



Auto lathe maker with 70 years of tradition



Swiss Type CNC Auto Lathe Series

NOMURADS has been manufacturing swiss type CNC auto lathe for the last 70 years. When you choose NOMURADS, you will have high precision, durability and innovation for your production.

NOMURADS

History

70 year's tradition for high quality
CNC Automatic Lathes

1935

- Lathe research started
(Founder: Mr. Koji Nomura)
- Established NOMURA

1960

- 4,000 sets of cam-type lathe sold
- NS1530, 8410 sales started in 1945

1970

- Developed IC 10A
- Export started from 1964
- Started sales of NC cam lathe

1980

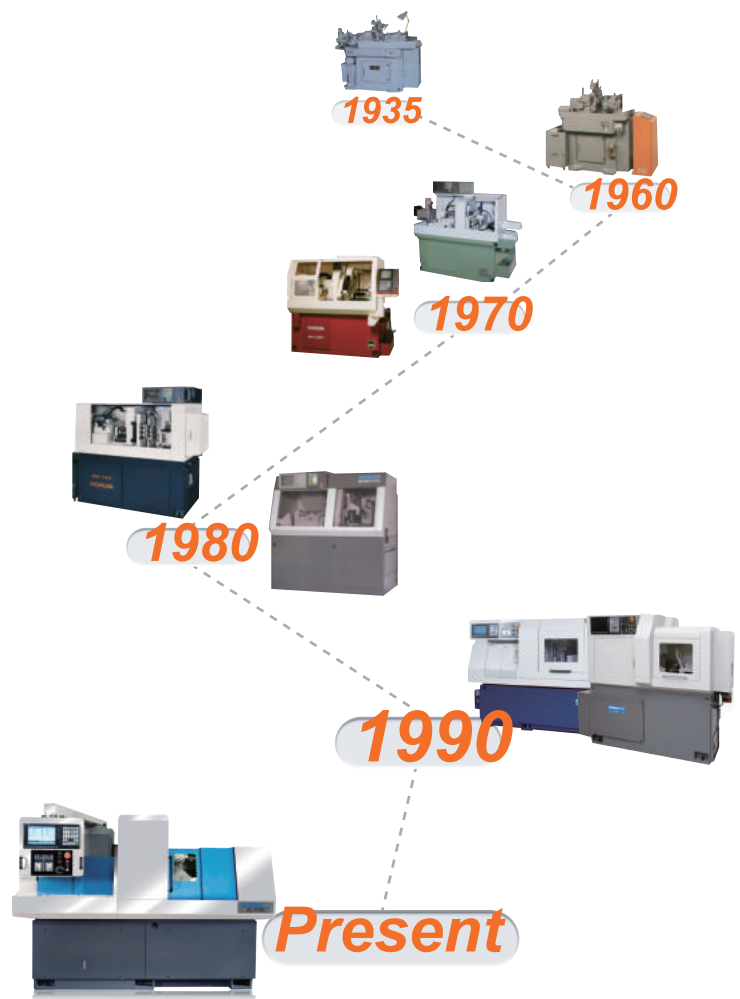
- Developed CNC M-LO 160V
- Developed CNC M-300 KF
- Developed CNC M-500 16R, U2

1990

- Established
NOMURA Auto Lathe Co., Ltd.
- 15,000 sets of cam-type lathe sold

Present

- 14,000 sets of CNC lathe sold
- Developed 3X, 10EX2, 38UB8
- Developed NOMURA Tapping Center
- Developed FANUC NC equipped lathe



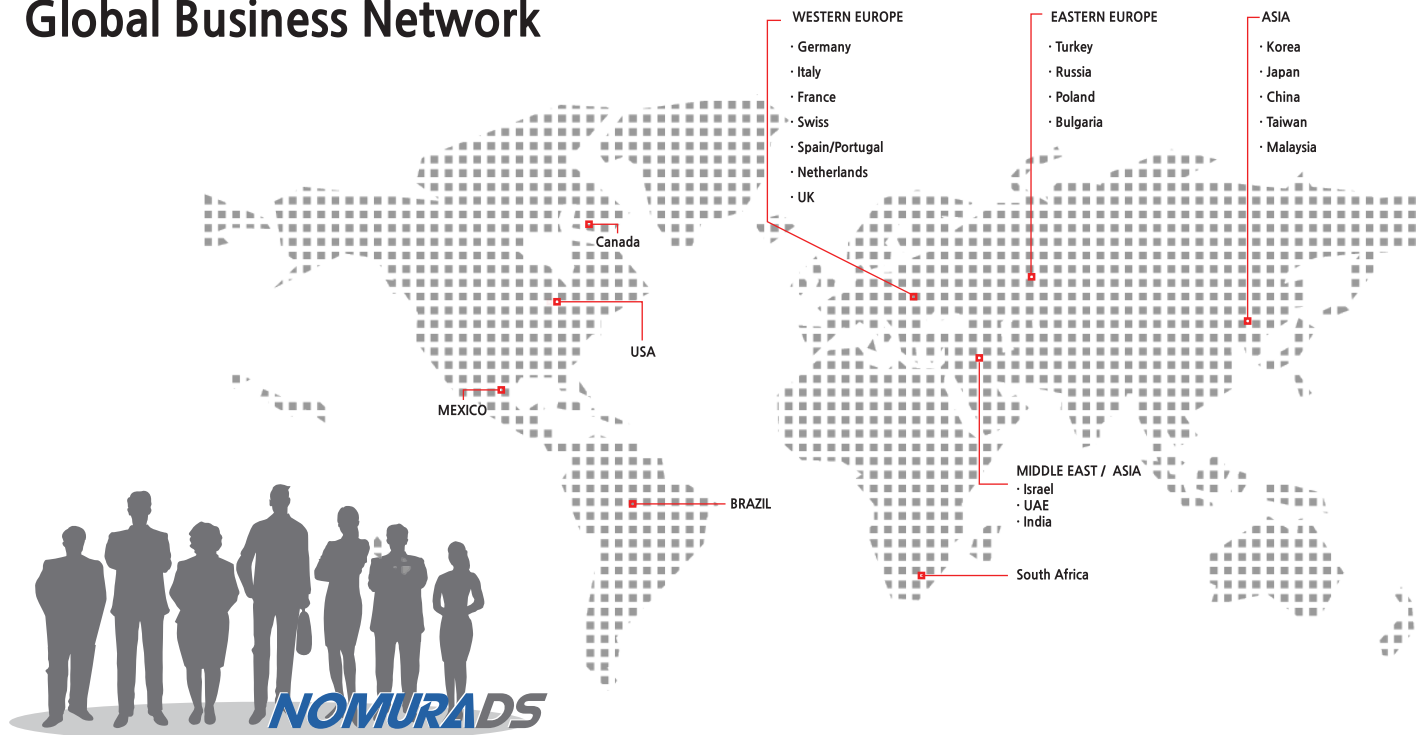
NOMURADS

has been manufacturing swiss type CNC auto lathe for the last 70 years. When you choose NOMURADS, you will have high precision, durability and innovation for your production

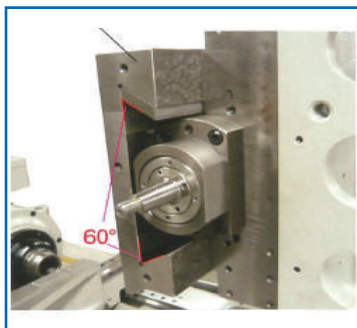


NOMURADS

Global Business Network

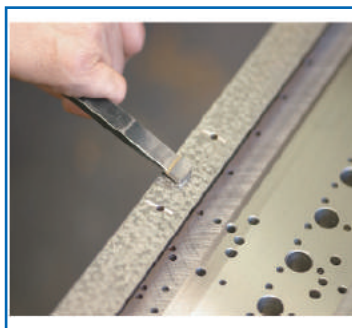


Dovetail structure



The rigidity of NOMURA DS machine is enhanced as its structure contacts the surface of both sides.

Hand scraping

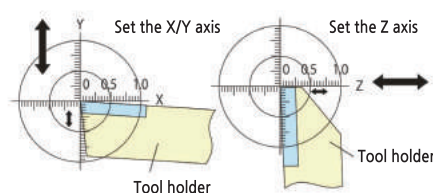
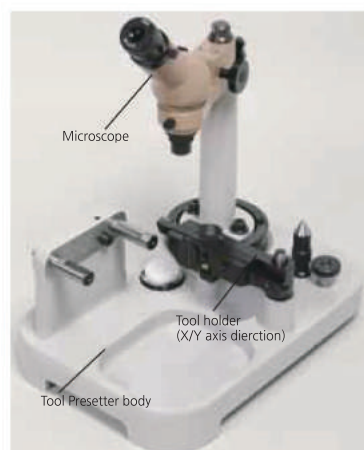


The weighty tool post is glided smoothly by our master artisans and high precision is enhanced as the result.

Integrated casting bed

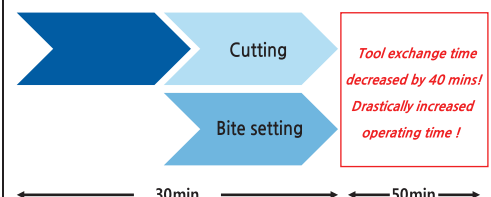


Machine vibrations is absorbed and machining tolerance affected by the temperature change of cutting oil can be minimized as temperature turning is enacted with coolant tank located in the casting bed.

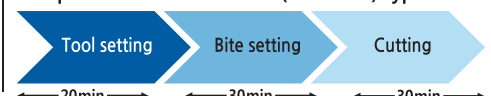


- Set the X/Y axis direction
- Set the Z axis direction.
This is all you need to do.

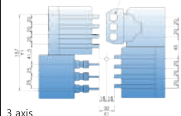
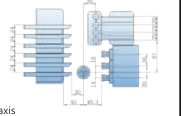
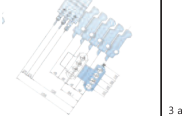
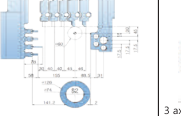
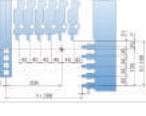
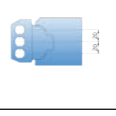
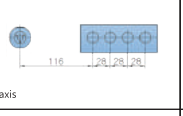
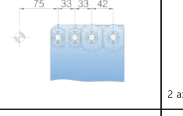
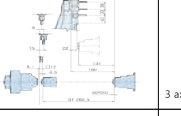
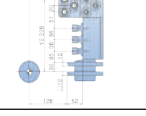
NOMURADS Tool Holder Type

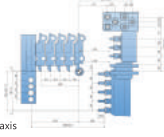
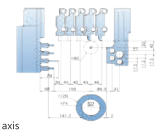
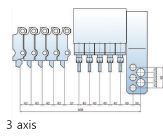
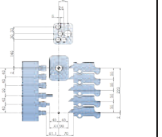
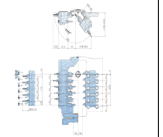
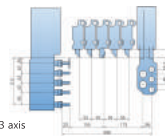
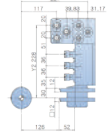
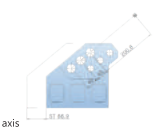
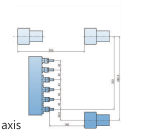
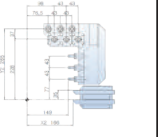
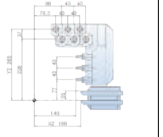
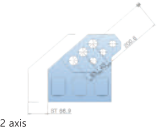


Competitors' direct mounted (fixed bite) type



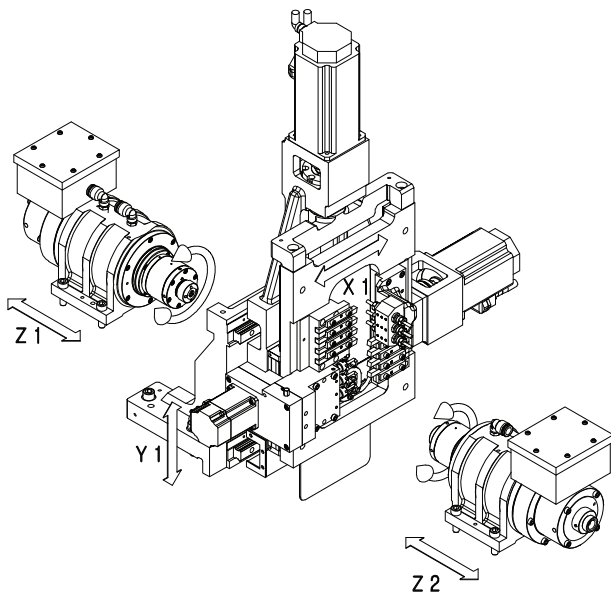
PRODUCT LINE UP

Content	NAME		NN-3X	NN-10EX2	NN-16SB6	NN-16SB7	NN-20/25UB8(K)	NN-20J3
	TYPE		S	S	S	S	S/N	S
	NC		FANUC 0i-TF	Mitsubishi M80	Mitsubishi M70A	Mitsubishi M70V TypeA / FANUC 0i-TF	Mitsubishi M80 Type A / FANUC 0i-TF	Mitsubishi M80 / FANUC 0i-TF
Specification	Photo							
	\$1 Tool Lay-out【MAIN】							
	\$2 TOOL LAY-OUT【SUB】							
	Max. Machining capacity (Ø)		Ø3	Ø10	Ø16	Ø16	Ø20 / Ø25	Ø20
\$1	Max. rpm		20,000rpm	15,000rpm	10,000rpm	10,000rpm	10,000rpm	10,000rpm
	Power		1.1/0.75kW	3.7/1.5kW	2.2/1.5kW	2.2/1.5kW	3.7/2.2kW	3.7/1.5kW
\$2	Max. rpm		20,000rpm	15,000rpm	7,000rpm	7,000rpm	8,000rpm	10,000rpm
	Power		1.1/0.75kW	1.1/0.75kW	0.75/0.3kW	0.75/0.3kW	1.5/0.55kW	3.7/1.5kW
Max. Number of tools			17 tools	22 tools	16 tools	20 tools	21 tools	30 tools
\$1	O.D.	Number of tools	8 tools	6 tools	5 tools	5 tools	5 tools	6 tools
		Bite size	□8	□10	□12.7	□12.7	□12.7	□12.7
	I.D.	Number of tools	ER8X6tools (Front3+Rear3)	ER11X4tools (OP : Rear4)	ER11X4tools (OP : Rear4)	ER11X4tools (OP : Rear4)	ER16X4tools (OP : Rear4)	ER16X4tools (OP : Rear4)
	Cross	Max. rpm	9,000rpm	10,000rpm	8,000rpm	8,000rpm	6,000rpm	6,000rpm
		Power	0.35kW	0.4kW	0.4kW	0.4kW	0.75kW	0.75kW
Number of tools		ER11×3 tools	ER11×4 tools	ER11×3 tools	ER11×3 tools	ER16×4 tools (Option: ER16×5 tools)	ER16×5 tools	
\$2	O.D.	Number of tools	-	-	-	-	1 tool (removed for K)	2 tools
		Bite size	-	-	-	-	□10	□12.7
	I.D.	Number of tools	-	ER11×4 tools	-	ER16×2 tools	ER16×3 tools (ER16×2 tools for K)	ER16×3 tools
	Cross	Max. rpm	-	-	-	6,000rpm	(6,000rpm for K)	6,000rpm
		Power	-	-	-	0.4kW	(0.4kW for K)	0.75kW
		Number of tools	-	-	-	-	-	ER16×3 tools
	ECC	Number of tools	-	-	-	ER16×2 tools	(ER16×2 tools for K)	ER11×3 tools
No. of Axis (C1, C2 excluded)			4	5	4	5	5	6
Stroke (mm)	Z1		120	112	110	110	200	205
	X1		32	64	114	114	133	169
	Y1		157	159	255	255	252	288
	Z2		120	202	170	250	263	300
	X2		-	202	-	187	222	221
	Y2		-	-	-	-	-	228
Dimension	Size (LxWxH)		1,501x962x1,643	1,713x825x1,650	1,775x950x1,655	2,188x1,000x1,635	2,162x1,090x1,676	2,430x1,644x1,855
	Weight		1,000kg	1,500kg	1,700kg	1,950kg	2,135kg	2,700kg
Remark								
• O.D tool post			Wedge	Holder	Holder	Holder	Holder	Holder
				Wedge	Wedge	Wedge	Wedge	Wedge
• Application			• Small precision combined turning	• Small precision combined turning	• Small precision combined turning	• Multi-functional combined turning	• Diffusion model for combined turning	• Multi-functional combined turning
			• Best spec in its class	• Best spec in its class	• Best spec in its class			• Best spec in its class
								• Shortened cycle time

Content	NAME		NN-20J3XB	NN-32UB8K2	NN-32KM	NN-32YB3	NN-32YB3XB	NN-38UB8K2
	TYPE		S	S	S	S/N	S/N	S/N
	NC		Mitsubishi M80	Mitsubishi M80	Mitsubishi M80	Mitsubishi M80 / FANUC Oi-TF	Mitsubishi M80	Mitsubishi M80
Specification	Photo							
	\$1 Tool Lay-out【MAIN】							
	\$2 TOOL LAY-OUT【SUB】							
	Max. Machining capacity (Ø)		Ø20	Ø32	Ø32	Ø32	Ø32	Ø38
\$1	Max. rpm		10,000rpm	8,000rpm	8,000rpm	8,000rpm	8,000rpm	8,000rpm
	Power		3.7/1.5kW	5.5/3.7kW	7.5/5.5kW	5.5/3.7kW	5.5/3.7kW	7.5/5.5kW
\$2	Max. rpm		10,000rpm	6,000rpm	8,000rpm	8,000rpm	8,000rpm	8,000rpm
	Power		3.7/1.5kW	3.7/1.5kW	5.5/3.7kW	3.7/1.5kW	3.7/1.5kW	5.5/3.7kW
Max. Number of tools			29 tools	23 tools	26 tools (OP : 28)	30 tools	39 tools	26 tools
\$1	O.D.	Number of tools	5 tools	5 tools (□12.7×3, □16×2)	5 tools	5 tools	6 tools	5 tools
		Bite size	□12.7	□12.7, □16	□16	□16	□16	□20
	I.D.	Number of tools	ER16X4tools (OP : Rear4)	ER16X3tools (OP : Rear3) ER20X1tools (OP : Rear1)	ER16X3tools (OP : Rear3) ER20X2tools (OP : Rear2)	ER16X3tools (OP : Rear3) ER20X1tools (OP : Rear1)	ER16X5tools (OP : Rear5) ER20X1tools (OP : Rear1)	ER16×3 tools ER20×2 tools
	Cross	Max. rpm	6,000rpm	6,000rpm	6,000rpm	6,000rpm	6,000rpm	6,000rpm
		Power	1.5kW	1.5kW	1.5kW	1.5kW	1.5kW	1.5kW
Number of tools		ER16×5 tools	ER16×3 tools	ER16×5 tools	ER20×6 tools	ER20X5tools (Front) ER11X5tools (Rear)	ER20×5 tools	
\$2	O.D.	Number of tools	2 tools	-	-	2 tools	2 tools	-
		Bite size	□12.7	-	-	□16	□16	-
	I.D.	Number of tools	ER16×3 tools	ER16×3 tools	ER16×2 tools (OP: ER16×4 tools)	ER16×3 tools	ER16×3 tools	ER20×2tools ER16x1 tools
	Cross	Max. rpm	6,000rpm	6,000rpm	6,000rpm	6,000rpm	6,000rpm	6,000rpm
		Power	1.5kW	0.9kW	0.9kW	1.5kW	1.5kW	0.9kW
		Number of tools	ER16×3 tools	-	-	ER16×3 tools	ER16×3 tools	-
ECC	Number of tools	ER11×3 tools	ER16×3 tools	ER16×4 tools (OP: ER16×4 tools)	ER16×3 tools	ER16×3 tools	ER20×3 tools	
No. of Axis (C1, C2 excluded)			7	5	5 / OP 6	6	7	5
Stroke (mm)	Z1		205	194	320	190	190	262
	X1		308	138	80	96	96	234
	Y1		165.5	288	468	223	222	413
	Z2		350	304	305	316.4	316.4	318
	X2		221	222	382.5	184	184	417
	Y2		228	-	45 (OP)	265	265	-
Dimension	Size (LxWxH)		2,411x1,478x2,005	2,386x1,109x1,676	2,896x1,460x1,755	2,483x1,425x1,825	2,278x1,656x1,990	2,749x1,528x1925
	Weight		2,800kg	2,450kg	3,800kg	3,030kg	3,050kg	3,600kg
Remark								
• O.D tool post				Holder	Holder	Holder	Holder	Holder
				Wedge	Wedge	Wedge	Wedge	Wedge
• Application			• Multi-functional combined turning	• Diffusion model for combined turning	• Multi-functional combined turning	• Multi-functional combined turning	• Multi-functional combined turning	• Multi-functional combined turning
			• Best spec in its class		• Best spec in its class	• Best spec in its class	• Best spec in its class	• Best spec in its class
			• Shortened cycle time		• Shortened cycle time	• Shortened cycle time	• Shortened cycle time	• Shortened cycle time



-  **Specialized for miniature and high-precision parts**
 - Horizontal tool post
-  **The best tool layout among equivalent models**
 - The largest number of tools: 17EA
 - Drastically shortened cycle time
-  **Various special tools covered**
-  **Improved machining capacity with high-precision parts and difficult-to-machine material**
 - Horizontal tool post

[illegible]

Feed	Unit	Z1	X1	Y1	Z2
Feed distance	mm	120	32	157	120
Rapid feed rate	m/min	20	20	20	20

Tools			Unit	NN-3X	Remarks
Max. number of tools			EA	17	
Main	O.D. tool		EA	8	□8
	I.D. tool	Front	EA	3	ER8
		Rear	EA	3	ER8
	Cross drill		EA	3	ER11

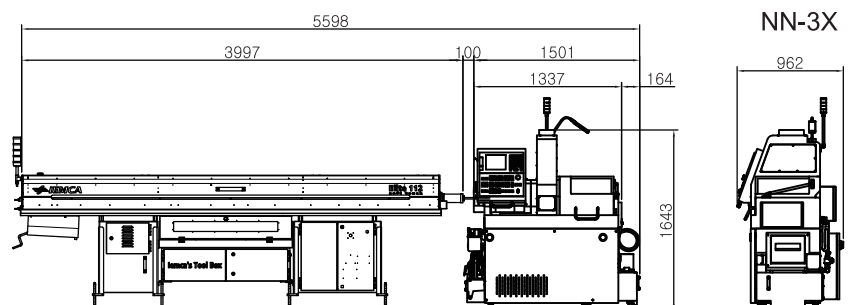
NN-3X Specifications

Content		Specification	Specification Value
Machining capacity		Max. machining diameter	Φ3mm
		Max. machining length	30mm / 1chuck
		Max. parts unloading length	30mm
Spindle		Main spindle through-hole diameter	Φ4mm
		Spindle RPM (Main/Sub)	Max. 20,000rpm
		Sub spindle chucking diameter	Φ3mm
Tool	Type	Max. number of tools	17
		Max. machining drill	Φ2mm
		Max. machining tap	M1
	Main	O.D. tool	8 (□8X100mm max)
		I.D. tool	Front 3 + Rear 3 (ER8)
		Cross drill	3 (ER11)
	SUB	Cross drill RPM	Max. 9,000rpm
		O.D. tool	-
		I.D. tool	-
		I.D. eccentric tool	-
		Cross drill	-
		Cross drill RPM	-
Feed		Rapid feed rate	20m/min
		Min. command unit	0.001mm
		C-axis min. command unit (Main/Sub)	0.001°
Motor		Main spindle motor	1.1/0.75kW
		Cross drill motor	0.35kW
		Sub spindle motor	1.1/0.75kW
		Sub cross drill motor	-
		X1,Z1,Z2 axis feed motor	0.5kW
		Y1 axis feed motor	0.75kW
		Coolant pump (Main/Sub)	0.25kW
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	950mm
		Input power capacity	12KVA
		Air pressure/Flow rate	0.6MPa.30L/min
		Coolant tank	65L
		WxDxH	1,501 x 962 x 1,643 mm
		Weight (Standard accessories included)	1,000kg
NC		NC (Fanuc)	FANUC 0i-TF
		NC display	8.4 Color TFT LCD
		Memory capacity	1MB
		No. of tool offset	128sets
		Background edit function	
		C-axis control (Main/Sub spindle)	
		User macro function	
		Nose radius compensation	
		Corner chamfering/corner rounding	
		Fixed cycle	
		Complex fixed cycle	
		Geometric commands	
		Instruction manual	
		Serial In / Output interface	
		CF card / USB interface	

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Drill holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Overload detection function
Working light(LED)
Parts catcher
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
Oil mist collector
Custom colors
Tooling
Door interlock switch
Barfeeder

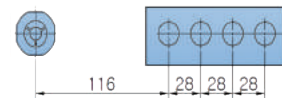
FLOOR Layout



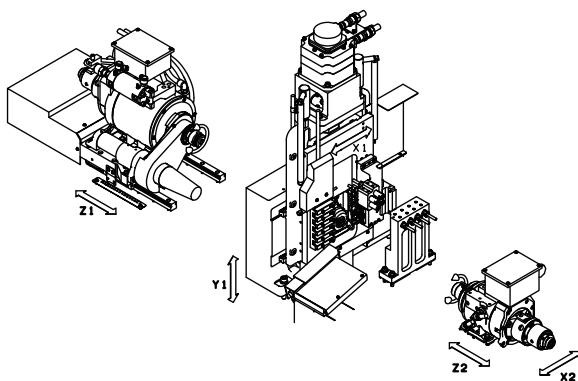


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- Appropriate for high precision machining under $\Phi 10$**
- 
- Increased productivity (shortened C.T.)**
- Built-in motor on main & sub spindle
 - Feed rate 36m/min
- 
- The latest NC equipped**
- MITSUBISHI M80

The technical drawing shows two views of the 600 Series connector. The left view is a front elevation showing four horizontal pins with dimensions 24, 24, 24, and 24 between them. The right view is a side elevation showing the profile of the connector with dimensions 12, 18, 23, 30, 30, 30, 35, 42, 15.3, 22.3, 30, 30, 30, and 10. Dimensions are given in millimeters.



Feed	Unit	Z1	X1	Y1	Z2	X2
Feed distance	mm	112	64	159	202	202
Rapid feed rate	m/min	30	30	30	30	30



Tools			Unit	NN-10EX2		Remarks
				Standard	K	
Max. number of tools			EA	22		
Main	O.D. tool		EA	6		□10
	I.D. tool	front	EA	4		ER11
		Rear(op)	EA	4		ER11
	Cross drill		EA	4		ER11
SUB	I.D. tool		EA	4	2	ER11
	Eccentric tool		EA	-	2	ER11

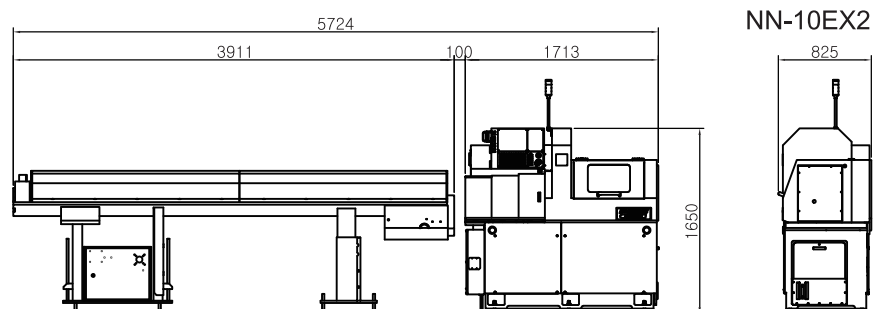
NN-10EX2 Specifications

Content		Specification Value	
		10EX2	
Machining capacity	Max. machining diameter	Φ10mm	
	Max. machining length	100mm / 1chuck	
	Max. parts unloading length	50mm	
Spindle	Main spindle through-hole diameter	Φ13mm	
	Spindle RPM (Main/Sub)	Max. 15,000rpm/15,000rpm	
	Sub spindle chucking diameter	Φ10mm	
Tool	Type	Type	Standard K
		Max. number of tools	22
		Max. machining drill	Φ7mm
		Max. machining tap	M6
	Main	O.D. tool	6 (□10X100mm)
		I.D. tool	4 (ER11) (OP : Rear 4)
		Cross drill	4 (ER11)
		Cross drill RPM	10,000rpm
	SUB	I.D. tool	4 (ER11) 2 (ER11)
		I.D. rotary tool	- 2 (ER11)
Feed	Rapid feed rate	30m/min	
	Min. command unit	0.0001mm	
	C-axis min. command unit (Main/Sub)	0.0001°	
Motor	Main spindle motor	3.7/1.5kW	
	Cross drill motor	0.4kW	
	Sub spindle motor	1.1/0.75kW	
	Sub rotary motor	0.4kW	
	X1,Y1,Z1,Z2 axis feed motor	0.5kW	
	Coolant pump	0.25kW	
	Lubricant pump	0.003kW	
Dimensions and etc.	Main spindle center height	1,000mm	
	Input power capacity	6.8KVA	
	Air pressure/Flow rate	0.6MPa.30L/min	
	Coolant tank	110L	
	WxDxH	1,713 x 825 x 1,650mm	
	Weight (Standard accessories included)	1,500kg	
NC	NC (Mitsubishi)	M80	
	NC display	8.4 Color TFT LCD	
	Memory capacity	500KB	
	No. of tool offset	256sets	

Standard Accessories
I.D. tool device
Tool holder
Rotary guide bush
Rotary guide bush drive unit
Drill holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump
Coolant flow detector
Overload detection function
Door interlock switch
Working light(LED)
Parts catcher
Tool set
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
Main spindle drill unit (E-1 unit)
E3 UNIT
Long drill holder
Fixed guide bush
Tap breakage detector
Tool air blow
Rear ejection unit (less than Φ7mm)
Spindle tube liner for small parts
Large-sized lubricant pump 1.8ℓ
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling

FLOOR Layout

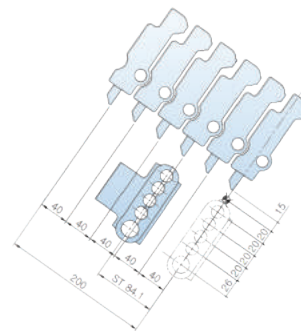
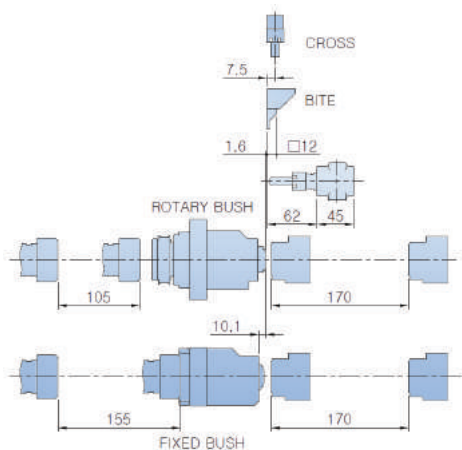


NN-16SB6

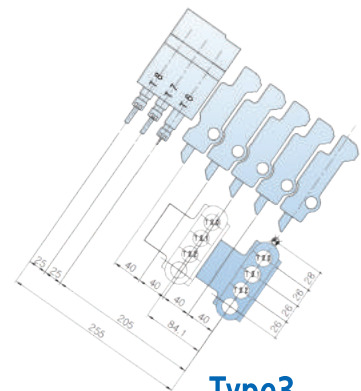
-  Better machining capability for simple parts under $\Phi 16$
-  Foldable door for user convenience
-  Slant type tool post for easy chip removal
-  High efficiency, reasonable price



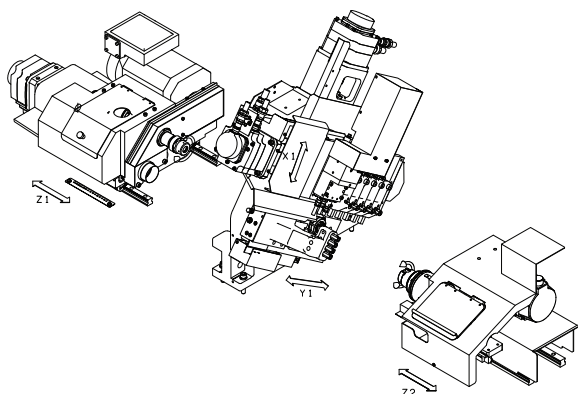
TOOL Layout



Type1



Type3



Feed	Unit	Z1	X1	Y1	Z2	X2
Feed distance	mm	110	114	255	170	-
Rapid feed rate	m/min	36	36	36	36	-

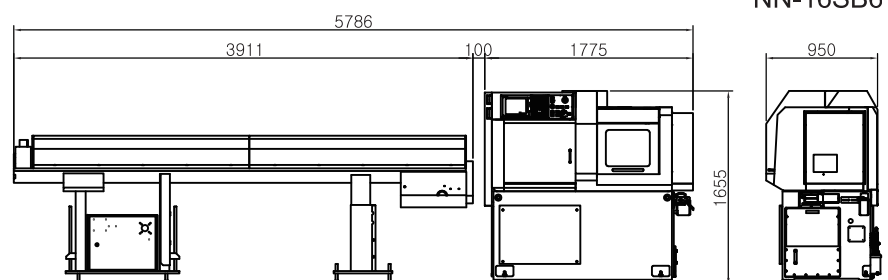
Tools			Unit	NN-16SB6		Remark
				Type 1	Type3	
Max. number of tools			EA	16		
Main	O.D. tool		EA	6	5	□12
	I.D. tool	Front	EA	5	4	ER11
		Rear	EA	5	4	ER11
	Cross drill		EA	-	3	ER11

NN-16SB6 Specifications

Content		Specification	Specification Value	
			Type1	Type3
Machining capacity		Max. machining diameter	Φ16mm	
		Max. machining length	110mm / 1chuck	
		Max. parts unloading length	160mm	80mm
Spindle		Main spindle through-hole diameter	Φ17mm	
		Spindle RPM (Main/Sub)	Max. 10,000rpm / Max. 7,000rpm	
		Sub spindle chucking diameter	Φ16mm	
Tool	Type	Max. number of tools	16	
		Max. machining drill	Φ7mm	
		Max. machining tap	M6	
	Main	O.D. tool(Max. □12.7X130mm)	6	5
		I.D. tool (ER11)	5(Rear 5)	4(Rear 4)
		Cross drill (ER11)	—	3(OP:4)
		Cross drill RPM	Max. 8,000rpm	
	SUB	I.D. tool	—	—
		Max. hole machining diameter	Φ6mm	
		Max. tap diameter	M5mm	
Feed		Rapid feed rate	36m/min	
		Min. command unit	0.0001mm	
		C-axis min. command unit (Main/Sub)	0.0001°	
Motor		Main spindle motor	2.2/1.5kW	
		Cross drill motor		0.4kW
		Sub spindle motor	—	0.75/0.3kW
		X1,Y1,Z1,Z2 axis feed motor	0.5kW	
Dimensions and etc.		Coolant pump	0.25kW	
		Lubricant pump	0.003kW	
		Hydraulic pump	—	0.75kW
		Main spindle center height	1,000mm	
		Input power capacity	4.43KVA	7.1KVA
		Air pressure/Flow rate	0.6MPa.15L/min	
		Coolant tank	70L	
		WxDxH	1,775 x 950 x 1,655 mm	
		Weight (Standard accessories included)	1,700kg	
NC		NC (Mitsubishi)	M70V Type A	
		NC display	8.4 Color TFT LCD	
		Memory capacity	500KB	
		No. of tool offset	80sets	

Standard Accessories	
I.D. tool device	
Tool holder	
Rotary guide bush	
Rotary guide bush drive unit	
Drill holder	
Main : Chuck sleeve/Spring/Spindle cap(1set)	
Sub : Chuck sleeve/Spring/Spindle cap(1set)	
Automatic power turn-off device	
Automatic oiling device	
Coolant pump	
Coolant flow detector	
Overload detection function	
Door interlock switch	
Working light(LED)	
Parts catcher	
Tool set	
Levelling pad	
Three-color warning light	
Display language (ENG/CHN/KOR/ETC)	
Optional Accessories	
Main	Eccentric drill (ER16 X4)
	Eccentric drill (ER11 X4)
	Long drill holder
Fixed guide bush	
Tap breakage detector	
Tool presetter	
Tool air blow	
Rear ejection unit (less than Φ13mm)	
Spindle tube liner for small parts	
Large-sized lubricant pump 1.8ℓ	
Chip conveyor & Chip box	
Medium pressure coolant	
Oil mist collector	
Custom colors	
Tooling	

FLOOR Layout



NN-16SB7

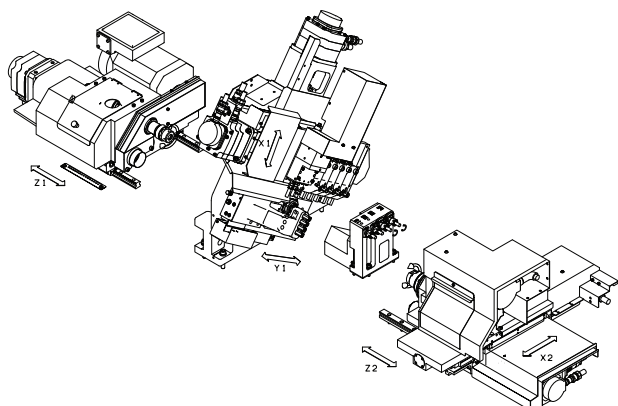
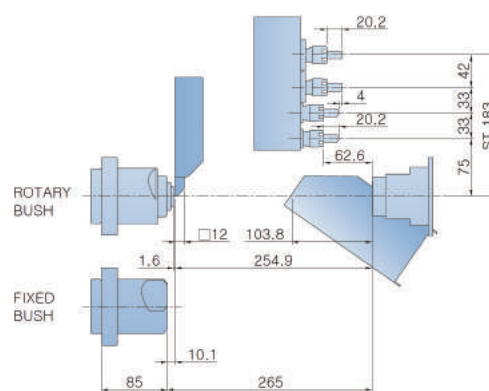
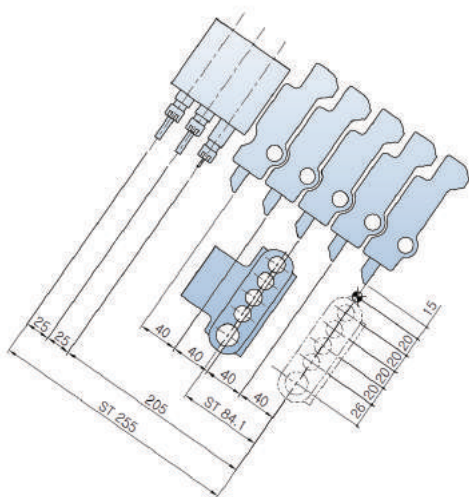
 **Specialized for complicated shape parts under $\Phi 16$**
- Sub tool post and X2 axis for back machining

 **Slant type tool post for easy chip removal**

 **Slotting machining on sub-spindle (option)**



TOOL Layout



Feed	Unit	Z1	X1	Y1	Z2	X2
Feed distance	mm	110	114	255	250	187
Rapid feed rate	m/min	24	24	24	24	24

Tools			Unit	NN-16SB7	Remark
Max. number of tools			EA	20	
Main	O.D. tool		EA	5	□12
	I.D. tool	Front	EA	4	ER11
		Rear(OP)	EA	4	ER11
	Cross drill		EA	3	ER11
SUB	I.D. tool		EA	2	ER16
	Eccentric tool		EA	2	ER16

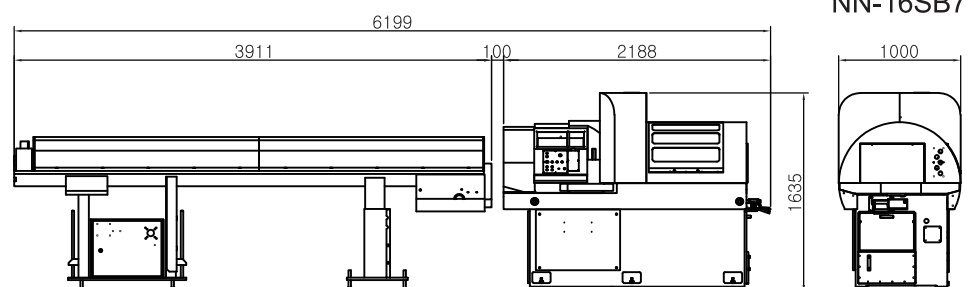
NN-16SB7 Specifications

Content		Specification	Specification Value
Machining capacity		Max. machining diameter	Φ16mm
		Max. machining length	110mm / 1chuck
		Max. parts unloading length	80mm
Spindle		Main spindle through-hole diameter	Φ17mm
		Spindle RPM (Main/Sub)	Max. 10,000rpm / 7,000rpm
		Sub spindle chucking diameter	Φ16mm
Tool	Type	Max. number of tools	20 (OP:22)
		Max. machining drill	Φ7mm
		Max. machining tap	M6
	Main	O.D. tool	5 (□12.7X130mm max)
		I.D. tool	4 (ER11) / OP:Real 4)
		Cross drill	3 (ER11)
		Cross drill RPM	Max. 8,000rpm
	SUB	I.D. tool	2 (ER16)
		I.D. rotary tool	2 (ER16)
		Cross drill RPM	Max. 6,000rpm
Feed		Rapid feed rate	24m/min
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	2.2/1.5kW(Mitsubishi) / 2.2/1.5kW(Fanuc)
		Cross drill motor	0.4kW(Mitsubishi) / 1.0kW(Fanuc)
		Sub spindle motor	0.75/0.3kW(Mitsubishi) / 1.1/0.5kW(Fanuc)
		Sub rotary motor	0.4kW(Mitsubishi) / 0.5kW(Fanuc)
		X1,Y1,Z1,X2,Z2 axis feed motor	0.5kW(Mitsubishi) / 0.75kW(Fanuc)
		Coolant pump (Main/Sub)	0.25kW
Dimensions and etc.		Lubricant pump	0.003kW
		Main spindle center height	1,000mm
		Input power capacity	12KVA
		Air pressure/Flow rate	0.6MPa.30L/min
		Coolant tank	100L
		WxDxH	2,188 x 1,000 x 1,635mm
NC		Weight (Standard accessories included)	1,950kg
		NC (Mitsubishi/Fanuc)	M70 Type A(Mitsubishi) / Oi TF (Fanuc)
		NC display	8.4 Color TFT LCD
		Memory capacity	500KB(Mitsubishi) / 1MB(Fanuc)
		No. of tool offset	80sets(Mitsubishi) / 128sets(Fanuc)
		Background edit function	
		C-axis control (Main/Sub spindle)	
		User macro function	
		Nose radius compensation	
		Corner chamfering/corner rounding	
		Fixed cycle	
		Complex fixed cycle	
		Geometric commands	
		Instruction manual	
		Serial In / Output interface	
		CF card / USB interface	

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)
Coolant unit
Rotary guide bush
Tool holder
Drill holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump
Coolant flow detector
Overload detection function
Door interlock switch
Working light(LED)
Parts catcher
Levelling pad
Three-color warning light
Manual pulse generator(MPG)37P
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
NC (Fanuc 0i-TF)
Cross drill (ER16 X 4)
E3 UNIT
Long drill holder
Fixed guide bush
Tap breakage detector
Tool presetter
Tool air blow
Parts conveyor
Rear ejection unit (less than Φ13mm)
Spindle tube liner for small parts
Large-sized lubricant pump 1.8ℓ
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling

FLOOR Layout



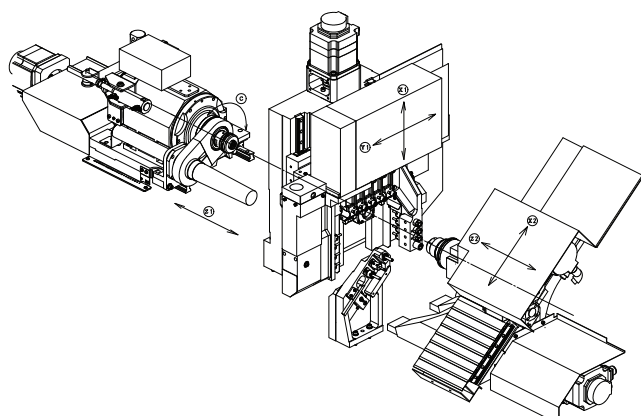
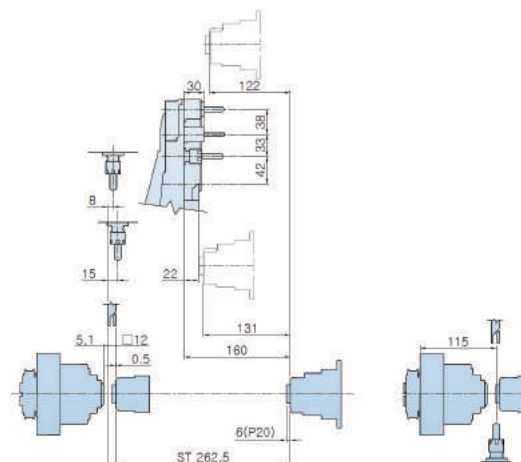
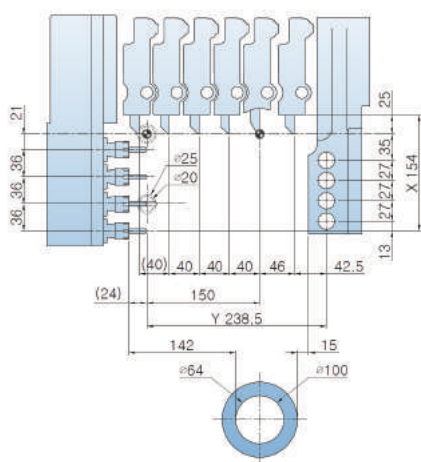
NN-16SB7

NN-20/25UB8

-  **NC controller selectable**
- MITSUBISHI, FANUC
-  **Expanded tool options**
- Eccentric turning operation on sub tool
-  **Guide / Non-guide bush type**
- Minimized remaining material (Non-guide bush type)
-  **Specialized for high-precision parts**
-  **High efficiency, reasonable price**



TOOL Layout



Feed	Unit	Z1	X1	Y1	Z2	X2
Feed distance	mm	200	133	252	263	222
Rapid feed rate	m/min	24	24	24	24	24

Tools		Unit	NN-20/25UB8			Remarks
			Standard	K	K2	
Max. number of tools		EA	21	23		
Main	O.D. tool	EA	5			□12.7(□12.7X3,□16X2)
	I.D. tool	Front	EA	4		ER16
		Rear(op)	EA	4		ER16
	Cross drill	EA	4			ER16
SUB	O.D. tool	EA	1	-	-	□10
	I.D. tool	EA	3	2	3	ER16
	Eccentric tool	EA	-	2	3	ER16

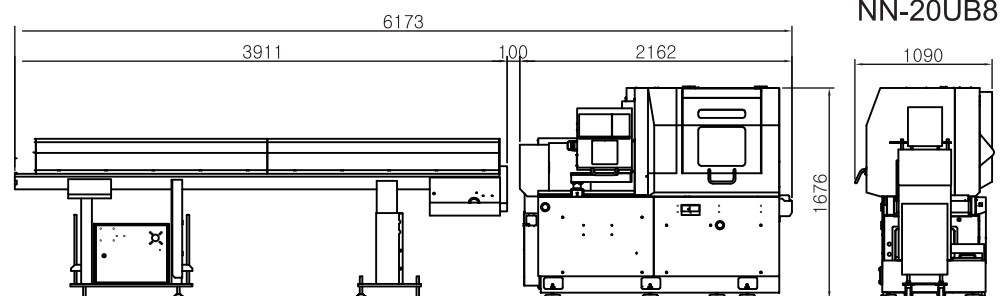
NN-20/25UB8 Specifications

Content		Specification	Specification Value		
			NN-20/25UB8		
Machining capacity		Max. machining diameter	Φ20mm/Φ25mm		
		Max. machining length	200mm		
		Max. parts unloading length	105mm		
Spindle		Main spindle through-hole diameter	Φ24mm/Φ27mm		
		Spindle RPM (Main/Sub)	Max10,000rpm / 8,000rpm		
		Sub spindle chucking diameter	Φ20mm/Φ25mm		
Tool	Type	Type	Standard	K	K2
		Max. number of tools	21		23
		Max. machining drill	Φ10mm		
		Max. machining tap	M8		
	Main	O.D. tool	5 (□12.7x150) / 5 (□12.7x3+□16x2x150)		
		I.D. tool	4 (ER16) (OP Rear 4)		
		Cross drill	4 (ER16)		
		Cross drill RPM	6,000rpm		
	SUB	O.D. tool	1 (□10x80)	—	—
		I.D. tool	3(ER16)	2(ER16)	3(ER16)
		Eccentric drill	—	2(ER16)	3(ER16)
FEED		Rapid feed rate	24m/mim		
		Min. command unit	0.0001mm		
		C-axis min. command unit (Main/Sub)	0.0001°		
Motor		Main spindle motor	2.2/3.7kw(Mitsubishi)/2.2/3.7kw(Fanuc)		
		Cross drill motor	0.75kw(Mitsubishi)/1.0kw(Fanuc)		
		Sub spindle motor	1.5/0.55kw(Mitsubishi)/2.2/1.5kw(Fanuc)		
		Sub rotary motor	0.4kw(Mitsubishi)/0.5kw(Fanuc)		
		Y1,X2,Z2 axis feed motor	0.5(Mitsubishi)/1.4(Fanuc)		
		X1,Z1 axis feed motor	1.0kw(Mitsubishi)/1.4kw(Fanuc)		
		Coolant pump (Main/Sub)	0.25kW		
		Lubricant pump	0.003kW		
Dimensions and etc.		Main spindle center height	1,000mm		
		Input power capacity	12KVA		
		Air pressure/Flow rate	0.6MPa.35L/min		
		Coolant tank	110L		
		WxDxH	2,162x1,090x1,676mm/2,300x1,090x1,676mm		
NC		Weight (Standard accessories included)	2,135kg		
		NC (Mitsubishi/Fanuc)	Mitsubishi M80 /Fanuc Oi TF		
		NC display	8.4 Color TFT LCD		
		Memory capacity	500KB(Mitsubishi) / 1MB(Fanuc)		
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)		
		Background edit function			
		C-axis control (Main/Sub spindle)			
		User macro function			
		Nose radius compensation			
		Corner chamfering/corner rounding			
		Fixed cycle			
		Complex fixed cycle			
		Geometric commands			
		Instruction manual			
		Serial In / Output interface			
		CF card / USB interface			

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Rotary guide bush
Drill holder
Tool holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump
Coolant flow detector
Overload detection function
Door interlock switch
Working light(LED)
Parts conveyor
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
NC (Fanuc Oi-TF)
Cross drill X 5
E3 UNIT
Long drill holder
Fixed guide bush
Tap breakage detector (Main/sub)
Tool presetter
Tool air blow
Rear ejection unit
Spindle tube liner for small parts
Large-sized lubricant pump 1.8ℓ
Chip conveyor
Medium pressure coolant
Oil mist collector
Custom colors
Tooling

FLOOR Layout





The best tool layout among equivalent models

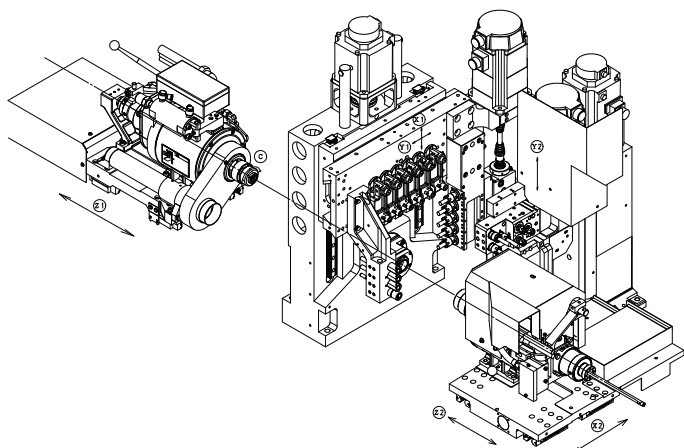
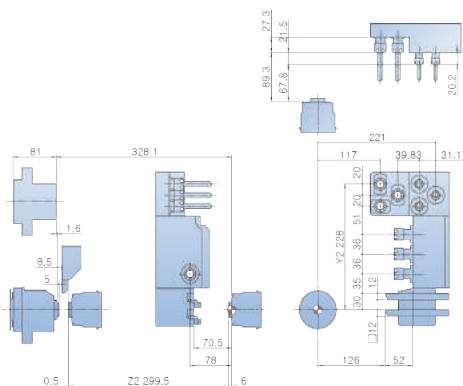
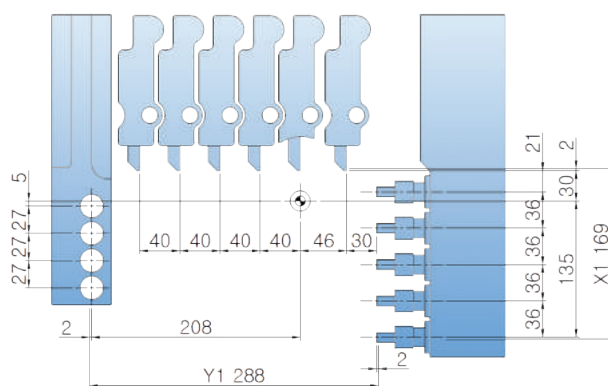
- For complicated shape parts
- Shortened cycle time

 Expanded tool options

 Specialized for high-precision parts

- Horizontal tool post
- Dovetail structure

TOOL Layout



Feed	Unit	Z1	X1	Y1	Z2	X2	Y2
Feed distance	mm	205	169	288	300	221	228
Rapid feed rate	m/min	30	28	28	30	28	28

Tools			Unit	NN-10/20J3	Remarks
Max. number of tools			EA	30	
Main	O.D. tool		EA	6	□12
	I.D. tool	Front	EA	4	ER16
		Rear(OP)	EA	4	ER16
	Cross drill		EA	5	ER16
SUB	O.D. tool		EA	2	□12
	I.D. tool		EA	3	ER16
	Eccentric tool		EA	3	ER11
	Cross drill		EA	3	ER16

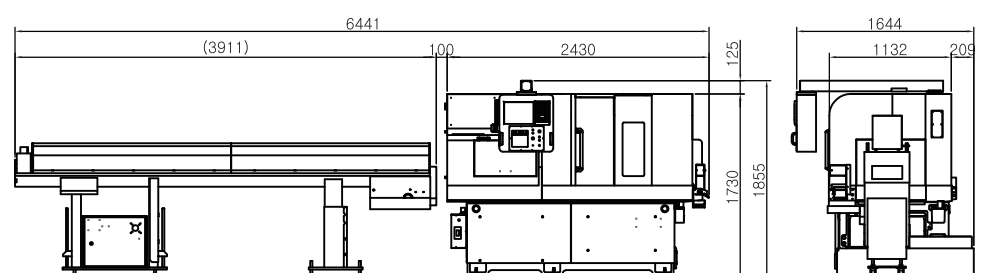
NN-10/20J3 Specifications

Content		Specification Value	
		NN-10J	NN-20J3
Machining capacity	Max. machining diameter	Φ10mm	Φ20mm
	Max. machining length	200mm / 1chuck	
	Max. parts unloading length	93mm	
Spindle	Main spindle through-hole diameter	Φ11.5mm	Φ23mm
	Spindle RPM (Main/Sub)	Max. 15,000rpm	Max. 10,000rpm
	Sub spindle chucking diameter	Φ10mm	Φ20mm
Tool	Max. number of tools	30	
	Type		
	Max. machining drill	Φ7mm	Φ10mm
	Max. machining tap	M6	M10
	Main	O.D. tool	6 (□12.7X150mm max)
		I.D. tool	4 (ER16) (OP : Rear 4)
		Cross drill	5 (ER16)
		Cross drill RPM	Max. 6,000rpm
	SUB	O.D. tool	2 (□12.7X150mm max)
		I.D. tool	3 (ER16)
		I.D. eccentric tool	3 (ER11)
		Cross drill	3 (ER16)
		Cross drill RPM	Max. 6,000rpm
Feed	Rapid feed rate	36m/min	X1,Y1,X2,Y2 : 28m/min Z1,Z2 : 30m/min
	Min. command unit	0.0001mm	
	C-axis min. command unit (Main/Sub)	0.0001°	
Motor	Main spindle motor	3.7/1.5kW	3.7/1.5kW(Mitsubishi) / 3.7/2.2kW(Fanuc)
	Cross drill motor	0.75kW	1.5kW(Mitsubishi) / 1.0kW(Fanuc)
	Sub spindle motor	3.7/1.5kW	3.7/1.5kW(Mitsubishi) / 3.7/2.2kW(Fanuc)
	Sub cross drill motor	0.75kW	1.5kW(Mitsubishi) / 1.0kW(Fanuc)
	Y1,Z1,X2,Z2 axis feed motor	0.5kW	0.5kW(Mitsubishi) / 1.4kW(Fanuc)
	X1,Y2 axis feed motor	1.0kW	1.0kW(Mitsubishi) / 1.4kW(Fanuc)
	Coolant pump (Main/Sub)	0.25kW X 2	
	Lubricant pump	0.003kW	
Dimensions and etc.	Main spindle center height	1,010mm	
	Input power capacity	18KVA	
	Air pressure/Flow rate	0.6MPa.40L/min	
	Coolant tank	160L	
	WxDxH	2,430x1,644x1,855 mm	
	Weight (Standard accessories included)	2,700kg	
NC	NC (Mitsubishi/Fanuc)	M80(Mitsubishi)	M80(Mitsubishi)/ Oi TF (Fanuc)
	NC display	10.4 Color TFT LCD	
	Memory capacity	500KB(Mitsubishi)	500KB(Mitsubishi) / 1MB(Fanuc)
	No. of tool offset	256sets(Mitsubishi)	256sets(Mitsubishi) / 128sets(Fanuc)
	Background edit function		
	C-axis control (Main/Sub spindle)		
	User macro function		
	Nose radius compensation		
	Corner chamfering/corner rounding		
	Fixed cycle		
	Complex fixed cycle		
	Geometric commands		
	Instruction manual		
	Serial In / Output interface		
	CF card / USB interface		

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Rotary guide bush
Drill holder
Tool holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump (Main/Sub)
Coolant flow detector(Main/Sub)
Overload detection function
Door interlock switch
Working light(LED)
Parts conveyor
Parts catcher
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
NC (Fanuc Oi-TF)
Long drill holder
E3 UNIT
Fixed guide bush
Tap breakage detector (Main/sub)
Tool presetter
Tool air blow
Rear ejection unit (less than Φ17mm)
Spindle tube liner for small parts
Large-sized lubricant pump 1.8ℓ
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling

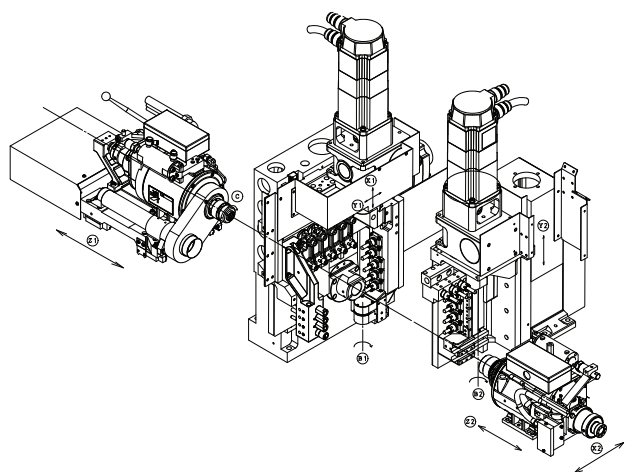
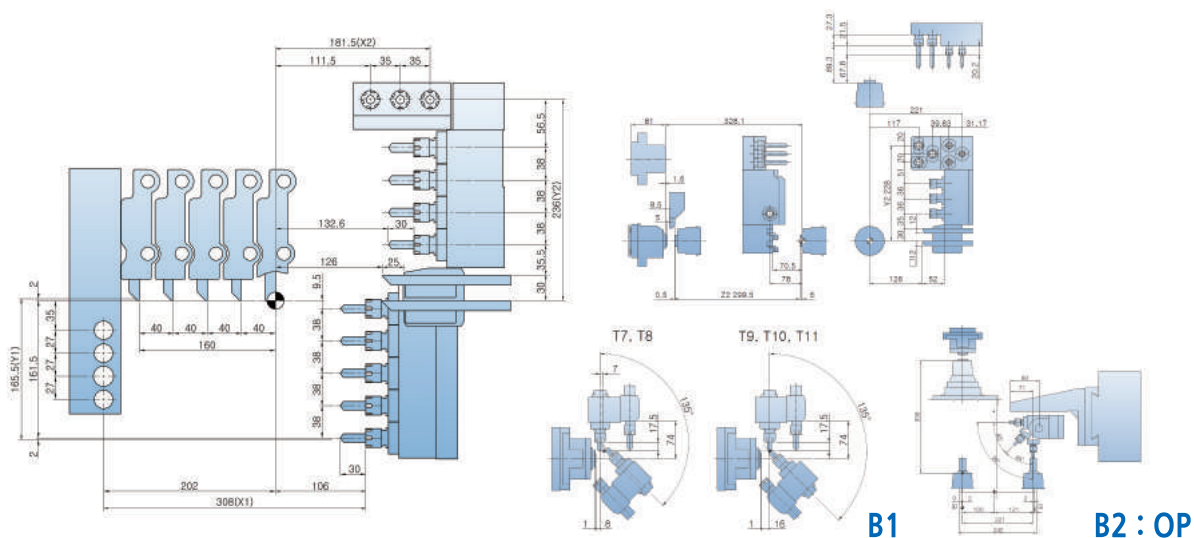
FLOOR Layout





-  **Multi angle machining by B axis control**
 - Drilling, tapping, end-mill
-  **Best tool layout among equivalent models**
 - For complicated shape parts
 - Minimizing cycle time
-  **Expanded special tool options**
-  **Increased machining capability for high precision parts that are difficult to cut**
 - Horizontal tool post

TOOL Layout



Feed	Unit	Z1	X1	Y1	Z2	X2	Y2
Feed distance	mm	205	308	165.5	350	221	228
Rapid feed rate	m/min	30	28	28	30	28	28

Tools			Unit	NN-20J3XB			Remarks
				Type A	Type B	Type C	
Max. number of tools			EA	29	28	27	
Main	O.D. tool		EA	5	6	5	□12
	I.D. tool	Front	EA	4			ER16
		Rear(OP)	EA	4			ER16
	Cross drill		EA	5 (B1axis)	5	5 (B1axis)	ER16
SUB	O.D. tool		EA	2			□12
	I.D. tool		EA	3			ER16
	Eccentric tool		EA	3	-	-	ER11
	Cross drill		EA	3	4 (B1axis)	4 (B2axis)	ER16

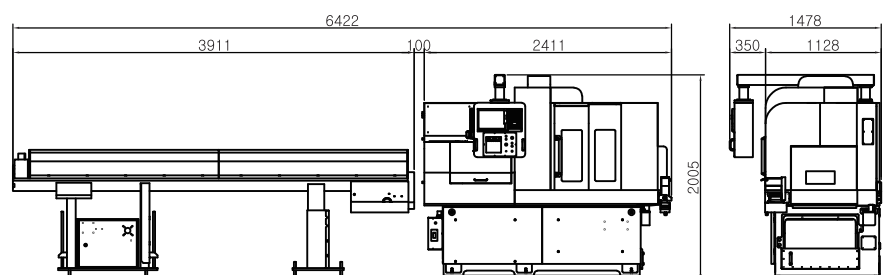
NN-20J3XB Specifications

Content		Specification	Specification Value		
Machining capacity		Max. machining diameter	Φ20mm		
		Max. machining length	200mm / 1chuck		
		Max. parts unloading length	93mm		
Spindle		Main spindle through-hole diameter	Φ23mm		
		Spindle RPM (Main/Sub)	Max. 10,000rpm		
		Sub spindle chucking diameter	Φ20mm		
Tool	Type	Type	Type A	Type B	Type C
		Max. number of tools	29	28	27
		Max. machining drill	Φ10mm		
		Max. machining tap	M10		
	Main	O.D. tool	5 (□12.7X150mm)	6 (□12.7X150mm)	5 (□12.7X150mm)
		I.D. tool	4 (ER16) (OP : Rear 4)		
		Cross drill	5 (ER16)		
		Cross drill RPM	6,000rpm		
	SUB	O.D. tool	2 (□12.7X150mm)		
		I.D. tool	3 (ER16)		
		Eccentric tool	3 (ER11)	—	
		Cross drill	3 (ER16)	4 (B1 axis, ER16)	4 (B2 axis, ER16)
		Cross drill RPM	6,000rpm		
Feed		Rapid feed rate	X1,Y1,X2,Y2:28m/min Z1,Z2:30m/min		
		Min. command unit	0.0001mm		
		C-axis min. command unit (Main/Sub)	0.0001°		
Motor		Main spindle motor	3.7/1.5kW		
		Cross drill motor	1.5kW		
		Sub spindle motor	3.7/1.5kW		
		Sub cross drill motor	1.5kW		
		Y1,Z1,X2,Z2 axis feed motor	0.5kW		
		X1,Z1,X2,Y2 axis feed motor	1.0kW		
		Coolant pump (Main/Sub)	0.25kW X 2		
		Lubricant pump	0.003kW		
Dimensions and etc.		Main spindle center height	1,010mm		
		Input power capacity	18KVA		
		Air pressure/Flow rate	0.6MPa.40L/min		
		Coolant tank	160L		
		WxDxH	2,411x1,478x2,005 mm		
NC		Weight (Standard accessories included)	2,800kg		
		NC (Mitsubishi)	M80		
		NC display	10.4 Color TFT LCD		
		Memory capacity	500kB (1280m)		
		No. of tool offset	256sets		
		Background edit function			
		C-axis control (Main/Sub spindle)			
		User macro function			
		Nose radius compensation			
		Corner chamfering/corner rounding			
		Fixed cycle			
		Complex fixed cycle			
		Geometric commands			
		Instruction manual			
		Serial In / Output interface			
	CF card / USB interface				

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Rotary guide bush
Drill holder
Tool holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump (Main/Sub)
Coolant flow detector(Main/Sub)
Overload detection function
Door interlock switch
Working light(LED)
Parts conveyor
Parts catcher
Levelling pad
Three-color warning light
Cut-off detector
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
Long drill holder
Fixed guide bush
Tap breakage detector (Main/sub)
Tool presetter
Tool air blow
Rear ejection unit (less than Φ17mm)
Spindle tube liner for small parts
Large-sized lubricant pump 1.8ℓ
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling

FLOOR Layout

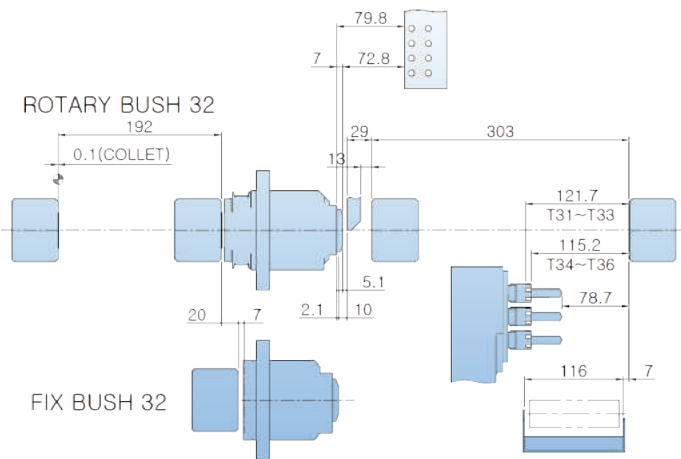
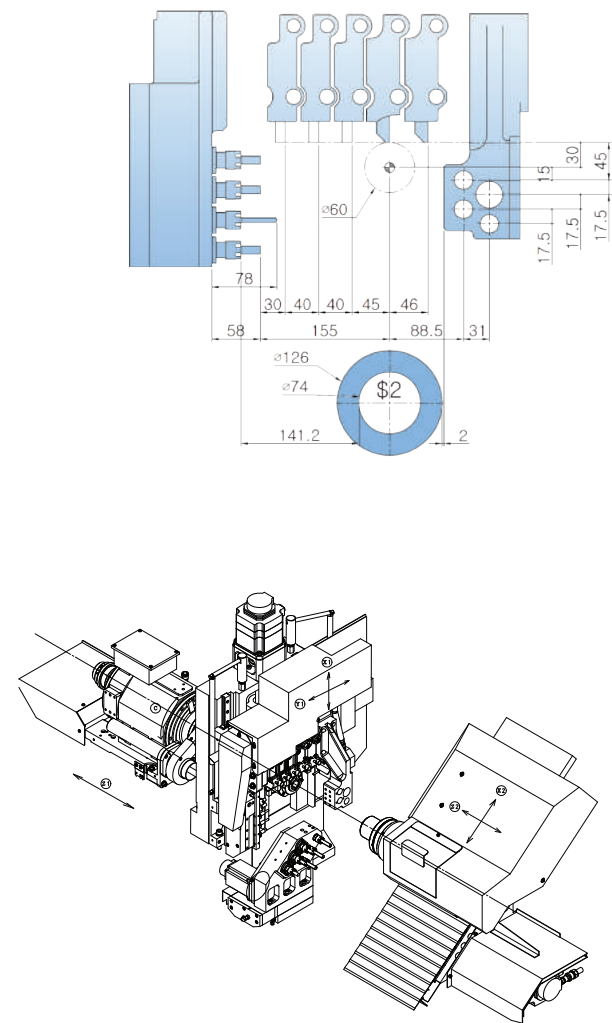


NN-32UB8

-  **The best selling model**
 - Horizontal tool post
 - Dovetail structure
-  **Efficient tool layout**
 - Shortened cycle time
-  **High efficiency, reasonable price**



TOOL Layout



Feed	Unit	Z1	X1	Y1	Z2	X2
Feed distance	mm	194	138	288	304	222
Rapid feed rate	m/min	24	24	24	24	24

Tools		Unit	NN-32UB8			Remarks
			Standards	K	K2	
Max. number of tools		EA	21	23		
Main	O.D. tool	EA	5			□12.7X3, □16X2
	I.D. tool	Front	EA	4		ER20X1,ER16X3
		Rear(OP)	EA	4		ER20X1,ER16X3
	Cross drill	EA	4			ER16
SUB	O.D. tool	EA	1	-	-	□12.7
	I.D. tool	EA	3	2	3	ER16
	Eccentric tool	EA	-	2	3	ER16

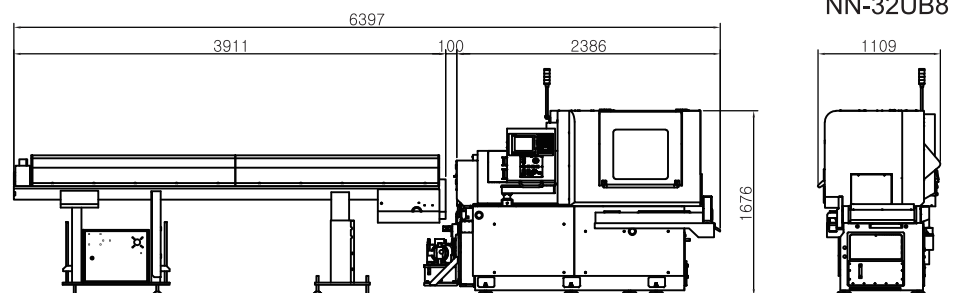
NN-32UB8 Specifications

Content		Specification	Specification Value		
			32UB8		
Machining capacity		Max. machining diameter	Φ32mm		
		Max. machining length	190mm / 1chuck		
		Max. parts unloading length	93mm(N:80mm)		
Spindle		Main spindle through-hole diameter	Φ34mm		
		Spindle RPM (Main/Sub)	Max.8,000rpm/6,000rpm		
		Sub spindle chucking diameter	Φ32mm		
Tool	Type	Type	Standard	K	K2
		Max. number of tools	21		
		Max. machining drill	Φ10mm		
		Max. machining tap	M8		
	Main	O.D. tool	5 (□12.7x3+□16X2X150mm)		
		I.D. tool	4 (ER16X3+ER20X1) (OP : Rear 4)		
		Cross drill	4 (ER16)		
		Cross drill RPM	6,000rpm		
	SUB	O.D. tool	1 (□12)	—	—
		I.D. tool	3 (ER16)	2 (ER16)	3 (ER16)
		I.D. rotary tool	—	2 (ER16)	3 (ER16)
Feed		Rapid feed rate	24m/min		
		Min. command unit	0.0001mm		
		C-axis min. command unit (Main/Sub)	0.0001°		
Motor		Main spindle motor	5.5/3.7kW(Mitsubishi) / 5.5/3.7kW(Fanuc)		
		Cross drill motor	1.5kW(Mitsubishi) / 1.0kW(Fanuc)		
		Sub spindle motor	3.7/1.5kW(Mitsubishi) / 3.7/1.5kW(Fanuc)		
		Sub rotary motor	0.9kW(Mitsubishi) / 1.0kW(Fanuc)		
		Y1 axis feed motor	0.5kW(Mitsubishi) / 1.4kW(Fanuc)		
		X1,Z1,X2,Z2 axis feed motor	1.0kW(Mitsubishi)/ 1.4kW(Fanuc)		
		Coolant pump (Main/Sub)	0.25kW		
Dimensions and etc.		Lubricant pump	0.003kW		
		Main spindle center height	1,000mm		
		Input power capacity	17KVA		
		Air pressure/Flow rate	0.6MPa.20L/min		
		Coolant tank	125L		
		WxDxH	2,386 x 1,109 x 1,676mm		
NC		Weight (Standard accessories included)	2,450kg		
		NC (Mitsubishi/Fanuc)	M80(Mitsubishi) / Oi TF (Fanuc)		
		NC display	8.4 Color TFT LCD		
		Memory capacity	500KB(Mitsubishi) / 1MB(Fanuc)		
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)		
		Background edit function			
		C-axis control (Main/Sub spindle)			
		User macro function			
		Nose radius compensation			
		Corner chamfering/corner rounding			
		Fixed cycle			
		Complex fixed cycle			
		Geometric commands			
		Instruction manual			
		Serial In / Output interface			
		CF card / USB interface			

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Rotary guide bush
Drill holder
Tool holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump
Coolant flow detector
Overload detection function
Door interlock switch
Working light(LED)
Parts conveyor
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
Cross drill X 5
E3 UNIT
Long drill holder
Fixed guide bush
Tap breakage detector
Tool presetter
Tool air blow
Rear ejection unit
Spindle tube liner for small parts
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling

FLOOR Layout

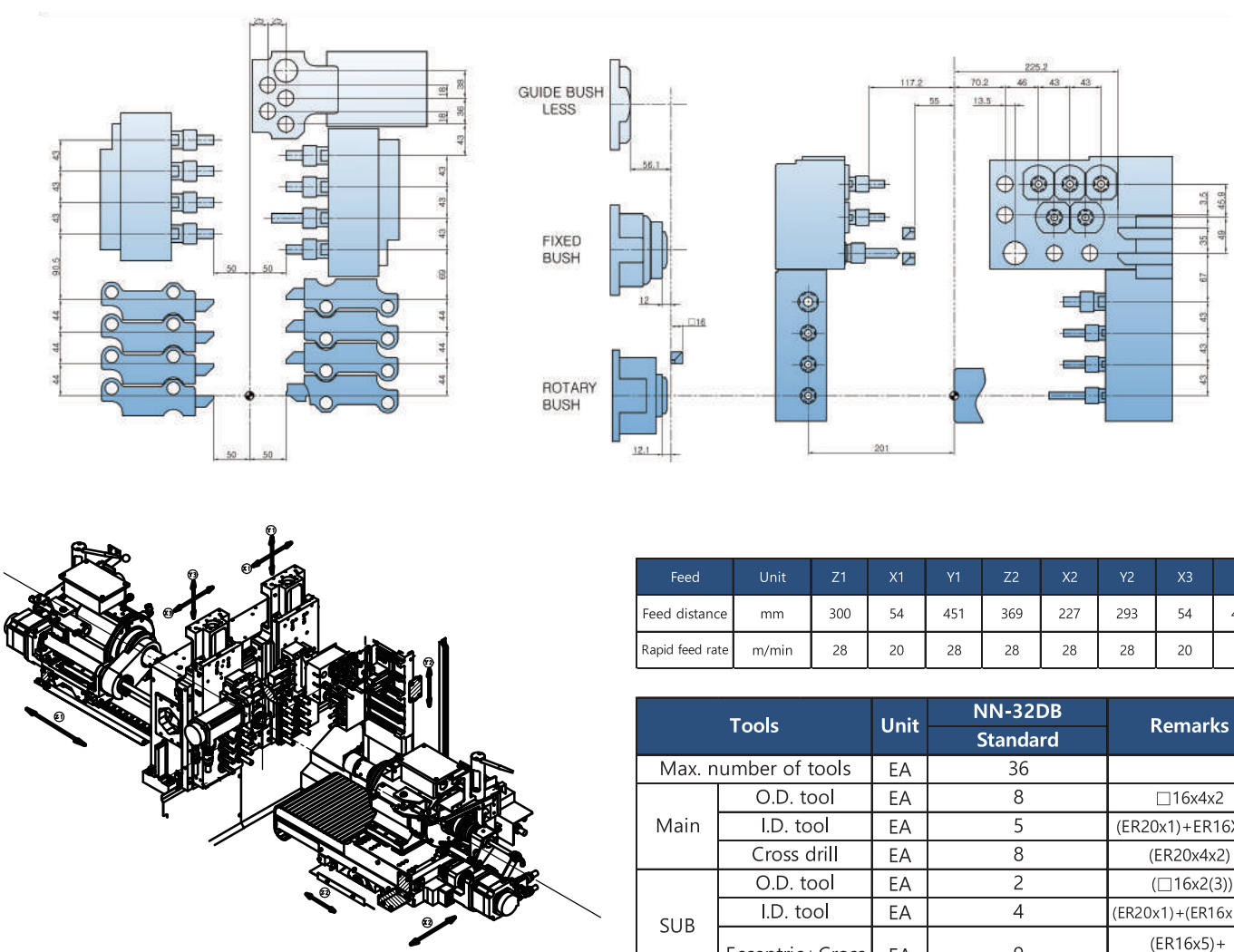


NN-32DB

-  Flagship machine specialized for difficult parts to cut
 - Opposite type tool latyout
 - Balance O.D cutting
-  Best tool layout among equivalent models
 - Increased tooling
 - Minimized C/T
-  Minimized thermal deformation and vibration
 - Integrated casting bed
 - Dovetail structure



TOOL Layout



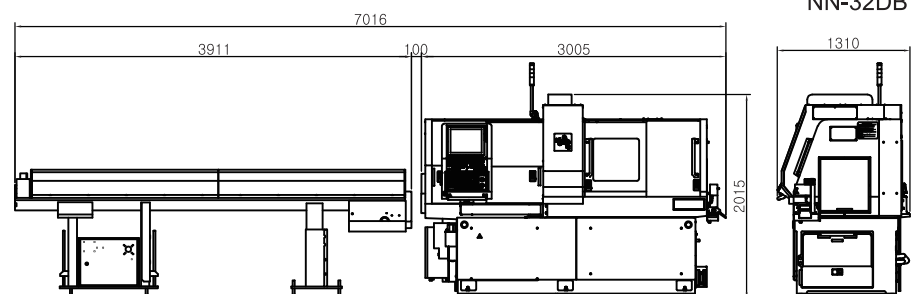
NN-32DB Specifications

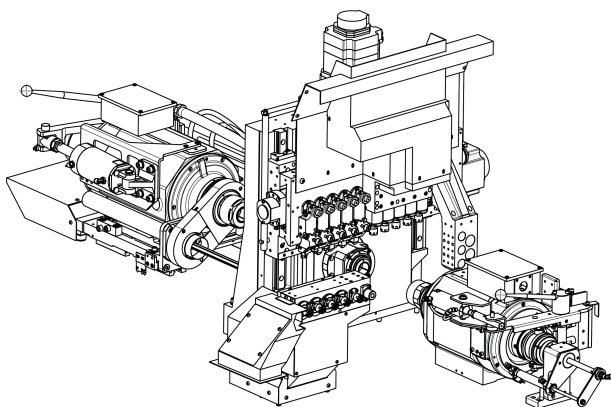
Content		Specification	Specification Value
			NN-32DB
Machining capacity		Max. machining diameter	Φ32mm
		Max. machining length	FB330mm/ RB300mm
		Max. parts unloading length	100mm
Spindle		Main spindle through-hole diameter	Φ34mm
		Spindle RPM (Main/Sub)	Max.8,000rpm
		Sub spindle chucking diameter	Φ32mm
Tool	Type	Type	Standard
		Max. number of tools	36
		Max. machining drill	Φ10mm
		Max. machining tap	M8
	Main	O.D. tool	8 (□16x4x2)
		I.D. tool	5 (ER20x1)+(ER16X4)
		Cross drill	8(ER20x4x2)
		Cross drill RPM	6,000rpm
	SUB	O.D. tool	2 (□16x2(3))
		I.D. tool	4(ER20x1)+(ER16x3(4))
		I.D. rotary tool	9 (E.Sx5)+(C.Sx4) (ER16x5)+(ER20x1+ER16x3)
		Cross drill RPM	6,000rpm
Feed		Rapid feed rate	(Z1,Y1,Z1,Z2,X2,Y2)28m/min (X1,X3)20m/min
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	7.5/3.7kW
		Cross drill motor	1.5kW
		Sub spindle motor	7.5/3.7kW
		Sub rotary motor	1.5kW
		X1,Y1,Z1,X3,Y3 axis feed motor	1.0kW
		X2,Y2,Z2 axis feed motor	1.0kW
		Coolant pump (Main/Sub)	0.25kW
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	1,060mm
		Input power capacity	17KVA
		Air pressure/Flow rate	0.6MPa.20L/min
		Coolant tank	205L
		WxDxH	3,005X1,310X2,015mm
		Weight (Standard accessories included)	3,850kg
NC		NC (Mitsubishi)	M830S
		NC display	15" Color LCD
		Memory capacity	500KB(Mitsubishi)
		No. of tool offset	333sets(Mitsubishi)
		Background edit function	
		C-axis control (Main/Sub spindle)	
		User macro function	
		Nose radius compensation	
		Corner chamfering/corner rounding	
		Fixed cycle	
		Complex fixed cycle	
		Geometric commands	
		Instruction manual	
		Serial In / Output interface	
		CF card / USB interface	

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Rotary guide bush
Drill holder
Tool holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump
Coolant flow detector
Overload detection function
Door interlock switch
Working light(LED)
Parts conveyor
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
Long drill holder
Fixed guide bush
Tool presetter
Tool air blow
Rear ejection unit
Spindle tube liner for small parts
Chip conveyor & Chip box
Medium pressure coolant
Custom colors
Tooling

FLOOR Layout





Tools			Unit	NN-32KM		Remarks
				Standard	Option	
Max. number of tools			EA	26	28	
Main	O.D. tool		EA	5	5	□12
	I.D. tool	Front	EA	5	5	ER20X2, ER16X3
		Rear(OP)	EA	5	5	ER20X2, ER16X3
	Cross drill		EA	5	5	ER16X5
SUB	I.D. tool		EA	2	4	ER16
	Eccentric tool		EA	4	4	ER16

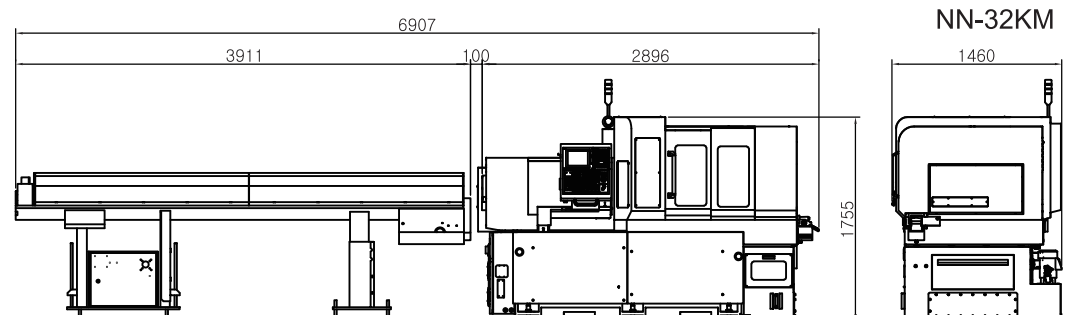
NN-32KM Specifications

Content		Specification	Specification Value
Machining Capacity		Max. machining diameter	Φ32mm
		Max. machining length	320mm /1chuck
		Max. parts unloading length	125mm
Spindle		Main spindle through-hole diameter	Φ43mm
		Spindle RPM	Max. 8,000rpm
		Sub spindle chucking diameter	Φ32mm
Tool	Type	Max. number of tools	26 (Standard - 5 axis) / 28 (Option- 6 axis)
		Max. machining drill (O.D. tool/S3/S4)	Φ13 / Φ10 / Φ8
		Max. machining tap (O.D. tool/S3/S4)	M12 / M8 / M6
	Main	O.D. tool	5 (□16X150mm max)
		I.D. tool	5 (ER16X3+ ER20X2)
		Cross drill	5 (ER16)
		Cross drill RPM	Max. 6,000rpm
		I.D. tool	2 (ER16) / 4 (ER16) (Option -6 axis)
		I.D. eccentric tool	4 (ER16) / 4(ER16) (Option -6 axis)
	Sub	Cross drill RPM	Max. 6,000rpm
		Rapid feed rate	32m/min (Y2: 24m/min)
		Min. command unit	0.0001mm
	Feed	C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	5.5/7.5Kw
		Cross drill motor	1.5kW
		Sub spindle motor	3.7/5.5kW
		Sub rotary motor	0.9kW
		X1,Y1,Z1,X2,Z2 axis feed motor	1.0kW
		Y2 axis feed motor	0.5kW
		Coolant pump	1.1kW
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	1,025mm
		Input power capacity	24KVA
		Air pressure/Flow rate	0.6MPa., 60L/min
		Coolant tank	250L
		WxDxH	2,896x1,460x1,755 mm
		Weight (Standard accessories included)	3,800kg
NC		NC (Mitsubishi)	Mitsubishi M80
		NC display	8.4 Color TFT LCD
		Memory capacity	500KB
		No. of tool offset	256 Sets
		Background edit function	
		C-axis control (Main/Sub spindle)	
		User macro function	
		Nose radius compensation	
		Corner chamfering/corner rounding	
		Fixed cycle	
		Complex fixed cycle	
		Geometric commands	
		Instruction manual	
		Serial In / Output interface	
		CF card / USB interface	

Standard Accessories	
	I.D. tool device
	Cross drill unit
	Manual pulse generator(MPG)37P
	Coolant unit
	Rotary guide bush
	Drill holder
	Tool holder
	Main : Chuck sleeve/Spring/Spindle cap(1set)
	Sub : Chuck sleeve/Spring/Spindle cap(1set)
	Automatic power turn-off device
	Automatic oiling device
	Coolant pump (Main/Sub)
	Coolant flow detector
	Overload detection function
	Door interlock switch
	Working light(LED)
	Parts conveyor
	Levelling pad
	Three-color warning light
	Display language (ENG/FRA/GER/ITA/JPN/KOR/POL/RUS/SPA/ETC)

Optional Accessories	
	Fixed guide bush
	Tool presetter
	Tool air blow
	Rear ejection unit
	Spindle tube liner for small parts
	Large-sized lubricant pump 1.8ℓ
	Chip conveyor & Chip box
	Medium/High pressure coolant
	Oil mist collector
	Custom colors
	Tooling
	Wedge type O.D. tool (□16X150mm X6)
	Max. machining diameter Φ38mm (Main)

FLOOR Layout

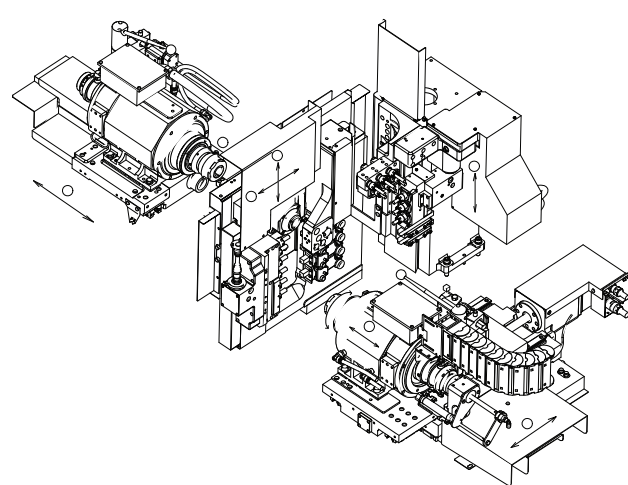
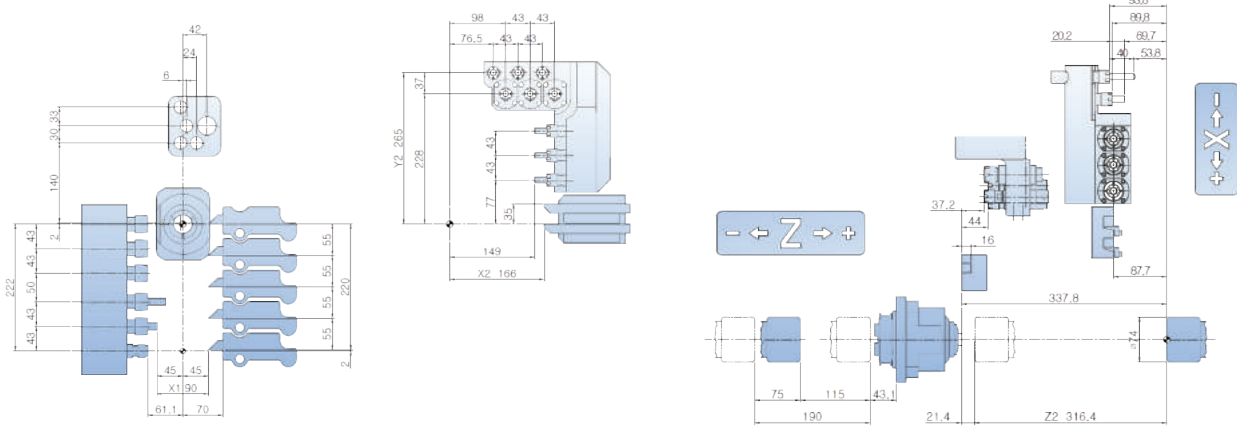


NN-32YB3

-  Back tool stand, best tool capacity
-  The best model among equivalent models in high precision and machinability of difficult-to-cut materials
 - Horizontal tool post
 - Dovetail structure
-  Appropriate for complex shape machining
 - Improved Tooling capability
-  Minimized heat deformation and vibration
 - Intergrated casting bed



TOOL Layout



Feed	Unit	Z1	X1	Y1	Z2	X2	Y2
Feed distance	mm	190	96	223	316.4	184	265
Rapid feed rate	m/min	36	36	36	36	36	36

Tools			Unit	NN-32YB3	Remarks
Max. number of tools			EA	30	
Main	O.D tool		EA	5	□16
	I.D. tool	Front	EA	4	ER20X1,ER16X3
		Rear(OP)	EA	4	ER20X1,ER16X3
	Cross drill		EA	6	ER20X6
SUB	O.D tool		EA	2	□16
	I.D. tool		EA	3	ER16
	Eccentric tool		EA	3	ER16
	Cross drill		EA	3	ER16

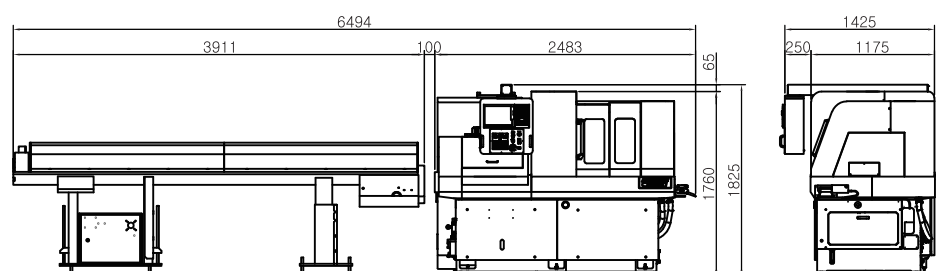
NN-32YB3 Specifications

Content		Specification	Specification Value
Machining capacity		Max. machining diameter	Φ32mm
		Max. machining length	190mm /1chuck
		Max. parts unloading length	93mm
Spindle		Main spindle through-hole diameter	Φ37mm
		Spindle RPM (Main/Sub)	Max. 8,000rpm
		Sub spindle chucking diameter	Φ32mm
Tool	Type	Max. number of tools	30
		Max. machining drill	Φ13mm
		Max. machining tap	M10
	Main	O.D. tool	5 (□16X150mm max)
		I.D. tool	4 (ER16X3+ER20X1) (OP : Rear4)
		Cross drill	6 (ER20x6)
		Cross drill RPM	Max. 6,000rpm
	SUB	O.D. tool	2 (□16X150mm max)
		I.D. tool	3 (ER16)
		Eccentric tool	3 (ER16)
		Cross drill	3 (ER16)
		Cross drill RPM	Max. 6,000rpm
Feed		Rapid feed rate	36m/min
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	5.5/3.7Kw(Mitsubishi) / 7.5/5.5kW(Fanuc)
		Cross drill motor	1.5kW(Mitsubishi) / 1.0kW(Fanuc)
		Sub spindle motor	3.7/1.5kW(Mitsubishi)/ 5.5/2.2kW(Fanuc)
		Sub cross drill motor	1.5kW(Mitsubishi) / 1.0kW(Fanuc)
		X1,Y1,Z1,X2,Y2,Z2 axis feed motor	1.0kW(Mitsubishi) / 1.4kW(Fanuc)
		Coolant pump (Main/Sub)	0.25kW x 2
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	1,000mm
		Input power capacity	25KVA
		Air pressure/Flow rate	0.6MPa. 20L/min
		Coolant tank	100L
		WxDxH	2,483 x 1,425 x 1,825 mm
		Weight (Standard accessories included)	3,030kg
NC		NC (Mitsubishi/Fanuc)	M80 / Oi TF (Fanuc)
		NC display	10.4 Color TFT LCD
		Memory capacity	500KB(Mitsubishi) / 1MB(Fanuc)
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)
		Background edit function	
		C-axis control (Main/Sub spindle)	
		User macro function	
		Nose radius compensation	
		Corner chamfering/corner rounding	
		Fixed cycle	
		Complex fixed cycle	
		Geometric commands	
		Instruction manual	
		Serial In / Output interface	
		CF card / USB interface	

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Rotary guide bush
Drill holder
Tool holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump (Main/Sub)
Coolant flow detector(Main/Sub)
Overload detection function
Door interlock switch
Working light(LED)
Parts conveyor
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
NC (Fanuc 0i-TF)
E3 UNIT
Cross drill X 7
O.D. tool X 6
Long drill holder
Fixed guide bush
Tap breakage detector (Main/sub)
Tool presetter
Tool air blow
Rear ejection unit (less than Φ27mm)
Spindle tube liner for small parts
Large-sized lubricant pump 1.8ℓ
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling

FLOOR Layout



NN-32YB3

Main and B axis control - Angle partition machining

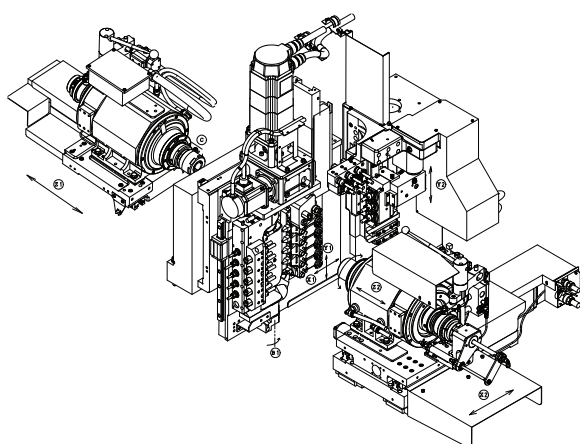
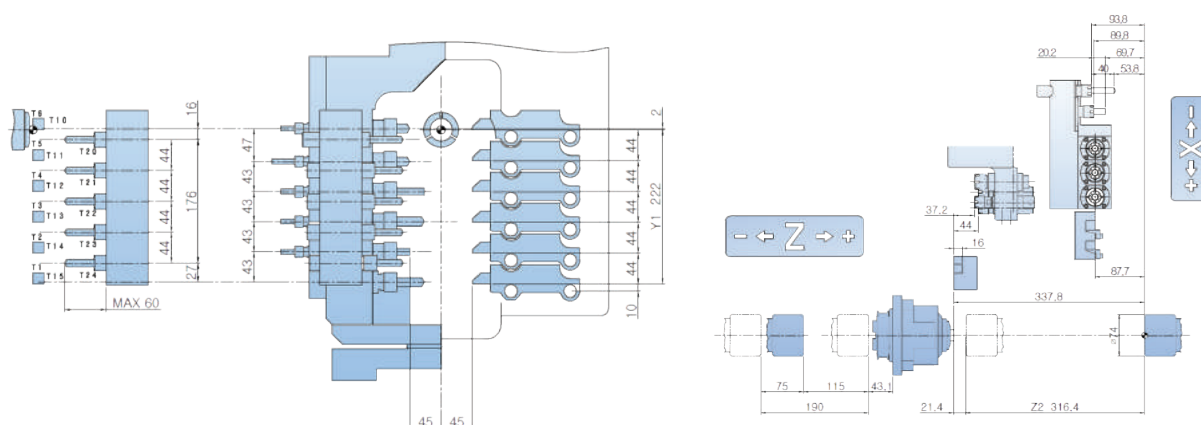
 The best model among equivalent models
in high precision and machinability of
difficult-to-cut materials

 **Specialized for complicated shape parts**
- Improved Tooling capacity

 Minimized heat deformation and vibration
- Integrated casting bed



TOOL Layout



Feed	Unit	Z1	X1	Y1	Z2	X2	Y2
Feed distance	mm	190	96	222	316.4	184	265
Rapid feed rate	m/min	28	20	28	28	25	28

Tools			Unit	NN-32YB3XB	Remarks
Max. number of tools			EA	39	
Main	O.D. tool		EA	6	□16
	I.D. tool	Front	EA	6	ER20X1,ER16X5
		Rear(OP)	EA	6	ER20X1,ER16X5
	Cross drill (Baxis)	Front	EA	5	ER20
		Rear(OP)	EA	5	ER11
	SUB	O.D. tool		EA	2
I.D. tool		EA	3	ER16	
Eccentric tool		EA	3	ER16	
Cross drill		EA	3	ER16	

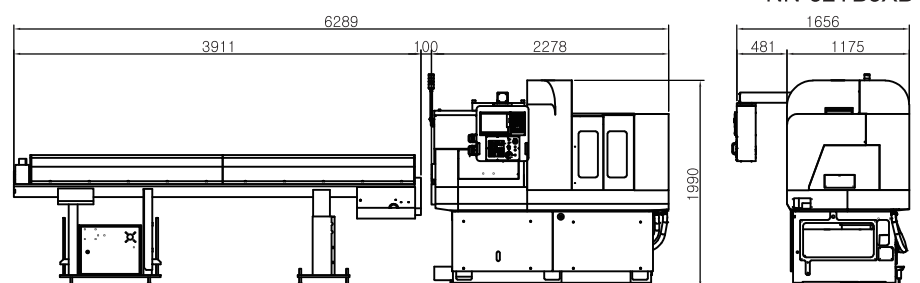
NN-32YB3XB Specifications

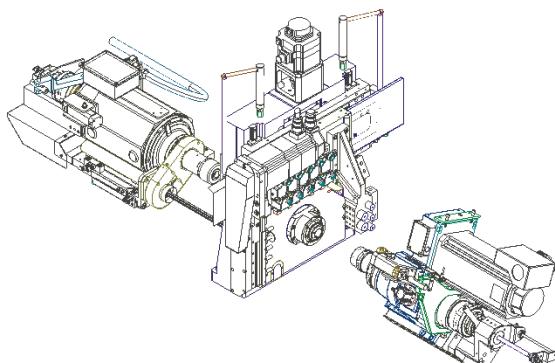
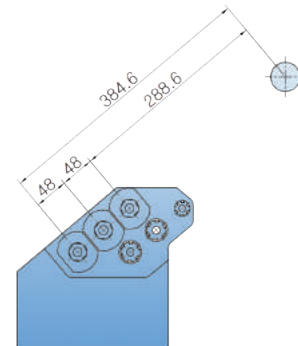
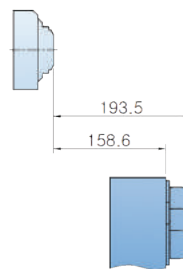
Content		Specification	Specification Value
Machining capacity		Max. machining diameter	Φ32mm
		Max. machining length	190mm /1chuck
		Max. parts unloading length	93mm
Spindle		Main spindle through-hole diameter	Φ37mm
		Spindle RPM (Main/Sub)	Max. 8,000rpm
		Sub spindle chucking diameter	Φ32mm
Tool	Type	Max. number of tools	39
		Max. machining drill	Φ13mm
		Max. machining tap	M10
	Main	O.D. tool	6 (□16X150mm max)
		I.D. tool	6 (ER16X5+ER20X1) (OP : Rear 6)
		Cross drill (B axis)	Front 5 (ER20X5) + Rear 5 (ER11X5)
		Cross drill RPM	Max. 6,000rpm
	SUB	O.D. tool	2 (□16X150mm max)
		I.D. tool	3 (ER16)
		Eccentric tool	3 (ER16)
		Cross drill	3 (ER16)
		Cross drill RPM	Max. 6,000rpm
Feed		Rapid feed rate	X1 : 20/min X2 : 25m/min Z1,Z2,Y1,Y2 : 28m/min
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	5.5/3.7kW
		Cross drill motor	1.5kW
		Sub spindle motor	3.7/1.5kW
		Sub cross drill motor	1.5kW
		X1,Y1,Z1,X2,Y2,Z2 axis feed motor	1.0kW
		Coolant pump (Main/Sub)	0.25kW x 2
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	1,000mm
		Input power capacity	25KVA
		Air pressure/Flow rate	0.6MPa. 20L/min
		Coolant tank	100L
		WxDxH	2,278 x 1,656 x 1,990 mm
		Weight (Standard accessories included)	3,050kg
NC		NC (Mitsubishi)	M80
		NC display	10.4 Color TFT LCD
		Memory capacity	500KB
		No. of tool offset	256sets
		Background edit function	
		C-axis control (Main/Sub spindle)	
		User macro function	
		Nose radius compensation	
		Corner chamfering/corner rounding	
		Fixed cycle	
		Complex fixed cycle	
		Geometric commands	
		Instruction manual	
		Serial In / Output interface	
		CF card / USB interface	

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Rotary guide bush
Drill holder
Tool holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump (Main/Sub)
Coolant flow detector(Main/Sub)
Overload detection function
Door interlock switch
Working light(LED)
Parts conveyor
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)

Optional Accessories
Long drill holder
Fixed guide bush
Tap breakage detector (Main/sub)
Tool presetter
Tool air blow
Rear ejection unit (less than Φ27mm)
Spindle tube liner for small parts
Large-sized lubricant pump 1.8ℓ
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling

FLOOR Layout





Tools		Unit	NN-38UB8			Remarks
			Standard	K	K2	
Max. number of tools		EA	24		26	
Main	O.D. tool	EA	5			□20
	I.D. tool	Front	5			ER20X2,ER16X3
		REAR(OP)	5			ER20X2,ER16X3
	Cross drill	EA	5			ER20
SUB	O.D. tool	EA	4	2	3 (ER16X1+ER20X2)	ER20
	Eccentric tool	EA	-	2	3	FR20

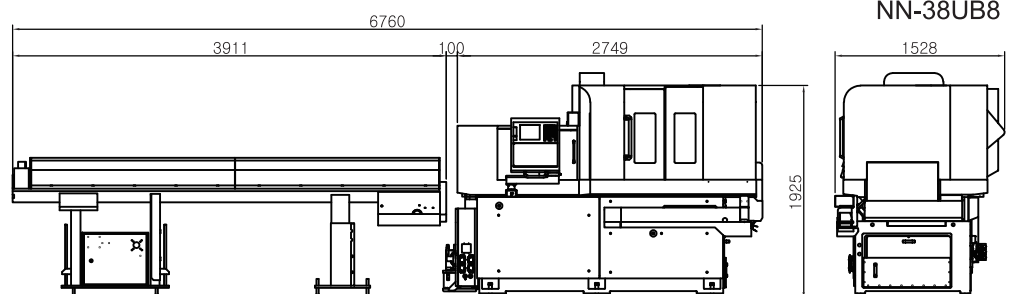
NN-38UB8 Specifications

Content		Specification	Specification Value		
Machining capacity		Max. machining diameter	Φ38mm		
		Max. machining length	260mm / 1chuck		
		Max. parts unloading length	115mm		
Spindle		Main spindle through-hole diameter	Φ43mm		
		Spindle RPM (Main/Sub)	Max. 8,000rpm		
		Sub spindle chucking diameter	Φ38mm		
Tool	Type	Type	Standard	K	K2
		Max. number of tools	24		
		Max. machining drill	Φ32mm		
		Max. machining tap	M8		
	Main	O.D. tool	5 (□20X150mm)		
		I.D. tool	5 (ER16X3+ER20X2) (OP : Rear 5)		
		Cross drill	5 (ER20)		
		Cross drill RPM	6,000rpm		
	SUB	I.D. tool	4 (ER20)	2 (ER20)	3 (ER16X1+ER20X2)
		I.D. rotary tool	—	2 (ER20)	3 (ER20)
Feed		Rapid feed rate	36m/min		
		Min. command unit	0.0001mm		
		C-axis min. command unit (Main/Sub)	0.0001°		
Motor		Main spindle motor	7.5/5.5kW		
		Cross drill motor	1.5kW		
		Sub spindle motor	5.5/3.7kW		
		Sub cross drill motor	0.9kW		
		X1,Y1,Z1,X2,Z2 axis feed motor	1.0kW		
		Coolant pump (Main/Sub)	0.9kW		
		Lubricant pump	0.003kW		
Dimensions and etc.		Main spindle center height	1,160mm		
		Input power capacity	40KVA		
		Air pressure/Flow rate	0.6MPa.35L/min		
		Coolant tank	370L(Additional tank included)		
		WxDxH	2,749x1,528x1925 mm		
		Weight (Standard accessories included)	3,600kg		
NC		NC (Mitsubishi)	M80		
		NC display	10.4 Color TFT LCD		
		Memory capacity	500KB		
		No. of tool offset	256sets		
		Background edit function			
		C-axis control (Main/Sub spindle)			
		User macro function			
		Nose radius compensation			
		Corner chamfering/corner rounding			
		Fixed cycle			
		Complex fixed cycle			
		Geometric commands			
		Instruction manual			
		Serial In / Output interface			
		CF card / USB interface			

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)37P
Coolant unit
Rotary guide bush
Drill holder
Tool holder
Main : Chuck sleeve/Spring/Spindle cap(1set)
Sub : Chuck sleeve/Spring/Spindle cap(1set)
Automatic power turn-off device
Automatic oiling device
Coolant pump (Main/Sub)
Coolant flow detector(Main/Sub)
Overload detection function
Door interlock switch
Working light(LED)
Parts conveyor
Parts catcher
Levelling pad
Three-color warning light
Display language (ENG/CHN/KOR/ETC)
Long drill holder

Optional Accessories
E3 UNIT
Fixed guide bush
Tap breakage detector (Main/sub)
Tool presetter
Tool air blow
Rear ejection unit (less than Φ36mm)
Spindle tube liner for small parts
Large-sized lubricant pump 1.8ℓ
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling
Long drill

FLOOR Layout





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