

THE G3

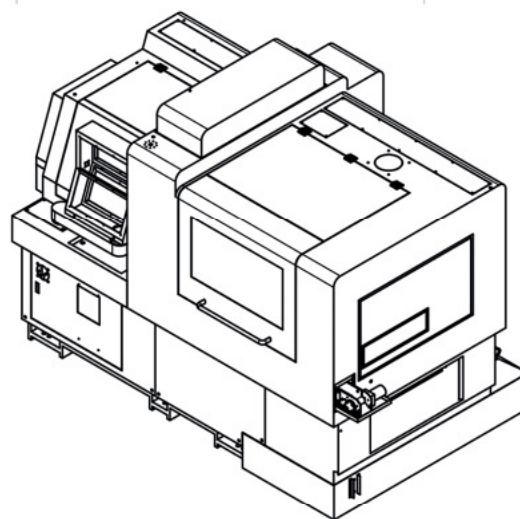
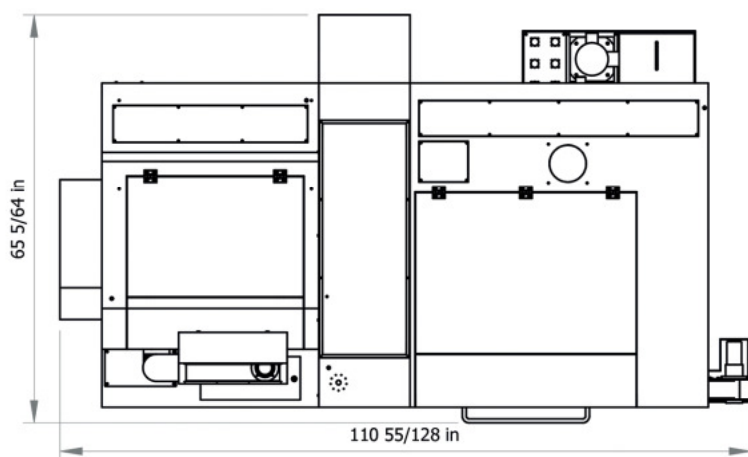
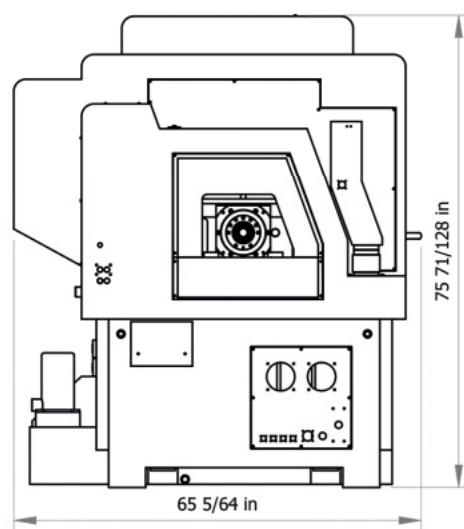
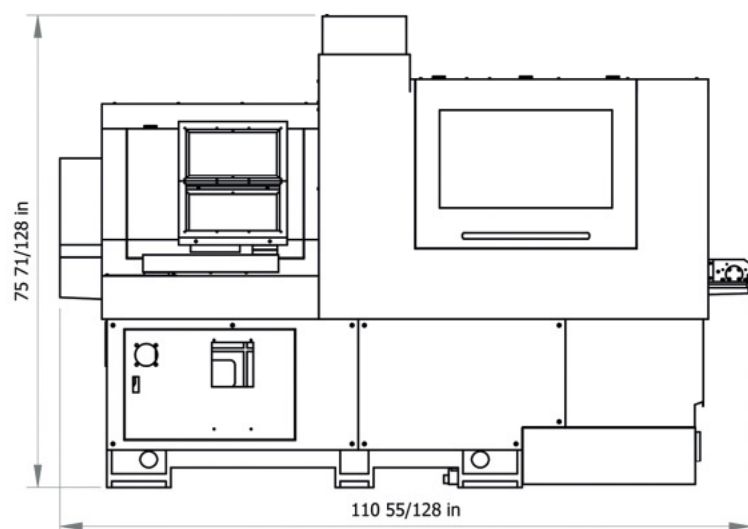


Swiss-Type Lathe

SYIL

G3

Designed for Precision Machining



Standard Configuration

- Rotary guide sleeve
- Liquid level detection switch
- Non-guide sleeve device
- External handwheel
- Radial power tool device
- Spindle oil-cooler
- Front unloading device of sub-spindle
- LED lighting device
- Parts transfer device
- LED three-color alarm lamp

NC Functions

- Siemens SINUMERIK 828D system
- Absolute position servo with bus communication
- Handwheel simulation
- Sub-spindle synchronous material receiving
- Rigid tapping for power tools
- C1/C2 axis coupling
- Z1/Z2 axis coupling
- Torque detection
- Cutting detection (software type)

Options

- High-pressure cooling unit
- Oil mist collector
- Chip conveyor
- Various power tools (refer to the optional configuration diagram)
- Long-material unloading accessories
- Flow detection switch
- Cutting detection (mechanical type)
- Safety door lock

Technical Specifications

Processing capabilities		G3 L325	G3 L326	G3 L385	G3 L386
Max. processing bar diameter (in)		Φ1.26	Φ1.26	Φ1.50	Φ1.50
Spindle through hole diameter (in)		Φ1.46	Φ1.46	Φ1.53	Φ1.53
Max. processing length(in)	No guide bushing	2.50D(Max. 3.15)	2.50D(Max. 3.15)	2.50D(Max. 3.15)	2.50D(Max. 3.15)
	Fixed guide sleeve	-	-	-	-
	Rotary guide sleeve	12,21	12,21	12,21	12,21
Max. clamping diameter of back spindle (in)		Φ1.26	Φ1.26	Φ1.50	Φ1.50
Max. drilling diameter of spindle (in)		Φ0.51	Φ0.51	Φ0.51	Φ0.51
Max. tapping diameter of spindle		M12	M12	M12	M12
Max. drilling diameter of back spindle (in)		Φ0.39	Φ0.39	Φ0.39	Φ0.39
Max. tapping diameter of back spindle		M10	M10	M10	M10
Max. drilling diameter of radial live tool (in)		Φ0.39	Φ0.39	Φ0.39	Φ0.39
Max. tapping diameter of radial live tool		M8	M8	M8	M8
Max. drilling diameter of back powered tool (in)		Φ0.32(optional)	Φ0.32	Φ0.32(optional)	Φ8
Max. tapping diameter of back powered tool		M6(optional)	M6	M6(optional)	M6

Mechanical capabilities

Spindle speed (r/min)	8000(rotary guide sleeve 6000)	8000(rotary guide sleeve 6000)	6000(rotary cilinder)	6000(rotary cilinder)
Back spindle speed (r/min)	8000	8000	8000	8000
Radial live tool speed (r/min)	6000	6000	6000	6000
Back live tool speed (r/min)	6000(optional)	6000	6000(optional)	6000
Rapid moving speed (m/min)	30(X2, Y1, Z1, Z2)	30(X2, Y1, Z1, Z2)	30(X2, Y1, Z1, Z2)	30(X2, Y1, Z1, Z2)
	24(X1)	24(X1, Y2)	20(X1)	20(X1, Y2)
Spindle runout (mm)	≤≤0.000079	≤0.000079	≤0.000079	≤0.000079
Repeat positioning accuracy (mm)	≤≤0.000118	≤0.000118	≤0.000118	≤0.000118

Tool system

External cylindrical tools	6(□16)	6(□16)	1(□20)+5(□16)	1(□20)+5(□16)
End face machining tools	4(ER20)	4(ER20)	4(ER20)	4(ER20)
Radial live tools	1(ER20)+3(ER16)	1(ER20)+3(ER16)	1(ER20)+3(ER16)	1(ER20)+3(ER16)
Deep hole tool holder	2(ER16)	2(ER16)	2(ER16)	2(ER16)
Back machining tools	4(ER16)	4(ER16)	4(ER16)	4(ER16)
Back powered tool	Optional	4(ER16)	Optional	4(ER16)
Back turning tool holder	-	-	-	-

Motor power

Spindle (hp)	8,45	8,45	8,45	8,45
Back spindle (hp)	5,63	5,63	5,63	5,63
Linear drive shaft (hp)	1.1(X1, X2, Y1, Z1, Z2)	1.1(X1, X2, Y1, Z1, Z2)	1.1(X1, X2, Y1, Z1, Z2)	1.1(X1, X2, Y1, Z1, Z2)
Radial live tool (hp)	1,48	1,48	1,48	1,48
Back live tool (hp)	1.34(optional)	1,34	1.34(optional)	1,34
Cooling pump (hp)	0,54	0,54	0,54	0,54

Weight and size

Weight (kg)	8267	8267	8267	8267
Size (in)	116.54×65.35×75.59	116.54×65.35×75.59	122.05×65.35×75.59	122.05×65.35×75.59

