



DOTLINER 08

The DOTLINER 08 combines a high-precision dispenser and XYZ gantry system. Enabled by volumetric time-pressure dispensing technology, smallest volumes are dispensed as dot, line or meander shapes with highest repeatability and remain unaffected by changing environmental influences. Intuitive design, fast process changes as well as the possibility to process a wide range of different materials are characteristic features of the device. Cartridge and dispensing

nozzle can be tempered independently, the dispensing nozzle is heatable as standard. This allows repeatable dispensing results due to a constant viscosity of the medium as well as the use of temperature sensitive materials. With the integration of all functions of the Clever Dispense 06, the DOTLINER 08 is the reliable partner for micro assembly, SMD rework and surface-mounting.

Top Features



Documentation

Tracking of all dispensing processes via Industry 4.0 compliant logging functionality



Multifunctionality

Processing of Gerber, Extended Gerber, Excellon Data, HPGL, DXF, G-Code, Step, STL



Performance

Viscosities from 1 - 100,000 mPas



Reproducibility

Compensation of temperature fluctuations via nozzle and cartridge temperature control in the range of -15K to 50°C



Substrate size

620 mm x 800 mm x 100 mm; overhead clearance for boards/substrates with particularly large components



Precision

1 nl resolution

Standard equipment

- Control unit CLEVER DISPENSE 06 with 5 ccm dispensing head
- Motorized XYZ gantry system
- Color-zoom-camera with up to 8 MP resolution
- 4x magnet holders for PCBs, 40.5 mm
- PCB support rail, 40.5 mm
- Test point and stand-by platform
- EASY DISPENSE 08 software
- Manual

Technical details

| | |
|---------------------------------|-----------------------------|
| Max. PCB size: | 620 mm x 800 mm |
| System accuracy: | 50 µm |
| Travel range: | 490 mm x 420 mm x 120 mm |
| Travel speed: | 500 mm/s |
| Travel acceleration: | 3000 mm/s ² |
| Step resolution of axes: | 3.2 µm |
| Dot volume: | 0.001 - 5.0 mm ³ |
| Dot diameter: | ≥ 0.1 mm |

| | |
|--------------------------------|----------------------------------|
| Line pressure: | 0.1 - 5.0 bar |
| Retract vacuum: | -20 mbar - 0 mbar |
| Nozzle heating: | up to 90 °C |
| Mains: | 230 VAC / 140 VA |
| Pressurized air: | 5.5 - 8 bar / water and oil free |
| Dimensions (L x W x H): | 900 mm x 790 mm x 650 mm |
| Weight: | 70 kg |

Options

| | |
|---------------------------------------|--|
| Dispensing head: | 3, 10, 30, 55 ccm |
| Height sensor: | for dispensing head |
| Nozzle temperature control: | from 15 K below room temperature to +50 °C |
| Cartridge temperature control: | from 15 K below room temperature to +50 °C |
| Underheater: | on request |

DOTLINER 08: Optional extras

| | Article nr. | Name |
|---|-------------|--|
| | DL08.0000 | DOTLINER 08, dispensing head 5ccm |
| Optional extras | | |
|  | DK00.0030 | Hight sensor for dispensing head, dispensing w/o spacer, incl. spacer "0.0" |
|  | DK06.0002 | Dispensing head 5ccm with nozzle heating, for CD06 H Dispensing heads for cartridge size 3ccm, 10ccm, 30ccm and 55ccm are available |
|  | DK06.0502 | Dosierkopf 5ccm für CD06 HC mit Düsentemperierung Dispensing heads for cartridge size 3ccm, 10ccm, 30ccm and 55ccm are available |
|  | DK06.1005 | Cartridge Heater 30 and 55ccm for dispensing head CD06H |
|  | DK06.1503 | Cartridge Temperature Control 10ccm for dispensing head CD06 HC |
|  | DK06.1505 | Cartridge Temperature Control 30 & 55ccm for dispensing head CD06 HC |
| | HT00.8009 | Micro dispensing nozzle interior-Ø 0.17mm, spacer 0.08mm, for paste 6, pitch 0.4 - 0.8mm |
| | HT00.8010 | Metal dispensing nozzle interior-Ø 0,20mm for paste 5, pitch 0.5 - 1.0mm |
| | HT00.8011 | Metal dispensing nozzle interior-Ø 0.30mm for paste 3, pitch 0.6 - 1.5mm |
| | HT00.9010 | Spacer 0.10mm for metal-nozzles with interior-Ø 0.2mm |
| | HT00.9011 | Spacer 0.13mm for metal-nozzles with interior-Ø 0.3mm |
| | PD50.0002 | Starter Kit DOTLINER for solder paste applications |
| | PD50.0003 | Starter Kit DOTLINER for adhesives applications |
|  | HT00.0002 | Adhesive Volume Meter KVM 03, measuring range 0.01-3.0ccmm |

Additional accessories and consumables are available on www.martin-smt.de/en/shop/