

LG Series

		LG-4030	LG-5030	LG-6030	LG-8030	LG-10030	LG-5040	LG-6040	LG-8040	LG-10040	LG-6050	LG-8050	LG-10050	LG-14050	LG-10070	LG-20070
Specifications																
X-axis travel	mm	4,000	5,000	6,000	8,000	10,000	5,000	6,000	8,000	10,000	6,000	8,000	10,000	14,000	10,000	20,000
Y-axis travel	mm	3,000					4,000					5,000			7,000	
Z-axis travel	mm	1,000					1,000					1,000			1,000	
Distance from spindle nose to table top	mm	200 ~ 1,200					200 ~ 1,200					200 ~ 1,200			200 ~ 1,200	
Distance between columns (with water eliminator)	mm	3,800 (3,500)					4,800 (4,500)					5,800 (5,500)			7,800 (7,500)	
Table																
Table size (X direction)	mm	4,000	5,000	6,000	8,000	10,000	5,000	6,000	8,000	10,000	6,000	8,000	10,000	14,000	10,000	20,000
Table size (Y direction)	mm	2,800					3,800					4,800			6,800	
Table load capacity	kg/m ²						2,500									
Spindle																
Spindle motor (cont. / 30 min.)	kW (HP)	22 / 26 (30 / 35)														
Spindle speed	rpm	4,000 Gear Spindle (Std.) : 5,000 / 6,000 Gear Spindle (Opt.) : 6,000 / 8,000 Built-in Spindle (Opt.)														
Spindle taper		BT50 (7/24)														
Feed Rate																
X-axis rapid feed rate	mm/min.	12,000	10,000	20,000	20,000	20,000	10,000	20,000	20,000	20,000	20,000			15,000		
Y-axis rapid feed rate	mm/min.	15,000					15,000					12,000			12,000	
Z-axis rapid feed rate	mm/min.	10,000														
Cutting feed rate	mm/min.	1 ~ 10,000														
Tool Magazine																
Tool magazine capacity	T	32					32 (60 Opt.)					32 (60 Opt.)			32 (60 Opt.)	
Max. tool diameter / adj. pocket empty	mm	Ø127 / Ø215														
Max. tool length (from gauge line)	mm	350														
Max. tool weight	kg	20														
Accuracy																
Positioning accuracy (JIS B 6338)	mm	± 0.025 / Full Travel														
Positioning accuracy (VDI 3441) X-axis / Full Travel	mm	P = 0.025	P = 0.030	P = 0.035	P = 0.040	P = 0.050	P = 0.030	P = 0.035	P = 0.040	P = 0.050	P = 0.035	P = 0.040	P = 0.050	P = 0.060	P = 0.050	P = 0.10
Positioning accuracy (VDI 3441) Y / Z axes	mm	P = 0.025 / Full Travel					P = 0.030 / Full Travel					P = 0.040 / Full Travel			P = 0.040 / Full Travel (Optical linear scale)	
Repeatability (JIS B 6338)	mm	± 0.005														
Repeatability (VDI 3441) X-axis	mm	Ps = 0.018	Ps = 0.022	Ps = 0.026	Ps = 0.030	Ps = 0.038	Ps = 0.022	Ps = 0.026	Ps = 0.030	Ps = 0.038	Ps = 0.026	Ps = 0.030	Ps = 0.038	Ps = 0.045	Ps = 0.038	Ps = 0.080
Repeatability (VDI 3441) Y / Z axes	mm	Ps = 0.020					Ps = 0.025					Ps = 0.030			Ps = 0.030 (Optical linear scale)	
General																
Power requirement		80 kVA 220 ±10 % Vac 3 phase 50/60 Hz														
Pneumatic pressure requirement	kg/cm ²	5 ~ 8 (5)														
Hydraulic unit tank capacity	liter	120														
Lubrication oil tank capacity	liter	6														
Coolant tank capacity	liter	1,300					1,600					1,900			2,100	

Machine weights are changing depending on different specifications. Please contact AWEA sales for accurate weights. Specifications are subject to change without notice.

Standard Accessories

- Spindle 2-step gear box
Continuously Variable Transmission
- Spindle cooling system
- Centralized automatic lubricating system
- Fully enclosed splash guard
- Twin hydraulic counter weight cylinders
- 32 Tool magazine
- Adjustable torque-limit clutch (3 Axes)
- X-axis optical linear scale
- Y / Z axes external encoder
semi-closed type feedback system
- Coolant system with pump and tank
- Twin screw type chip conveyor
- Recycling lubricating oil collector
- Caterpillar type chip conveyor and bucket
- Foundation bolt kit
- Footswitch for tool clamping
- Movable manual pulse wave generator

Optional Accessories

- Coolant through the spindle (Form A)
- Column raiser
- Automatic tool length measurement
- 60 Tool magazine (LG-XX40 and above models)
- Y / Z axes optical linear scale (HEIDENHAIN)
- Extension Head
- 90° Head automatic 5° index
- 35° Head automatic 5° index
- Universal Head :
C-axis automatic 5° index
A-axis manual 5° index