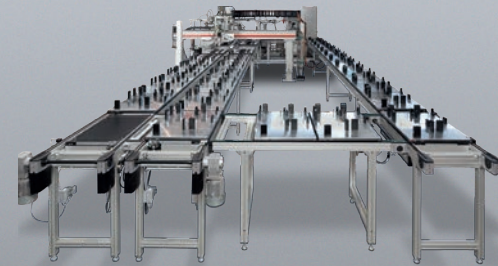
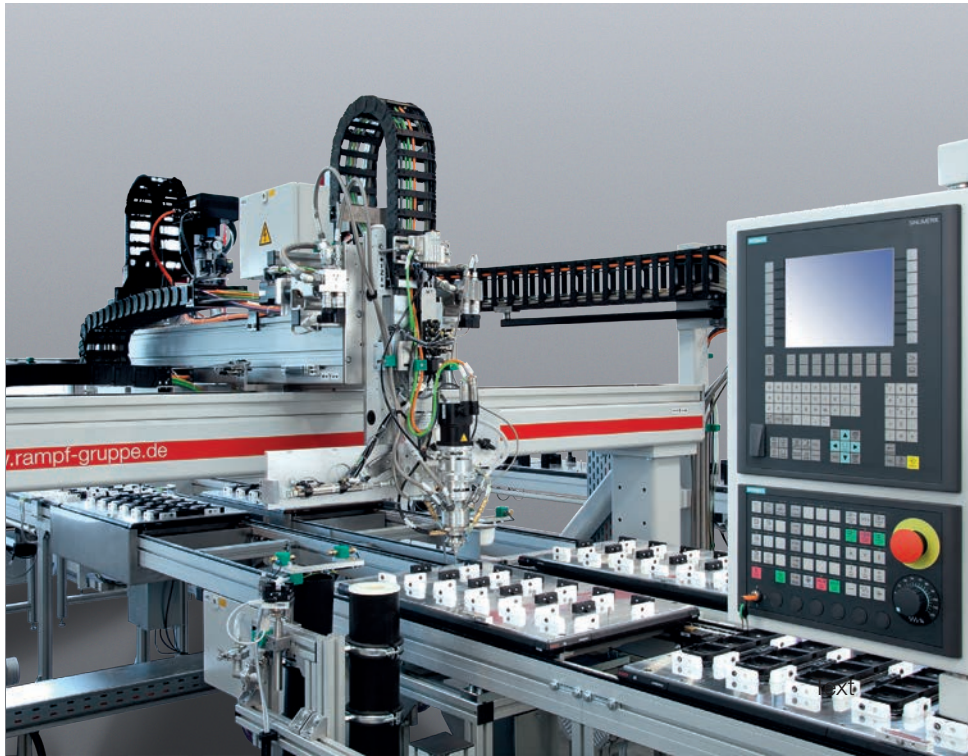
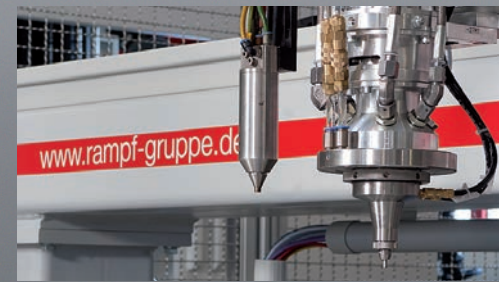


Product Information: Dispensing Robot DR-CNC

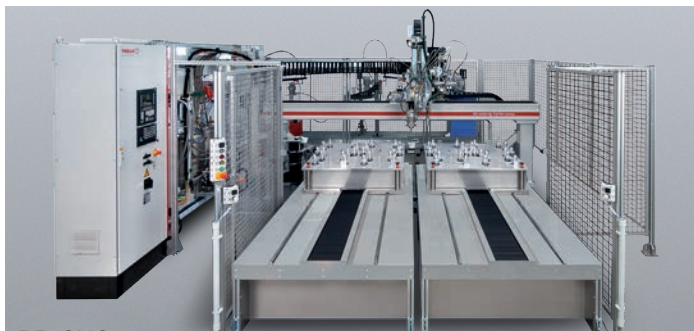
Highest flexibility – dynamic sealing, casting and bonding



DR-CNC with conveyor system



Mixing system with Plasma nozzle



DR-CNC
with side-by-side shuttle tables



DR-CNC
with over-under shuttle tables

Your Advantages

Compact design

- > RAMPF linear high-speed axis
- > Flexible design thanks to separate material conditioning unit

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

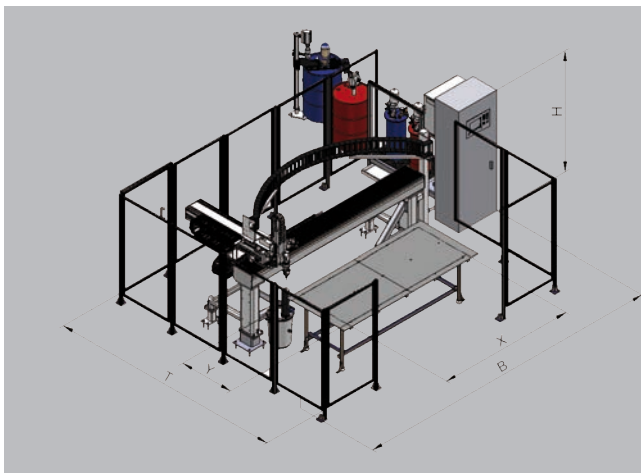
- > Increased productivity through optional dual mixing system
- > High travel speed during dispensing

Dispensing Robot DR-CNC

Product Details

The DR-CNC is the ideal solution for all complex applications. Variable X-Y-Z strokes enable the three-dimensional dispensing of sealants, adhesives, and encapsulants. The DR-CNC is equipped with the highest standards in CNC technology to combine the

mixing and dispensing system with maintenance-free CNC linear axis. The result: best interplay of the metering process and axis motion sequences. The modular architecture of the CNC allows for simple and full integration into existing production control systems.



Work areas (details see chart)

X-axis		Y-axis		Z-axis	
X-stroke	Size B	Y-stroke	Size T	Z-stroke	Size H
500	1,630	500	1,920	300	2,200
750	1,880	750	2,420	500	2,400
1,000	2,280	1,000	2,930		
1,500	2,780	1,250	3,430		
2,500	3,760				
3,000	4,600				
3,650	5,300				
5,000	7,000				

Technical Data

Flow rate, mixing ratio, viscosity	depends on installed mixing system
Maximum travel speed	x,y = 60 m min ⁻¹ ; z = 24 m min ⁻¹
Repeatability	< 0.15 mm (ISO 9283)
NC controls	Siemens Sinumerik 840D SL
Dispensing programs	99
Power supply	400 V / 16–32A / 50Hz (60 Hz)
Power consumption	5.5–25 kW (depending on project size)
Compressed air supply	> 5 bar at max. 800 l min ⁻¹
Compressed air consumption	5–20 l min ⁻¹

Options (more upon request)

- > High-pressure rinse recycling system or high-pressure water rinsing system
- > Nucleation controller for air load controls
- > Material recirculation system and temperature controller
- > Automatic thin-film degassing for bubble-free casting
- > Various types of automation equipment available (rotary index tables, shuttle tables, conveyor lines, customized automation)
- > Individual process monitoring and visualization
- > 12" colour display, process data collection, interfacing to customers' PPS
- > Gantry axis for bigger work area
- > Up to 5 material components
- > Teachpendant HT8

RAMPF Production Systems GmbH & Co. KG

Römerallee 14 | 78658 Zimmern o.R. | Germany

T +49.741.2902-0

E production.systems@rampf-group.com

www.rampf-group.com