

# MEGA SD200 & MP200

SLURRY/CHEMICAL DISPENSE POINT-OF-USE CARTS FOR USE IN SEMICONDUCTOR, SOLAR, AND EMERGING MANUFACTURING APPLICATIONS

- Flexible: tank or carboy dispense for development or R&D processing, variable dispense flow and pressure control, with or without mechanical mixing
- Configurable: meets process and factory specifications
- Reliable: CDA (or N2) driven, manual slurry flow control and condition, with all critical pressures monitored on the control panel for “at a glance” review

## SYSTEM OVERVIEW

The Mega SD200 and MP200 are manually controlled slurry and chemical dispense carts for point-of-use evaluation in a fab or lab.

The MP200 Chemical Cart Chemical accepts 10-20L carboys for internal raw material supply with a 100L tank for dispense to customer point-of-use. The SD200 Slurry Cart utilizes an external drum supply stand for raw material supply with a 56L tank for slurry dispense to the Polisher.




## KEY FEATURES

- Polypropylene cart
- Pump dispense & pulse dampener
- All pneumatically controlled
- Single filter
- Isolation valves
- Manual backpressure control through local recirculation
- Local loop pressure indication
- Dispense line pressure indication
- Manual drain valve
- Lockout/Tagout pneumatic supply isolation

## MARKETS SERVED

- Semiconductor
- Post-CMP
- Solar/PV
- Low-solids CMP
- LEDs
- ECD

## BENEFITS

- Accepts supply from carboys (MP200) or drum stand (SD200)
- Safety circuit included with EMO
- Portable cart format with locking foot for temporary stable placement
- CDA and dispense connections co-located for ease of access
- CE certified 

### TYPICAL FACILITY REQUIREMENTS

Utility	Average Capacity	Maximum Capacity	Connection Type
CDA/OFA Supply	90 psi 13 SCFM	100 psi 15.5 SCFM	1/2" SS FNPT Connection
GN2	90 psi 0.1 SCFM	100 psi 6.5 SCFM	1/2" SS FNPT Connection
DI Water	As required	As required	1/2" Flare PFA
Exhaust	40.5CFM @ -1" H2O	60.7 CFM @ -1" H2O	3" 150# flange pattern

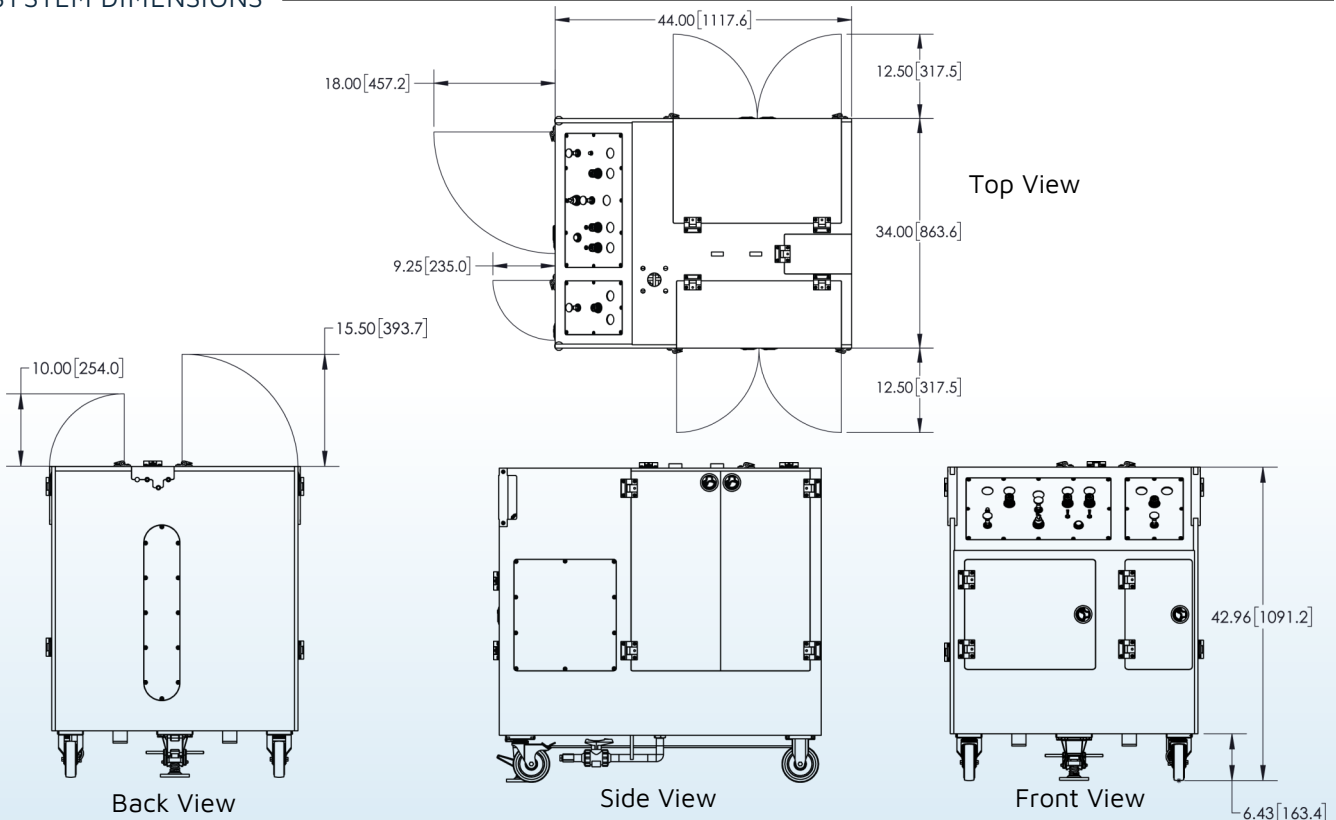
### CONTROL SYSTEM

- Keyed bypass for doors to allow internal access while tool is dispensing.
- Mixer and pump can be operated independently and monitored from panel.

### SAFETY FEATURES

- Pneumatic EMO
- Pneumatic leak detection
- Keyed interlock bypass
- Pneumatic door interlocks

### SYSTEM DIMENSIONS



### SYSTEM CAPABILITY

Specification	Capability
Dispense Flow Rate	Up to 20 LPM at 0.3 MPa (5.3 GPM @ 48 PSIG)*
Availability	> 99.9%**
MTBF	> 4,000 hours**
MTTR	< 1.0 hour

\* Flowrate dependent upon actual customer setting of backpressure control system.

\*\* Specifications will vary depending on application and configuration. Reliability figures represent typical performance.

### SYSTEM DIMENSIONS

Dimension	Measurement in inches (mm)	Measurement with Doors Open
Height	42.96 (1091.2)	58.46 (1484.9)
Length	44.0 (1117.6)	62.0 (1574.8)
Depth	34.0 (863.6)	59.0 (1498.6)