



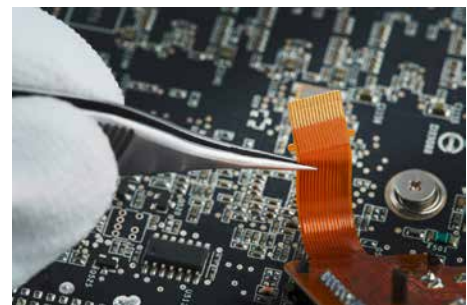
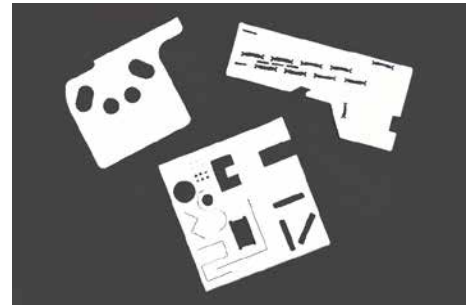
ILS-LT

ILS-LT - LINEAR TABLE MACHINE FOR VARIOUS APPLICATIONS

The ILS-LT is a versatile laser processing workstation designed for high-precision applications in the electronic, precision engineering, and photovoltaic industries. It is often used in R&D environments, as well as production of smaller substrates as e.g. ceramic PCBs.

Technical Data ILS-LT

Accuracy	< +/-10 µm abs. < +/-2 µm repeatability
Substrate	
Dimensions	up to 500 x 500 mm
Thickness	> 50 µm
Material	PCB, Ceramic, Silicon, Steel
Available laser sources	Wave length: 9.4, 10.6 µm (CO ₂), 1064, 1030, 532, 515, 355 nm Pulse: µs, ns, ps, fs
Laser spot size	10 - 300 µm
Dimensions	1700 x 2100 x 2700 mm
Weight	3500 - 4200 kg
Power supply	200 - 480 V
Compressed dry air	6 - 7 bar
Cooling water	5 - 20 l/min



FEATURES

- ◆ Fixed optic or scanner setup
- ◆ Single or dual process heads
- ◆ Process gas (N₂, O₂, Ar, ...)
- ◆ Processing one or more substrates in parallel
- ◆ Automatic camera calibration
- ◆ Automated routines for reference runs
- ◆ Automated process control
- ◆ Automated vision system for precision alignment and scaling, offset, trapezoidal and rotation compensation.
- ◆ Stand alone and production line integrated system

OPTIONS

- ◆ Import of CAD files (e.g. DXF, DWG) and Excellon 2, Sieb & Meyer and Gerber file formats.
- ◆ SQL data base for process and event tracking
- ◆ MES interface (SECS GEM PV2)
- ◆ Integrated process metrology
- ◆ Semi-automatic handling (R&D)
- ◆ Fully-automatic handling (production)