- New NG M70L (MITSUBISHI) built in
- Shorten idle time at rapid feed rate speed of £6m/min.
- Facilitate complicated machining by C-axis of the simple belt
- Enable selection of the best tool suitable for versatile application



Safety System (Standard Equipment)



Coolant oil cut-off detector

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



Cut-off tool breakage detector

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



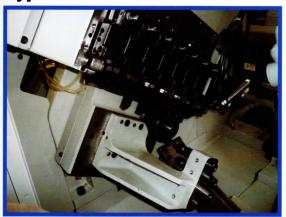
Tap breakage detector (Option)

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

Versatile advanced SB6 series, covering from simply turning to complicated machining

NN-16SB6 series of its sophisticated mechanism, being combined with the latest NC (MITSUBISHI 70 series) built in, are easier to operate than ever, and improve precision and speed on machining. The 4 types are to answer your machining needs respectively. Type 1 is an appropriate machine for turning, and Type 3 is a multiple machine for complicated machining, which enables higher precision and speed. For each type, refer to the followings.

type 1 (Turning + Front-face)



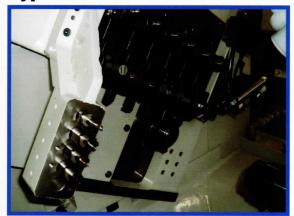
Tool Name	Size	Equipment	
OD tool (Tool Holder)	☐ 12.7 × 7 (130mm max.)	Standard	
ID tool	ER11 × 4 (Single drill holder)	Standard	
	ER16 × 3 (Single drill holder)	Option	

type 2 (Turning + Cross + Front-face)



Tool Name	Size	Equipment	
OD tool (Tool Holder)	☐ 12.7 × 5 (130mm max.)	Standard(*)	
ID tool	ER11 × 4 (Single drill holder)	Standard	
	ER16 × 3 (Single drill holder)	Option	
	ER11 × 3	Standard	
Live tool	ER16 × 3	Option	
Live tool	ER11 × 4	Option	
	ER16 × 4	Option(*)	

type 2.5 (Turning + Front-face + Back)



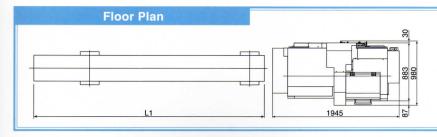
Tool Name	Size	Equipment
OD tool (Tool Holder)	☐ 12.7 × 6 (130mm max.)	Standard
ID tool	ER11 × 5 (Double drill holder)	Standard

type 3 (Turning + Cross + Front-face + Back)



Tool Name	Size	Equipment
OD tool (Tool Holder)	☐ 12.7 × 5 (130mm max.)	Standard(*)
ID tool	ER11 × 4 (Double drill holder)	Standard
	ER16 × 3 (Double drill holder)	Option
	ER11 × 3	Standard
Live tool	ER16 × 3	Option
Live tool	ER11 × 4	Option ^(*)
	ER16 × 4	Option ^(*)

(*) In case that you choose 4 Live tool, the maximum number of OD tool (Tool Holder) is 4.



Bar	Diameter	L1 (mm)		
feeder	Diameter	2.5M	3.0M	4.0M
Z-16	16 <i>ф</i>	3,164	3,664	4,664
ASR X-16Z	16 <i>ф</i>	3,172	3,672	4,672
S163	16 <i>φ</i>	3,108	3,608	4,608
OS163E	16 <i>φ</i>	3,420	3,870	4,725

	Paris Mark Mark Market	16SB6			
	Specification Item	type1	type2	type2.5	type3
ing	Machining diameter	φ16mm	71		7
Max. Machining Capacity	Machining length	Fixed Bush (160mm) Rot	ary Bush (110	mm)
lax.N	Max.Parts unloading length	160mm 80mm			
	Main spindle through-hole				
dle	diameter	φ17mm			
Main Spindle	Main spindle RPM (\$1)	300~10000	r.p.m (~8000	r.p.m Rotary	Bush)
S	Main spindle RPM (\$2)	-		200~7000r	
Aaii	Max. Back spindle chuck	440			
2	diameter	φ16mm			
	Max. no. of tools (as standard)	11	12	16	16
	OD tool (☐12.7×130mm max)	7	5	6	5
	Frontal hole ER11 (*1)	4		5	4
	Live tool ER11 (as standard)		3	-	3
	Max. frontal drill diameter	φ7mm			
	Max. frontal drill length	30mm			
\$1	Max. frontal tap diameter	M6			
	Max. live tool spindle drill		d7mm		d7mm
	diameter		φ7mm	Tong Tree	φ7mm
	Max. live tool spindle tap		M5		M5
	diameter				IVIS
	Live main tool spindle	-	200~8000r.p.m	-	200~8000r.p.m
	Frontal hole ER11	-		5	4
\$2	Max. frontal drill diameter	φ6mm			
	Max. frontal tap diameter	M5			
	Rapid feed speed rate	36m/min			
	Min. command unit	0.0001mm			
	Main spindle C-axis min.	0.001°			
	command unit (\$1,\$2)				
	Main spindle motor	2.2kW (Both			T
	Live tool motor	-	0.4kW	-	0.4kW
to	Back main spindle motor	-		0.75KW (Bot	h use for C2)
Motor	Axis feed motor X1, Y1, Z1, Z2	0.5kW			
	Coolant pump	0.25kW			
	Lubricant pump	0.003kW		0.751144	
	Hydraulic pump	-		0.75kW	
hers	Main spindle center height	1000mm	0.41144	I	
5	Input power capacity	4.43kVA	6.4kVA	6.8kVA	7.1kVA
and	Pneumatic pressure & flow rate	0.6MPa/40L			
Suc	Coolant tank	70L			
nsi	Lubricant tank	0.8L	055		
Dimensions and Others	W×D×H	1945×980×1	655		
	Weight (incl. options)	1.7t			
	MITSUBISHI NC	M70A			
		C display (8.4 color TFT LCD)			
	Machining program memory capacity 230KB (600 m)				
	Number of Tool off-set correction				
ion	Background programming editing Main spindle C-axis function (\$1)		4h: h -	IAV	
nct		1,52 C-axis of	\$2 C-axis of the simple belt)		
교	User macro function				
NC Standard Function	Tool nose wear compensation				
ng	Corner chamfering/Corner round	uiilg			
Sta	Fixed cycle				
9	Complex fixed cycle				
_	Geometric commands				
	Operation manual				
	Serial In/Output interface	(4)			
	CF card interface	tual			
	10 nanometers Interpolation control				

Standard Accessories				
Frontal drill attachment (ID tool unit)	φ17(ER11)			
Tool holder (OD tool)	□ 12.7			
Chuck sleeve	P16			
Chuck spring	P16			
Spindle cap	P16			
Working light (High luminous LED)				
Automatic lubricator				
Parts catcher				
Parts box				
Cut-off tool breakage detector				
Automatic power interception				
Coolant cut-off detector				
Main spindle overload detector	National Control			
Door safety interlock				
Leveling pads				

Optional Accessories				
3 Live tool unit	ER16			
4 Live tool unit	ER16			
4 Live tool unit	ER11			
Synchronous rotary guide bush				
Synchronous rotary guide bush drive unit				
Tool for synchronous rotary guide bush				
Fixed guide bush				
Tool presetter 10				
Spindle tube liner for small parts	Rotary type			
Drill holder	φ22Doudle (With NA nut)			
Tap holder	φ22Doudle (With NA nut)			
Tap breakage detector	φ17/φ22			
Back tool unit	φ17/φ22			
Parts support device	type1/type2			
Parts conveyor	type3			
Signal warning light	3-Stage			
MITSUBISHI NC manual	CD-ROM/Book			
Working tool set				

(*1)type1/2: Single drill holder type2.5/3: Double drill holder

Spec.	\$1		\$2
type	Turning	Cross drill	Back main spindle
type1	0	×	×
type2	0	0	×
type2.5	0	×	0
type3	0	0	0
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The above-mentioned machine capability is for the case when work material is SUS303.

Depending on the processing condition such as the quality of work material and the tools to be used, machine capabilities values may differ from the above-mentioned

Note: The specification is based on the specifications applied within Japan. Specifications are subject to change without notice.

Note: 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.

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