

# **Product Information: Dispensing Cell DC-CNC1150**

Compact and flexible - the big-time compact dispensing cell for secure sealing, bonding, and potting using up to four components





## **Your Advantages**

### Compact design

- > Integrated control cabinet, safety housing
- > High-speed gantry robot

#### Controls

- > Sinumerik 840D Solution Line with operating panel OP08
- > Quick and flexible programming of different parts through recipe management
- > Integrated process controls

#### **High flexibility**

- > Compatible with all available RAMPF mixing and dispensing systems
- > Flexible automation solutions from manual to automatic part loading

### **Accurate metering**

- > Highly precise metering close to the mixing system
- > Servo-driven gear pumps for up to four components
- Short hoses between metering pumps and mixing head for highest accuracy

#### **Highly productive**

- > Increased productivity through optional dual mixing system
- > High travel speed during dispensing

**RAMPF** Production Systems GmbH & Co. KG



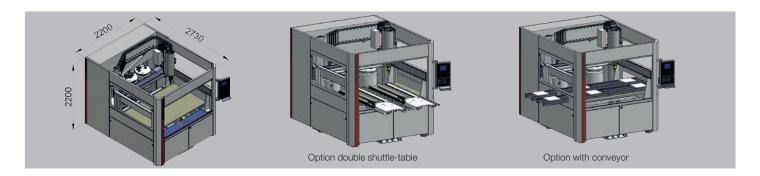
# **Dispensing Cell DC-CNC1150**

## **Product Details**

The DC-CNC1150 is the ideal solution for all complex applications, including the three-dimensional dispensing of sealants, glues, or encapsulants. The DC-CNC1150 combines the highest standards in NC technology with the low-maintenance linear motion CNC-axis.

This supports the perfect interaction of the metering process, the motion axis, and complex automation systems.

The modular architecture of the CNC allows for easy integration into existing production systems.



## **Technical Data**

| Flow rate, mixing ratio, viscositydepends on selected mixing systemMax. travel speedX, Y, Z = 60 m min <sup>-1</sup> Repeatability< 0.10 mm (ISO 9283)   |                                    |  |
|--|------------------------------------|--|
| Repeatability < 0.10 mm (ISO 9283)  NC controls Siemens Sinumerik 840D SL  Dispensing programs 512  Electrical supply 400 V / 16–32A / 50 Hz (60 Hz)  Power consumption 5.5–12 kW  Compressed air supply > 5 bar at max. flow 800 I min <sup>-1</sup> Compressed air consumption 5–20 I min <sup>-1</sup> Weight approx. 2800 kg | Flow rate, mixing ratio, viscosity | depends on selected mixing system            |
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| Dispensing programs  512  Electrical supply  400 V / 16–32A / 50 Hz (60 Hz)  Power consumption  5.5–12 kW  Compressed air supply  > 5 bar at max. flow 800 l min <sup>-1</sup> Compressed air consumption  5–20 l min <sup>-1</sup> Weight  approx. 2800 kg  | Repeatability                      | < 0.10 mm (ISO 9283)                         |
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| Compressed air consumption 5–20 l min <sup>-1</sup> Weight approx. 2800 kg   | Power consumption                  | 5.5–12 kW                                    |
| Weight approx. 2800 kg   | Compressed air supply              | > 5 bar at max. flow 800 I min <sup>-1</sup> |
|  | Compressed air consumption         | 5–20 l min <sup>-1</sup>                     |
| <b>Work area</b> X, Y, Z = max. 1150, 1000, 300 mm   | Weight                             | approx. 2800 kg                              |
|  | Work area                          | X, Y, Z = max. 1150, 1000, 300 mm            |

## **Options** (more upon request)

- > HP rinse recycling system or HP water rinsing system
- > Nucleation controller for air load controls of gasket materials
- > Material recirculation system and temperature controller
- > Automatic thin-film degassing for bubble-free potting
- > Various automation equipment available (rotary index tables, shuttle tables, conveyor lines, customized automation)
- > Individual process monitoring and visualization
- > Process data collection, interfacing to customers' PPS
- > Integration of up to four material components
- > Integrated shot-weight scale, nozzle check station, nozzle cleaning station

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