Machine Specification

Part	Description	SA20PⅡ	SA20PYⅡ	SA26PⅡ	SA26PYⅡ	SA32PⅡ	SA32PYⅡ	SA38PⅡ	SA38PYⅡ
Machining Capacity	Max. Turning Bar Dia.	ø20mm		ø26mm		ø32mm		ø38mm	
	Max. Turning Bar Length	250mm	190mm(N:60mm)	250mm	190mm(N:60mm)	250mm	190mm(N:80mm)	250mm	190mm(N:80mm)
	Max. Main Spindle Drilling / Tapping	ø10mm / M8		ø12mm / M10		ø12mm / M10		ø12mm / M10	
	Max. Sub Spindle Chucking Dia.	ø20mm		ø26mm		ø32mm		ø38mm	
	Max. Back-end Face Drilling / Tapping	ø8mm / M6		ø12mm / M10	ø10mm / M8	ø12mm / M10	ø10mm / M8	ø12mm / M10	ø10mm / M8
	Max. Cross Drilling / Tapping	ø10mm / M8		ø12mm / M10		ø12mm / M10		ø12mm / M10	
	Max. Cross Disc-Mill Dia.	ø32mm		ø40mm		ø40mm		ø40mm	
Capability	Max. Main Spindle Speed	10,000rpm		8,000rpm		8,000rpm		8,000rpm	
	Max. Sub Spindle Speed	8,000rpm		8,000rpm		8,000rpm		8,000rpm	
	Max. Cross Spindle Speed	6,000rpm		6,000rpm		6,000rpm		6,000rpm	
	Total No. of Tools	23	27	20	25	20	25	19	24
	OD / Cross Live Tool / Y-Axis ID	6 / 4 / 5	6 / 5 / 5	5 / 4 / 5	5 / 5 / 5	5 / 4 / 5	5 / 5 / 5	5 / 4 / 5	5 / 5 / 5
	Front-end Face Tools (Sub)	3 (Live 2, Fixed 1)		2 (Fixed 2)		2 (Fixed 2)		1 (Fixed 1)	
	Back-end Face Tools	5 (Live 2, Fixed 3)	8 (Live 4, Fixed 4)	4 (Live 2, Fixed 2)	8 (Live 4, Fixed 4)	4 (Live 2, Fixed 2)	8 (Live 4, Fixed 4)	4 (Live 2, Fixed 2)	8 (Live 4, Fixed 4)
	Bite Shank	□12×120mm		□16×120mm		□16×120mm		□16×120mm	
	Rapid Traverse	32M / min.		32M / min.		32M / min.		32M / min.	
	Controllable Axes	7	8	7	8	7	8	7	8
	Main Spindle Positioning	Cs + 1/1,000°		Cs + 1/1,000°		Cs + 1/1,000°		Cs + 1/1,000°	
	Sub Spindle Positioning	Cs + 1/1,000°		Cs + 1/1,000°		Cs + 1/1,000°		Cs + 1/1,000°	
Motor	Main Spindle	2.2 / 3.7kW		5.5 / 7.5kW		5.5 / 7.5kW		5.5 / 7.5kW	
	Sub Spindle	1.5 / 2.2kW		2.2 / 3.7kW		2.2 / 3.7kW		2.2 / 3.7kW	
	Cross Drill / Mill Unit	2.2kW		2.2kW		2.2kW		2.2kW	
	Back-end Face Tools	1.0kW	1.0kW	2.2kW	1.0kW	2.2kW	1.0kW	2.2kW	1.0kW
	Coolant Pump Unit	0.9kW		0.9kW		0.9kW		0.9kW	
	Lubrication Pump Unit	0.04kW		0.04kW		0.04kW		0.04kW	
Dimension	Coolant Capacity	280ℓ		280ℓ		280ℓ		280ℓ	
	Center Height	1,000mm		1,000mm		1,000mm		1,000mm	
	Length×Width×Height	2,135×1,235×1,660mm		2,135×1,235×1,660mm		2,135×1,235×1,660mm		2,135×1,235×1,660mm	
	Net Weight	3,700kg		3,800kg		3,800kg		3,800kg	

* Above specification may be changed without prior notice.

NC Specification

Description	PⅡ Type	PYⅡ Type
NC Controller	FANUC 0iTF	
No. of Controllable Axis	7	8
Axis Designation	X1, Z1, Y1, X2, Z2, C1, C2	X1, Z1,Y1, X2, Z2, Y2, C1, C2
Min. Input Increment	0.001mm	
Min. Command Increment	0.001mm (X axis : 0.0005mm)	
Max. Programmable Value	±8 digits	
Interpolation Function	Linear / Circular	
Feedrate	1~6,000mm / min.	
Feedrate Override	0~150%, 10% step	
Dwell	G04 0.001~9999.999	
ABS / INC Command	X, Z, Y, C : Absolute	
	U, V, W, H : Incremental	
Tool Offset	±6 digits	
No. of Tool Offset	64 sets	
CRT / MDI	10.4″ Color LCD	
Display Language	English, Others	
Tape Memory	1 Mbyte	
No. of Registerable Program	800 sets	
Miscellaneous Function	M5 / M3 digits	
Main Spindle Fuction	S4 digits	
Tool Function	T4 digits	

* Above specification may be changed without prior notice.

Machine Standard

- Synchronous Rotary Guide Bush Holder Unit
- Part conveyor
- M-code Air Blow
- Part Ejection Detector
- 4 Spindle Cross Drill Unit (PⅡ Type)
- 5 Spindle Cross Drill Unit (PYⅡ Type)
- Main / Sub Spindle Positioning : 1/1,000°
- Cs Control on Main & Sub Spindle
- Back Tool Unit (Fixed 4 / PⅡ Type)
- Back Tool Unit (Live 2. Fixed 2 /PYⅡ Type)
- Coolant Flow Detector
- Patrol Light
- Barfeeder Interface
- Service Tool Kit
- Instruction Manual
- FANUC Manual (Operator / Maintenance / Parameter)

Machine Option

- Barfeeder
- Long Part Discharging Unit
- Chip Conveyor
- Back Tool Unit (Live 2, Fixed 2 / PⅡ Type)
- Back Tool Unit (Live 4, Fixed 4 / PYⅡ Type)
- M-code Oil Blow
- Front-end Face Revolving Unit (2)
- Cut-Off Breakage Detector
- Polygon Attachment
- Y-Axis Tool Unit
- Thread Whirling Device
- Back-end Face Cross Unit (Live 2)

NC Standard

- Circle, Semi-circle Designation
- Work Coordinate Shift (G50)
- Machine Lock
- Single Block
- Software Operation Panel
- Tool Offset Display
- Input / Output Interface
- Working Hour / No. of Part Display
- Tool Radius Compensation
- Chamfer / Corner R
- Automatic Power-Off
- Inch / Metric Conversion
- Back-ground Editing
- Constant Surface Speed Control
- Synchronous / Composite Function
- Z1-Z2 Synchronous Function
- MPG(handle wheel) : 0.001mm
- Synchronous Control (Main & Sub)
- Rigid Tapping on All Spindles

NC Option

- MPG Program Check
- IC Card
- Additional G-Code
- Remote Control System (Ethernet)
- Fanuc Warranty Service (2 years)
- Helical Interpolation
- 3 Dimensional Coordinate Conversion

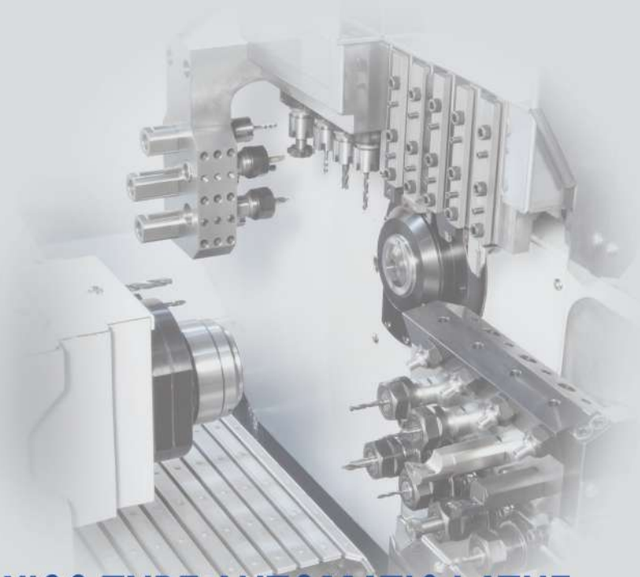
NEXTURN
SWISS TURN LEADER

- 35, Giheungdanji-ro, 121beon-gil, Giheung-gu, Yongin-si, Gyunggi-do, Korea
  TEL:82-31-288-2092
  FAX:82-31-288-2190
- E-mail : overseas@nexturn.co.kr
- Homepage : http://www.nexturn.co.kr

ISO 9001 / 14001 Registered Firm

Printing date : 1/ 4/ 2018

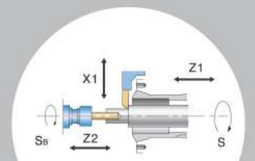
CNC SWISS-TURN



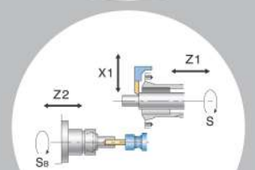
CNC SWISS TYPE AUTOMATIC LATHE

SA 20/26/32/38 (PⅡ /PYⅡ)

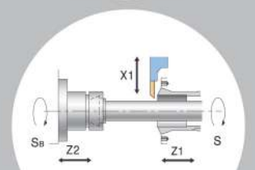
NEXTURN
SWISS TURN LEADER



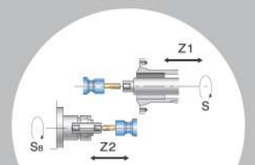
Composite Control



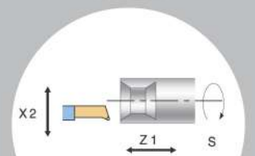
Front-End & Back-End, Simultaneous Machining



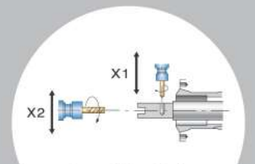
Synchronous Control



Rigid Tapping on All Spindles

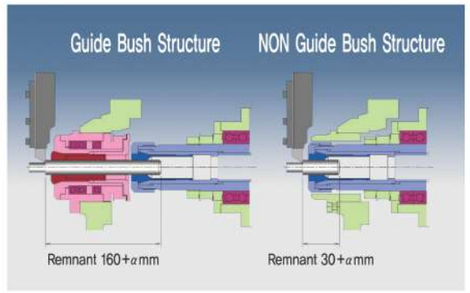


Composite Control



Cross & Front-End, Simultaneous Machining

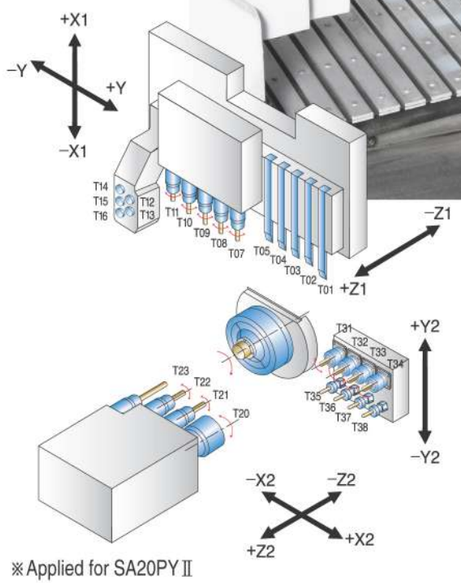
Powerful Cutting, Precise Machining with Removable Guide Bushing System



Exchangable Guide Bush, Non Guide Bush System (PY Ⅱ TYPE)

- Maximise Machining depends on Work Length, due to Exchangable Guide Bush and Non Guide Bush System
- Guide Buh Type allows precision machining, Suitable for Long Part Production
- Non Guide Bush Type allows to use cheaper Drawing Bar, Minimise Bar Remnant for More Economical Production

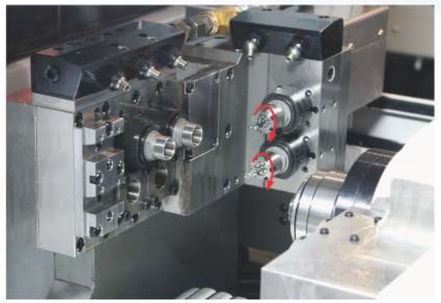
Powerful Composite Tooling System at High Speed

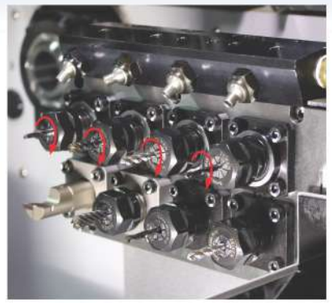


※Applied for SA20PY Ⅱ

High Rigidity

- Body Structure Design by FEM Analysis Program
- Tool Stand with Low Center of Gravity Design
- One Piece Casting Bed Type with LM Guide links to Bed
- Outstanding Machining Capability with Powerful Motor and LM Guide
- Synchronous Rotary Guide Bushing Holder
- Power Chucking Toggle System
- ER16 Collet for Revolving Tool
- Rapid Traverse Speed : 32M/min.





Easy Operation System

- Easy Positioning Operation Panel with the Convenience and MPG Mounted
- Fully Opening Type Covers & Doors (RH / LH)
- Minimized Operational Key with Software Configuration
- Easy for Trouble Check and Remedy by Modulated Pneumatic System
- Slant Bed Structure with Easy Chip Disposal / Coolant Discharge

High Accuracy

- Ultra Precision Ball Screw / LM Guide
- 1/1,000˚ Positioning , Cs for Main & Sub Spindles
- Pneumatic Brake with High Accuracy / High Rigidity for Main & Sub Spindles
- Keep Optimal Repeated Precision Level by Ball Screw Dual Pressure

Convenience

- Coolant Ejection from Each Tool Block
- Easy Chip Disposal with Downward Tool Direction
- Safe & Versatile Shock Protection Software
- Easy & Simple Operational Panel
- Versatile Tool Management Program

Reliability

- Outstanding Electric System using all Fanuc Products
- Cut-Off Tool Breakage Detector by Mechanical Sensors
- Complete Oil Block for Main Spindle Area by Dual Slide Cover
- Cable, Sensor, Main Spindle, Ball Screw Protected against Erosion or Hardening
- Regular CNC Educational Program Course Available

Sub Spindle Built-in Motor (except SA20P Ⅱ /PY Ⅱ)

- Min. Thermal Deformation by Inverter Oil Cooling System for High Precision and Accurate Machining
- Motor Output: 2.2 / 3.7kW

Powerful Cross Tool Station

- Upgrade 2.2kW Motor for max. Performance
- No. of Tools : 4 (Modular 2, Live 2) - P Ⅱ type
  5 (Modular 3, Live 2) - PY Ⅱ type
- Max. Spindle Speed: 6,000rpm

Rotary Guide Bushing Unit

- Rotary Synchronous Type
- Dual Bearing Structure with High Accuracy
- Strong and Accurate Bearing Support on Both Ends
- Spline Shaft Driven

Powerful Back-End Tool Station

- Balanced Process by Powerful Back-End Machining Reducing Cycle Time
- Rigid Off-center Drilling and Tapping with High Speed and High Accuracy
- No. of Tools : 4 (Live 2, Fixed 2) - P Ⅱ type
  8 (Live 4, Fixed 4) - PY Ⅱ type
- Max. Spindle Speed : 5,000 rpm
- Motor Output : 2.2kW - P Ⅱ type
  1.0kW - PY Ⅱ type
- Back-end Face Cross Unit (Option)

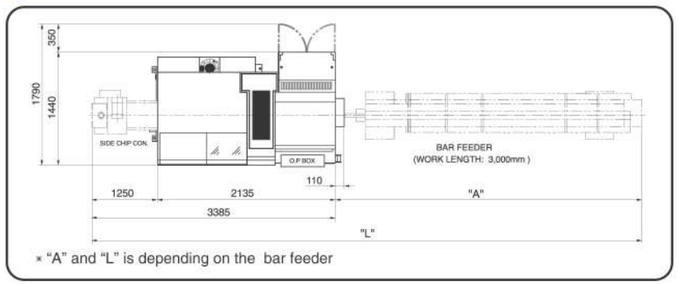
Rigid Tapping Function

- Tap Holder not Requried
- Save time with High Tapping Speed

Modular Type Driling Unit (Optional)

- Simple Change for Driven Tools / Fixed Tools (Back Tools)
- Special Tool Holder Adoptable (Cross)
- Angled drilling, Whirling, Hobbing, Slotting Unit

LAY-OUT



× "A" and "L" is depending on the bar feeder