
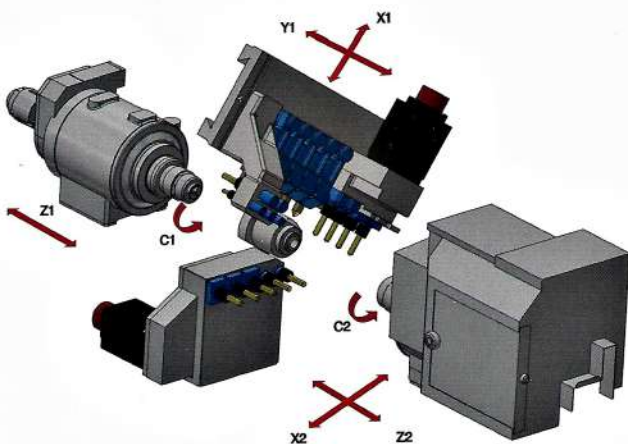
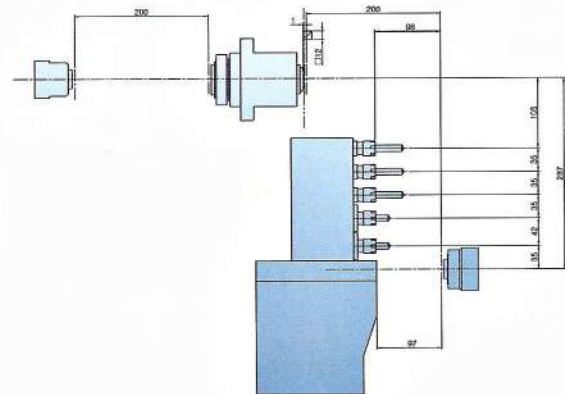
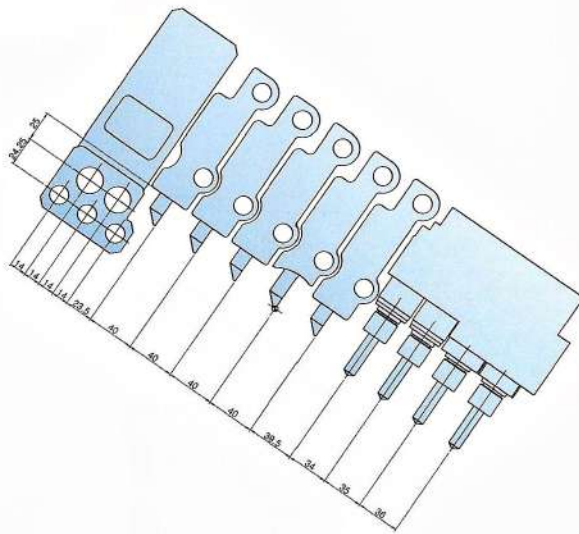


NN-20SB

-  **SLANT type tool post**
- Easier chip disposal, secured safety for operators
-  **Efficient tool layout**
- C/T shortened with expanded sub tool layout
-  **Built-in structure for main/sub / Dovetail structure**
- Advantage for processing medical parts with high rigidity and precision



TOOL Layout



Feed	Unit	Z1	X1	Y1	Z2	X2
Feed distance	mm	200	65	387	200	291
Rapid feed rate	m/min	30	20	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)	EA	5	ER16x2+ER11x3
Cross drill		EA	4	ER16	
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		
	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	18KVA		
	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 breakage 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

