

L-740 Series Systems



L-740 Ultra-Precision Leveling Laser



L-741 Ultra-Precision Leveling Laser (with Plumb Beam)



L-742 Ultra-Precision Dual Scan Laser



L-743 Ultra-Precision Triple Scan Laser

Laser Alignment Systems for Complex, Ultra-Precise Applications

Features and Benefits

Our ultra-precision L-740 Series Laser Alignment Systems represent the pinnacle of achievement in laser alignment technology. With the L-743 Triple Scan® laser, measure flatness, straightness, and squareness simultaneously, with one setup! Powerful machine geometry analysis software automatically downloads alignment data, corrects laser-slope and poor-reference-point errors and produces comprehensive alignment reports.

L-740 Series Features:

- One, two or three auto-rotating laser planes
- Laser plane flatness: .00003"/ft or 0.0025 mm/M
- Laser plane orthogonality: up to .00006"/ft or 0.005 mm/M
- Built-in, backlit level vials with up to .00006"/ft or 0.005 mm/M accuracy
- 3-axis adjustment base for fast setups

The system comes with 2 wireless target options: A) the A-1519 (900 MHz or 2.4 GHz) with 1" (25mm) measuring range and .00002" (0.0005 mm) resolution; or B) the A-1520 (900 MHz or 2.4 GHz) with 0.25" (10 mm) measuring range and .00001" (0.00025 mm) resolution. Our R-1310 wireless readout can display up to eight targets, four simultaneously. The A-910 wireless PC base station can download data from up to 99 targets at the same time.

Which Laser System Is Right For You?

	Precision Series			Ultra Precision Series			
	L-730	L-732	L-733	L-740	L-741	L-742	L-743
# of Laser Planes							
	1	2	3	1	1	2	3
Measurement Tasks							
Flatness/Leveling	•	•	•	•	•	•	•
Machine Bed Flatness	•	•	•	•	•	•	•
Squareness	•	•		•	•	•	•
Straightness	•	•		•	•	•	•
Parallelism	•	•	•	•	•	•	•
Rail Parallelism		•	•			•	•
Typical Applications							
Machine Tool Geometry				•	•	•	•
Roll Alignment		•	•			•	•
Inj. Molding Mach.		•	•			•	•
Aerospace Assem.	•	•	•	•	•	•	•
Surface Plates				•	•	•	•
Large-Part Align.	•	•	•	•	•	•	•
Fabrication Alignment/Equip.	•	•	•				
Alignment Capabilities							
Laser Plane Flatness	.00012"/ft or 0.01 mm/M			.00003"/ft or 0.0025 mm/M			
Beam Plane Squareness	n/a	.00012"/ft or 0.01 mm/M		n/a		up to 0.0006"/ft or 0.005 mm/M	
Adjustment Parameters							
Coarse Adjustment Range	+/- 3.0 degrees			+/- 3.0 degrees			
Fine Adjustment Range	n/a			+/- .03 degrees			
Course Adjustment Resolution	.010" (0.25 mm) in 100 feet (30.5 meters)			.010" (0.25 mm) in 100 feet (30.5 meters)			
Fine Adjustment Resolution	n/a			.001" (0.025 mm) in 100 feet (30.5 meters)			
Target/Readout Options							
Target:							
A-1532 & A-1533	std.	std.	std.	n/a	n/a	n/a	n/a
A-1519 & A-1520 Wireless	opt.	opt.	opt.	std.	std.	std.	std.
Recommended Qty:	1	2-3	3-4	1	1	2-3	3-4
Readout:							
Built-in	std.	std.	std.	n/a	n/a	n/a	n/a
Wireless	opt.	opt.	opt.	std.	std.	std.	std.
Price Range							
	\$	\$\$	\$\$\$	\$\$	\$\$	\$\$\$	\$\$\$\$