

**LEISTER**

# BASIC S/M/L



## Laser Welding with a Modular System

BASIC S/M/L series is a modular block building system for laser plastic welding. The functional Units are designed for integration into industrial production lines. The Units are configured based on specific application requirements. The versions differ in the scope of their functions: BASIC S, BASIC M and BASIC L (S-Small, M-Medium, L-Large).

- ✓ Modular building block system
- ✓ Variable integration depth
- ✓ Configuration determines process responsibility
- ✓ Several welding concepts possible
- ✓ Easy to integrate into production lines

The BASIC M and L versions are designed to be easily paired with a wide variety of Units. Each Unit comes with a Declaration of Incorporation, to assist with system certification. The included HMI software can be individually configured to the welding requirements and provides interfaces into higher-level control systems.



The standardized height of the 19-inch insert is adapted to the functionality of the individual Units. Each system consists of at least a Main Unit, a Laser Unit and an Optic. These Units are connected by “Hot-Connect Groups”. The customer interface on the Main Unit ensures easy integration into the higher-level production line.

The first BASIC M is available as a Class 4 laser system, with a Scanner Optic and process monitoring capability. The laser power, wavelength, welding area, and laser spot diameter can be configured to the specific application requirements (see technical data).

## Technical data

### Main Unit

#### Customer Interface

- Digital and Analog Inputs/Outputs
  - Mandatory Connections
  - Handshake Communication Channels
  - Quality Control Monitoring
- 1 LAN USB port on the front panel
- 1 USB port on the front panel
- LAN and USB connectivity options on the back panel
- Optional Remote Access
  - Wi-Fi
  - Mobile
  - LAN connection

#### Monitor

- 16:9 Full HD
- 21.5 inches
- Anti-glare Touchscreen

#### HMI Access

- Operator
- Expert
- Service

#### Key Switch

- Laser Enable
- Operation
- Remote Access (Optional)

### Laser Unit S

#### 980 nm

- 47W
- 160W

#### 975 nm

- 300W

#### 1070 nm

- 200W

### Scanner Unit

**Max. scan speed: 5000 mm/s**

**Aperture: 20 mm**

#### Operation area

- 975 – 980 nm
  - 100 × 100 mm
  - 240 × 240 mm
  - 350 × 350 mm
- 1070 nm
  - 100 × 100 mm
  - 200 × 200 mm
  - 360 × 360 mm

### Quality Control Unit

#### Force Measurement

- Resolution: 1.0N
- Measurement Range: 0 – 2000 N

#### Path Measurement

- Resolution: 0.01 mm
- Measurement range: 0 – 25 mm



Get in touch

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