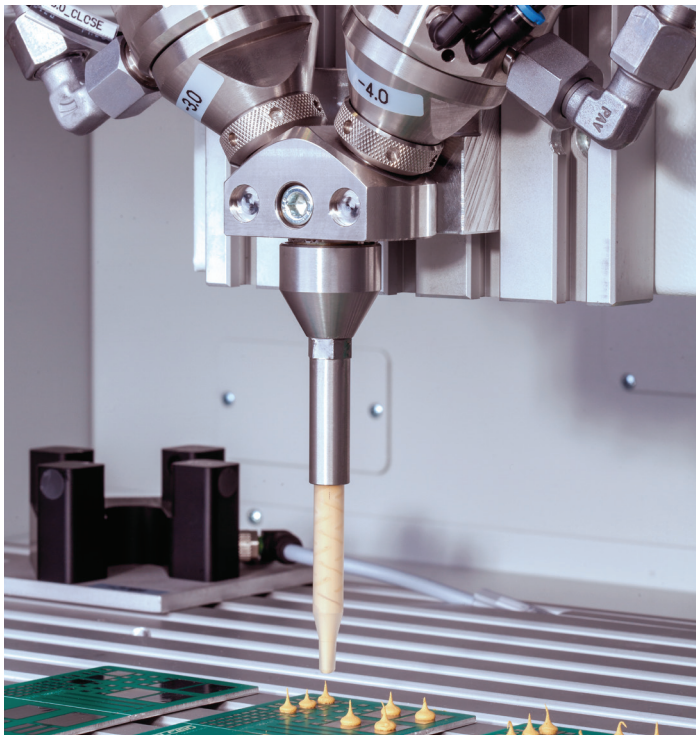# Product Information: Dispensing Cell DC-CNC250

Compact and flexible - the new desktop cell for high-precision dispensing of abrasive materials

Slim design, multiple choices for dispensing of thermal greases, resins, and adhesives

The desktop design allows a flexible arrangement within your production process

Your Advantages

Compact and flexible design

> Desktop device with integral controls and material supply

> Material supply from cartridges

> Comfortable access for maintenance

High-precision metering of small quantities

> Processing of 1- and 2-component materials

> Viscosity ranges from 100.000 – 700.000 mPa*s

> Static mixing unit

> Freely programmable mix ratio from 100:100 – 100:10

> For shot sizes > 5 mg

> Processing of highly abrasive materials

Intelligent controls

> High-resolution 15"-touchpanel with Embedded PC

> RAMPF process visualisation

> Operator-friendly safeguarding of work area with lift door

Dispensing Cell DC-CNC250

Product Details

The DC-CNC250 is designed as a desktop device and is freely programmable for dispensing dots and beads. The integrated dispensing system is specially designed for the processing of abrasive 2K-materials. The different components are dispensed by a servo-electric piston system made for extreme service life.

This ensures maximum precision and extended service life during the service intervals. Compatible with all common static miscible greases, adhesives, and resins. To ensure a safe production the machine is equipped with nozzle check.

Reproducible dispensing of abrasive material

Freely programmable dispensing contour

Technical Data

Flow rate, mixing ratio	0.01-0.5 cm³ sec⁻¹ @ mixratio 1:1
Accuracy	$C_{mK} > 1.67$ @ shot size 0.01 +/-10% cm³ @ 0.01 cm³ sec⁻¹
Shot size	min. 0.005 cm³, max. 5 cm³
Axis speed	X-Y-Z max. 6 m min⁻¹
Repeatability	< 0.1 mm
Material supply	20-oz-cartridges (600 ml)
Max. part volume (L x W x H)	approx. 280 x 280 x 80 mm
Operating system	Windows 7 Embedded compact
Controls	Beckhoff CX 2020
Electrical supply	110-230 V / 50-60 Hz, 16 A
Compressed air consumption	min. 6 bar, 5 l min⁻¹
Weight	approx. 180 kg
Dimensions	approx. 900 x 900 x 1100 mm (L x W x H)

Standard Interface

Inputs	Program-No. 1-15	Automatic START	Acknowledge Fault	START-Enable				
Outputs	System ready / Automatic	Combined Fault	Shortage of Materials	Warning	Processing active	Dispensing active	Dispensing OK. (500 ms)	Dispensing NOK (500 ms)

Options upon request

> Manual workplace with working table and tool cabinet
> Material supply from 310-ml-cartridges

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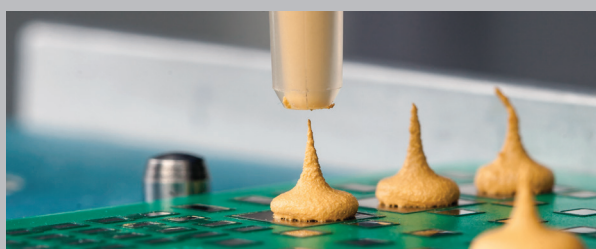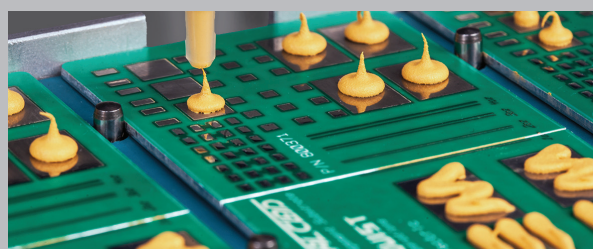E production.systems@rampf-gruppe.de

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