

**NEW
MODEL**

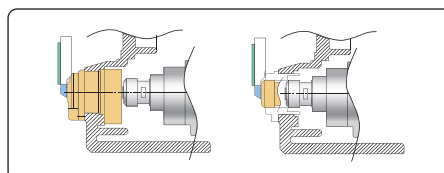
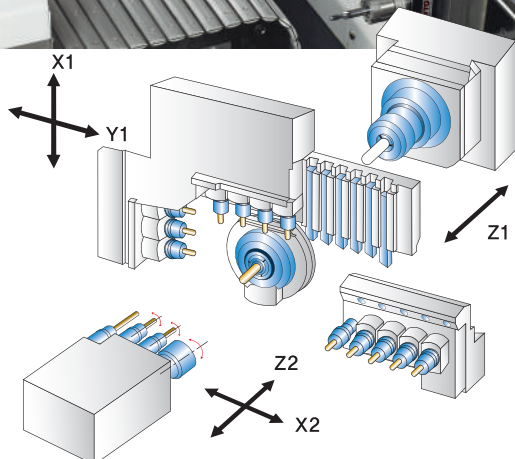


CNC SWISS TYPE AUTOMATIC LATHE

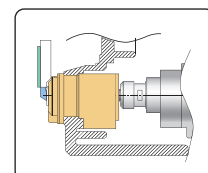
CNC SWISS TYPE AUTOMATIC LATHE TYPE M **SA20M**

SA-20M will provide maximized machining conditions with new upgraded functions.

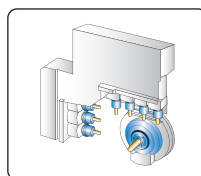
TOOLING SYSTEM (Applied for SA20M)



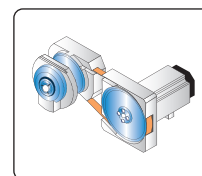
• GUIDE BUSH / NON-GUIDE BUSH TYPE



• MAGIC-GUIDE BUSH TYPE(OPTION)



• Radial Cross Applied



• Motor Driven GUIDE BUSH

- GUIDE BUSH, NON-GUIDE BUSH Compatible. (NON-GUIDE TYPE MAIN SPINDLE is standard for minimum remnant)
- Modular Cross and Radial Modular Cross applied to ensure more Machining Flexibility
- Easier Bar Selection with Magic-Guide Application (Magic Guide Installable) - OPTION
- Motor Driven GUIDE BUSH Type allows less Noise and Vibration to ensure Accuracy Improvement.

NEXTURN
SWISS TURN LEADER

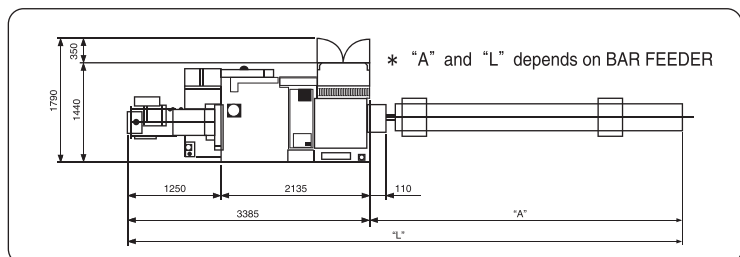
Machine Specification

	Description	SA-20M(GUIDE TYPE)	SA-20M(NON-GUIDE TYPE)
Machining Capacity	Max. Turning Bar Dia.	Ø20mm	Ø20mm
	Max. Turning Bar Length	200mm(MAGIC GUIDE : 150mm)	N : 50mm
	Max. Main Spindle Drilling / Tapping	Ø10mm/M8	Ø10mm/M8
	Max. Sub Spindle Chucking Dia.	Ø20mm	Ø20mm
	Max. Back-end Face Drilling / Tapping	Ø8mm/M6	Ø8mm/M6
	Max. Cross Drilling / Tapping	Ø10mm/M8	Ø10mm/M8
Machine Capability	Max. Cross Disc-Mill Dia.	Ø32mm	Ø32mm
	Max. Main Spindle Speed	10,000rpm	10,000rpm
	Max. Sub Spindle Speed	10,000rpm	10,000rpm
	Max. Cross Spindle Speed	8,000rpm	8,000rpm
	Total No. of Tools	21	21
	OD / Cross / Y-Axes ID	6/7/-	6/7/-
	Front-end Face Tools (Sub)	3(Live 2, Fixed 1)	3(Live 2, Fixed 1)
	Back-end Face Tools	5(4 Modular, 1 Fixed)	5(4 Modular, 1 Fixed)
	Bite Shank	□12x120mm	□12x120mm
	Rapid Traverse	32M/min	32M/min
	Controllable Axes	7	7
	Main Spindle Positioning	Cs + 1/1,000°	Cs + 1/1,000°
Motor	Sub Spindle	1.5/2.2kW	1.5/2.2kW
	Cross Drill / Mill Unit	2.2kW	2.2kW
	Back Tools Unit	1.0kW	1.0kW
	Coolant Pump	0.9kW	0.9kW
	Lubrication Pump	0.04kW	0.04kW
	Coolant Oil Capacity	300ℓ	300ℓ
Dimension	Center Height	1000mm	1000mm
	Length × Width × Height	2,135 × 1,235 × 1,660mm	2,135 × 1,235 × 1,660mm
	Net Weight	3,700kg	3,700kg

NC Specification

Description	SA-20M
NC Controller	FANUC 0i-TF
No. of Controllable Axis	7
Axis Designation	X1, Z1, Y1, X2, Z2, C1, C2
Min. Input Increment	0.0001mm
Min. Command Increment	0.0001mm (X axis 0.00005mm)
Max. Programmable Value	± 8 digits
Interpolation Function	Linear / Circular
Feedrate	1~6,000mm/min
Feedrate Override	0~150%, 10% step
Dwell	G04 0.0001~9999.9999
ABS / INC Command	X,Z,Y,C:Absolute U,V,W,H:Incremental
Tool Offset	± 6 digits
No. of Tool Offset	64sets
CRT / MDI	10.4 " COLOR
Display Language	English, Others
Tape Memory	1 Mbyte
No. of Registerable Program	800sets
Miscellaneous Function	M5/M3 digits
Main Spindle Function	S4 digits
Tool Function	T4 digits

Installation LAY-OUT



Machine Accessories

Machine Standard
Rotary Guide Bush Holder Unit
Part conveyor
M-code Air Blow
Part Ejection Detector
Front Off-center Drill Unit (Live 2)
Cross 4 / Radial Cross 3 Spindle Drill Unit
Main / Sub Spindle Positioning : 1/1,000°
Cs Control on Main & Sub Spindle
Back Tool Unit (Live 2, Fixed 2)
Coolant Flow Detector
Patrol Light
Barfeeder Interface
Service Tool Kit
Instruction Manual
FANUC Operator / Maintenance Manual

Machine Option

Barfeeder
Long Part Discharging Unit
Chip Conveyor
Back Tool Expansion
M-code Oil Blow
Cut-Off Tool Breakage Detector
Polygon Turning Attachment
Thread Whirling Unit

NC Accessories

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 : 0.001mm
I/O Interface (RS-232C)
Spindle Phase Synchronous (Main & Sub)
Rigid Tapping on All Spindles

Machine Option

MPG Program Check
IC Card
Additional G-Code
Fanuc Warranty (2 years)
Helical Interpolation
3 Dimension Coordinate Shift (G68.1)

* Above specification may be changed without prior notice.

NEXTURN
SWISS TURN LEADER

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