



HSC790E-L

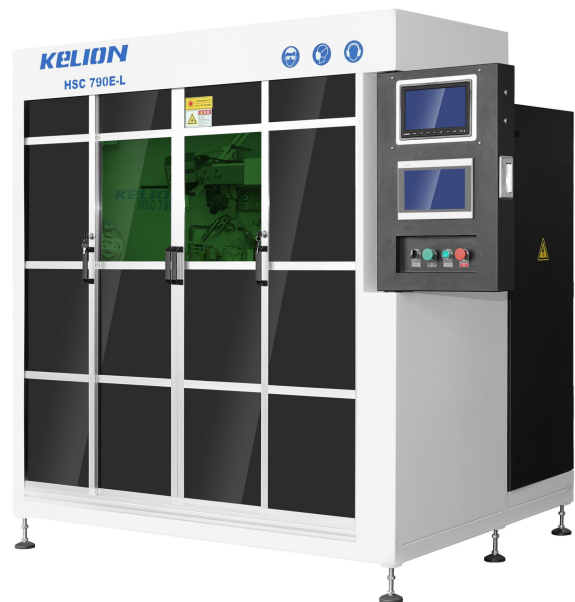
AUTOMATIC STRAP LASER BRAZING MACHINE (WITH ROBOT)

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:150~500mm
Without robot: 120~600mm
- Rake angle: $-5^{\circ} \sim +25^{\circ}$
- Tips width: 1.5mm~10.0mm
- Tips length : 4.0~15.0mm
- Brazing accuracy: $\leq 0.05\text{mm}$
- Strap solder width: 1.5~6.0mm
- Brazing speed: 6~12s/per tooth
- Saw blade thickness: 1.0~6.0mm
- Function : Strap solder
- General power: 2.5kw
- Water pressure: $>0.2\text{Mpa}$
- Air pressure: $\geq 0.55\text{MPa}$
- Electricity: 220V(single phase) 50 Hz (wire bigger than 4mm²)
- Time of changing blades: 10~18s/pcs
- Dimension: 1750*1400*2000mm
- N.W.: 1000KG