

Dispense Technic

# The Modular MARTIN Process Dispensers

Dispensing Systems for Automation

$\varnothing \geq 0.15 \text{ mm}$

**MARTIN**<sup>®</sup>  
Rework + Dispense Technic

# MARTIN Clever Dispens 04 and 05

## with Advanced-Time-Pressure Technology

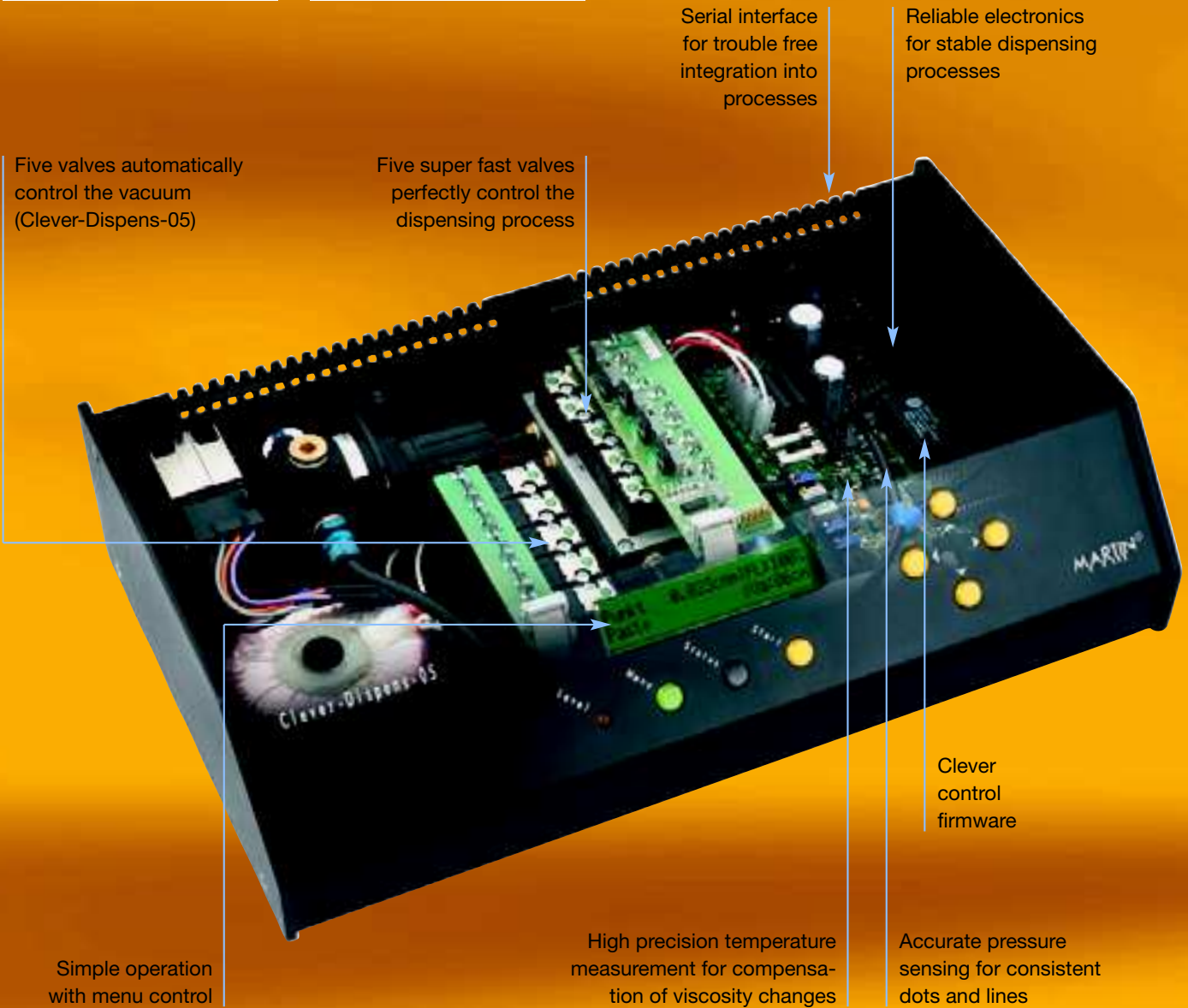
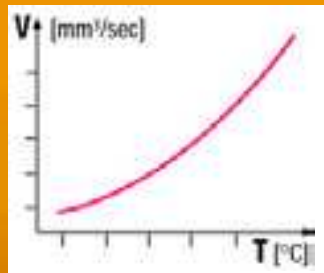
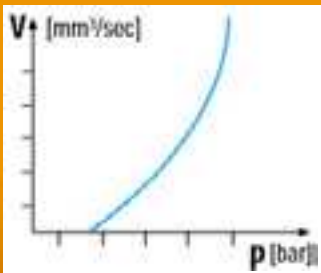
Advanced-Time-Pressure Technology is at the heart of MARTIN dispensing. With its ingenious compensation arrangements there is no comparison with conventional, relatively simple time pressure control. Expectations for ease of use and dispensing accuracy are more than exceeded. The aim is zero defect precision production and no stoppages.

### Uncomplicated and well proven

The consistency and precision of the dispensing results, using the patented Advanced-Time-Pressure Technology, is superior even to mechanical dispensers, such as screw displacement types. As great care has been taken to concentrate on the essentials, the equipment is more cost effective, has virtually no wear and is simple to maintain.

### Can be integrated into automatic processes

The modular structure of MARTIN dispensers allows their easy integration into automatic production equipment and lines. Please let our Applications Department advise in such cases.



Serial interface for trouble free integration into processes

Reliable electronics for stable dispensing processes

Five valves automatically control the vacuum (Clever-Dispens-05)

Five super fast valves perfectly control the dispensing process

Clever control firmware

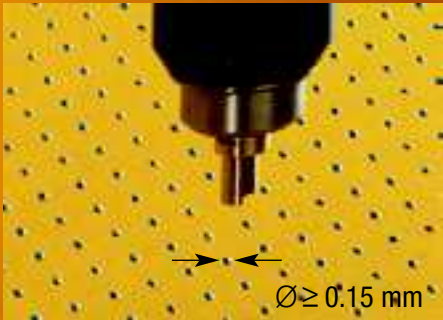
Accurate pressure sensing for consistent dots and lines

High precision temperature measurement for compensation of viscosity changes

Simple operation with menu control

# For reliable, simple and precise processes

Examples of applications that convince



## Solder Paste

- Gentle, Advanced-Time-Pressure Technology suitable for the most critical media such as solder paste.
- Dispensing without separation or damage to particles.
- Patented micro dispensing nozzles ensure consistent precision even for the smallest dots ( $\text{Ø} \geq 0.15 \text{ mm}$  diameter).



## Adhesives

- Highest precision, even for delicate conductive adhesives with relatively large particles.
- Trouble free precision processing of abrasive media.
- Dispenser head heating prevents 'stringing'.



## Potting Compounds

- Clever-Dispens 05 is especially suitable for media of a watery consistency.
- Consistent precision by automatic adjustment of suck back vacuum to current cartridge fill level.
- No dripping during rest periods.



## Manual Dispensing

- Thermally insulated pen handle for constant dispensing volumes.
- ESD protected.
- Suitable for cartridge sizes 3, 5, 10 and 30  $\text{cm}^3$ .
- Simple operation and all the advantages of cleaning and cartridge replacement.



## Uncomplicated Cartridge Change and Nozzle Cleaning

- No cleaning of spindles or other mechanical parts.
- Cartridge change within seconds.
- Solder paste in metal nozzle dispenses accurately after a few test dots, even when not used for some time.
- No blocked nozzles: practical cleaning set lets nozzles be attached and flushed through with cleaning spray.

# MARTIN Clever Dispens



CD-04

## Technical Details Clever Dispens 04 and 05

- Equipment size	200x348x90 mm	- Speed for	28 000 dots/h
- Dispensing volumes	0.001 – 10 mm <sup>3</sup>	- Speed for 3, 5, 10 and 30 cm <sup>3</sup> cartridges	
- Dispensing pressures	0.1 – 5.0 bar	- Speed for 340 cm <sup>3</sup> cartridge	10 000 dots/h
- Dispensing media	water to solder paste	(with double PN module)	
- Viscosity number	0.1 – 10	- Machine control	with opto coupler
- Temperature compensation	10 – 50°C	- Serial interface	optional extra
- Fill level compensation	all cartridge sizes		



CD-05

## Additional Functions Clever Dispens 05

- Suck back vacuum 1-380 mm  
self learning  
self regulated



## Technical Details Dispensing Pen

- Cartridge types 3, 5, 10, 30 cm<sup>3</sup>
- Pen Thermally insulated  
with temperature sensor

## Technical Detail Dispensing Head

- Cartridge types 3, 5, 10, 30, 340 cm<sup>3</sup>
- Heating 20 - 50°C
- Height sensor optional extra

## Options

### Height Sensor Module

For 3D-MIDs



3D-MID

### Cartridge Cooling Module

For 10°C temperature reduction



### Media Module

For special adhesives.

Also for 2 component versions



### Double PN Module

For very large cartridges (340 cm<sup>3</sup>)



## Consumables



In addition to consumables, such as nozzles, dispensing tips, and cartridges, solder pastes and adhesives are also available from MARTIN.

# MARTIN®

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