



HSC750E-L

AUTOMATIC LASER COLD-SAW BRAZING MACHINE (WITH ROBOT)

Special features

KELION New-Generation Saw Blade Laser Brazing Machine

Equipped with linear laser beam welding technology, the machine features minimal heat-affected zone and low welding stress. It is compatible with 5% low-silver sandwich brazing filler metal, and capable of steadily welding various saw blades including PCD saw blades, cermet saw blades, cemented carbide plate saw blades and aluminum alloy saw blades.

- Outstanding Cost Advantage: It breaks the limitations of conventional high-frequency brazing technology. Traditional processes require 49% high-silver brazing filler metal, which brings high material costs and heavy welding loss.
- Remarkably Improved Welding Quality: The laser beam generates an extremely small heating area, delivering excellent applicability for thin saw blades without heat dissipation grooves. Welding deformation is effectively avoided.
- Energy Saving & Eco-friendly Performance: Fitted with a 2kW laser generator, the equipment saves 60% power consumption compared with traditional welding machines. It achieves lower energy consumption and eco-friendly operation, bringing remarkable long-term economic benefits.
- Premium Brand Components for Reliable Operation: Core electrical and transmission parts adopt well-known brand products, including KEYENCE, Schneider, Airtac and THK linear guides. The machine runs efficiently with low failure rate and extended service life.



Technical data:

- Diameter of saw blades: With robot: 180~500mm
Without robot: 180~600mm
- Rake angle: $-5^{\circ} \sim +25^{\circ}$
- Tips width: 1.5mm~7.0mm
- Tips length: 3.0~10.0mm
- Brazing accuracy: $\leq 0.05\text{mm}$
- Strap solder width: 1.5~5.0mm
- Brazing speed: 7~13s/per tooth
- Saw blade thickness: 1.0~5.0mm
- Function: Strap solder
- General power: 3.0kw
- Water pressure: $>0.2\text{Mpa}$
- Air pressure: $\geq 0.55\text{MPa}$
- Electricity: 220V 50 Hz (wire bigger than 4mm^2)
- Time of changing blades: 10~18s/pcs
- Dimension: 2000*1400*2000mm
- N.W.: 1200KG