

Product Information

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NN-32YB2

Flagship "YB"Series



- C-axis control and phase-synchronization/stand-alone control of main and back spindle enabled.
- Milling, tapping, and cross drilling processing are enabled by rotary tool unit, which is applicable to various processing needs, equipped on both main and back side.

Product Information

- ▶ SB Series
 - ▶ NN-16SB7
 - ▶ NN-16SB6 Type3
- ▶ U5 Series
 - ▶ NN-20U5
- ▶ UB8 Series
 - ▶ NN-32UB8
 - ▶ NN-20UB8
- ▶ J2SB Series
 - ▶ NN-20J2
- ▶ YB2SB Series
 - ▶ 32YB2 XB
 - ▶ 32YB2

Main Tool Post



Tool Name	Size
OD Tool	□16×5
ID Tool	4(ER16×3+ER20×1)
Live Tool(Standard)	6(ER20×5+ER16×1)
Live Tool	-
E unit	3 Live tool(ER16 x 1 +ER20 x 2) 3 off-center tool (ER11)
OD Tool(option)	□20x 6(Direct mount type)

Back Tool Post



Tool Name	Size
Tool Type A(Standard)	OD Tool □16×2
	ID Tool ER16×3
	Live Tool ER16×2
Tool Type B(option)	OD Tool □16×1
	ID Tool ER16×3
	Live Tool ER16×3
Tool Type C(option)	OD Tool □12×1
	ID Tool ER16×3
	Live Tool ER16×1
	Off-center Tool ER11×3
Tool Type D	OD Tool -

	ID Tool	-
ID Tool(Optional)		ER20×3



NC control model has adopted MITSUBISHI M65S for faster processing speed and better operability. It also pursued mobility and usability of using pendant operation board.



*Main spindle 2.2kW/3.7kW built-in motor
A robust bush base is adopted to support heavy cutting.



*Back spindle 1.5kw/2.2kW built-in motor
(above photo includes E unit)



Finished parts are taken out of the machine with parts conveyor and are placed in stock on the parts receiver (oil-bath style).

Safety System (Standard Equipment)



Coolant oil cut-off detecton

Stops the machine automatically when the pressure of coolant oil decreases below specified level.



Door safety interlock switch

Causes the main power breaker to trip and the power to shut down when electric cabinet cover is opened.



Lightning surge protection function

Protects electronic circuit from high voltage to shutdown noise such as lightning.



Auto power interception

Switches off the power breaker on the machine automatically when the machine is stopped during the automatic operation for any reason.



Main spindle load detection mode

Stops the machine detecting



Cut-off tool breakage detector

Stops the machine

defects in the main spindle
when standard load and actual
main spindle load are different.

automatically detecting
materials that cannot be
completely cut-off due to the
breakage failure of the parting
tool.



**Tap breakage
detector(Option)**

Stops the machine
automatically detecting broken
tap while processing the edge
face of the tap.

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Specification Item

	Specification Value		NN-32YB
Max. Machining Capacity	Main	Max. Machining diameter	φ32mm(1.26")
		Max.Machining length	190mm (7.48") / chuck
		ID tool	4
		ID tool length	50mm (1.97")
		ID tap	M10 × 1.5
		Live tool	φ8mm (0.31")
		Live tap	M8 × 1.25
	Back	Parts unloading length	120mm (4.72")
		Parts pick-up length	93mm (3.66")
		ID tool	φ8mm (0.31")
		ID tool length	60mm (2.36")
		ID tap	M8 × 1.25
		Live tool	60mm (2.36")
		Live tap	M6
Number of Tools	Main	OD tool	□16mm (□ 0.63") × 5
		ID tool	ER16 × 3 + ER20 × 1
		Live tool	5 (ER20)
		Live tap	1 (ER16)
	Back	OD tool	□16mm (□ 0.63") × 2
		ID tool	3 (ER16)
Main Spindle		Live tool spindle RPM	200 to 6000 r.p.m.
		Main spindle through-hole diameter	φ37mm (1.46")
		Main spindle indexing C-axis	0.001°
		Main spindle indexing angle	0.001°

	Main spindle RPM	300 - 8000 r.p.m.
	Tool RPM	200 - 6000 r.p.m.
Feed Rate	\$1Z axis	15m / min.
	\$1X axis	14m / min.
	\$1Y axis	20m / min.
	\$2Z axis	15m / min.
	\$2X axis	15m / min.
	\$2Y axis	15m / min.
NC / Motors / Others	NC	MITSUBISHI 65S
	NC display	10.4" color TFT LCD
	\$1 Main spindle motor	2.2kW / 3.7kW built-in
	\$2 Main spindle motor	1.5kW / 2.2kW built-in
	\$1 Rotary tool axis motor	1.5kW
	\$2 Rotary tool axis motor	1.5kW
	Axis feed motor: Z1	1kW
	Axis feed motor: X1	1kW
	Axis feed motor: Y1	1kW: w/ brake
	Axis feed motor: Z2	1kW
	Axis feed motor: X2	1kW
	Axis feed motor: Y2	1kW: w/ brake
	Coolant pump	Main 0.4kW + Back 0.25kW
	Lubricant pump	0.003kW (Lubricant scarcity float switch)
	Hydraulic pump	0.75kW (Tank capacity 10L, VG32)
	Main spindle cooling pump	0.075kW × 2 (Tank capacity 20L VG32)
	Main spindle cooling fan	0.034kW × 2 (Radiator fan)
Dimensions / Others	Main spindle height	1000mm (39.37")
	W + D + H	2280 × 1257 × 1825mm (89.76" × 49.49" × 71.85")
	Weight	2950kg (6504lbs)
	Floor space requirements	2280 × 1175mm (90" × 46")
	Total power capacity	15KVA

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 Standard Accessories

- ID attachment
- Live tool unit
- Back tool unit A
2OD tool + 3 ID tool +2 Live tool
- Main spindle cooling unit(for main and back)
- Synchronous rotary guide bush unit/transmission unit
- Drill holder
- Tap holder
- Tool holder

- Main: Chuck sleeve/Spring/Spindle cap(1 set)*
- Back: Chuck sleeve/Spring/Spindle cap(1 set)*
- Auto power interception
- Automatic lubricator(with level detector)
- Coolant oil unit(for main and back)
- Coolant oil cut-off detector (for main and back)
- Cut-off tool breakage detector
- Door safety interlock
- Working light (LED light)
- Parts conveyor (with parts receiver and basket)
- Parts catcher
- Leveling pads

* for CE specifications

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 Optional Accessories

- Main
 - 3 Live tool(ER16×1+ER20×2)
Eccentric drill(ER11)
- Back
 - 1 OD tool (□16) + 3ID tool (ER16)+3 Live tool (ER16)
 - 1 OD tool (□12) + 3ID tool (ER16)+1 Live tool (ER16) +2 Off-center drill (ER11)
- Sleeve & nut for synchronous rotary bush
- Fixed guide bush unit
- Bush sleeve & nut for fixed guide bush
- Tap breakage detector (for main and back)
- REGO-FIX cap & wrench
- Tool presetter
- Manual pulse generator 37P
- NC display language(English/Chinese/Korean and others)
- Singal warning light(1-stage and 3-stage type)
- Chip conveyor
- Medium pressure coolant
- Automatic fire extinguisher
- Dent preventive kit
- Oil mist collector
- Specified color
- Tooling
- Working tool kit
- NC manual

Note:

- The specification based on the specifications applied within Japan. Specifications are subject to change without notice.
- This product could be classified as strategic item or other export regulated under the Foreign Exchange and Foreign Trade Law.Contact our sales representative when exporting this product.

 Company Profile	 Business Services	 Product Information
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