapter for non-round bar (main spindle)	○	○	○	○	○	○	○	—
	Adapter for non-round bar (back spindle)	○*1	○*1	○	○	○	○	○	○
	Collet chuck with carbide lining	○	○	○	○	○	○	○	○
	Tool set gauge	○	○	○	○	○	○	○	○
	Spindle liner	○	○	○	○	○	○	○	○
NC functions	Drill holder	standard	standard	standard	○	○	○	○	○
	Part program storage size 128 kbytes	—	—	○	—	○	○	—	—
	Part program storage size 256 kbytes	—	—	○	—	○	○	—	—
	Part program storage size 512 kbytes	—	—	○	—	○	○	—	—
	Part program storage size 1 Mbyte	—	—	○	—	○	○	—	—
	Storage size 64 kbytes (Registerable programs: 120)	—	—	○	—	○	○	—	—
	Storage size 128 kbytes (Registerable programs: 250)	—	—	○	—	○	○	—	—
	Storage size 256 kbytes (Registerable programs: 500)	—	—	○	—	○	○	—	—
	Storage size 512 kbytes (Registerable programs: 1000)	—	—	○	—	○	○	—	—
	Direct drawing dimension program	standard	standard	○	standard	○	○	standard	standard
	Variable-lead thread cutting	standard	standard	○	standard	○	○	standard	standard
	Thread cutting cycle retract	standard	standard	○	standard	○	○	standard	standard
Safety and other	Polar coordinate interpolation	standard*5	standard*5	○	standard*5	○	○	standard	standard
	Cylindrical interpolation	standard*5	standard*5	○	standard*5	○	○	○	○
	Display language	○	○	○	○	○	○	○	○
	Coolant flow switch	○	○	○	○	○	○	○	○
	Automatic fire extinguisher	○	○	○	○	○	○	○	○
	Illumination lamp	standard	standard	standard	○	○	○	○	○
	Bar feeder interface	○	○	○	○	○	○	○	○
	Manual handle retrace function	○*6	○*6	○	○	○	○	standard	standard
	Live tool rigid tapping	○	○	○	○	○	○	○	○
	RS232C input/output interface	○	○	○	○	○	○	○	○
	Inch/metric conversion	○	○	○	○	○	○	○	○
	Abnormal load detection	○	○	○	○	○	○	○	○
	Correspondence for water soluble coolant	—	○	○	○	○	○	○	○

*1: Can not be mounted on B0123-III and B0203-III. *2: Standard for 3-axis machine (without back spindle). *3: B0125-III/B0205-III only. *4: Brake is optional.
 *5: Main spindle C axis control are required (option). *6: B0123-III/B0203-III: In case of mounting direct drive guide bush, NC controller has to be changed to Fanuc 0i-TD.
 *7: Can not be mounted on B073-III and B074-III.

Tooling zone

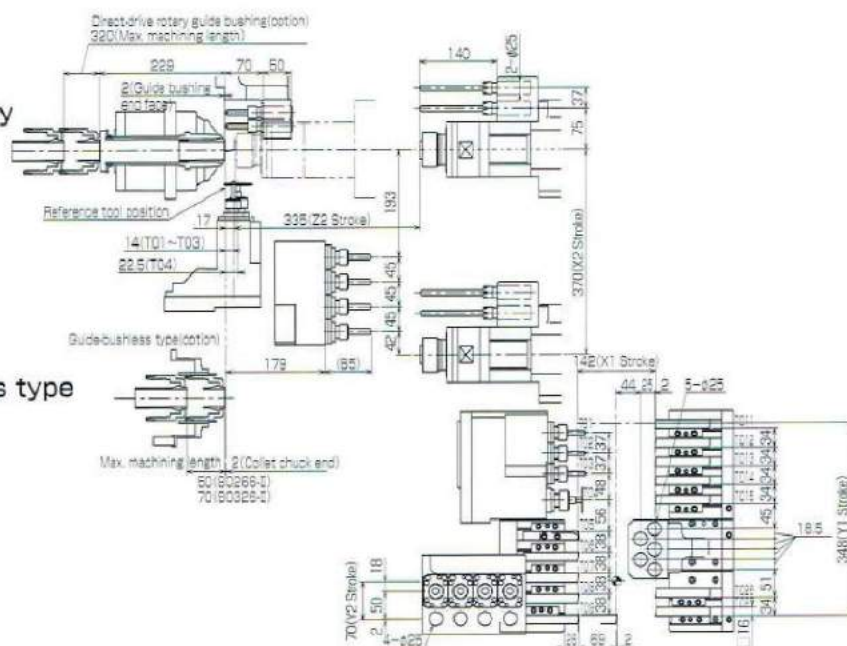
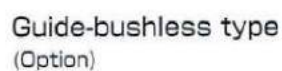
B0124-III/B0204-III

Guide bushing type (option)



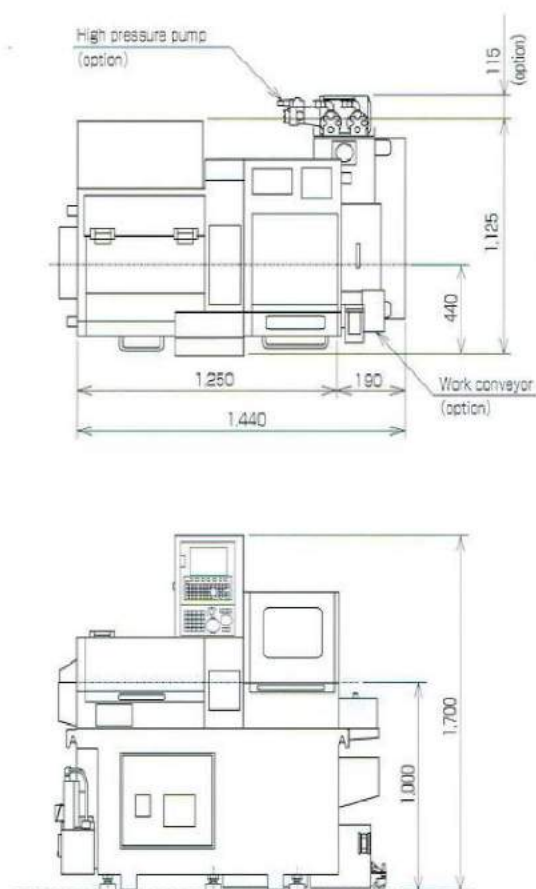
BO Series

Direct-drive rotary
guide bushing
(Option)

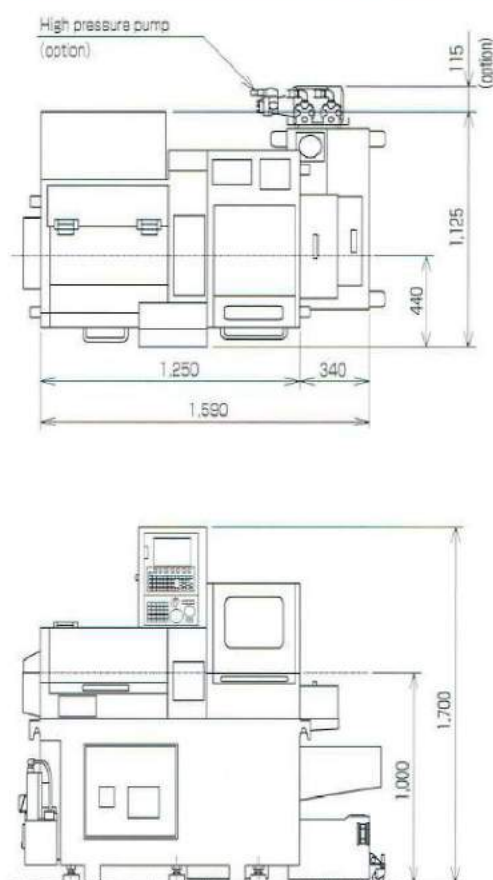
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Appearances

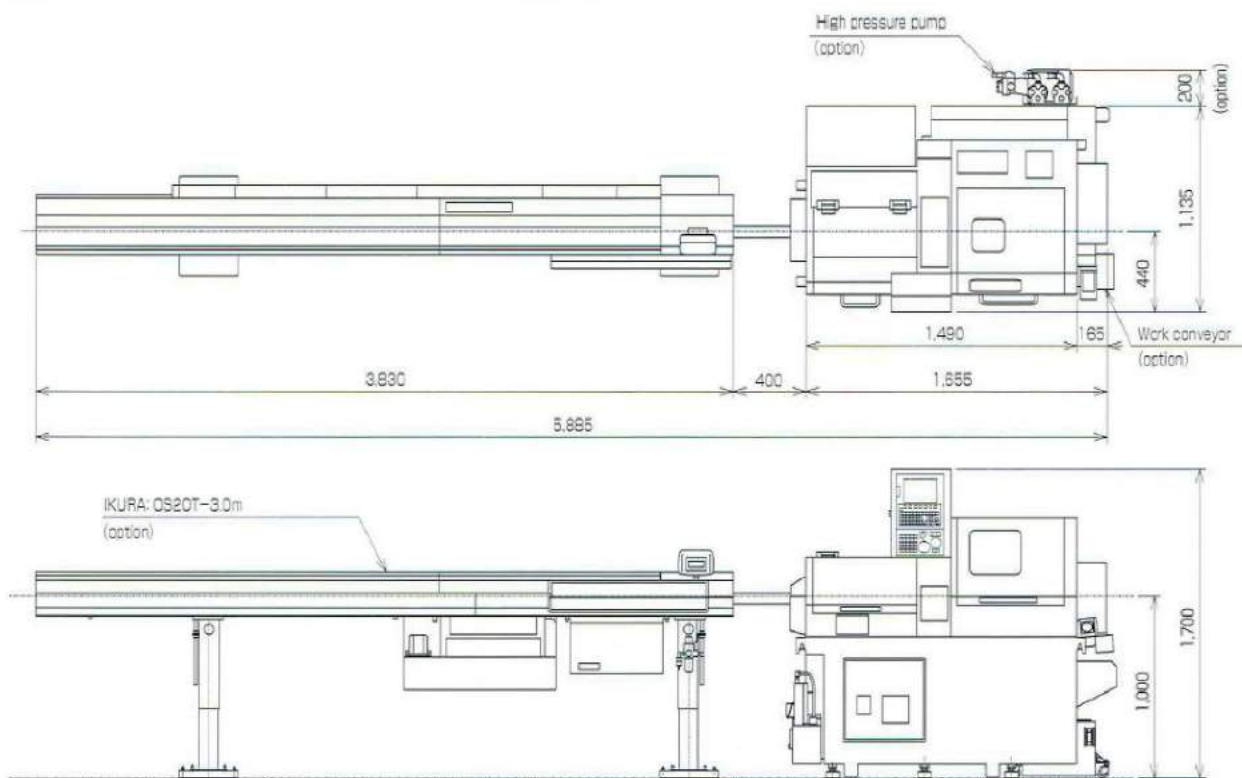
B073-III



B0123-III/203-III

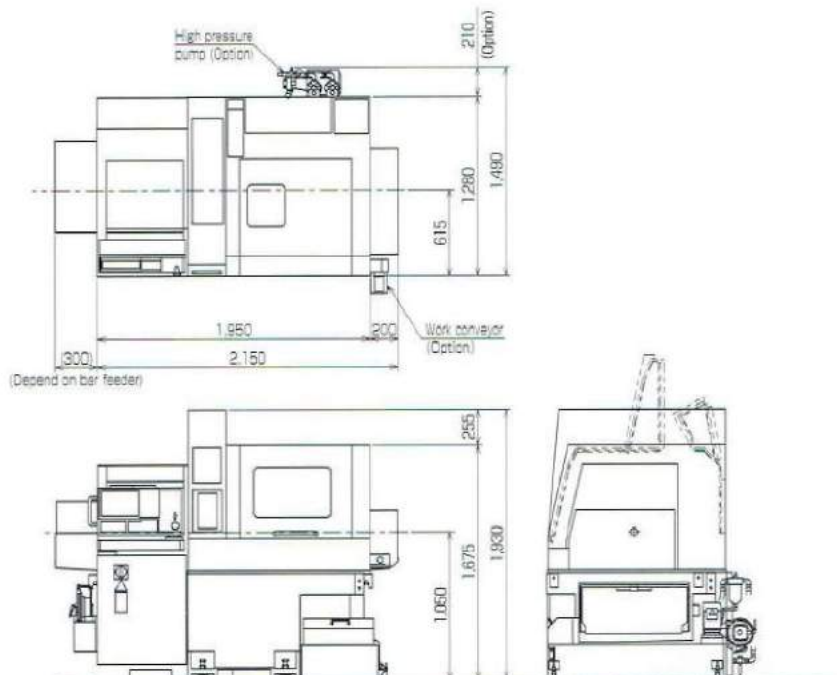


B074-III/75-III/124-III/125-III/126-III/204-III/205-III/206-III

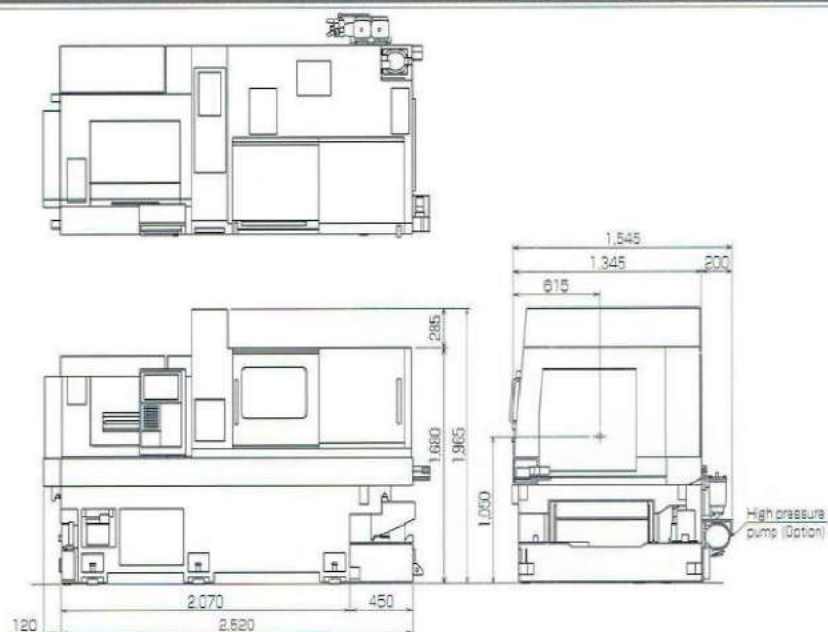


Appearances

B0265-II / 265B-II / 325-II / 325B-II / 266-II / 326-II



B0385/385L



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