



GLL

AUTOMATIC PRECISION BRAZING MACHINE

Special characteristics

- Innovative machine design by use of servo drive technology for the handling units
- Few interchange parts for changeover with reduced set up time
- Changeover mainly by data input into the machine control
- Modern tip sorting system with laser camera and intelligent learning function
- Silver solder bending unit continuously variable programmable in all dimensions
- Robot system with high storage capacity and very fast movements for loading and unloading the saw blades and saw separating system (Option)
- Freely accessible machine protection system with light curtain
- Industrial PC with touch screen and machine operation with WINDOWS interface

Technical description

- Sorting and feeding of the tips by means of bowl feeder, laser camera system and longitudinal conveyor or belt
- Precise tip preparation with servo gripper
- Programmable flux dosing
- Programmable solder shaping at the solder cutting station
- Defined transfer of the prepared tip into the ceramic equipped and water cooled brazing tongs
- Temperature controlled brazing of the tip onto the circular saw blade
- Temperature controlled annealing process

- Fully automatic positioning and indexing of the saw blade by means of servo motors
- Automatic pick up of the unbrazed circular saw bodies from the loading magazine and positioning them onto the saw blade receptacle by means of a magnetic handling system
- Automatic pick up of the brazed circular saw blade and placing onto the upper pin of the loading magazine in ergonomic control position for the operator

Technical data

- Diameter of saw blades: 90 – 750 mm
- Rake angle: -10° to $+35^{\circ}$
- High frequency power: 5.6 kW
- Tip width: 1.5 – 10 mm
- Tip length: 2.0 – 27 mm
- Machine dimensions (L x W x H): 2,200 x 1,200 x 1,800 mm
- Weight: approx. 1,000 kg

Options

- Diameter of saw blades: 70 – 2,200 mm
- High frequency power: 12 kW
- Robot system
- Camera inspection system
- Silver wire feeding unit
- Special tip feeding for PCD – tips
- Water cooling system

Special design on request