



X SERIES

Vertical Milling Machines

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SYIL Technical Specifications

Specification	X5	X7	X9	X11
Travel Distances				
X-axis (mm)	300	400	760	1000
Y-axis (mm)	260	300	500	500
Z-axis (mm)	300	380	500	500
Distance from spindle nose to table top	150–450	150–530	100–600	110–610
Distance between spindle and column surface	330	358	530	650
Table				
Table size (mm)	560×260	700×300	860×500	1050×550
Table load (kg)	150	150	500	600
Table surface (T-slots)	3×14×80	3×14×100	18×5×100	18×5×90
Spindle				
Spindle taper	BT30	BT30	BT40	BT40
Power-drive	Direct	Belt	Belt	Belt
Max. spindle speed (rpm)	20,000	12,000	10,000	10,000

Specification	X5	X7	X9	X11
Feed				
Rapid traverse (mm/min)	30,000	30,000	30,000	30,000
Cutting feed (mm/min)	10,000	10,000	10,000	10,000
(ATC)				
Type	Wheel	Arm	Arm	Arm
Tool holder	BT30	BT30	BT40	BT40
Tool storage capacity	16	16	24	24
Max. tool diameter (mm)	63	63	125	120
Max. tool length (mm)	200	200	240	300
Max. tool weight (kg)	3	3	7	7
Tool to tool (s)	1	1.5	2	2.5
Other Data				
Machine weight (kg)	2180	2200	5000	7000
Machine dimensions (L×W×H mm)	2020×1000×2360	1800×1600×2250	1850×2245×2800	2600×2150×2500
Min/max air pressure (MPa (psi))	0.4/0.8 (60/120)	0.4/0.8 (60/120)	0.4/0.8 (60/120)	0.4/0.8 (60/120)
Coolant tank capacity (L)	80	80	130	240

SYIL X5 | Space- and Money-Saving

The SYIL X5 is a 3-axis machining center for maximum precision and powerful performance at an affordable price. You can easily add a 4th axis to your X5.

Specification	Details
Axis Travels	300 × 260 × 300 mm
Spindle	20,000 rpm, BT30
(ATC)	16-pocket, servo type
Machine Bed	SCHNEEBERGER mineral cast
Motion Components	THK ball screws and linear motion guides



Recommended Controller

Siemens SINUMERIK 828D
10.4"

Alternatives:
SYNTEC 22MA



Option	Description
NC Rotary Table Servo Type	4th Axis, 125 mm
Tail Stock	For 125 mm NC Rotary Table
Probe System	Wireless Type
Tool Setter Kits	Cable Type, Model TTC200
Tooling Package	—



SYIL X7 | Small Size – Big Benefits

The SYIL X7 offers a small footprint with unprecedented speed.

Specification	Details
Axis Travels	400 × 300 × 380 mm
Spindle	12,000 rpm, BT30
(ATC)	16 positions, BT30, power drawbar arm type
Machine Bed	SCHNEEBERGER mineral cast
Motion Components	THK ball screws and linear motion guides



Recommended Controller

Siemens SINUMERIK 828D
15.6" touch panel

Alternatives:
SYNTEC 22MA



Option	Description / Notes
NC Rotary Table Servo Type	4th Axis, 255 mm
Tail Stock	For 255 mm NC Rotary Table
Probe System	Wireless Type
Tool Setter Kits	Cable Type, Model TTC200
Filtermist	—
Central Coolant System	CTS, 20 Bar pressure
Chip Conveyor	—
Tooling Package	—





First-Class Components and Solid Construction

The X9 is our 3-axis machining center for high-speed machining. Made with first-class components. Superb solid construction.

Specification	Details
Axis Travels	760 × 500 × 500 mm
Spindle	10,000 rpm, BT40
(ATC)	24-pocket, servo type
Machine Bed	SCHNEEBERGER mineral cast
Motion Components	THK ball screws and linear motion guides

VERTICAL MILLING CENTER
SYIL X9



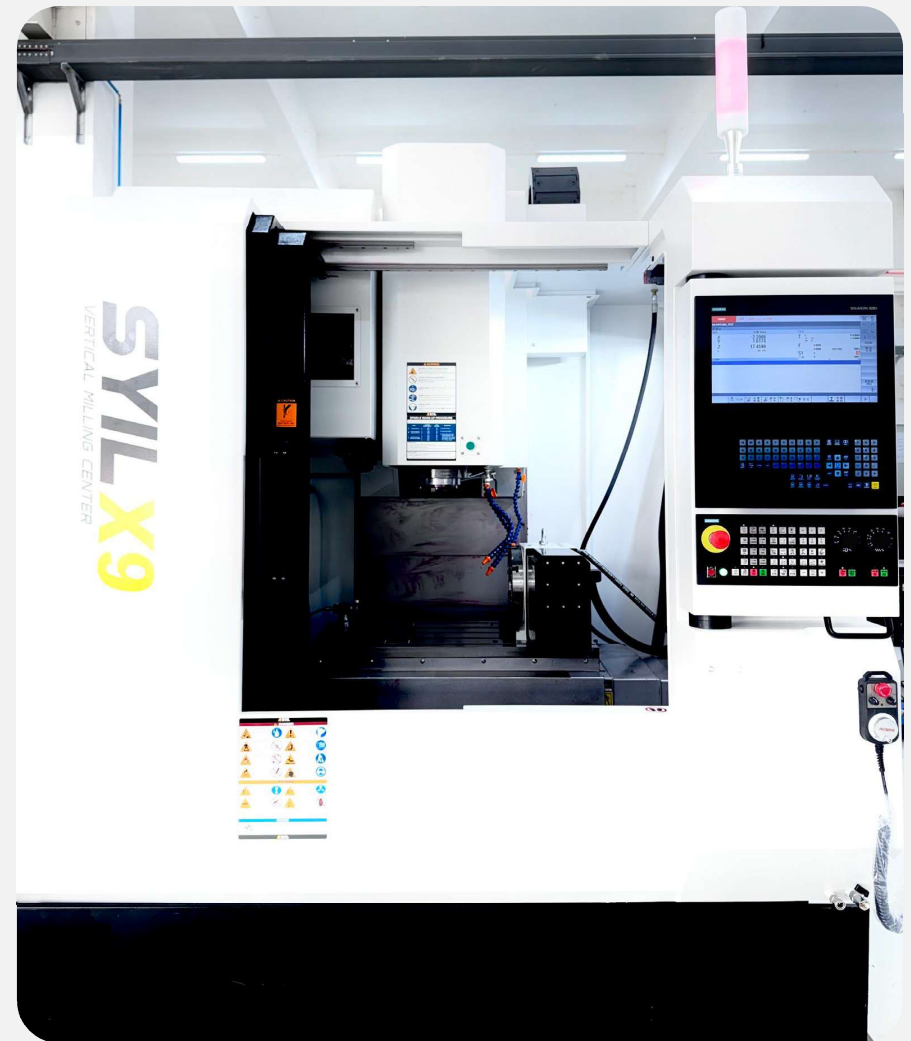
Recommended Controller

Siemens SINUMERIK 828D
15.6" touch panel

Alternatives:
SYNTEC 22MA / 220MA 5-Axis



Option	Description / Notes
NC Rotary Table Servo Type	4th Axis, 255 mm
Tail Stock	For 255 mm NC Rotary Table
Probe System	Wireless Type
Tool Setter Kits	Cable Type, Model TTC200
Filtermist	—
Central Coolant System	CTS, 20 Bar pressure
Chip Conveyor	—
Tooling Package	—



SYIL X11 | Designed for Large Workpieces

The X11 boasts excellent production performance and provides final production efficiency to its customers.

Specification	Details
Axis Travels	1000x500x500 mm
Spindle	10,000 rpm, BT40
(ATC)	24-pocket arm type
Machine Bed	SCHNEEBERGER mineral cast
Motion Components	THK ball screws and linear motion guides



Recommended Controller

Siemens SINUMERIK 828D
15.6" touch panel

Alternatives:
SYNTEC 22MA / 220MA



Option	Description / Notes
NC Rotary Table Servo Type	4th Axis, 255 mm
Tail Stock	For 255 mm NC Rotary Table
Probe System	Wireless Type
Tool Setter Kits	Cable type TTC200
Filtermist	—
Central Coolant System	CTS 20 Bar
Chip Conveyor	—
Tooling Package	—

