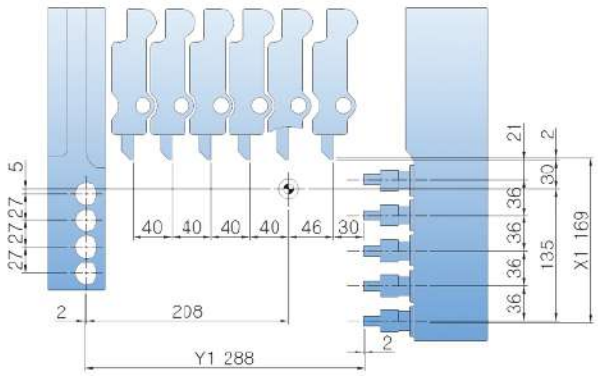
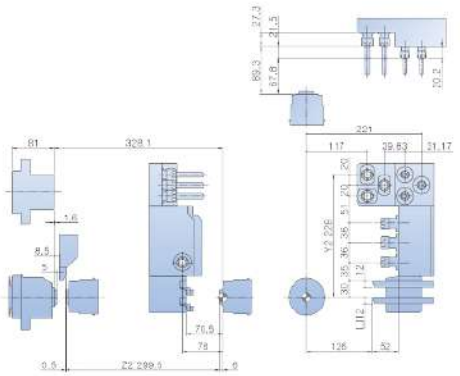
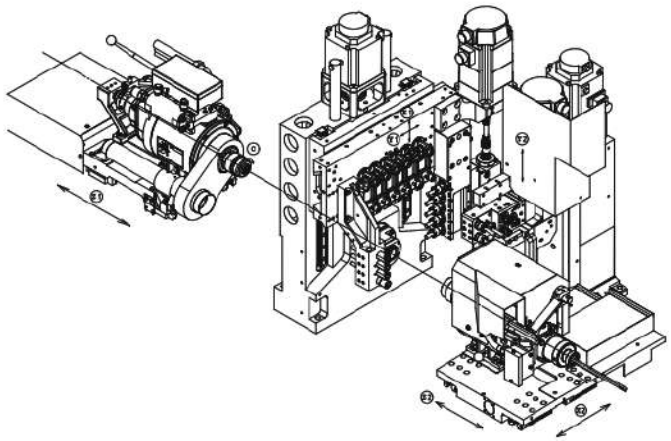
NN-10/20J3

- **NC controller selectable**
  - MITSUBISHI, FANUC
- **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

NOMURA SWISS

Content		Specification	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	Type	Max. number of tools	30	
		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(Faruc)
		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)	M70V Type A(Mitsubishi)	M80V Type A(Mitsubishi)/ 0i TF(Fanuc)
		NC display	10.4 Color TFT LCD	
		Memory capacity	500KB(Mitsubishi)	500kB(Mitsubishi) / 1MB(Faruc)
		No. of tool offset	80sets(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 0i-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

NN-20J3