

WH-L Series - Precision Weld Heads (formerly known as LH Series)

The WH-L series of precision servo weld heads combine the latest ultra low friction, high speed actuation technology with cutting edge control electronics to deliver fully integrated process programmable spot welding with real time displacement monitoring and process control. WH-L Series weld heads fully integrate with the MacGregor SMART series of power supplies to deliver a precision fully featured welding process definition and data collection system suitable for both high end manual or automatic spot welding assembly. All SMART series power supplies and heads provide true servo driven output control that is derived from precision calibrated sensors. Furthermore, to meet the increasing demands from the automotive, medical and aerospace sectors, secondary sensors and feedback methods assure system integrity and accuracy on a weld by weld basis. Standard options include 1 μ m weld displacement encoder with real time trace and windowing capability with 25mm or 100mm travel models.

Key Features WH-L Series - Precision Weld Heads

- > Fully programmable motion profiles
- > 0.1N force resolution, 1% accuracy
- > Automatic or manual mode operation
- > Ethernet control & programmability
- > Integrated control with weld schedules
- > Displacement monitoring

Specifications WH-L Series - Precision Weld Heads (formerly known as LH Series)

Model	WH-L-90-A	WH-L-180-A
Minimum force	7N	8N
Maximum force	90N	180N
Maximum speed	400mm/s	400mm/s
Force accuracy	0.3N	0.6N
Force repeatability	0.3N	0.6N
Duty cycle	5% @ max force	3% @ max force
Current handling	3000A	3000A
MECHANICAL FEATURES		
Stroke	25mm	25mm
Actuation	Auto or manual foot pedal	Auto or manual foot pedal
Weight	11.2 kg	11.2 kg
Positional accuracy	+/- 1µm	+/- 1µm
Options	100mm stroke variant	100mm stroke variant
Stroke	+/- 1µm encoder standard	+/- 1µm encoder standard



Product applications WH-L Series - Precision Weld Heads (formerly known as LH Series)



Welding orthodontic devices



Gold ribbon bonding



Welding components to leadframe

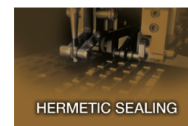


Welding stranded wire to terminal

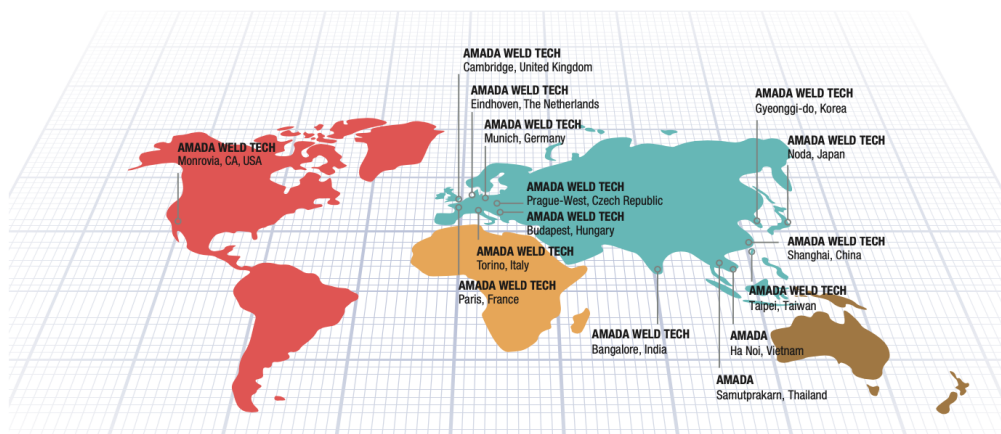
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OUR TECHNOLOGIES



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