CARLISLE FLUID TECHNOLOGIES

AUTOMOTIVE PRODUCT CATALOG

Smart Solutions for Automotive Sealant and Adhesive Applications

Behind the *Binks* brand

To provide the strongest, smartest solutions for sealants and adhesives applications, Carlisle Fluid Technologies brought together and integrated the strengths of several names you may recognize.

***Binks*®** — the experts in pumping fluids for more than a century

Integrated Dispense Solutions (IDS) — precision automated fluid dispensing since 2014 (acquired in 2019)

***Ecco*™ Finishing** — paint equipment and sealing applicators since 1931 (acquired in 2019)

Shinhang — sealer and mastic dispensing in the Asian marketplace since 1996 (acquired in 2019)

Today, all of this experience comes together under the *Binks* brand from Carlisle Fluid Technologies. Our team has the industry experience, process expertise and product design know-how to support integrators, OEMs and tier suppliers. Our global Sealant & Adhesive Solutions team members span 15 to 35 years of experience in the dispense industry and are excited to work with you to deliver the consistency, quality and versatility you demand.

Innovation *Applied*

Consistency

Every 80 milliseconds, our smart, adaptive i-Flow control architecture automatically adjusts to any changes in the material viscosity due to fluctuations in the plant temperature, age of the material and applicator tip wear. As a result, costly material heating equipment often isn't needed, even with the most-abrasive and highest-viscosity materials that are seen in the automotive industry today.

Quality

Your customers demand more of your vehicles, and you demand more of your processes and equipment suppliers. Built with you in mind, the i-Flow offers multiple control methods to dispense at the:

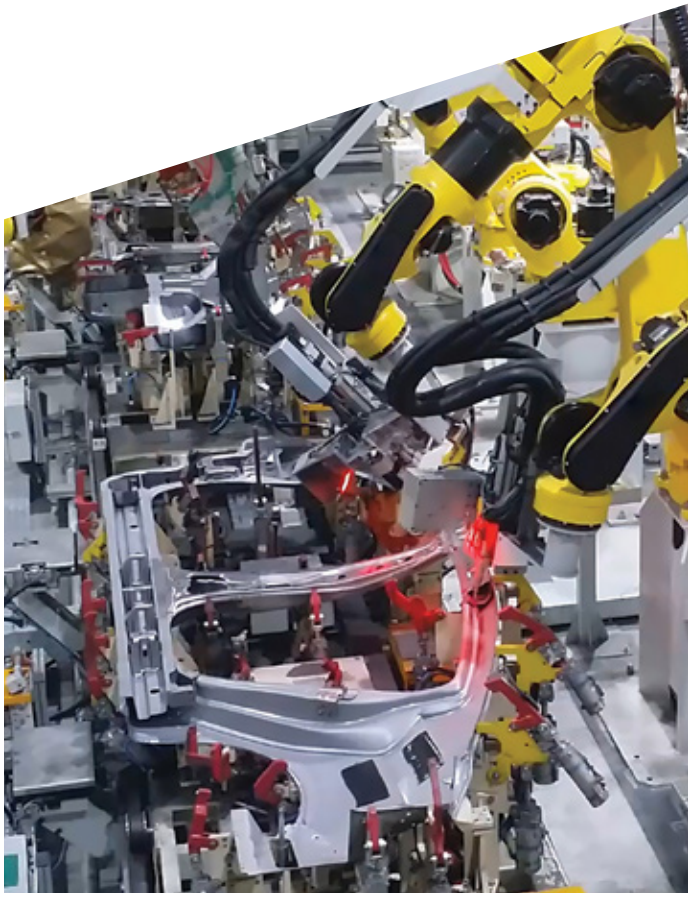
- Operator-selected pressure — dispensing until the desired volume is achieved
- Selected pressure (internal or external command)
- Selected flow rate (internal or external command), with the material's flow rate through the orifice monitored and updated every 80 milliseconds

Thanks to the consistent bead control and dispensing volumes from our system, customers have:

- Achieved high first-time pass rates
- Eliminated squeeze-out issues
- Greatly reduced material waste and rework costs and countless other benefits

Versatility

The i-Flow is capable of controlling every combination of our shot meters, applicators and other equipment — from the smallest gun to the largest shot meter — with either one or two systems at a time. With the i-Flow at its core, this flexible system can be installed on new assembly lines or retrofitted to existing robots — making it a perfect fit for the myriad applications found throughout the stamping/body shop, paint shop, battery, powertrain line, final assembly and Tier 1 and Tier 2 lines.



i-Flow™

The brains behind our system

Our engineers created the unique “brain” that drives our system’s precise application and revolutionary control. At the core of every *Binks*® automotive dispense system is the flagship i-Flow controller. This innovative approach to process management delivers equipment that will automatically maintain quality and repeatability over wider process windows than our competition.

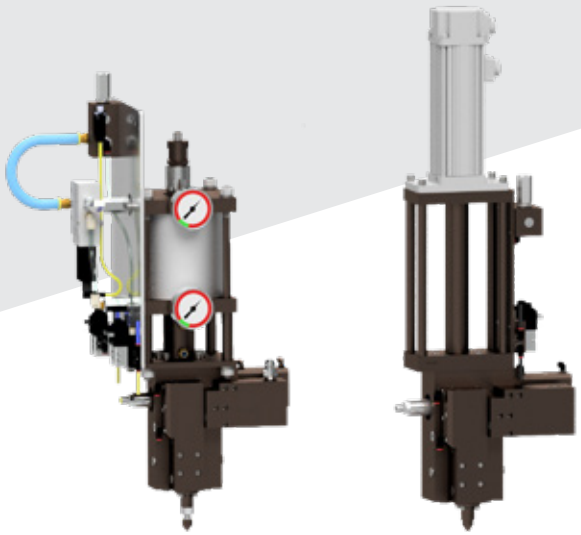
We’ve listened to our customers. The automotive industry asked for an affordable dispense system that delivers quality processes day in and day out while being simple to set up, understand and maintain. That’s the unique advantage our i-Flow controller delivers.

Shot Meters

We have a full range of shot meters to meet the needs of your 1K and 2K lines. All of our shot meters are powered by i-Flow dispense technology, where one controller can drive any two of our shot meters.

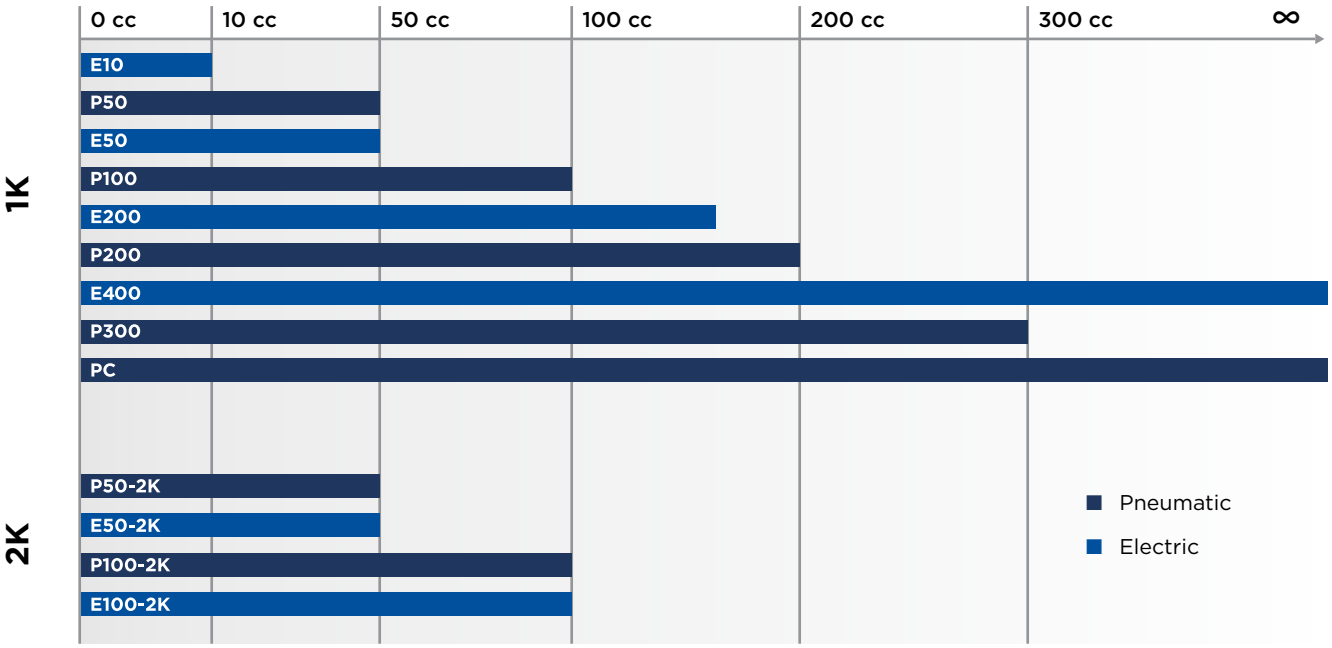
With *Binks* shot meters, the pump pressure does not affect the bead size. The pump is only required to refill the shot meter. Instead, the dispense pressure is developed within the shot meter's air cylinder or electric servo.

Because the controller and shot meter are in continual communication, the system delivers consistent, precision application of materials.



E50 and P50 shown

Binks Shot Meters



Electric Shot Meters

Features/Benefits

- Unrivaled performance with dispense rates over 80 cc/second and pressures up to 4500 psi (300 bar) offering consistent delivery of difficult materials at high speeds to meet increasing cycle time demands
- High-accuracy servo positioning tools result in a shot meter that delivers extremely fine levels of fluid control, the same incredibly high flow rates and pressures across the product line and near-instantaneous control of beads
- Optimized flow paths minimize pressure losses and reduce shear — improving safe operation and minimizing material degradation
- Robust design and construction reduces maintenance and downtime
- Common components across product line — improving serviceability and spare parts carrying costs

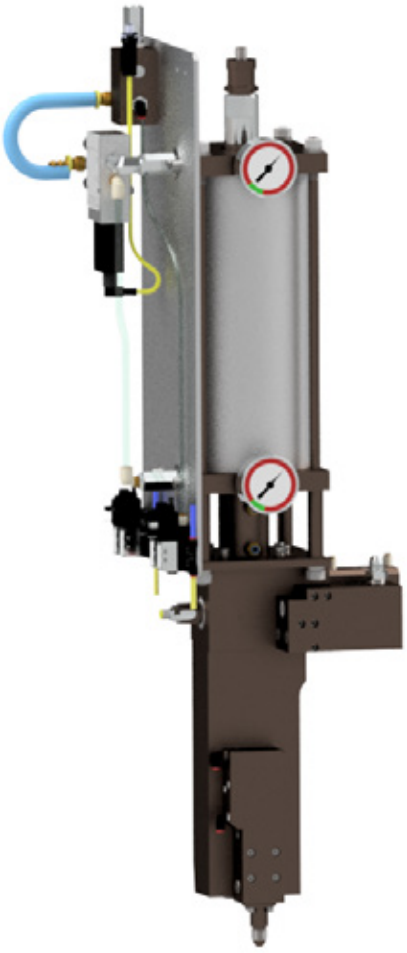
	E10	E50	E200	E400
Part Number	25-0497	5C00000A		
Specifications				
Usable Displacement	10 cc	50 cc	200 cc	400 cc
Flow Rate Range	up to 10 cc/sec*	up to 30 cc/sec*	up to 30 cc/sec*	up to 90 cc/sec*
Minimum Volume Measurement	0.2 cc	1.0 cc	2.0 cc	0.1 cc
Recommended Incremental Volume	0.1 cc	0.1 cc	0.1 cc	0.1 cc
Length	5.29 in / 134.3 mm	5.53 in / 140.5 mm	5.19 in / 131.8 mm	8.82 in / 224.0 mm
Width	11.19 in / 284.2 mm	12.47 in / 316.7 mm	13.41 in / 340.6 mm	14.16 in / 359.7 mm
Height	27.88 in / 708.2 mm	35.48 in / 901.2 mm	44.75 in / 113.6.7 mm	47.8 in / 1214.4 mm
Weight	31.4 lbs / 14.2 kg	50 lbs / 22.7 kg	69.7 lbs / 31.6 kg	96.3 lbs / 43.7 kg
Material Outlet				
Material Outlet Diameter Excluding Dispense Valve & Tip	0.5 in / 12.7 mm	0.5 in / 12.7 mm	0.5 in / 12.7 mm	0.5 in / 12.7 mm
Max Allowable Pressure	5000 psi / 345 bar	4350 psi / 300 bar	4350 psi / 300 bar	2500 psi / 206 bar
Material Inlet				
Material Inlet Diameter	3/8 in NPT	1/2 in NPT	1/2 in NPT	1/2 in NPT
Supply Pressure Range	4000 psi / 275 bar	4000 psi / 275 bar	4000 psi / 275 bar	4000 psi / 275 bar
Filling Flow Rate Range	up to 10 cc/s	up to 30 cc/s	up to 30 cc/s	up to 90 cc/s
Air Requirements				
Air Supply Pressure	80 psi / 5.5 bar	80 psi / 5.5 bar	80 psi / 5.5 bar	80 psi / 5.5 bar
Air Supply Diameter	0.37 in / 9.5 mm	0.37 in / 9.5 mm	0.37 in / 9.5 mm	0.37 in / 9.5 mm
Electrical Requirements				
Rated Voltage	220V	220V	220V	220V
Rated Amperage	6.0A	6.0A	6.0A	6.0A

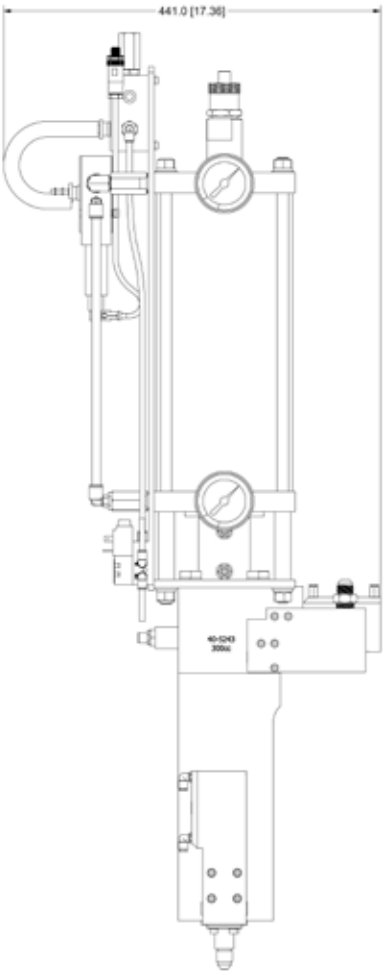
* Maximum flow rate dependent on material viscosity

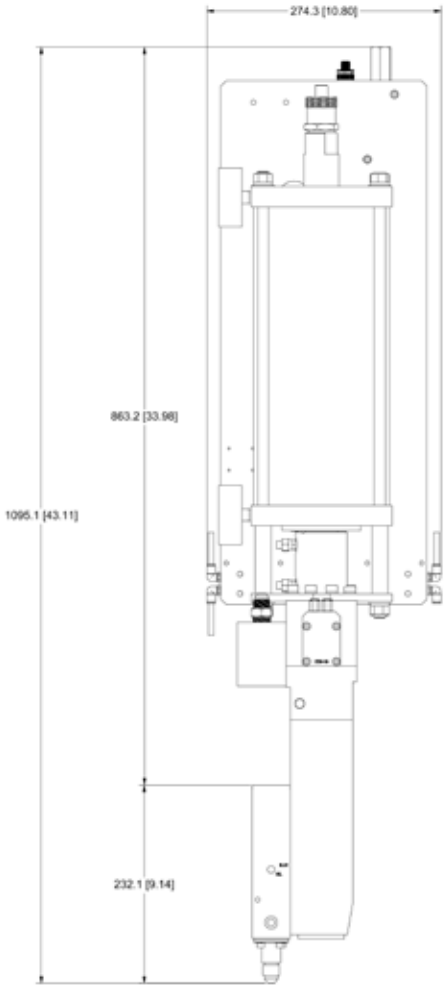
Pneumatic Shot Meters

Features/Benefits

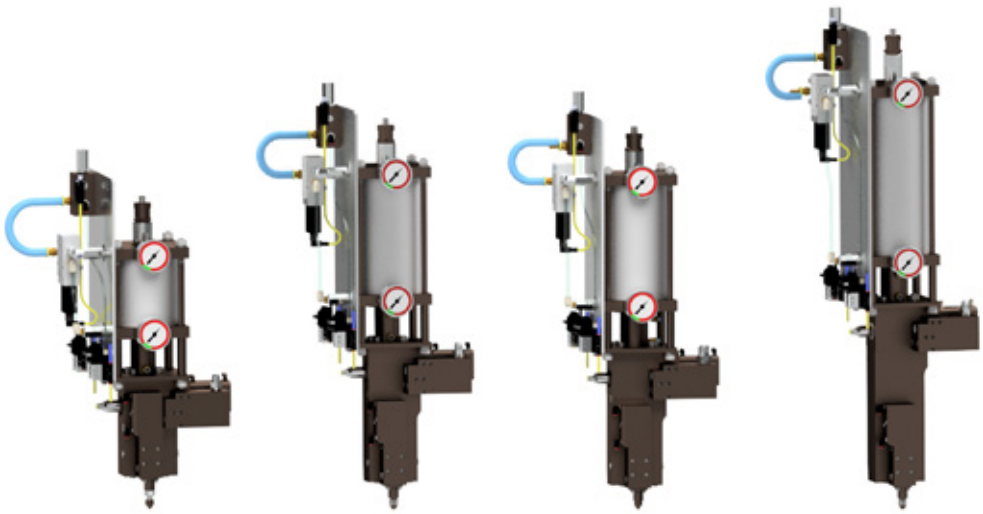
- Dispense rates over 80 cc/second offer consistent delivery of difficult materials at high speeds to meet increasing cycle time demands
- 50-millisecond system response times offer near-instantaneous control of beads
- Bi-directional movement of the pneumatic drive eliminates snakeheads and/or tails at the beginning and end of beads
- Ultra-fine positional control of the pneumatic drive results in extremely high accuracy
- Optimized flow paths minimize pressure losses and reduce shear, improving safe operation and minimizing material degradation
- Durable design and construction reduces maintenance and downtime
- Common components across product line improve serviceability and spare parts carrying costs







P300 model shown



	P50	P100	P200	P300
Part Number	25-0496	25-0491	25-0492	25-0498
Specifications				
Displacement	50 cc	100 cc	200 cc	300 cc
Flow Rate Range	up to 40 cc/sec*	up to 40 cc/sec*	up to 80 cc/sec*	up to 80 cc/sec*
Recommended Incremental Volume	1 cc	1 cc	2 cc	2 cc
Length	10.8 in / 274.3 mm	19.77 in / 273.6 mm	10.17 in / 258.3 mm	10.8 in / 274.3 mm
Width	17.80 in / 452.0 mm	17.41 in / 442.3 mm	17.38 in / 441.4 mm	17.36 in / 440.9 mm
Height	29.38 in / 746.3 mm	35.56 in / 903.2 mm	35.32 in / 897.2 mm	35.63 in / 904.9 mm
Weight	49 lbs / 22.2 kg	69 lbs / 27.3 kg	63 lbs / 28.6 kg	70 lbs / 31.8 kg
Material Outlet				
Material Outlet Diameter	0.31 in / 8 mm	0.31 in / 8 mm	0.58 in / 14.7 mm	0.58 in / 14.7 mm
Max Allowable Pressure	5000 psi / 345 bar	5000 psi / 345 bar	3500 psi / 241 bar	3500 psi / 241 bar
Material Inlet				
Material Inlet Diameter	0.5 in NPT / 12.7 mm	0.5 in NPT / 12.7 mm	0.5 in NPT / 12.7 mm	0.5 in NPT / 12.7 mm
Supply Pressure Range	4000 psi / 275 bar	4000 psi / 275 bar	4000 psi / 275 bar	4000 psi / 275 bar
Filling Flow Rate Range	5 to 30 cc/sec	5 to 30 cc/sec	5 to 30 cc/sec	5 to 30 cc/sec
Air Requirements				
Air Supply Pressure	220 psi / 15 bar	220 psi / 15 bar	220 psi / 15 bar	220 psi / 15 bar
Air Supply Diameter	0.5 in / 12.7 mm	0.5 in / 12.7 mm	0.5 in / 12.7 mm	0.5 in / 12.7 mm

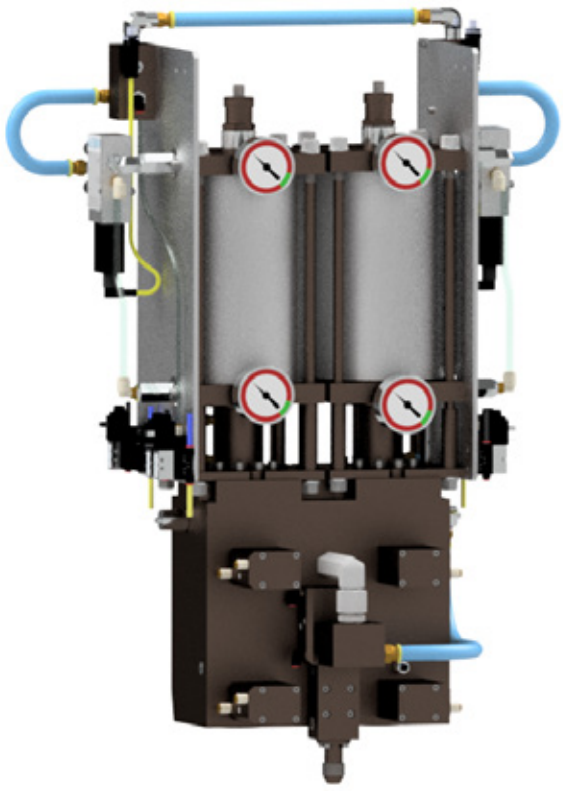
* Maximum flow rate dependent on material viscosity

ConFlow Shot Meter

Features/Benefits

- Dispense unlimited volumes of materials with our Continuous Flow (ConFlow) Shot Meter
- Dispense rates over 120 cc/second offer consistent delivery of difficult materials at ultra-high speeds to meet increasing cycle time demands
- Software-linked drives ensure constant flow rates without pressure winks
- Bi-directional movement of the pneumatic drives eliminate snakeheads and/or tails at the beginning and end of beads
- 50-millisecond system response times offer near-instantaneous control of beads
- Optimized flow paths minimize pressure losses and reduce shear, improving safe operation and minimizing material degradation
- Durable design and construction reduces maintenance and downtime
- Common components across product line improve serviceability and spare parts carrying costs

	PC
Part Number	25-0494
Specifications	
Displacement	∞
Flow Rate Range	up to 120 cc/sec*
Recommended Incremental Volume	2 cc
Length	14.16 in / 359.7 mm
Width	26.77 in / 679.9 mm
Height	35.63 in / 904.9 mm
Weight	185 lbs / 83.9 kg
Material Outlet	
Material Outlet Diameter	0.58 in / 14.7 mm
Max Allowable Pressure	3500 psi / 241 bar
Material Inlet	
Material Inlet Diameter	0.5 in NPT / 12.7 mm
Supply Pressure Range	4000 psi / 275 bar
Filling Flow Rate Range	5 to 30 cc/sec
Air Requirements	
Air Supply Pressure	220 psi
Air Supply Diameter	0.5 in / 12.7 mm



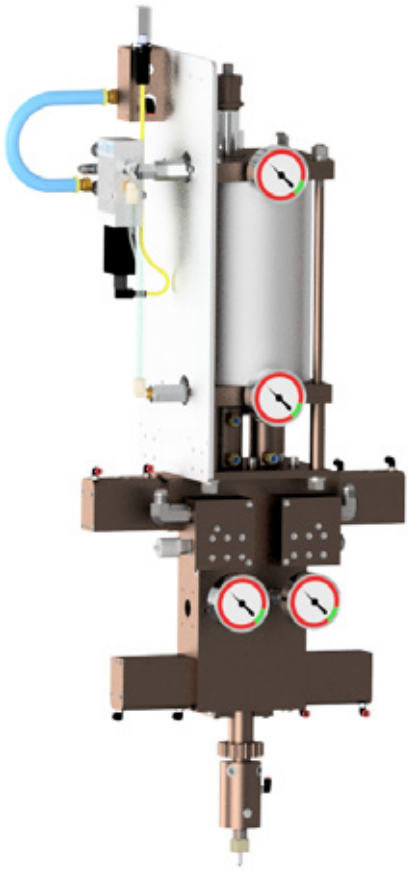
* Maximum flow rate dependent on material viscosity

2K Pneumatic Shot Meters

Features/Benefits

- Dispense rates over 20 cc/second offer consistent delivery of difficult materials at high speeds to meet increasing cycle time demands
- A single cylinder drives linked plungers through specially machined cavities, providing perfect mix ratios of 1:1, 2:1 and 4:1 every time
- Proprietary mixing tube designs ensure proper mixing of components while saving space
- 50-millisecond system response times offer near-instantaneous control of beads
- Bi-directional movement of the pneumatic drive eliminates snakeheads and/or tails at the beginning and end of beads
- Optimized flow paths minimize pressure losses and reduce shear, improving safe operation and minimizing material degradation
- Durable design and construction reduces maintenance and downtime
- Common components across product line improve serviceability and spare parts carrying costs

	P50-2K	P100-2K
Part Number	25-0495	25-0601
Specifications		
Ratio	1:1, 2:1, 4:1 (fixed)	1:1, 2:1, 4:1 (fixed)
Displacement	50 cc	100 cc
Flow Rate Range	up to 20 cc/sec*	up to 20 cc/sec*
Recommended Incremental Volume	1 cc	1 cc
Length	10.77 in / 273.6 mm	10.77 in / 273.6 mm
Width	17.81 in / 452.3 mm	17.81 in / 452.3 mm
Height	35.56 in / 903.2 mm	35.56 in / 903.2 mm
Weight	54 lbs / 29 kg	74 lbs / 33.5 kg
Material Outlet		
Material Outlet Diameter	2X 0.19 in / 5 mm	2X 0.19 in / 5 mm
Max Allowable Pressure	2200 psi / 152 bar	2200 psi / 152 bar
Material Inlet		
Material Inlet Diameter	0.5 in NPT / 12.7 mm	0.5 in NPT / 12.7 mm
Supply Pressure Range	4000 psi / 275 bar	4000 psi / 275 bar
Filling Flow Rate Range	5 to 30 cc/sec	5 to 30 cc/sec
Air Requirements		
Air Supply Pressure	220 psi / 15 bar	220 psi / 15 bar
Air Supply Diameter	0.5 in / 12.7 mm	0.5 in / 12.7 mm



P100-2K model shown

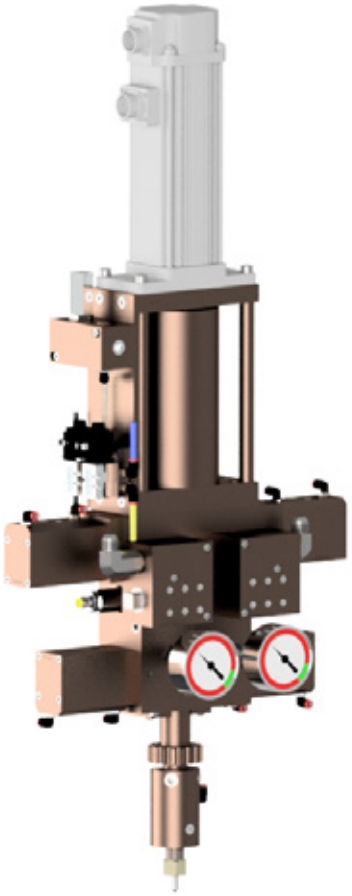
* Maximum flow rate dependent on material viscosity

2K Electric Shot Meters

Features/Benefits

- Dispense rates over 20 cc/second offer consistent delivery of difficult materials at high speeds to meet increasing cycle time demands
- A single servo drives linked plungers through specially machined cavities, providing perfect mix ratios of 1:1, 2:1 and 4:1 every time
- Proprietary mixing tube designs ensure proper mixing of components while saving space
- 50-millisecond system response times offer near-instantaneous control of beads
- Bi-directional movement of the servo drive eliminates snakeheads and/or tails at the beginning and end of beads
- Common components across product line improve serviceability and spare parts carrying costs

	E50-2K	E100-2K
Part Number	25-0602	25-0603
Specifications		
Ratio	1:1, 2:1, 4:1 (fixed)	1:1, 2:1, 4:1 (fixed)
Displacement	50 cc	100 cc
Flow Rate Range	up to 20 cc/sec*	up to 20 cc/sec*
Recommended Incremental Volume	1 cc	1 cc
Length	7.08 in / 179.9 mm	7.08 in / 179.9 mm
Width	15.76 in / 400.2 mm	15.76 in / 400.2 mm
Height	35.7 in / 906.9 mm	40.97 in / 1040.7 mm
Weight	70 lbs / 31.8 kg	80 lbs / 36.2 kg
Material Outlet		
Material Outlet Diameter	2X 0.19 in / 5 mm	2X 0.19 in / 5 mm
Max Allowable Pressure	2200 psi / 152 bar	2200 psi / 152 bar
Material Inlet		
Material Inlet Diameter	0.5 in NPT / 12.7 mm	0.5 in NPT / 12.7 mm
Supply Pressure Range	4000 psi / 275 bar	4000 psi / 275 bar
Filling Flow Rate Range	5 to 30 cc/sec	5 to 30 cc/sec
Air Requirements		
Air Supply Pressure	220 psi / 15 bar	220 psi / 15 bar
Air Supply Diameter	0.5 in / 12.7 mm	0.5 in / 12.7 mm
Electrical Requirements		
Rated Voltage	220V	220V
Rated Amperage	5A	5A



E50-2K model shown

* Maximum flow rate dependent on material viscosity

Binks® Ram Units

The new range of Ram Units from *Binks* offers a reliable and higher performance solution for the delivery of medium and high viscosity materials. *Binks* Ram Units provide the ideal delivery solution for materials such as lubricants, mastics, adhesives, epoxies and sealants. They deliver a constant, low pulse flow of materials to the dispensing tool by ensuring correct priming of the pump and preventing material cavitation.

Complete Ram Units include an easy-use pneumatic control box with up/down switch, auto shut off when the container is empty and a release valve to break the suction seal when lifting the ram plate clear of the used material. Optional extras include an automatic changeover switch for use with two Ram Units.

- Wide choice of pump ratios from 8:1 to 60:1 (ball check) and 5:1 to 68:1 (chop check)
- Patented *Binks* low-ice motors provide non-stop performance
- Pump rod and packings last up to 3X longer than the competition
- Stainless Steel pump fluid section as standard

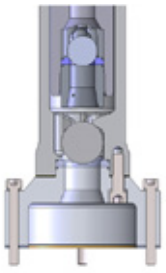
Binks Air Motor Design

- Proven, used throughout entire *Binks* product line
- Magnetic detent air valve eliminates “hammer failure” and allows for quick direction change and lower pulse
- Shared design with Maple pump line
- Simple, easy to maintain

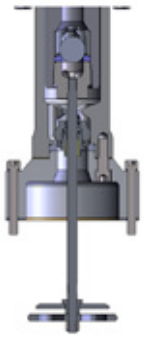
Fluid Section Design

Binks Standard Ram Pumps

- Shares many technologies with *Binks* paint pumps, including the patented *Binks* stepped rod design that eliminates the cylinder as a wear item
- An extended packing depth increases upper packing life expectancy



Double Ball Check

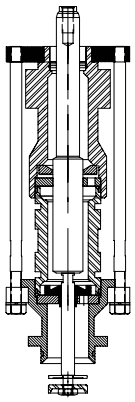


Chop Check

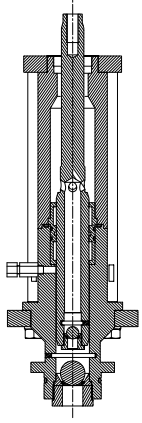
- Hardened wear components in critical areas, including nitrided steel and ceramic-coated stainless steel piston rod options

Binks HV Ram Pumps

- Newly added to the Carlisle offering are two additional fluid sections, designed specifically for high viscosity materials, particularly those found in auto body shops. These pumps are available in both ball check and chop check variations.
- Due to tight internal design tolerances and lower check design, no lower fluid seal is required in either design. This eliminates major internal wear on components, minimizing repair time and lowering repair costs.

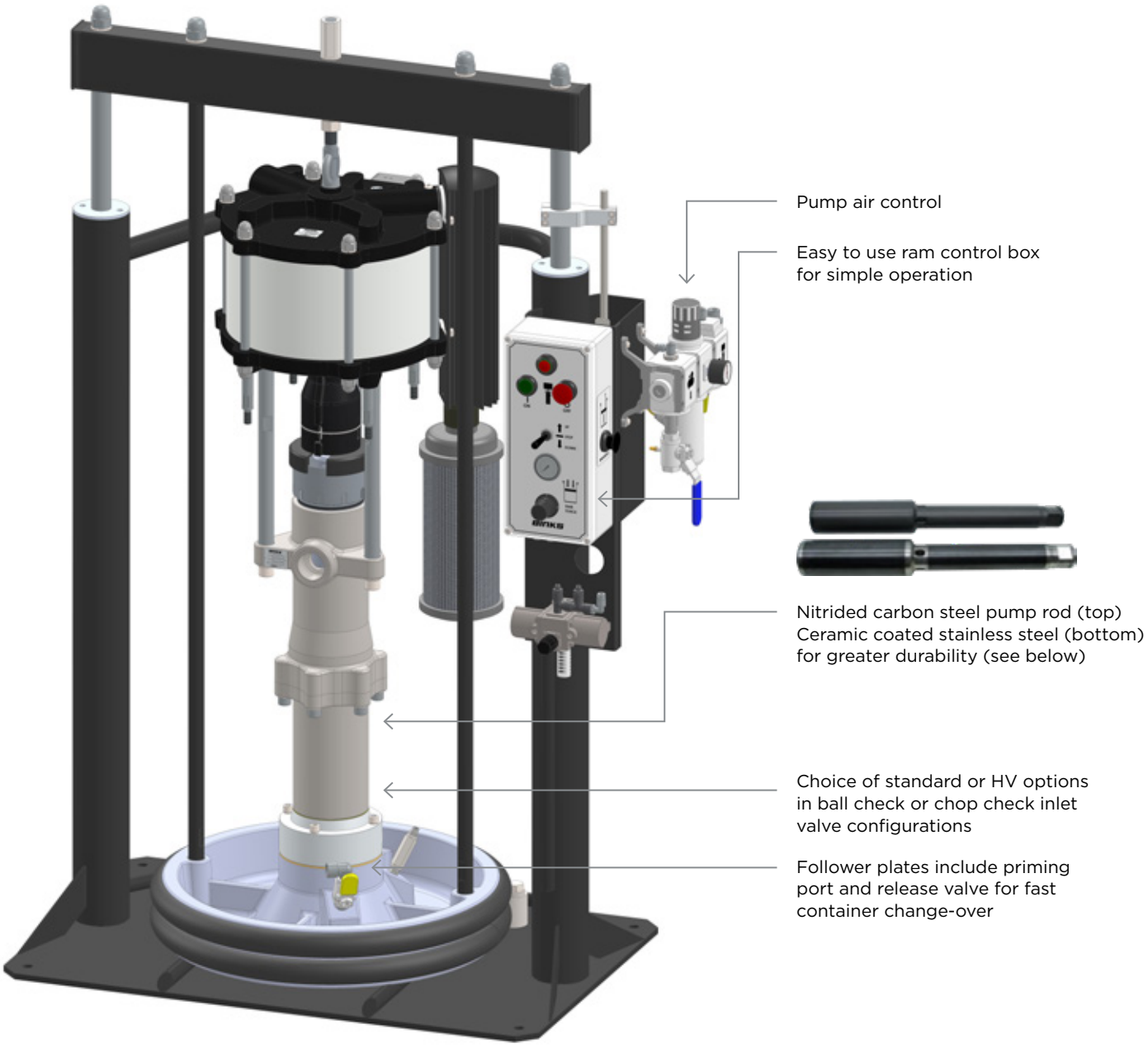


10-1801
HV Chop Check



10-1889 HV
Double Ball Check

Binks Ram Unit

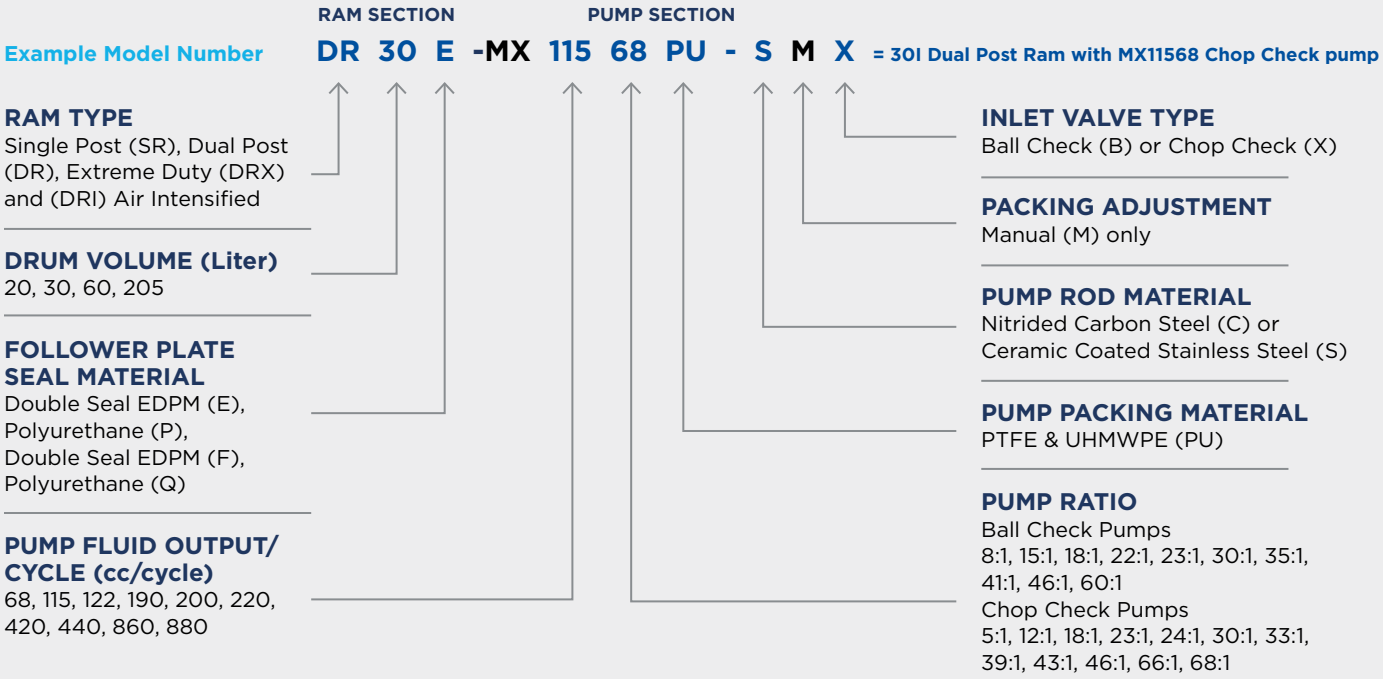


Maximum Working Air Pressure	Air Inlet	Ram Stroke	Unit Height Fully Extended	Wiper Ring Material	Weight without Pump
6 bar / 87 psi	1/2" BSP(F)	**SR20** 16 in / 410 mm **DR20/30/60** 27 in / 688 mm **DR205, DRX205** 37.8 in / 960 mm	**SR20** 49 in / 1242 mm **DR20/30/60** 69 in / 1750 mm **DR205, DRX205** 100 in / 2550 mm	**SR20, DR20/30/60** EPDM / PU **DR205, DRX205** EDPM	**SR20** 121 lbs / 55 kg **DR20/30/60** 286 lbs / 130 kg **DR205, DRX205** 466 lbs / 212 kg

Ram Packages						
SR20	**DR20**	**DR30**	**DR60**	**DR205**	**DRX205**	**DRI205**
Single Post Ram Unit with 3" pneumatic rams and 5 gal/20 L Follower Plate 6 pump options Cart mounted version available	Dual Post Ram Unit with 3" pneumatic rams and 5 gal/20 L Follower Plate 13 pump options	Dual Post Ram Unit with 3" pneumatic rams and 7.5 gal/30 L Follower Plate 13 pump options	Dual Post Ram Unit with 3" pneumatic rams and 15 gal/60 L Follower Plate 13 pump options	Dual Post Ram Unit with 3" pneumatic rams and 55 gal/205 L Follower Plate 24 pump options	Dual Post Extreme Duty Ram Unit with 6" pneumatic rams and 55 gal/205 L 15 gal/60 L Follower Plate 24 pump options	Dual Post Air Intensified Ram and 55 gal/205 L Follower Plate 24 pump options

Standard Ram Unit Pump Outfit Options

Equip your Ram Unit from our extensive range of durable, hard-working MX pumps. Contact your representative to help pick the right configuration for your application.

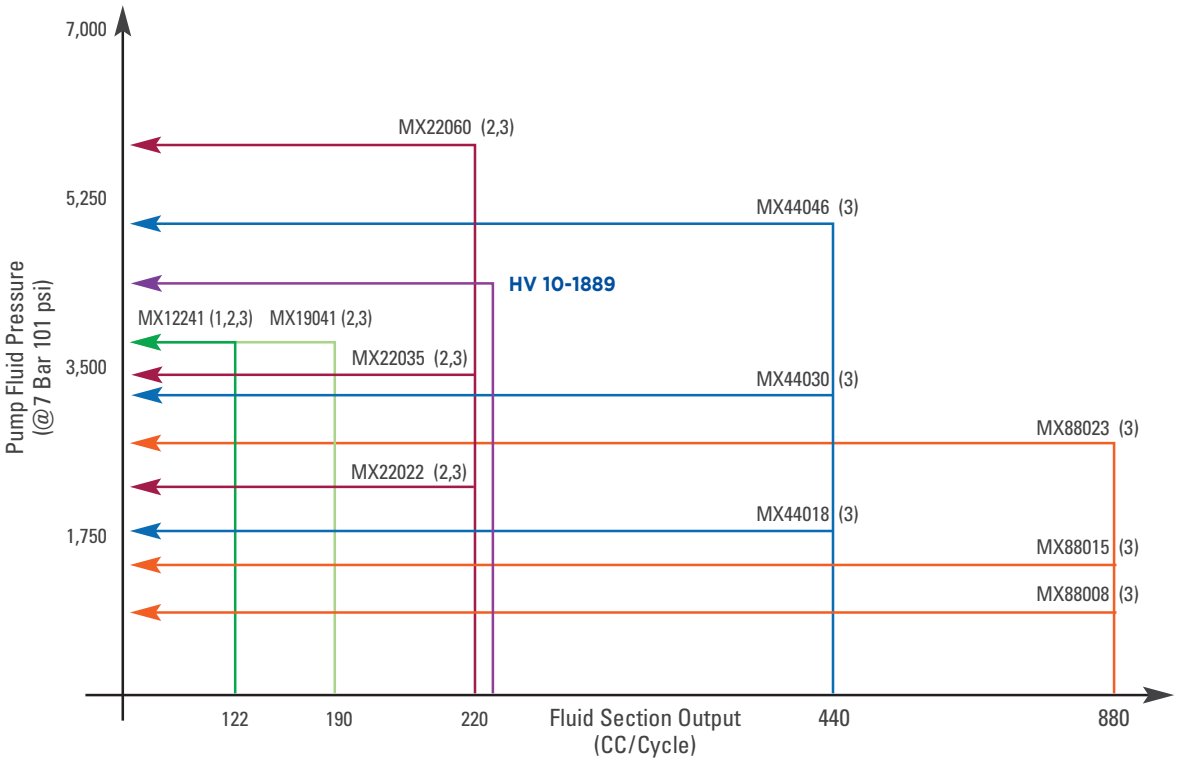


HV Ram Pump Outfit Options

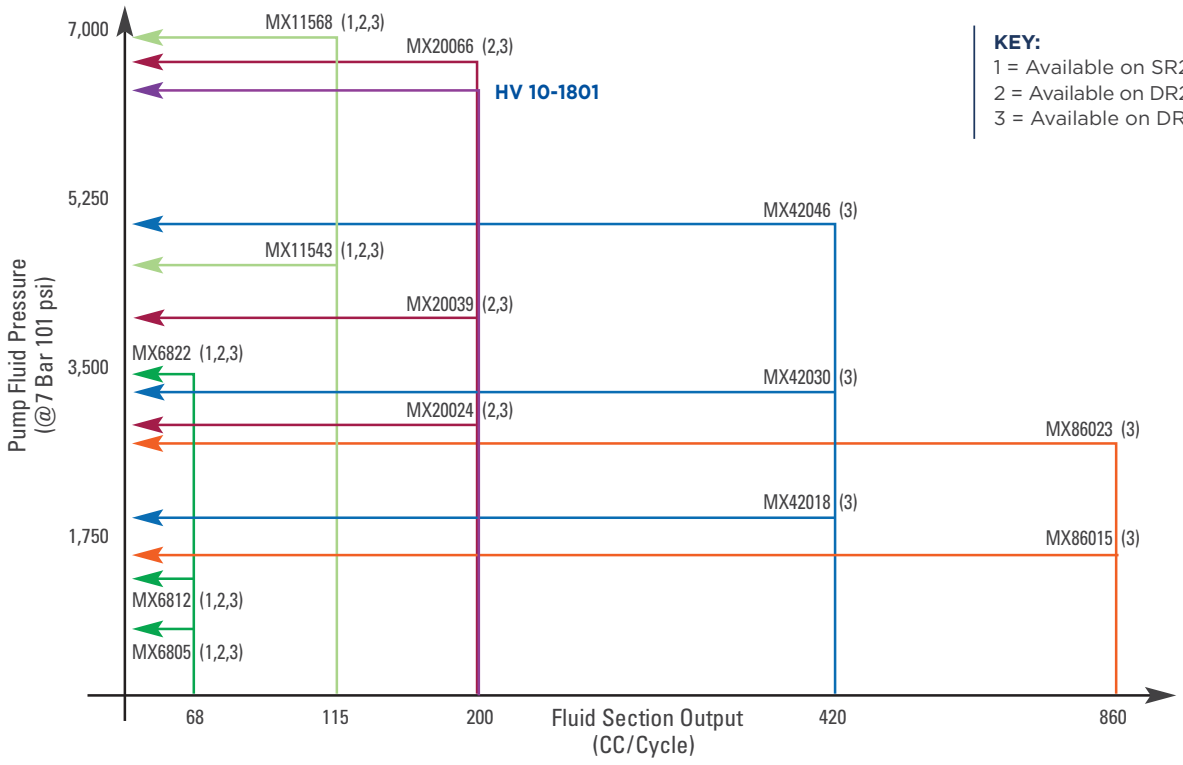
If you are interested in our HV (High Viscosity) pump line, choose from the following options.

Pump Type +	Elevator +	Air Motor +	Follower Plate
10-1801 HV Chop Check Fluid Section — No Lower Seal	10-1819 HV 5/55 gal Elevator Assembly	10-1871 HV Air Motor Assembly	10-1835 HV 5 gal Follower Plate with Nitrile Seal and Material Saver
10-1889 HV Double Ball Check Fluid Section — No Lower Seal			10-1894 HV 55 gal Follower Plate with Nitrile Seal and Material Saver

Ram Unit Ball Check Pump Options



Ram Unit Chop Check Pump Options

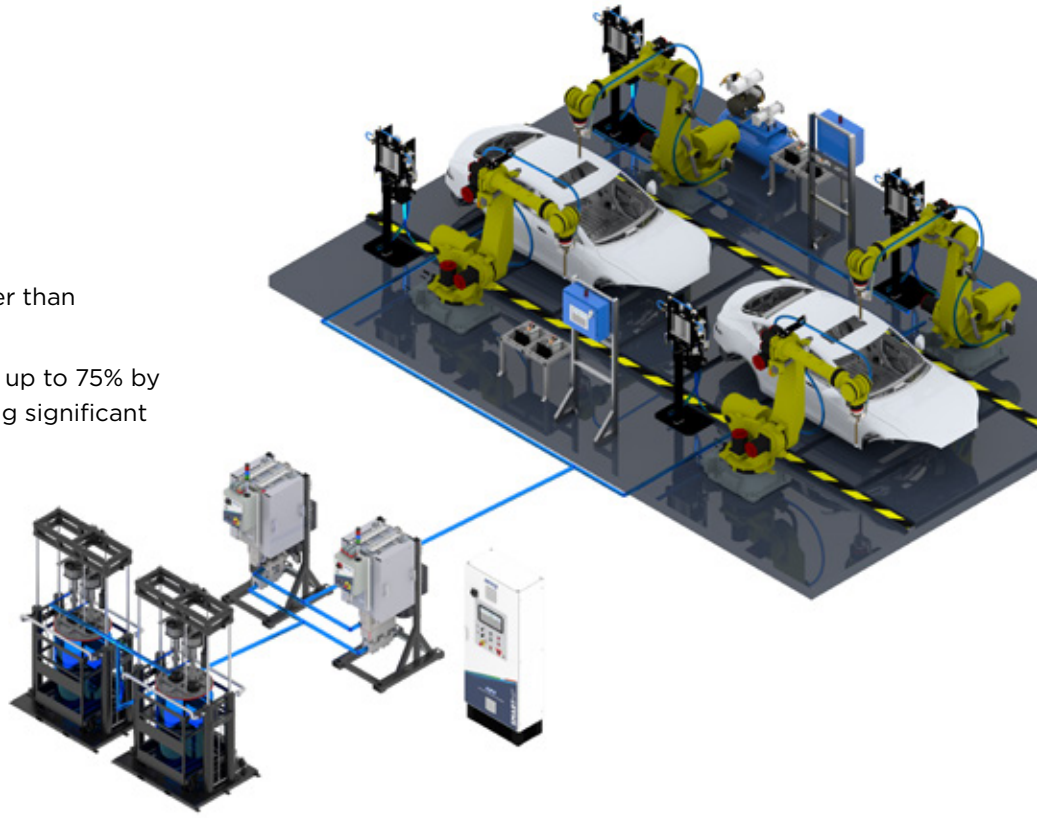


KEY:
1 = Available on SR20
2 = Available on DR20, DR30, DR60
3 = Available on DR205 & DRX205

Smart*HP*™

Features/Benefits

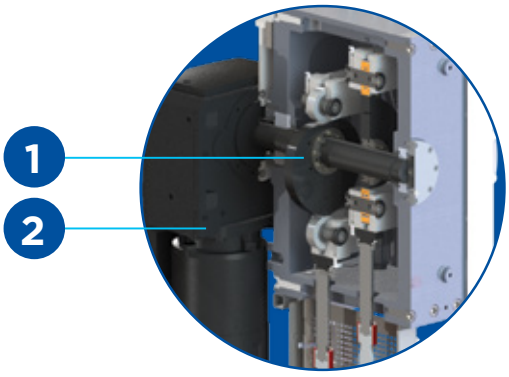
- A revolutionary way to supply
- Maintenance costs significantly lower than competition
- Electric drive reduces energy usage up to 75% by eliminating compressed air delivering significant cost savings
- Smart*HP* operates below the threshold where hearing protection become mandatory, with sound levels 12X less than equivalent pneumatic pumps
- Simple packing servicing in 15 minutes while on line



	E10-280	E14-210	E20-140
Part Numbers	104255-LH 104255-RH CN-010A00 CN-010A02-10	104257-LH 104257-RH CN-010A00 CN-010A02-10	104259-LH 104259-RH CN-010A00 CN-010A02-10
Description	• Two (2) E10-280 pumps (Nitrided rods listed, ceramic coated use 104256-XX) • One (1) integral control cabinet • Two (2) cable packs (10m/15m/25m/50m)	• Two (2) E14-210 pumps (Nitrided rods listed, ceramic coated use 104258-XX) • One (1) integral control cabinet • Two (2) cable packs (10m/15m/25m/50m)	• Two (2) E20-140 pumps (Nitrided rods listed, ceramic coated use 104260-XX) • One (1) integral control cabinet • Two (2) cable packs (10m/15m/25m/50m)
Applications	• For applications requiring very high flow but low pressure demands • Can capture additional value, with one Smart*HP* Pump fulfilling both supply and booster pump requirements (requires installation of larger diameter pipework) • Greenfield solution	• For higher pressure with lower flow applications • Brownfield retrofit solution (existing pipework limitations)	• Highest pressure for restrictive pipework • Brownfield retrofit solution (existing pipework limitations)
Max Flow	5.3 gal/minute 10 L/minute	3.7 gal/minute 14 L/minute	2.6 gal/minute 20 L/minute
Max Pressure	2030 psi / 140 bar	3045 psi / 210 bar	4060 psi / 280 bar

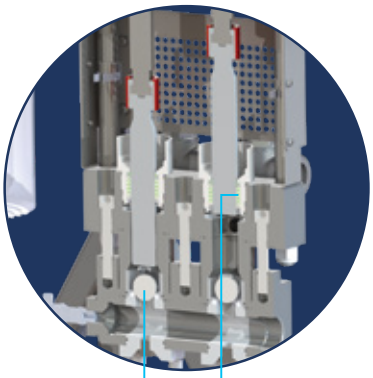
Pump Design and Specifications

1. Patented core technologies shared with low-pressure *Binks* Smart Pumps for paint circulation (the proven constant velocity cam-driven design eliminates pressure winks and ensures smooth operation)
2. Electric motors eliminate many drawbacks of air motors, size limitations and icing, while delivering significant cost savings from the elimination of compressed air
3. Due to multiple fluid sections sharing a drive, the lower packings, internal ball checks and cylinders are eliminated as wear parts, providing greater uptime and easier access to components for in situ maintenance (higher MTTF and lower MTTR)
4. Upper packings and ball checks can be replaced in situ in less than 30 minutes, creating significant savings in required maintenance effort
5. Integral controls include a pressure switch to ensure the pump is stopped in the event of an unsafe system overpressure
6. Integral controls provide a single centralized interface to control and monitor dozens of system parameters, allowing for alarms and remedies prior to production failures
7. *Binks* Smart*HP* Integral Control Cabinet

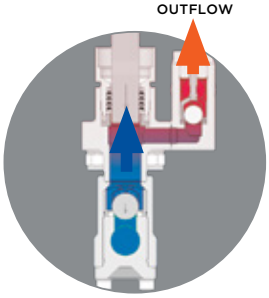


Binks
Smart*HP* Pump
Model E14-210 **shown**

Binks
Smart*HP* Pump
Model E14-210 **shown**



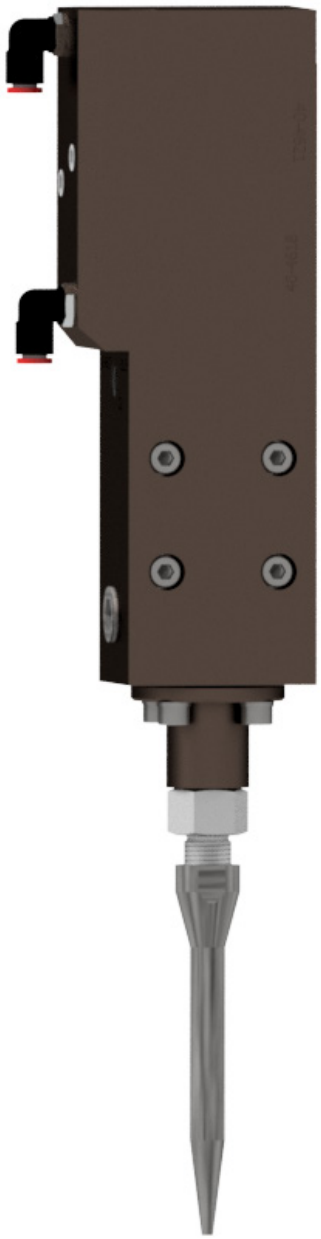
Fluid Pathway



Applicator

Features/Benefits

- Designed to cover a broad range of dispense applications, this applicator can be mounted to any *Binks* shot meter for point of use dispensing
- Provides the highest level of material and bead control
- Simple shared design with remote applicators provides ease of maintenance
- Common components with other applicators simplifies access to spare parts for service
- Many tips available to meet application needs



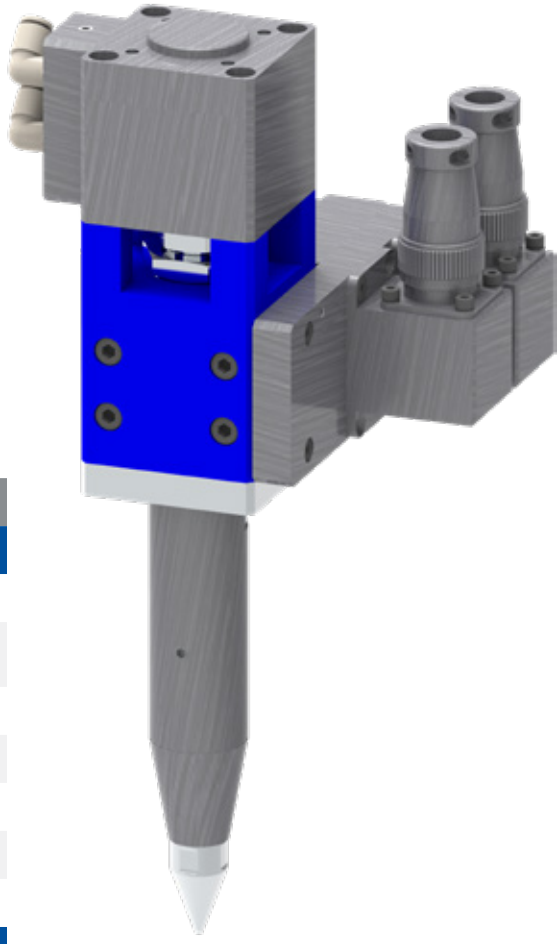
Shown with long needle tip

Part Number	10-1955
Specifications	
Viscosity Range	up to 1,000,000 cps
Pressure Range	up to 5000 psi / 345 bar
Flow Rate Range	up to 80 cc/sec* (*dependent on viscosity)
Height	1.75 in / 44.4 mm
Width	2.50 in / 63.5 mm
Depth	8.48 in / 215.4 mm* (*+ tip length)
Weight	3 lbs / 1.36 kg
Connections	
Material Inlet	3/8" NPT(F)
Material Outlet	nozzle dependent

Applicators

Features/Benefits

- Designed specifically to meet automotive adhesive requirements
- Capable of close coupled or remote mounting
- Large flow passageways eliminate high pressure loss and shear of materials through the applicator
- Many tips available to meet application needs



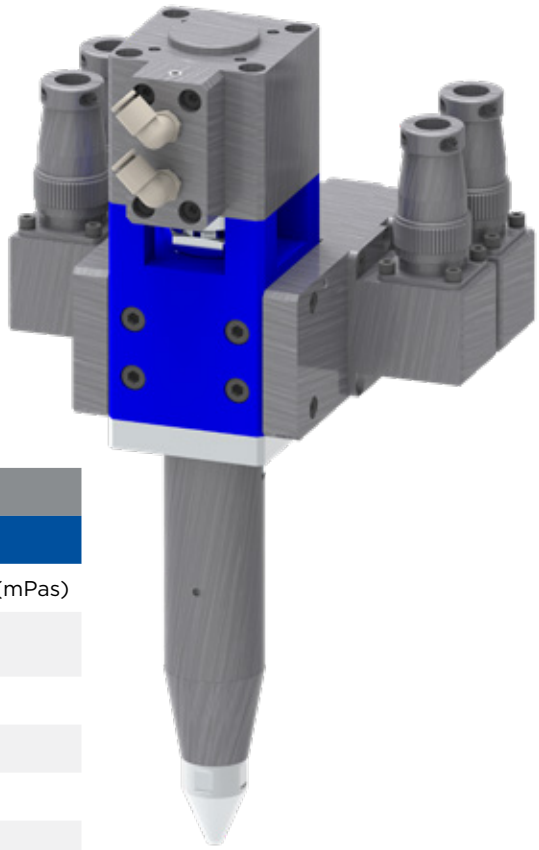
Part 9A00000D shown with 0.030" adhesive tip and heated element

Part Number	3E00000B/D	9A00000D
Specifications		
Viscosity Range	up to 1,000,000 cps	up to 1,000,000 cps
Pressure Range	up to 4350 psi / 300 bar	up to 4350 psi / 300 bar
Flow Rate Range	up to 10 cc/sec	up to 10 cc/sec
Height	11 in / 279 mm	11 in / 279 mm
Width	2.13 in / 54 mm	4.49 in / 114 mm
Depth	3.40 in / 87 mm	5.45 in / 138.5 mm
Weight	3.48 lbs / 1.58 kg	5.45 lbs / 2.47 kg
Connections		
Material Inlet	0.39 in / 10 mm	Rc 1/2" (F)
Material Outlet	nozzle dependent (Ø1.4, 1.0, 0.8 mm)	nozzle dependent (Ø1.4, 1.0, 0.8 mm)
Electrical Requirements	N/A	220vAC/80W/60Hz (for heating)

Mastic Applicators

Features/Benefits

- Designed specifically to meet the high flow rates of mastic requirements
- Capable of close coupled or remote mounting
- Available in standard or heated options
- A wide array of hardened tips provide long life and deliver precise amounts and shapes of material



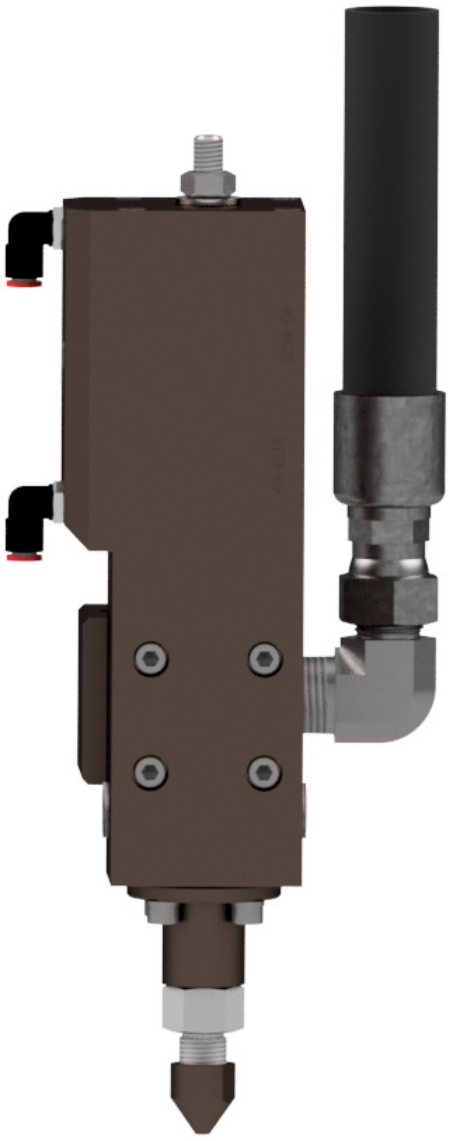
Part 9C00000C shown with 0.120" mastic tip and heated element

Part Number	3H00000A	9C00000C
Specifications		
Viscosity Range	up to 1,000,000 cps (mPas)	up to 1,000,000 cps (mPas)
Pressure Range	up to 4350 psi / 300 bar	up to 4350 psi / 300 bar
Flow Rate Range	up to 10 cc/sec	up to 10 cc/sec
Height	11 in / 279 mm	11 in / 279 mm
Width	2.13 in / 54 mm	4.49 in / 114 mm
Depth	3.40 in / 87 mm	5.45 in / 138.5 mm
Weight	3.57 lbs / 1.62 kg	5.53 lbs / 2.51 kg
Connections		
Material Inlet	0.39 in / 10 mm	Rc 1/2" (F)
Material Outlet	nozzle dependent (Ø3.5 mm)	nozzle dependent (Ø3.5 mm)
Air Requirements	90 psi / 6 bar, 6 mm Pushlock	90 psi / 6 bar, 6 mm Pushlock
Electrical Requirements	N/A	220vAC/80W/60Hz (for heating)

Remote Applicator

Features/Benefits

- Designed to cover a broad range of dispense applications, this applicator can be fed from *Binks* shot meter for remote dispensing
- Remote mounting of applicators allows for smaller package size, simplifying cell design/layout
- Simple shared design with close coupled applicators provides ease of maintenance
- Common components with other applicators simplifies access to spare parts for service
- Many tips available to meet application needs



Shown with 0.060" cone tip

Part Number	10-1994 (Applicator) / 10-0840 (Manifold)
Specifications	
Viscosity Range	up to 1,000,000 cps (mPas)
Pressure Range	up to 5000 psi / 345 bar
Flow Rate Range	up to 120 cc/sec
Length	1.75 in / 44.4 mm
Width	2.50 in / 63.5 mm
Height	8.48 in / 215.4 mm* (*+ tip length)
Weight	3 lbs / 1.36 kg
Connections	
Material Inlet	3/8" NPT(F)
Material Outlet	nozzle dependent

Hypoxic Applicator

Features/Benefits

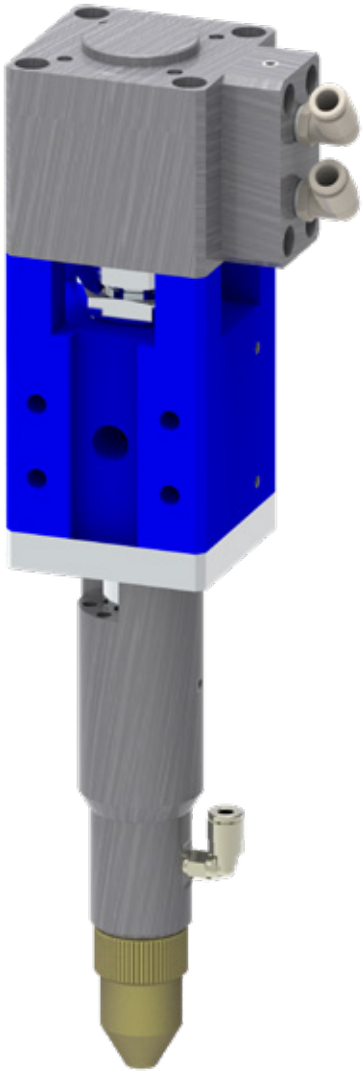
- Designed specifically for dispensing air- or moisture-sensitive materials
- Utilizes a “no-drip tip” to prevent material curing at the nozzle, saving costly downtime or cleaning regimens
- A wide array of hardened tips from 0.030" to 0.120" provide long life and deliver precise amounts and shapes of material

Part Number	25-0606
Specifications	
Viscosity Range	up to 250,000 cps (mPas)
Pressure Range	up to 5000 psi / 345 bar
Flow Rate Range	up to 120 cc/sec
Height	1.75 in / 44.4 mm
Width	2.50 in / 63.5 mm
Depth	8.48 in / 215.4 mm* (*+ tip length)
Connections	
Material Inlet	3/8" NPT
Material Outlet	nozzle dependent

Swirl Applicator

Features/Benefits

- Uses compressed air to create a swirl pattern with uniform cross sections for superior results over extrusion or spray
- Close-coupled design for superior bead control
- Precise, easily adjustable control of the swirl pattern meets many application needs



Shown with 3 mm swirl tip

Part Number	3F00000A
Specifications	
Viscosity Range	up to 500,000 cps
Pressure Range	up to 4350 psi / 300 bar
Flow Rate Range	up to 10 cc/sec
Height	11 in / 279 mm
Width	2.13 in / 54 mm
Depth	3.4 in / 87 mm
Weight	3.68 lbs / 1.67 kg
Connections	
Material Inlet	0.39 in / 10 mm
Material Outlet	nozzle dependent (Ø0.8 mm)
Air Requirements	90 psi / 6 bar, 6 mm Pushlock

2K Mixing Applicator

Features/Benefits

- 2K dispense gun package utilizes two standard guns close coupled with a static mixer at the common outlet port
- Specially designed static mixer provides industry-standard mixing in a more compact package
- Modular design minimizes the complexity of maintenance and spare parts inventory

Part Number	40-4729
Specifications	
Viscosity Range	up to 500,000 cps
Pressure Range	up to 2200 psi / 152 bar
Flow Rate Range	up to 20 cc/sec
Height	26 in / 660 mm plus tip length
Width	5.31 in / 134.9 mm
Depth	12 in / 305 mm
Connections	
Material Inlet	1/2" NPT(F) x 2
Material Outlet	0.19 in / 5 mm

Remote Body Panel Reinforcement (BPR) Applicators

Features/Benefits

- Precise spray pattern widths from BPR guns provide the desired reinforcement results
- Several close coupled and remote mounted options available
- Available in several widths to create different patch sizes
- Dual layer BPR gun available to create patches of multiple materials or thicknesses
- Comfortable and ergonomic designs of manual versions assure minimizing fatigue while applying material properly and safely

	BPR	Dual Layer BPR	Manual BPR	BPR Applicator
Part Number	9F00000A/B	3D00000A/B/C	3J00000B/C	25-0606
Specifications				
Viscosity Range	up to 500,000 cps	up to 500,000 cps	up to 500,000 cps	up to 800,000 cps
Pressure Range	up to 4350 psi / 300 bar	up to 4350 psi / 300 bar	up to 4350 psi / 300 bar	up to 4350 psi / 300 bar
Flow Rate Range	up to 120 cc/sec	up to 50 cc/sec	up to 50 cc/sec	up to 120 cc/sec
Height	13.8 in / 352 mm	10.5 in / 267 mm	10.5 in / 267 mm	6.8 in / 173 m
Width	5.5 in / 139 mm	4.94 in / 126 mm (60 mm+40 mm patches) 6.38 in / 162 mm (100 mm+80 mm patches) 8.35 in / 212 mm (150 mm+130 mm patches)	6.5 in / 165 mm 6.7 in / 170 mm	2.13 in / 54 mm
Depth	7.6 in / 194 mm	6.3 in / 160 mm	11 in / 279 mm	3.40 in / 87 mm*
Weight	12 lbs / 5.4 kg	14.6 lbs / 6.6 kg (60 mm+40 mm patches) 19.4 lbs / 8.8 kg (100 mm+80 mm patches) 23.8 lbs / 10.8 kg (150 mm+130 mm patches)	23.83 lbs / 5.3 kg (80 mm patch) 22.1 lbs / 5.5 kg (90 mm patch)	2.88 lbs / 1.31 kg
Connections				
Material Inlet	Rc 1" (F)	Rc 1/2" (F)	Rc 1/2" (F)	0.39 in / 10 mm
Material Outlet	nozzle dependent (orifice type)	nozzle dependent (rectangular section type)	nozzle dependent (rectangular section type)	nozzle dependent (by orifice type)
Air Requirements	90 psi / 6 bar, 6 mm Pushlock	90 psi / 6 bar, 6 mm Pushlock	90 psi / 6 bar, 6 mm Pushlock	90 psi / 6 bar, 6 mm Pushlock
Electrical Requirements	220vAC/200W/60Hz (for heating)	220vAC/100W/60Hz (for heating, 60+40 mm) 220vAC/180W/60Hz (for heating, 100+80 mm) 220vAC/200W/60Hz (for heating, 150+130 mm)	220vAC/180W/60Hz (for heating)	

Direct Glazing Applicators

Features/Benefits

- Designed for precise control of a wide range of materials with quick and exact response for superior process control
- Available in fixed and swivel options
- Available in standard and heated options
- A wide array of hardened tips from 0.030" to 0.120" (fracture options available) provide long life and deliver precise amounts and shapes of material

3P00000B shown with breakaway tip and heating element

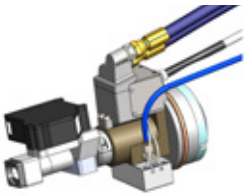
	Auto	Swivel Auto
Part Number	3P00000A/B/C	3G00000A/B/C
Specifications		
Viscosity Range	up to 500,000 cps	up to 500,000 cps
Pressure Range	up to 4350 psi / 300 bar	up to 4350 psi / 300 bar
Flow Rate Range	up to 10 cc/sec	up to 10 cc/sec
Height	8.66 in / 220 mm w/ std nozzle	9.45 in / 240 mm
Width	2.83 in / 72 mm	4.06 in / 103.2 mm Ambient Applicator 6.5 in / 165 mm Heated Applicator
Depth	2.83 in / 72 mm	3.93 in / 100 mm
Weight	4.84 lbs / 2.23 kg (ambient version)	6.6 lbs / 3.0 kg (ambient version) 7.7 lbs / 3.5 kg (heated version)
Connections		
Material Inlet	Rc 3/8" (F)	Rc 1/2" (F)
Material Outlet	nozzle dependent (Ø1.2, 1.0, 1.5, 3.0 mm)	nozzle dependent (Ø8.0, 10.0, 7.0 mm)
Air Requirements	90 psi / 6 bar, 8 mm Pushlock	90 psi / 6 bar, 8 mm Pushlock
Electrical Requirements	220vAC/100W/60Hz (for heating)	220vAC/100W/60Hz (for heating)

3D Applicators & Cosmetic Sealing Applicators

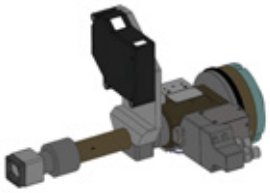
Features/Benefits

- The E415 3D gun is unique, with the ability to dispense up to three patterns/widths from one dispense system, greatly increasing the productivity of the station
- Easy adaptation to different robot designs
- Simple, maintenance-friendly design for longer service intervals and easy maintenance
- Capable of single or dual materials in the same applicator
- Integrated heat, temperature and pressure sensors allow customization for any application
- Available in Aluminum (standard) and Stainless Steel (waterborne material) options
- Cosmetic sealing models available with fixed nozzles and optional automated nozzle exchange

E415 (3D)



E475



E480

Part Number	Basic version (no sensors): 8611 4147 87 (Al) 8611 4151 20 (SST) With temp and pressure sensors: 8611 4151 00 (Al) 8611 4151 21 (SST)	8611 4151 30	8611 4151 40
Specifications			
Nozzles	3	1	2
Viscosity Range	up to 500,000 cps	up to 500,000 cps	up to 500,000 cps
Pressure Range	up to 3625 psi / 250 bar	up to 3625 psi / 250 bar	up to 3625 psi / 250 bar
Flow Rate Range	given by nozzle	given by nozzle	given by nozzle
Height	18.7 in / 475 mm (excl. nozzle)	12.0 in / 306 mm (excl. nozzle)	16.0 in / 396 mm (excl. nozzle)
Width	4.7 in / 120 mm	4.7 in / 120 mm	4.7 in / 120 mm
Depth	8.27 in / 210 mm	7.95 in / 202 mm	9.45 in / 240 mm
Weight	8.2 lbs / 3.7 kg (Al) 13.7 lbs / 6.2 kg (SST)	7.7 lbs / 3.5 kg	5.94 lbs / 6 kg
Connections			
Material Inlet	3/8" BSP(M) / 1/2" BSP(M) for SS	3/8" BSPT(M)	3/8" BSPT(M)
Material Outlet	0.375 in / 9.53 mm, 3/8" BSP(M)	0.375 in / 9.53 mm, 3/8" BSP(M)	0.375 in / 9.53 mm, 3/8" BSP(M)
Electrical Requirements	24VDC	24VDC	24VDC

Manual Guns

Features/Benefits

- Comfortable and ergonomic designs of manual guns assure minimizing fatigue while applying material properly and safely
- No finger trap locations, all moving parts are completely enclosed
- Lightweight, quick action trigger lock integrated into gun rest
- Universal thread connections and many swivel options available

Part Number	F200	F400
Specifications		
Body Material	aluminum	stainless steel
Viscosity Range	up to 500,000 cps	up to 500,000 cps
Pressure Range	up to 4000 psi / 276 bar	up to 6000 psi / 414 bar
Flow Rate Range	material dependent	material dependent
Length	10.1 in / 256 mm	10.1 in / 256 mm
Width	5.8 in / 148 mm	5.8 in / 148 mm
Height	1.1 in / 28 mm	1.1 in / 28 mm
Weight	1 lbs / 436 g	1.4 lbs / 614 g
Connections		
Material Inlet	1/4" NPS	1/4" NPS
Material Outlet	3/8" BSPP NPTF adaptors, NPT hoses, Z-swivels	3/8" BSPP NPTF adaptors, NPT hoses, Z-swivels

Mastic Regulator

Features/Benefits

- Passive regulator provides consistent, regulated flow to protect downstream components
- Often used in manual systems with the *Binks* F200 and F400 manual gun
- Other models and pressure ranges available

Part Number	107906
Specifications	
Regulating Range	500 – 3500 psi / 35 – 240 bar
Air Pilot Range	10 – 80 psi / 0.7 – 5.5 bar
Weight	15 lb / 6.8 kg
Dimensions	
Diameter	6 in / 150 mm
Material Ports	
Inlet Port Dimensions	.75 in NPT
Outlet Port Dimensions	.75 in NPT
Gauge Port Dimensions	.25 in NPT

Hoses

Features/Benefits

- Wide range of industry-standard types, materials and connections available in any length
- Special fittings allow seamless integration with all equipment (pumps, shot meters, applicators, etc.)
- Available in nylon, rubber, SST, Teflon™, water-jacket/zipper, coaxial and heated variations
- Rated up to 6000 psi (414 bar)
- Water-conditioned and electrically-heated options available

Heated hose shown

Hose Numbering Chart

80-L51-0815-FSFS — HOSE, ELECTRIC HEATED 220V 4P MICRO 1/2" x 15' HI FLEX 5100 PSI JICF x JICF

8 0 - L 5 1 - 0 8 1 5 - F S F S

PRESSURE
01 = 150
02 = 250
05 = 500
07 = 750
10 = 1000
12 = 1250
20 = 2000
22 = 2250
27 = 2750
30 = 3000
35 = 3500
40 = 4000
50 = 5000
51 = HI FLEX 5100
60 = 6000

HOSE
02 = 1/8"
04 = 1/4"
06 = 3/8"
08 = 1/2"
10 = 5/8"
12 = 3/4"
14 = 7/8"
16 = 1"
18 = 1-1/8"
20 = 1-1/4"
25 = 1-1/2"

LENGTH
01 = 1'
05 = 5'
10 = 10'
15 = 15'
ETC.

FITTING END
TO
FITTING END

FITTING SIZE*
FS = FEMALE SWIVEL = HOSE SIZE
70 = DISP GUN WATER CONDITIONED BLOCK, 3/8 NPT
71 = HOSE BLOCK CONDITIONED, 3/8 NPT x 3/4 NPT
72 = HOSE BLOCK CONDITIONED, 1/2 NPT x 3/4 NPT
73 = HOSE BLOCK CONDITIONED, 3/4 NPT x 3/4 NPT
74 = HOSE BLOCK CONDITIONED, 1 NPT x 1 NPT
75 = HOSE BLOCK CONDITIONED, 1/2 NPT x 1/2 NPT
1K = Legacy 1K SUPPLY BLOCK
KC = Legacy KC SUPPLY BLOCK
KL = Legacy 2K LH SUPPLY BLOCK
KR = Legacy 2K RH SUPPLY BLOCK
IK = IDS 1K SUPPLY BLOCK
IC = IDS KC SUPPLY BLOCK
IL = IDS 2K LH SUPPLY BLOCK
IR = IDS 2K RH SUPPLY BLOCK

MATERIAL
N = NYLON
R = RUBBER
S = SS BRAIDED TEFLON
W = SS BRAIDED TEFLON & WRAP
Z = ZIPPER SUPPLY RUBBER
Y = ZIPPER DISPENSE RUBBER
C = ZIPPER SUPPLY SS BRAIDED TEFLON & WRAP
E = ZIPPER DISPENSE SS BRAIDED TEFLON & WRAP
B = COAXIAL HOSE, RUBBER
L = ELECTRIC HEATED 220V 4P MICRO

DESIGNATES TYPE
8 0 = USA
8 1 = CANADIAN
8 3 = SS FITTINGS USA
8 4 = SS FITTINGS CAN

Temperature Control Systems

Features/Benefits

- Temperature control units seamlessly provide the required heating and cooling to achieve and maintain a +/-1°F material temperature at the point of dispense
- Totally self-contained, closed-loop and balanced fluid process control systems ensure robust process control and reduce variation in bead dispense and quality
- Expandable by controller to communicate to any line configuration

Part Number	UT0379
Specifications	
Method	water-based
Possible Zones	2
Temperature Range	150°F / 66°C
Controls	N/A
Length	36.5 in / 928 mm
Width	23.14 in / 588 mm
Height	42.89 in / 1089 mm
Weight	500 lbs / 226.8 kg
Connections	
Inlet	1/2" NPT
Outlet	1/2" NPT
Water Requirements	distilled water
Air Requirements	N/A
Electrical Requirements	120v AC 15A

Shot Meter Lubrication System

Features/Benefits

- Extends mean time before repair
- Closed-loop lubrication paths ensure smooth operation and lower the risk of contamination and resulting downtime
- Durable design and construction reduces maintenance

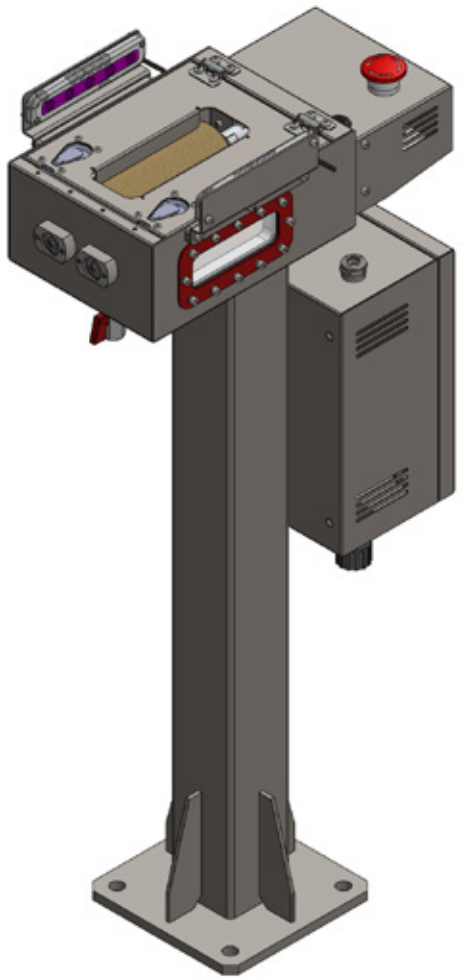
Part 25-0521 shown

Part Number	25-0521	25-0520
Specifications		
Tank Size	Single	Dual
Operating Pressure	150 psi / 10 bar	240 psi / 16 bar
Length	17.9 in / 45.4 cm	27.5 in / 69.8 cm
Width	17.7 in / 44.9 cm	20.5 in / 51.9 cm
Height	24.7 in / 62.8 cm	24.7 in / 62.8 cm
Lubrication Type	up to 100 psi / 7 bar	up to 100 psi / 7 bar

Nozzle Cleaner

Features/Benefits

- Developed in accordance with OEM requirements, nozzle cleaners improve quality and ensure clean, reliable applicators between every job
- Wide aperture ensures robot controllers can utilize the cleaner without extensive programming
- Simple structure makes it easy for anyone to operate and maintain

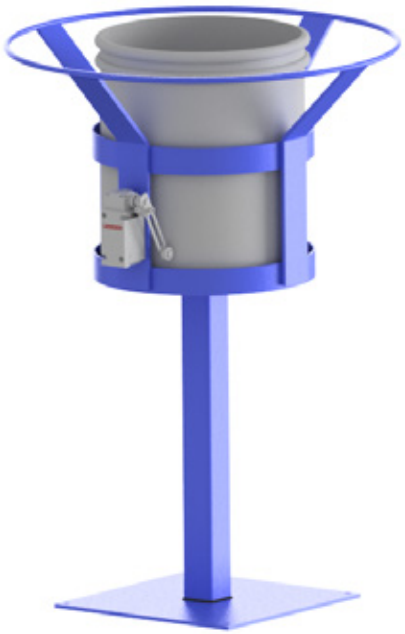


Part Number	JW01-0000_R type
Specifications	
Materials	primarily adhesives and extruded mastics
Dimensions of Opening	2.1 in x 5.9 in / 55 mm x 152 mm
Cleaning Fluid Needs	cleaning oil required
Length	9.1 in / 232 mm
Width	15.2 in / 387 mm
Height	34.4 in / 875 mm
Weight	38.6 lbs / 17.5 kg
Connections	
Electrical Requirements	100-240vAC/1.6A/50-60Hz

Purge Stands

Features/Benefits

- Dispense equipment must purge itself periodically to prevent material curing in the tip, shot meter or hoses
- This purge system provides a clean, easy-to-use way to purge without mess
- Works with most materials
- Simplifies plant waste streams and makes them more efficient
- Powered purge system uses centrifugal force to flatten purged material and prevent excessive buildup of highly viscous materials, further reducing mess and saving on maintenance



Purge Stand shown

Part Number	10-1976 (Basic)	10-1970 (Rotating)
Specifications		
Dimensions of Opening	12.0 in / 304.8 mm dia	12.0 in / 304.8 mm dia
Length	21.9 in / 555.6 mm	23.5 in / 596.9 mm
Width	21.88 in / 555.6 mm	21.0 in / 533.4 mm
Height	31.33 in / 795.8 mm	39.16 in / 994.7 mm
Weight	43 lbs / 19 kg	103 lbs / 46.7 kg
Connections		
Air Requirements	N/A	80 psi / 5.5 bar
Electrical Requirements	N/A	24V DC

Rotating Purge Stand shown

For further technical information, refer to the service bulletins available at *CarlisleFT.com*

The brands you trust

Carlisle Fluid Technologies, a wholly-owned subsidiary of Carlisle Companies Incorporated, is dedicated to providing customers industry-leading solutions for the supply, control, application and curing of a wide range of paints, powders, sealants, adhesives and other application materials. From manual finishing equipment, to highly automated mass-production installations, the company solves customers' material application challenges through the combination of product innovation and decades of technical expertise. Focused on efficient, cost-effective global solutions for the transportation and other industrial markets, the company offers an expanding collection of pioneering product brands – BGK™, Binks®, DeVilbiss®, Hosco®, ms® and Ransburg®.

Let's start a conversation

We want to work together to help answer your application challenges. To learn more about what we can offer, visit our website at ***CarlisleFT.com*** or call us today.

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