

MAGMA CNC

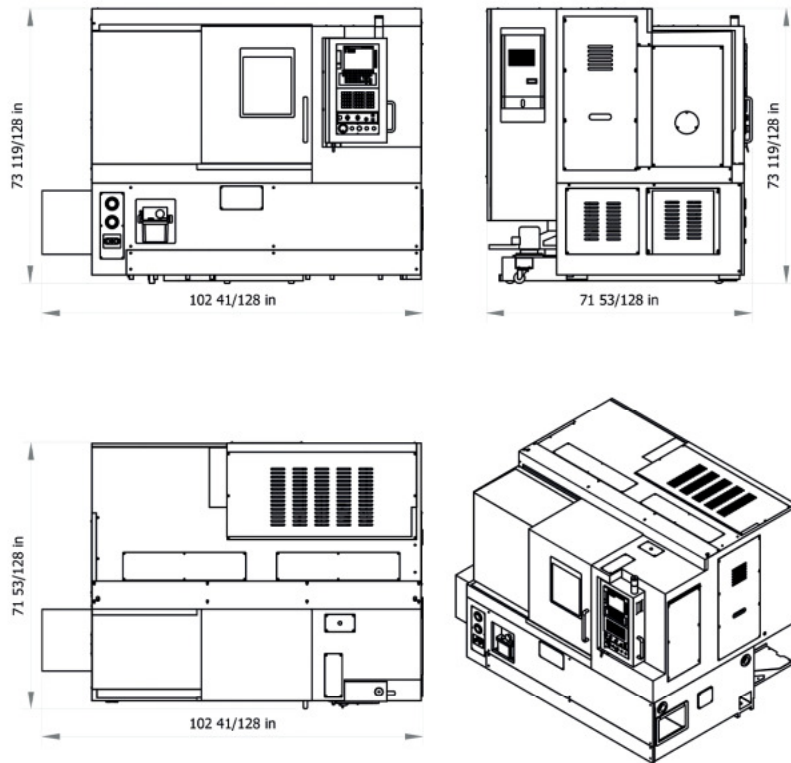
THE L3



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

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Other data

Machine weight (lb)	8818
Machine dimensions L x W x H (in)	98.43×67.72×68.50
with Y axis (in)	105.51×68.90×72.83
with Counter Spindle (in)	105.51×68.90×72.83

Technical Specifications

Processing capacity

Chuck size (")	8
Max. swing diameter over bed (in)	ø21.65
Max. swing diameter over carriage (in)	ø11.42 (with Y axis: 7.87)
Max. workpiece length (in)	19.69 (with Y axis: 20.87, with Counter Spindle: 17.72)
Max. work piece diameter (in)	ø14.96

Spindle

Maximum speed (rpm)	4000
Spindle nose	A2-6
Spindle bore diameter (in)	ø2.48
Through spindle bore diameter (in)	ø2.05
Spindle power (hp)	14.75/20.11
Minimum C-axis indexing (°)	0

Counter spindle

Chuck size (")	6
Rate speed / Max speed (rpm)	1750/6000
Spindle nose	A2-5
Spindle bore diameter (in)	ø2.21
Through spindle bore diameter (in)	ø1.77
Spindle power (hp)	14,75
Travels (in)	20,87
Rapid traverse (in/min)	30

Travels

X Rapid traverse (in/min)	1181,1
Z Rapid traverse (in/min)	1181,1
Y Rapid traverse (in/min)	590,6
X Travels (in)	7.48±0.39
Z Travels (in)	21.65 (with Y axis: 19.29±-1.97)

Tool holder

Type	Power Turret
Tools	12
Tool shank size (in)	0.98×0.98
Tool shank diameter (in)	ø1.57
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 (in)	18.31 (with Y axis: 19.69)
Tail Stock Rapid Traverse (in/min)	1181,1
Sleeve taper	MT4

Accuracy

Finish turning cylindrical accuracy	IT6
Finish turning parts surface	Ra 0.4-1.6
Finished turning parts roundness (in)	≤0.000118
Position accuracy X (in)	0,000197
Position accuracy Z (in)	0,000315
Repeat accuracy X (in)	0,000079
Repeat accuracy Z (in)	0.000157