



MUSASHI  
ENGINEERING, INC.

Fully digital controlled dispenser

Super  $\Sigma$  CM III<sup>TM</sup>

NEW



PAT.

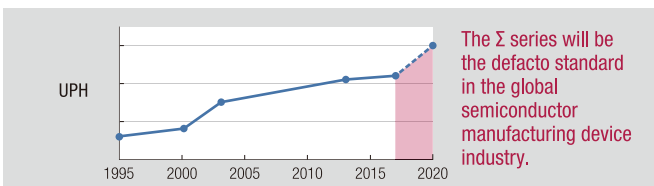


The ultimate air-pulse system

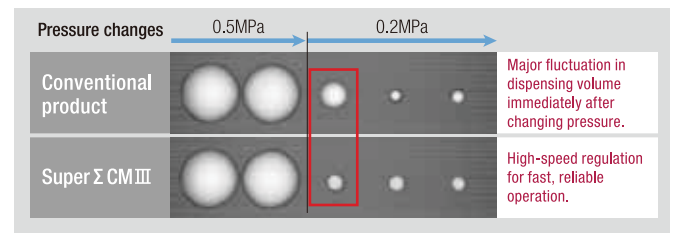
# Ultra-reliable dispensing with faster cycle time and smaller size

Contributing to even higher throughput and yield.

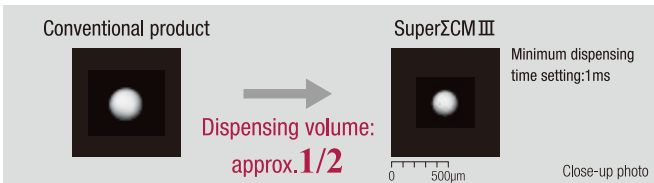
Delivering higher throughput for the global semiconductor manufacturing device industry.



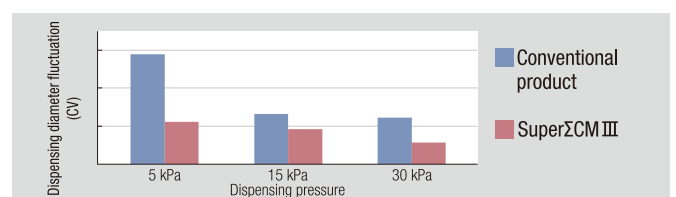
Better coverage of pressure changes.



Delivering even smaller micro-dispensing.



Better reliability for low-viscosity liquid materials.



Applications



Ag paste dispensing for die bonding

Dust trapping agent dispensing on camera modules

Conductive Ag paste dispensing on touch panels

Greater performance with the  $\Sigma$  3 major functions

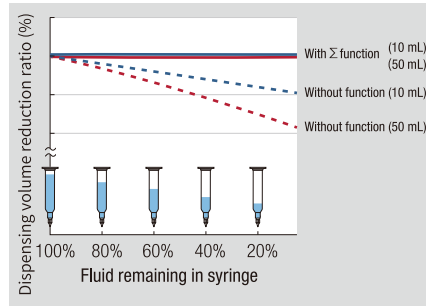
Automatic correction of volume reduction, automatic vacuum correction, automatic low fluid alarm

Better durability and easier maintenance

# “Σ 3 major functions” help to increase yield and contribute to a smarter production line

## Function 1 Automatic correction of volume reduction

Correction of reduction in dispensing amount caused by the effects of decreased syringe volume. Delivers reliable, high-precision dispensing throughout the entire syringe.

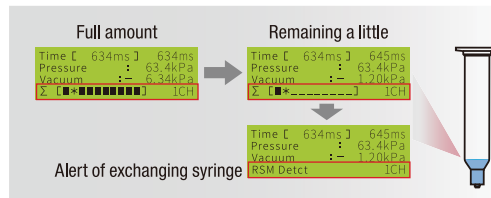


## Function 2 Automatic vacuum correction

Constantly maintains the optimum vacuum level automatically for more reliable dispensing precision.

## Function 3 Automatic low fluid alarm

Constantly detects and monitors the remaining fluid level in the syringe with a high level of precision.



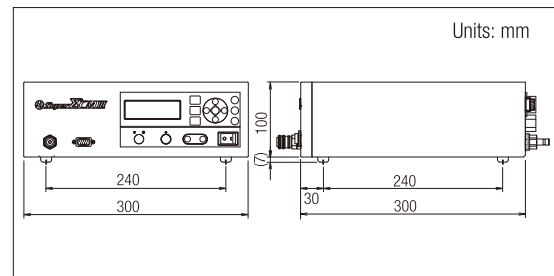
Equipped with **SuperΣCMIII**  
Fully automatic dispensing machine



## Specifications

Product name		Fully digital controlled dispenser	
Model	S-SIGMA-CM3-V5	S-SIGMA-CM3-V2	
Dispensing system	Air-pulse system		
Control system	Micro-computer controlled electronic-pneumatic system		
Dispensing modes	TIMED/MANUAL mode		
Dispensing pressure setting range	0.030 to 0.500 MPa	0.005 to 0.200 MPa	
Dispensing time setting range	0.001 to 9999.999 s		
Vacuum pressure setting range	-0.020 to 0 MPa		
Main functions	Automatic correction of volume reduction, automatic fluid-drip prevention, automatic remaining, volume alert, alpha (α) correction, delta (δ) correction, vacuum pressure correction, remaining volume display correction, dispensing shot counter, stopwatch, Japanese-English display switch, source pressure error, exhaust error, vacuum pressure error, solenoid valve error, solenoid valve alarm		
Channel number	100 CH		
RS-232C serial communication	Available		
Input signals	Dispense, channel switching, dispensing mode switching, channel preset, channel specification, channel step		
Output signals	Ready, dispensing completion, in-dispensing, in-dispensing cycle, solenoid valve alarm, error, remaining volume alert, power on		
Rated power supply and frequency	AC100-240 V 50/60 Hz		
Power consumption	30 W		
Conformity standards	CE-marking (Low Voltage Directive, EMC Directive) EU RoHS		
Dimensions W×D×H	W300×D300×H100 mm		
Weight	5.8 kg		

## External Dimensions



## SuperΣXIII Light specification version



Note: contact Musashi Engineering if syringes or cartridges exceeding 70 mL need to be used.

**Safety precaution**  
Make sure to read the instruction manual before you use the unit, for your safety.

\* We reserve the right to change the specifications without notice.  
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MUSASHI ENGINEERING, INC. is certified and registered according to ISO14001 ENVIRONMENTAL MANAGEMENT.



<http://www.musashi-engineering.co.jp/english/>

**World Leading Dispenser**  
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