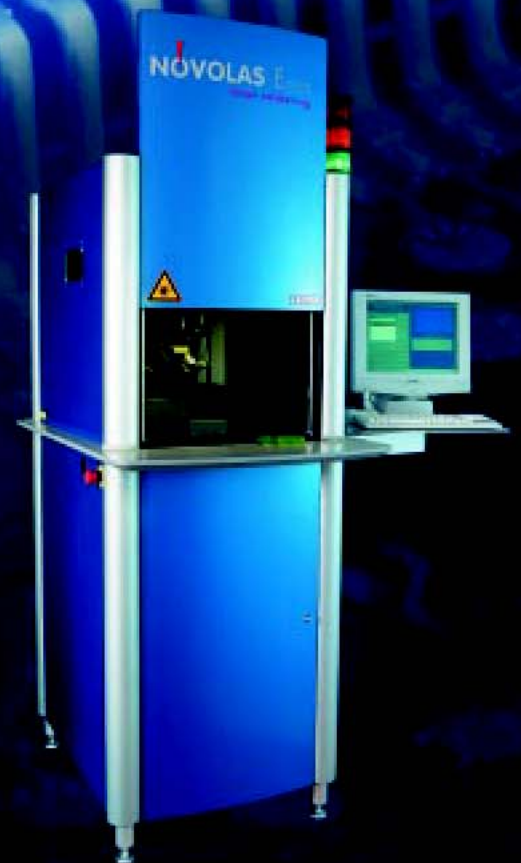


NOVOLAS E^{SPOT}

laser soldering



Lasersystems for Soldering

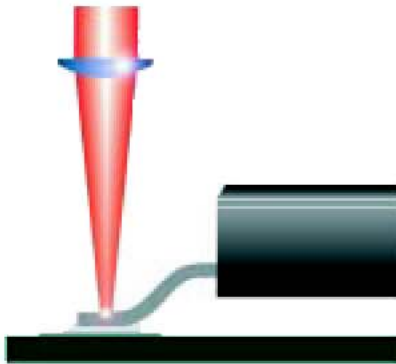
Manual Workstation for Laboratories
and Job Shop Production



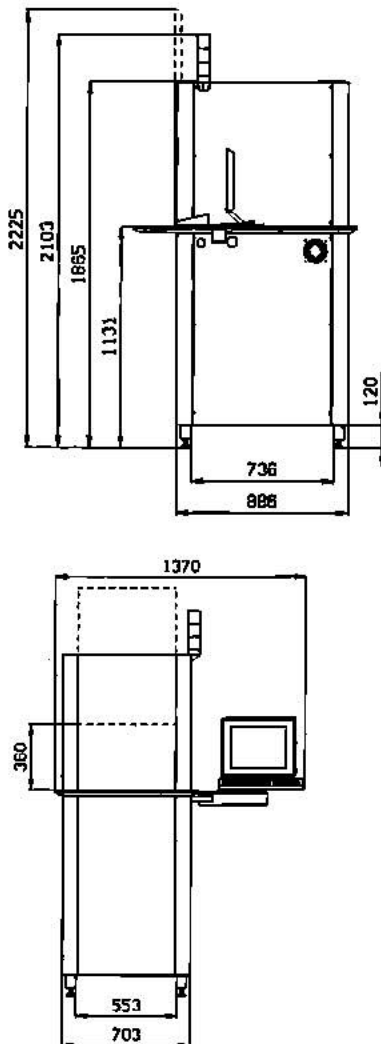
Lasersystems

NOVOLAS E_{SPOT}

laser soldering



Dim. in mm



Laser Soldering with NOVOLAS E_{SPOT}

Novolas E-spot offers a way to **Consistently** produce precise solder joints in a **Non-Contact** fashion. This principle is ideally suited for **Multidimensional, Temperature** sensitive components or substrates.

Soldering occurs beneath the laser spot as the work piece is guided from solder location to solder location on a highly precise, pre-programmed X-Y table. Multiple soldering locations, laser spot size (0.6 to a few mm), and laser intensity are all user definable.

The durable components and the user friendly software makes NOVOLAS E-spot a flexible and economical system for job shop production.

Technical Information

The **Laser, Positioning System, Controls, and Fume Exhaust Unit** are all contained in a compact, standalone system.

The graphical user interface, utilizing Windows™ based software, provides for simple and quick programming of all machine parameters.

Safety and security have been designed into the system through the utilization of various interlocks, pneumatic doors, limit switches, and two-hand controls. The software features two levels of password protection, ensuring safe and secure operation.

An optional software controlled, solder wire feeder with 270° rotation, and a camera for remote viewing of the work cell are also available for the NOVOLAS E-spot.

Laser Type	High Powered Diode Laser
Laser Power Output	35 W (optional 60 W)
Focus	0.6 mm (optional servo driven Z-axis)
Pilot Laser (635 nm)	< 1 mW (Laser Class 2)
Max. Part Size	250 × 250 × 100 mm
Max. Welding Area	200 × 200 mm
Axis	X - Y Servo Axis 200 mm × 200 mm (optional: 300 mm × 300 mm or solder wire feeder with 270° rotation)
Control	User Interface WINDOWS™ NT, Process Control
Line Voltage	230 VAC +/- 10% (Single phase with ground contact)
Frequency	50/60 Hz
Current Consumption	Max. 10 A
Air Pressure	Min. 6 bar, 1/4" Tube
Cooling	Air stream, Exhaust Air max 130°F (55°C)
Environment Conditions	60-105°F (15 - 40°C)
Weight	~700 lb (ca. 310 kg)
Laser Class	1

CE conform
Technical data subject to change
Further options on request



Lasersystems

a division of LEISTER Process Technologies



Thermoplastic Welding Technology LTD

Authorized Leister
Sales and Services Center

www.bak-ag.com
info@bak-ag.com

Tel.: +41 01 682 15 70