

THE L3

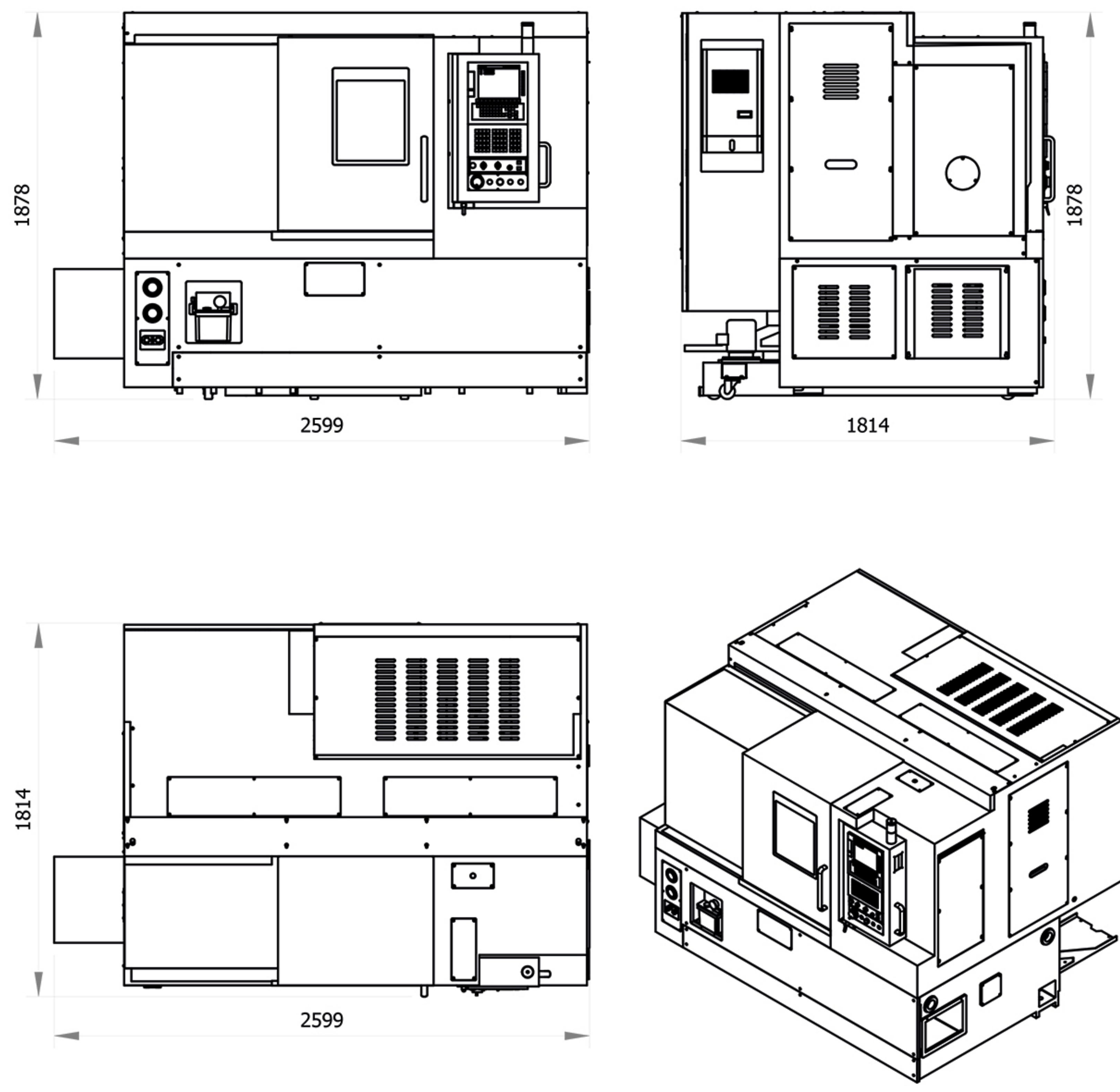


Lathe

SYIL

L3

The High Productivity Lathe



The SYIL L3 turning center with live tooling for high performance CNC machining of small and medium-sized workpieces.

Controller

- > Siemens SINUMERIK 828D 15.6" touch panel

Options

- > 12 Station Live Tool Turret BMT55
- > Hydraulic Tailstock
- > Servo Tailstock
- > Sub-Spindle
- > Y-Axis
- > Filtermist S800
- > Chip Conveyor
- > Live Tools

Other data

Machine weight (kg)	4000
Machine dimensions	
L x W x H (mm)	2500x1720x1740
with Y axis (mm)	2680x1750x1850
with Counter Spindle (mm)	2680x1750x1850

Technical Specifications

Processing capacity	
Chuck size (")	8
Max. swing diameter over bed (mm)	ø550
Max. swing diameter over carriage (mm)	ø290 (with Y axis: 200)
Max. workpiece length (mm)	500 (with Y axis: 530, with Counter Spindle: 450)
Max. work piece diameter (mm)	ø380

Spindle	
Maximum speed (rpm)	4000
Spindle nose	A2-6
Spindle bore diameter (mm)	ø63
Through spindle bore diameter (mm)	ø52
Spindle power (kW)	11/15
Minimum C-axis indexing (°)	0.001

Counter spindle	
Chuck size (")	6
Rate speed / Max speed (rpm)	1750/6000
Spindle nose	A2-5
Spindle bore diameter (mm)	ø56
Through spindle bore diameter (mm)	ø45
Spindle power (kW)	11
Travels (m)	530
Rapid traverse (m/min)	30

Travels	
X Rapid traverse (m/min)	30
Z Rapid traverse (m/min)	30
Y Rapid traverse (m/min)	15
X Travels (mm)	190+10
Z Travels (mm)	550 (with Y axis: 490+-50)

Tool holder	
Type	Power Turret
Tools	12
Tool shank size (mm)	25x25
Tool shank diameter (mm)	ø40
Min. Tool to Tool (s)	0.2
Max. Tool to Tool (s)	0.5
Max. Live Tooling Speed (rpm)	5000
Live Tooling Model	BMT55

Tail stock	
Travels from Tail Stock to Chunk (mm)	465 (with Y axis: 500)
Tail Stock Rapid Traverse (m/min)	30
Sleeve taper	MT4

Accuracy	
Finish turning cylindrical accuracy	IT6
Finish turning parts surface	Ra 0.4-1.6
Finished turning parts roundness (mm)	≤0.003
Position accuracy X (mm)	0.005
Position accuracy Z (mm)	0.008
Repeat accuracy X (mm)	0.002
Repeat accuracy Z (mm)	0.004