

## Main Unit Spec

Laser Scanner System LS-2-EU + LE-60TM40		
Component	Controller	LS-2-EU
	Encoder Motor	LE-60TM40
Positioning	Command Resolution	0.33 $\mu$ rad (0.068 arc-sec)
Performance	Settling Time	0.666 msec / 7 mrad (Settling Range : $\pm$ 21.4 $\mu$ rad with 10.0 gcm <sup>2</sup> )
	Repeatability	10 $\mu$ rad
	Scan Angle	+/- 10 degrees
	Positioning Thermal Drift	48.5 $\mu$ rad / $\Delta$ 45 °C
Environment	Operating Temperature	23 $\pm$ 5 °C
( The temperature inside of motor must be 75 °C or less while in operation )		
	Operating Humidity	80 % RH or less ( no condensation )

LE-60TM40 SPECIFICATION		
Motor	Type	Single phase 4 -pole coreless brushless
	Scan Angle	$\pm$ 10 degrees
	Rotor Inertia	15.0 gcm <sup>2</sup>
	Torque Constant	0.041 Nm / A
	Coil Resistance	0.9 ohm
	Coil Inductance	0.28 mH
Encoder	Type	Laser diffraction Interference rotary encoder
	Resolution	140,000 sinusoidal wave / revolution
	Output Signal	A phase, B phase, Z phase
	Maximum response	3 MHz ( 21.4 rps ) or more
Outside Diameter		$\varnothing$ 58
Length		83 mm
Maximum Load		Axial : 1.0 N, Radial : 1.0 N
Weight		0.65 kg

LS-2-EU SPECIFICATION	
Control Axis	2 axis
Power Supply	+ 5 V 6 A, - 5 V 3 A
	+ 96 V 22 A peak / axis, - 96 V 22 A peak / axis
Communication Interface	Serial (RS-232C) : for command / data
	Parallel : Positioning command input / inpositioning signal output
Dimension	329 x 189.5 x 305 mm *1
Weight	16 kg

### APPLICATIONS

Laser Via Hole Machine  
 Semiconductor Equipment  
 High Precise Positioning Machine

\*1 Some extra space must be kept around the unit for the air-flow