



DATASHEET  
LASER APPLICATOR

ALPHA LASER



**Weber**<sup>®</sup>  
LABELING & CODING SOLUTIONS

## Alpha Laser

### **Laser labeling: cost-effective and reliable marking with the Alpha Laser**

The laser labeling solution comprises an Alpha label dispenser and a Solaris CO2 laser. The Alpha Laser writes variable additional information such as best before dates, graphics or logistics data on pre-printed labels immediately before application.

Reliable and cost-effective marking is assured, especially where large batches are processed and must be traceable. This technology is ideally suited especially for harsh environments since the laser printing unit, compared to conventional printing methods, is considered virtually non-wearing. By comparison laser labeling guarantees a significant longer service life and a significant higher availability without consumables or pressure bars.

Laser assures uninterrupted production. The laser writes any information - also batch and lot numbers - anywhere on the label, along or across the direction of travel.

The laser can write in black on laser-activated labels with a special finishing coat. No decomposition products are created in this case and the labels are not damaged. The print is smear- and scratch-resistant.

### **Advantages of marking with a laser applicator**

- any type of labels made of paper, foil or foil-laminated material can be used
- printing on a coating that can be activated exclusively by laser
- printing of information in pre-printed color fields
- printing of codes and graphics
- smear- and scratch-proof marking
- no consumables
- high marking speeds
- can also be used in extreme environments
- high process reliability and low running costs
- low maintenance, hardly any wearing parts

## Technical Specifications:

### Alpha Label Dispenser

#### Application Performance

label peel-off speed or rather product speed, up to 50 m per minute

#### Application Rate

up to 500 labels per minute (depending on label length)

#### Fault Recognition

automatic switch-off in case of roll end or web-break

#### Label Gap

minimum 3 mm

#### Label Roll

maximum 300 mm outer diameter, on 76 mm (3") roll core

#### Label Sizes

minimum height 7 mm, but larger with 1:1 printing and dispensing

maximum label width: up to 300 mm

maximum label length: 1 000 mm

#### Product Sensor

external, photocell, capacitive/inductive

### Laser Coder e-SolarMark

#### Laser Type

depending on application

#### Laser Output

10 W to 55 W

#### Power Consumption

450 W and more

#### Marking Fields (w x h)

50 x 50 mm and 300 x 300 mm

#### Protection Class

IP 52 / IP 54

#### Data Transfer

- RS232
- Ethernet
- USB

#### Controller Types

- LC-Display
- Touch screen (option)
- LC display with keyboard (option)

#### Inputs

- start signal NPN/PNP, speed measurement:
- rotary shaft encoder
- 8 digital inputs
- shutter (laser beam blocking)
- interlock (external safety circuit)
- key switch (remote control On/Off)

#### Outputs

- ready
- marking
- fault

#### Options

- lens safety glass
- marking direction horizontal 0 to 360°
- marking direction vertical 0 to 360°
- external air cooling (without compressed air) IP 54
- water cooling (closed circuit)
- pilot laser (adjustment aid)
- controller variants touch screen and LCD

#### System

##### Weight

from 140 kg (depending on type)

#### Electrical Connection

115/230 VAC, 50/60 Hz

#### Environmental Conditions

- temperature: 10 °C to 38 °C
- 10 % to 95 % relative air humidity, non-condensing

#### Certification

CE mark

Technical changes reserved at all times.

Please refer to the specific documentation for further comprehensive system information on the Laser coder and the Alpha series.



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