

NN-20SB

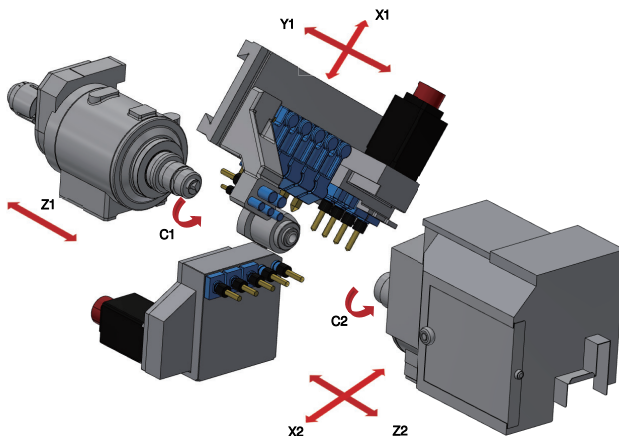
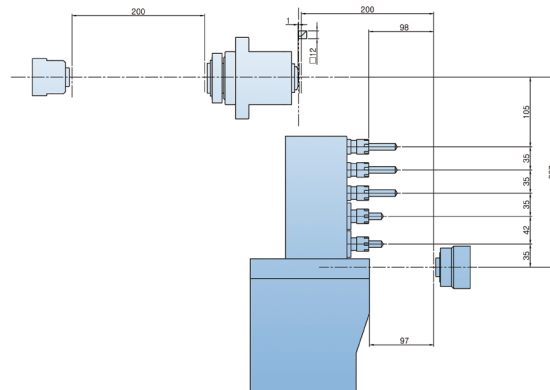
- NOMURA DS**



Technical drawing of a multi-pin connector assembly, showing dimensions in millimeters (mm). The drawing includes a side view of the connector housing and a top view of the pin array. Dimensions are provided for the overall length, pin pitch, and individual pin dimensions.

Dimensions (mm):

- Overall length: 24.5
- Pin pitch: 14, 14, 14, 14, 23.5
- Pin diameter: 40
- Pin length: 40, 40, 40, 39.5, 34, 35, 30



Feed	Unit	Z1	X1	Y1	Z2	X2
Feed Distance	mm (in)	200 (7.87)	65 (2.56)	387 (15.24)	200 (7.87)	291 (11.46)
Rapid Feed Rate	m/min	30	30	30	30	30

Tools			Unit	NN-20SB	Remarks
Max number of tools			EA	24	
Main	O.D. tool		EA	5	□ 12.7
	I.D. tool	Front	EA	5	ER16x2 + ER11x3
		Rear (OP)		5	ER16x2 + ER11x3
	Cross drill			EA	4
Sub	I.D. tool		EA	3	ER16
	Eccentric tool		EA	2	ER16

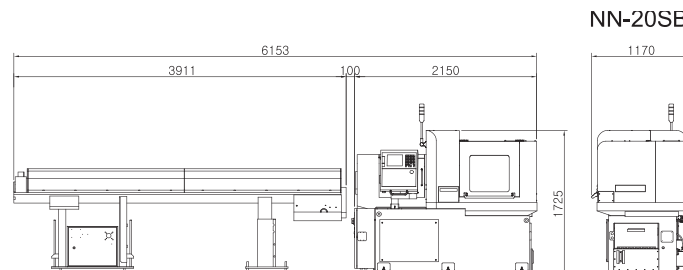
NN-20SB Specifications

Content		Specification	Specification Value	
			NN-20SB	
Machining capacity		Max. machining diameter	Φ20mm	
		Max. machining length	200mm / 1 chuck	
		Max. parts unloading length	120mm	
Spindle		Main spindle through-hole diameter	Φ23mm	
		Spindle RPM (Main/Sub)	10,000rpm	
		Sub spindle chucking diameter	Φ20mm	
Tool	Type	Max. number of tools	24	
		Max. machining drill	Φ10mm	
		Max. machining tap	M10	
	Main	O.D. tool	5 (□12.7X150mm max)	
		I.D. tool	5 (ER11x3 +ER16x2) (OP : Rear 5)	
		Cross drill	4 (ER16)	
		Cross drill RPM	6,000rpm	
	SUB	I.D. fixed tool	3 (ER16)	
		I.D. rotary tool	2 (ER16)	
		Sub drill RPM	6,000rpm	
Feed		Rapid feed rate	30m/min X1: 20m/min, Y1 : 24m/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	0.9kW (Mitsubishi)	1.0kW (Fanuc)
		Sub spindle motor	3.7/1.5kW	
		Sub rotary motor	0.9kW (Mitsubishi)	1.0kW (Fanuc)
		Coolant pump (Main/Sub)	0.25kW	
		Lubricant pump	0.003kW	
Dimensions and etc.		Main spindle center height	1,050mm	
		Input power capacity	13KVA	
		Air pressure/Flow rate	0.6MPa. 35L/min	
		Coolant tank	120L	
		WxDxH	2,150x1,170x1,725 mm	
		Weight (Standard accessories included)	1,950kg	
NC		NC UNIT	M80 Type A (Mitsubishi)	0i TF Plus (Fanuc)
		NC display	8.4 Color TFT LCD (Mitsubishi)	10.4 Color TFT LCD (Fanuc)
		Memory capacity	500KB (Mitsubishi)	2MB (Fanuc)
		No. of tool offset	256sets (Mitsubishi)	128sets (Fanuc)

Standard Accessories
I.D. tool device
Cross drill unit
Manual pulse generator(MPG)
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
Working light (LED)
Door interlock switch
Parts catcher
Levelling pad
Three-color warning light
Display Language (ENG/CHN/KOR/ETC)

Optional Accessories
Long drill holder
E3 unit
Fixed guide bush
Tap breakge detector (Main/Sub)
Tool presetter
Tool air blow
Rear ejection unit (less than Φ17mm)
Spindle tube liner for small parts
Chip conveyor & Chip box
Medium pressure coolant
Oil mist collector
Custom colors
Tooling
Parts conveyor
Cut-off detector

Floor Layout



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