DATASHEET

LASER APPLICATOR

ALPHA LASER

Bluhm Weber Group

Weber®
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 speedor rather product speed, up to 64 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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