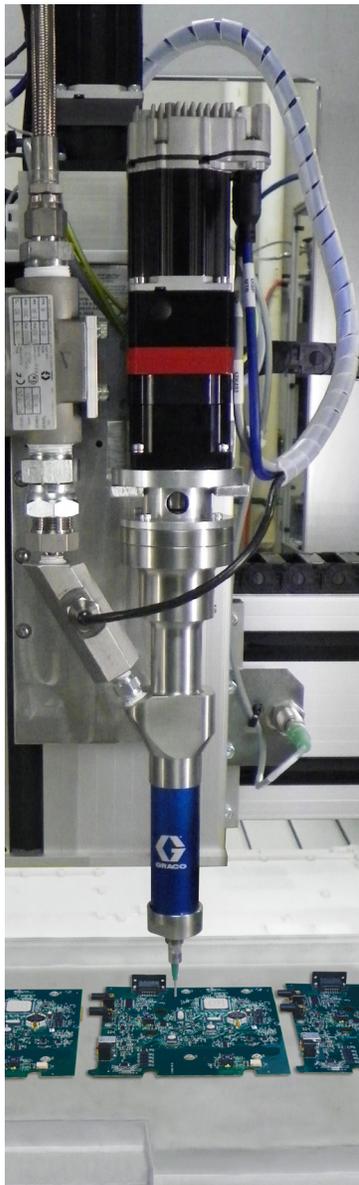


Graco Progressive Cavity (PC) Pump



The Graco PC pump in use at a major electronics supplier

Ideal for moving medium to high viscosity materials that are filled with abrasive compounds such as glass beads, glass balloons and metallic or organic fillers (quartz, aluminum oxide and titanium oxide).

The PC pump consists of a rotor and stator that create sealed cavities for the material to flow through. As the rotor revolves inside the stator, the material is rotated through the sealed cavities in a consistent, continuous flow allowing the material to be pushed rather than squeezed, therefore not damaging the fillers needed for your application.

KEY FEATURES + BENEFITS

- Positive displacement technology
 - Continuous, volumetric dispense with high repeatability (±) 1% over entire material pot life, eliminating need for weight measurements and increasing throughput
- Wide range of adjustable flow rates
 - Allowing for process flexibility, with higher productivity and throughput
- Wear resistant and low maintenance
 - Minimal pump downtime and fewer spare part requirements
- Direct feed from 1 qt (0.95 l) or 1 gal (3.79 l) pails
 - Compact design to save on space requirements

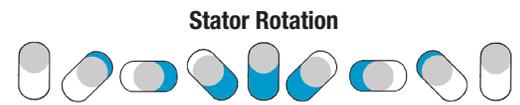
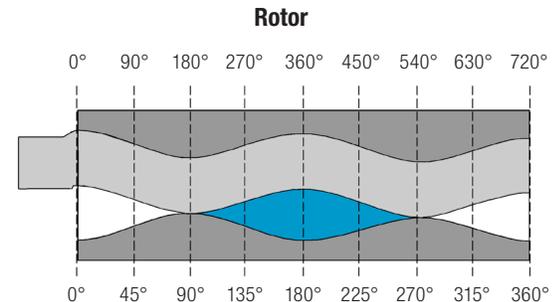
APPLICATIONS

- Bead dispense
- LED encapsulation
- Coating of electronic components
- Sealing
- Dosing and metering
- Filling
- Underfill

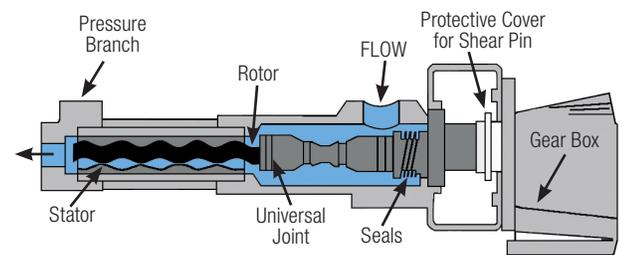
MATERIALS

- Thermal Interface Materials (TIM)
- Epoxy resin adhesives
- Solder paste
- Flux
- Grease
- Silicones

HOW IT WORKS



■ Material



Size	Displacement (cc/rev)	Min Speed (RPM)	Max Speed (RPM)	Min Flow (cc/sec)	Max Flow (cc/sec)	Min Flow (cc/min)	Max Flow (cc/min)	Max Inlet Pressure (PSI)	Max Operating Pressure (PSI)
1	0.01	1	150	0.000	0.03	0.01	1.5	87	145
1	0.05	1	150	0.001	0.13	0.05	7.5	87	145
1	0.15	1	150	0.003	0.38	0.15	22.5	87	145
2	0.30	1	400	0.005	2.00	0.30	120.0	116	290
2	1.00	1	400	0.017	6.67	1.00	400.0	116	290
2	2.00	1	400	0.033	13.33	2.00	800.0	116	290
3	4.00	1	400	0.067	26.67	4.00	1600.0	116	290

**All specification and rates are subject to change based on material and application settings.

Graco DynaMite™ 190 Pump Single Component Mini Extruder

DynaMite 190 is ideal for dispensing viscous materials from small containers.

FEATURES

- Transfers viscous material from its original 1qt (0.95 l) or 1 gal (3.79 l) source
- Air driven with 12:1 power factor
- Stainless steel construction
- 5cc per stroke displacement
- Compact and lightweight
- Highly precise fluid delivery
- Built tough for rugged conditions



UniXact Precision Dispense Solutions

The Graco UniXact Precision Dispense Solutions provide a fully automated dispensing system that combines proven Graco dispensing technologies; intuitive, easy-to-use Graco proprietary software; and XYZ Cartesian motion.

Our expert sales team and application engineers will work with you to understand your specific application to design a system that improves throughput and takes the risk out of your production process. Your solution will be designed with your process in mind, developed with your input and tested in our lab.

FEATURES

- Easy and intuitive on-board operator controls
- 22 kg load capability
- 200 mm/s point to point; 100 mm/s dispense speed
 - Material & application dependent
- Repeatability of the machine is ± 0.01 mm (0.0004 in)
- Accuracy is ± 0.1 mm/300 mm (± 0.004 in/12 in)
- 3D contouring dispense capability
- Servo drive motors for X, Y, Z and dispense axis (theta)
- Ball screw drives with linear guide bearings
- Needle feature options
 - Automatic needle calibration and clean
- Customizable mounting plates and nesting
- Optional Y slides to decrease cycle time
- Light curtain, guarding, and safety interlock system
- Real-time process monitoring with data download
- Proprietary Graco software with easy to use interface
- Store hundreds of programs onboard
- Off-line programming feature
- DXF upload for fast programming
- Communication port for process data

MOTION PLATFORM

UniXact C300 Model

Overall dimensions:

Width: 37 in (939 mm)
Height: 75 in (1905 mm)
Depth: 41 in (1041 mm)

Work piece area:

X: 10 in (254 mm)
Y: 10.88 in (277 mm)
Z: 2.75 in (70 mm)

UniXact C500 Model

Overall dimensions:

Width: 47 in (1200 mm)
Height: 79 in (2000 mm)
Depth: 47 in (1200 mm)

Work piece area:

X: 20 in (500 mm)
Y: 20 in (500 mm)
Z: 6 in (150 mm)



UniXact C300 Model