

MX SERIES Piston Pump



**2010 IWF
Challengers
Award
WINNER**

Challengers Awards are chosen biannually by the International Woodworking Fair for innovation and impact to the industry. The Binks MX412 Pump was one of seven Challengers Award winners at the 2010 IWF Show.

Now with AA1600M and AA4400M Spray Guns!

BINKS MX SERIES. TAKE IT TO THE MAX.

Ideal for air assist airless spray finishing, supporting 1 to 2 spray guns, with thin to medium viscosity coatings.



The **MX** SERIES takes it to the **MAX**!



Successful finishing operations are in a never-ending quest to:

- Reduce rejected parts
- Reduce coating costs
- Reduce compressed air costs

Our MX Series Pumps accomplish this by:

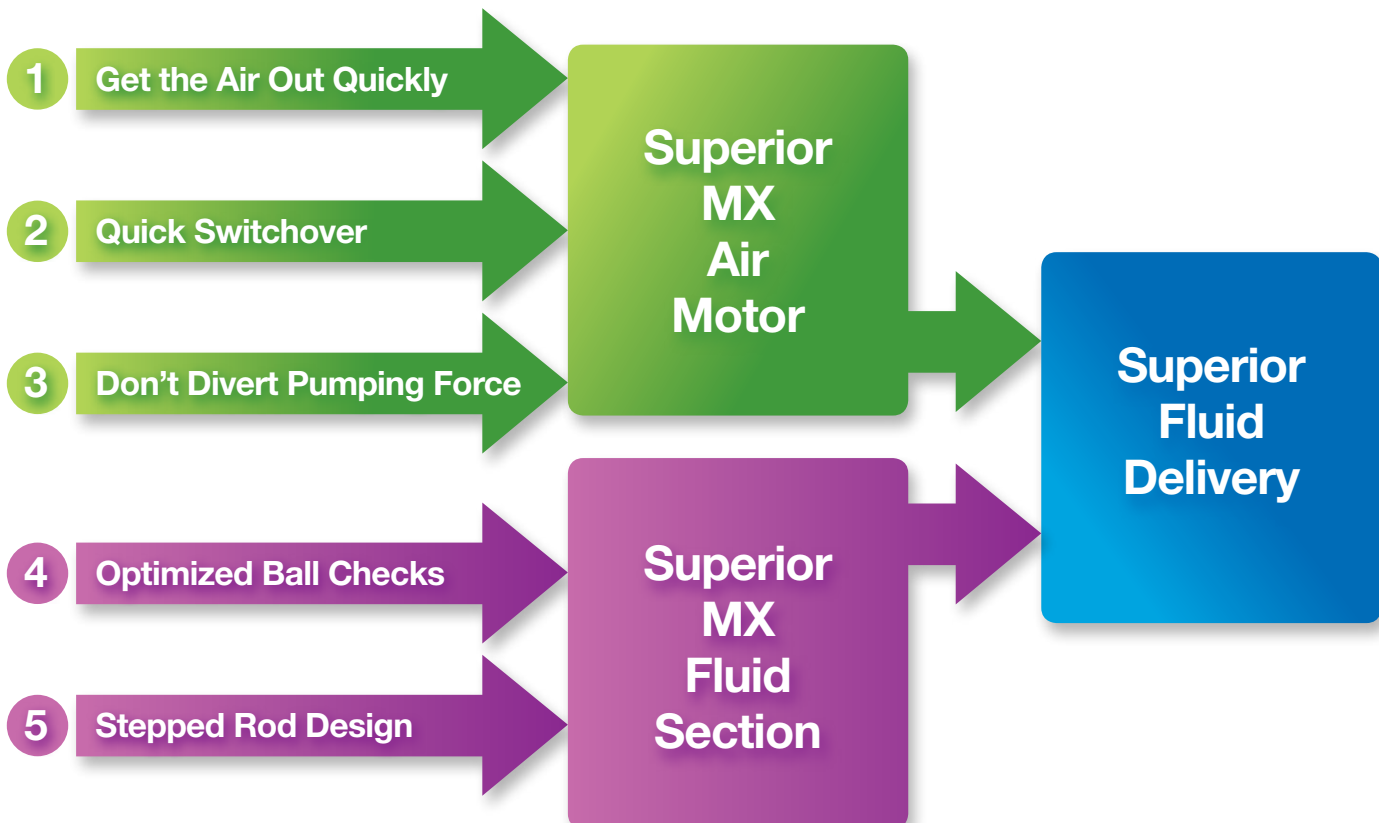
- Providing a smooth consistent spray pattern
- Giving you the ability to operate at lower fluid pressures
- Giving you the ability to operate at lower fan air (spray gun) pressures

Here's how we did it!

Finishing success is a function of three elements.

- Coating
- Atomization
- Fluid Delivery

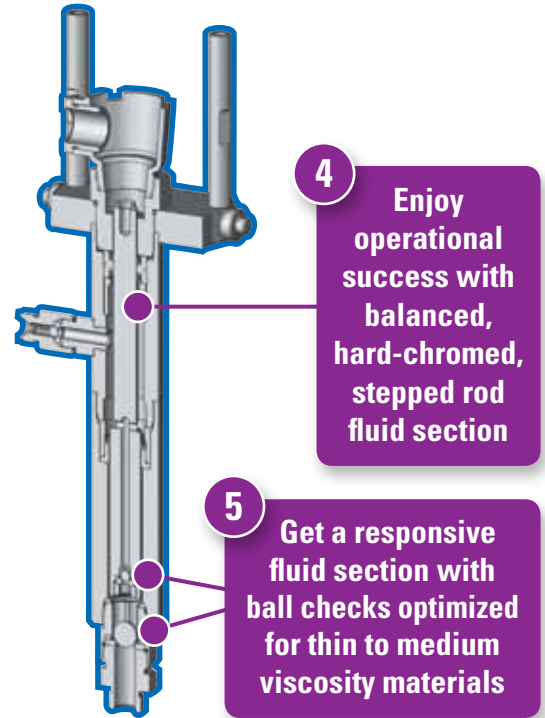
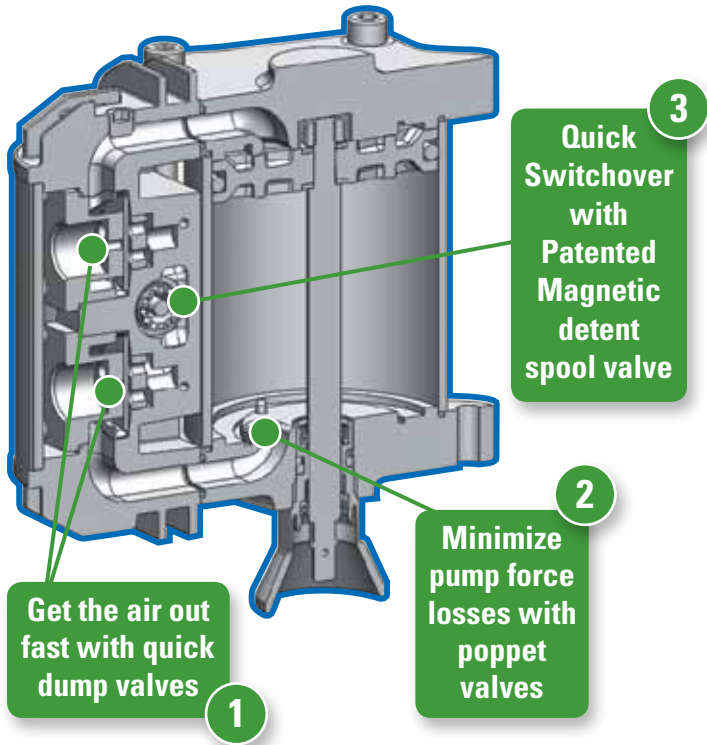
Optimal Fluid Delivery is the function of the Air Motor and Fluid Section of the Pump....



MAXIMUM AIR PUMP



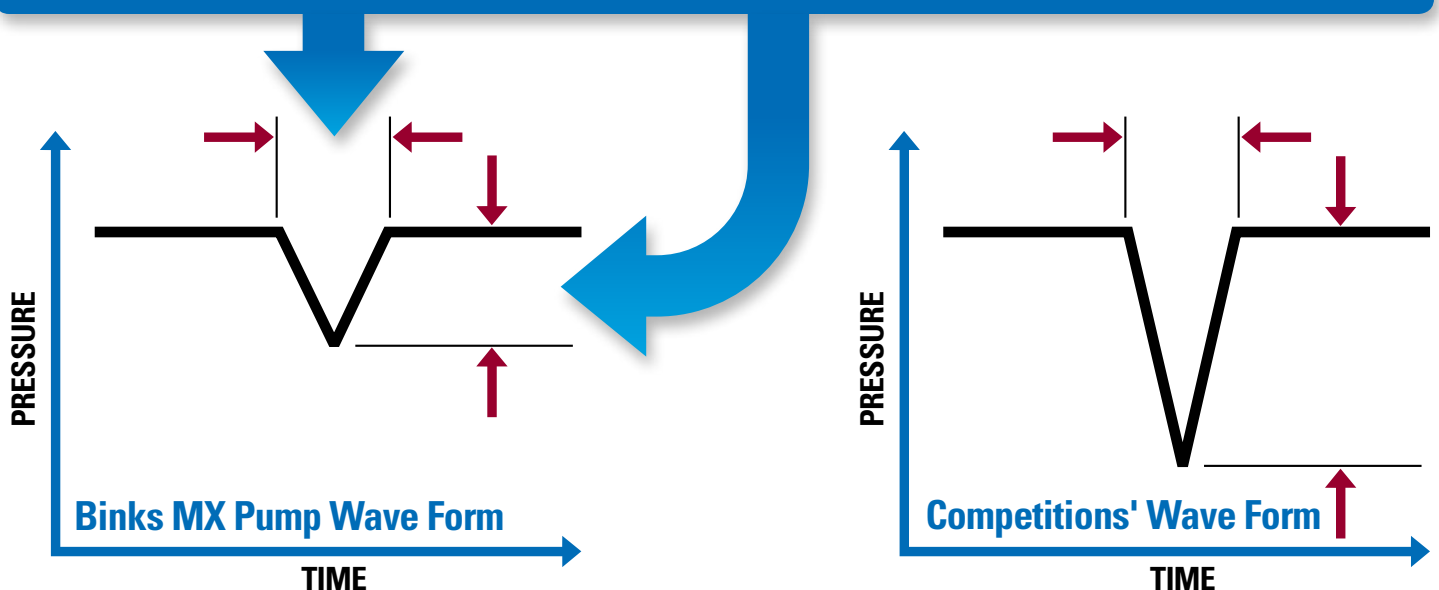
MAXIMUM FLUID SECTION



= Proven Superiority!

We tested the new MX412 Pump against our top competitors under identical circumstances:

The combination of peak width and height indicates the overall responsiveness of our pump. The Binks MX Pump has about half the drop in peak height than competitive pumps. This gives you a smooth consistent spray pattern and the ability to use lower fluid and fan air (spray gun) pressures. This gives you a reduction in rejected parts, reduced operating costs, and reduced compressed air costs.





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Magnetic Detent spool valve (patent pending) and quick dump air valves enable air motor to switch over quickly.

0.4 GPM @ 60 cycles/min supports single spray gun spraying.

Balanced, stepped rod fluid section with hard chromed surface minimizes wear and maximizes time-between-rebuilds.

Our low pulse design enables lower shaping air pressures for better transfer efficiency.

	MX412	MX432
Pressure Ratio	12:1	32:1
Flow Rate at 60 cycles per minute	0.4 GPM (1.4 l/min)	
Displacement per cycle	0.8 oz (24 cm ³)	
Inlet Fluid Connection	1/2" NPS(m)	
Outlet Fluid Connection (Pump)	3/8" NPS(m) or BSP(m)	
Outlet Fluid Connection (Filter)	1/4" NPS(m) or BSP(m)	
Air Connections	1/4" NPS(m) or 3/8" BSP(m)	
Wetted Materials	Stainless Steel, Hard Chrome, Nylon, PTFE, UHMWPE, Tungsten Carbide	
Max Fluid Pressure with included air motor	1,390 psi (96 bar)	3,712 psi (256 bar)
Air Consumption at 20 cycles per minute	2.2 SCFM	5.2 SCFM
Noise	88 dB	96 dB
Max Air Inlet Pressure	116 psi (8 bar)	
Max Recommended Continuous Cycle Rate	Up to 20 Cycles/minute	

Standard Outfits

MODEL	FEATURES														
	GPM at 60 cycles/min	Ratio	UHMWPE U-Cup Seal	PTFE/UHMWPE Packings	AA1600M Spray Gun with 114-01310 Flat Tip	AA1600M Spray Gun with 114-01310 Twist Tip	AA4400M Spray Gun with 114-01310 Flat Tip	AA4400M Spray Gun with 114-01310 Twist Tip	Air Assist Airless Air Control	Cart Mount	Tripod Mount	Wall Mount	Stainless Steel Filter	5 Gallon Siphon	25' of Fluid and Air Hose
MX412UC-EDC1S25	0.4	12:1	■	■				■	■			■	■	■	
MX412UC-FDC1S25	0.4	12:1	■		■			■	■			■	■	■	
MX412UC-EDT1S25	0.4	12:1	■	■				■		■		■	■	■	
MX412UC-FDT1S25	0.4	12:1	■		■			■	■			■	■	■	
MX412UC-EDW1S25	0.4	12:1	■	■				■		■		■	■	■	
MX412UC-FDW1S25	0.4	12:1	■		■			■	■			■	■	■	
MX432PU-GDC1S25	0.4	32:1		■		■		■	■			■	■	■	
MX432PU-HDC1S25	0.4	32:1		■			■	■	■			■	■	■	
MX432PU-GDT1S25	0.4	32:1		■				■		■		■	■	■	
MX432PU-HDT1S25	0.4	32:1		■				■	■			■	■	■	
MX432PU-GDW1S25	0.4	32:1		■			■	■			■	■	■	■	
MX432PU-HDW1S25	0.4	32:1		■				■	■			■	■	■	

0.4 GPM at 60 Cycles/Min 12:1 or 32:1

Special ordering options

MODEL	GPM at 60 cycles/min		FEATURES													
	Ratio		UHMWPE U-Cup Seal	PTFE/UHMWPE Packings	AA1600M Spray Gun with 114-01310 Flat Tip	AA1600M Spray Gun with 114-01310 Twist Tip	AA4400M Spray Gun with 114-01310 Flat Tip	AA4400M Spray Gun with 114-01310 Twist Tip	Air Assist Airless Air Control	Cart Mount	Tripod Mount	Wall Mount	Stainless Steel Filter	5 Gallon Siphon	25' of Fluid and Air Hose	
MX412UC-ODC0000	0.4	12:1	■					■	■							
MX412UC-ODT0000	0.4	12:1	■					■		■						
MX412UC-ODW0000	0.4	12:1	■					■			■					
MX412UC	0.4	12:1	■													
MX412PU-ODW0000	0.4	12:1		■				■			■					
MX412PU	0.4	12:1		■												
MX432PU-ODC0000	0.4	32:1		■				■	■							
MX432PU-ODT0000	0.4	32:1		■				■		■						
MX432PU-ODW0000	0.4	32:1		■				■			■					
MX432PU	0.4	32:1		■												
MX432UC-ODW0000	0.4	32:1	■					■			■					
MX432UC	0.4	32:1	■													

To...	Order...
Order a cart mounted pump not shown...	Order a wall mounted pump and add cart kit 0115-010186
Add a siphon...	Order either 5 gallon siphon 41-17238 or 55 gallon siphon 0115-010381 and adaptor 0115-010235
Add a high pressure fluid filter to a bare pump...	Order 0115-010326
Add outbound air and fluid hoses to an air assist airless air control...	MX412: Order one each of 71-4995, 71-6844, 71-4803 and two each of 83-4233 and 54-4976. MX432: Order one each of 71-4830, 54-4989 and two each of 54-4976 and 83-4233.
Add an air assist airless spray gun...	For an MX412 , order a spray gun 0909-1600-HF000 or 0909-1600-HT000. For an MX432 , order a spray gun 0909-4400-HF000 or 0909-4400-HT000. See back page for more spray gun information.
Convert a U-Cup seal pump to a packed pump...	Order 2 springs 0115-010111 and 1 of either seal kit (PTFE/Leather) 0115-010221, seal kit (PTFE) 0115-010223, or seal kit (PTFE/UHMWPE) 0115-010225
Convert a packing sealed pump to a U-Cup sealed pump...	Order 1 seal kit 0115-010219

Common repair kits and accessories

	MX412	MX432
Fluid Section Seal Kit, PTFE/Leather Packings	0115-010221	
Fluid Section Seal Kit, PTFE Packings	0115-010223	
Fluid Section Seal Kit, PTFE/UHMWPE Packings	0115-010225	
Fluid Section Seal Kit, UHMWPE U-Cup	0115-010219	
Fluid Section Repair Kit, PTFE/Leather Packings	0115-010222	
Fluid Section Repair Kit, PTFE Packings	0115-010224	
Fluid Section Repair Kit, PTFE/UHMWPE Packings	0115-010388	
Fluid Section Repair Kit, UHMWPE U-Cup	0115-010220	

	MX412	MX432
Air Motor Seal Kit	0115-010216	0115-010217
Air Motor Repair Kit	0115-010214	0115-010215
Air Motor Valve Repair Kit	0115-010226	
Air Motor Hardware Kit	0115-010213	
100 Mesh Element for Filter	0110-009132	
Throat Seal Lubricant for Waterborne Coatings	0114-014871	
Throat Seal Lubricant for Solventborne Coatings	0114-009433	
Service Literature: Bare Pump (motor and fluid section)	77-2906	77-2907
Service Literature: System Sheet	77-2912	77-2913
Service Literature: Spray Guns	77-2921 (AA1600M)	77-2922 (AA4400M)

Our low pulse design enables lower shaping air pressures for better transfer efficiency.



Magnetic Detent spool valve (patent pending) and quick dump air valves enable air motor to switch over quickly.

1.2 GPM @ 60 cycles/min supports 1-2 gun spraying.

Balanced, stepped rod fluid section with hard chromed surface minimizes wear and maximizes time-between-rebuilds.

	MX1212	MX1231
Pressure Ratio	12:1	31:1
Flow Rate at 60 cycles per minute	1.2 GPM (4.3 l/min)	
Displacement per cycle	2.4 oz (72 cm ³ /cycle)	
Inlet Fluid Connection	3/4" NPS(m)	
Outlet Fluid Connection (Pump)	3/8" NPS(m) or BSP(m)	
Outlet Fluid Connection (Filter)	1/4" NSP(m) or BSP(m)	
Air Connections	1/4" NSP(m) or 3/8" BSP(m)	
Wetted Materials	Stainless Steel, Hard Chrome, Nylon, PTFE, UHMWPE, Tungsten Carbide	
Max Fluid Pressure with included air motor	1,390 psi (96 bar)	3,596 psi (248 bar)
Air Consumption at 20 cycles per minute	5.2 SCFM	17.6 SCFM
Noise	96 dB	97 dB
Max Air Inlet Pressure	116 psi (8 bar)	
Max Recommended Continuous Cycle Rate	Up to 20 cycles/minute	

Standard Outfits

MODEL	FEATURES													
	GPM at 60 cycles/min	Ratio	UHMWPE U-Cup Seal	PTFE/UHMWPE Packings	AA1600M Spray Gun with 114-01310 Flat Tip	AA1600M Spray Gun with 114-01310 Twist Tip	AA4400M Spray Gun with 114-01310 Flat Tip	AA4400M Spray Gun with 114-01310 Twist Tip	Air Assist Airless Air Control	Cart Mount	Wall Mount	Stainless Steel Filter	5 Gallon Siphon	25' of Fluid and Air Hose
MX1212UC-EDC1S25	1.2	12:1	■	■				■	■		■	■	■	
MX1212UC-FDC1S25	1.2	12:1	■		■			■	■		■	■	■	
MX1212UC-EDW1S25	1.2	12:1	■	■				■		■	■	■	■	
MX1212UC-FDW1S25	1.2	12:1	■		■			■		■	■	■	■	
MX1231PU-GDC1S25	1.2	31:1		■		■		■	■		■	■	■	
MX1231PU-HDC1S25	1.2	31:1		■			■	■	■		■	■	■	
MX1231PU-GDW1S25	1.2	31:1		■		■		■		■	■	■	■	
MX1231PU-HDW1S25	1.2	31:1		■			■	■	■		■	■	■	

1.2 GPM at 60 Cycles/Min 12:1 or 31:1

Special ordering options

MODEL	GPM at 60 cycles/min		FEATURES											
	Ratio		UHMWPE U-Cup Seal	PTFE/UHMWPE Packings	AA1600M Spray Gun with 114-01310 Flat Tip	AA1600M Spray Gun with 114-01310 Twist Tip	AA4400M Spray Gun with 114-01310 Flat Tip	AA4400M Spray Gun with 114-01310 Twist Tip	Air Assist Airless Air Control	Cart Mount	Wall Mount	Stainless Steel Filter	5 Gallon Siphon	25' of Fluid and Air Hose
MX1212UC-0DC0000	1.2	12:1	■					■	■					
MX1212UC-0DW0000	1.2	12:1	■					■		■				
MX1212UC	1.2	12:1	■											
MX1212PU-0DW0000	1.2	12:1		■				■		■				
MX1212PU	1.2	12:1		■										
MX1231PU-0DC0000	1.2	31:1		■				■	■					
MX1231PU-0DW0000	1.2	31:1		■				■		■				
MX1231PU	1.2	31:1		■										
MX1231UC-0DW0000	1.2	31:1	■					■		■				
MX1231UC	1.2	31:1	■											

To...	Order...
Order a cart mounted pump not shown...	Order a wall mounted pump and add cart kit 0115-010186
Add a siphon to a bare pump...	Order either 5 gallon siphon 115-010236 or 55 gallon siphon 0115-010381
Add a high pressure fluid filter to a bare pump...	Order 0115-010326
Add outbound air and fluid hoses to an air assist airless air control...	MX1212: Order one each of 71-4995, 71-6844, 71-4803 and two each of 83-4233 and 54-4976. MX1231: Order one each of 71-4830, 54-4989 and two each of 54-4976 and 83-4233.
Add an air assist airless spray gun...	For an MX412 , order a spray gun 0909-1600-HF000 or 0909-1600-HT000. For an MX432 , order a spray gun 0909-4400-HF000 or 0909-4400-HT000. See back page for more spray gun information.
Convert a U-Cup seal pump to a packed pump...	Order 2 springs 0115-010152 and 1 of either 0115-010306, 0115-010308, 0115-010303
Convert a packing sealed pump to a U-Cup sealed pump...	Order 1 seal kit 0115-010304

Common repair kits and accessories

	MX1212	MX1231
Fluid Section Seal Kit, PTFE/Leather Packings	0115-010306	
Fluid Section Seal Kit, PTFE Packings	0115-010308	
Fluid Section Seal Kit, PTFE/UHMWPE Packings	0115-010303	
Fluid Section Seal Kit, UHMWPE U-Cup	0115-010304	
Fluid Section Repair Kit, PTFE/Leather Packings	0115-010307	
Fluid Section Repair Kit, PTFE Packings	0115-010309	
Fluid Section Repair Kit, PTFE/UHMWPE Packings	0115-010387	
Fluid Section Repair Kit, UHMWPE U-Cup	0115-010305	

	MX1212	MX1231
Air Motor Seal Kit	0115-010217	0115-010302
Air Motor Repair Kit	0115-010215	0115-010301
Air Motor Valve Repair Kit	0115-010226	
Air Motor Hardware Kit	0115-010213	0115-010300
100 Mesh Element for Filter	0110-009132	
Throat Seal Lubricant for Waterborne Coatings	0114-014871	
Throat Seal Lubricant for Solventborne Coatings	0114-009433	
Service Literature: Bare Pump (motor and fluid section)	77-2916	77-2918
Service Literature: System Sheet	77-2917	77-2919
Service Literature: Spray Guns	77-2921 (AA1600M)	77-2922 (AA4400M)

Choose an AA1600M or AA4400M Air Assist Airless spray gun for **MAX**imum performance!

- **Adjustable spray pattern:** Fine uniform atomization can be adjusted up to 40% to reduce overspray and waste.
- **Light weight spray gun and ergonomic handle** reduce operator stress and fatigue
- **Anodized Aluminum Air Caps** resist corrosion
- **HVLP or LVMP Technologies** provide a wider choice of spray options
- **Unique Twist Tip option** quickly & easily removes clogs
- **Easy to remove "IN-LINE" needle** reduces repair time

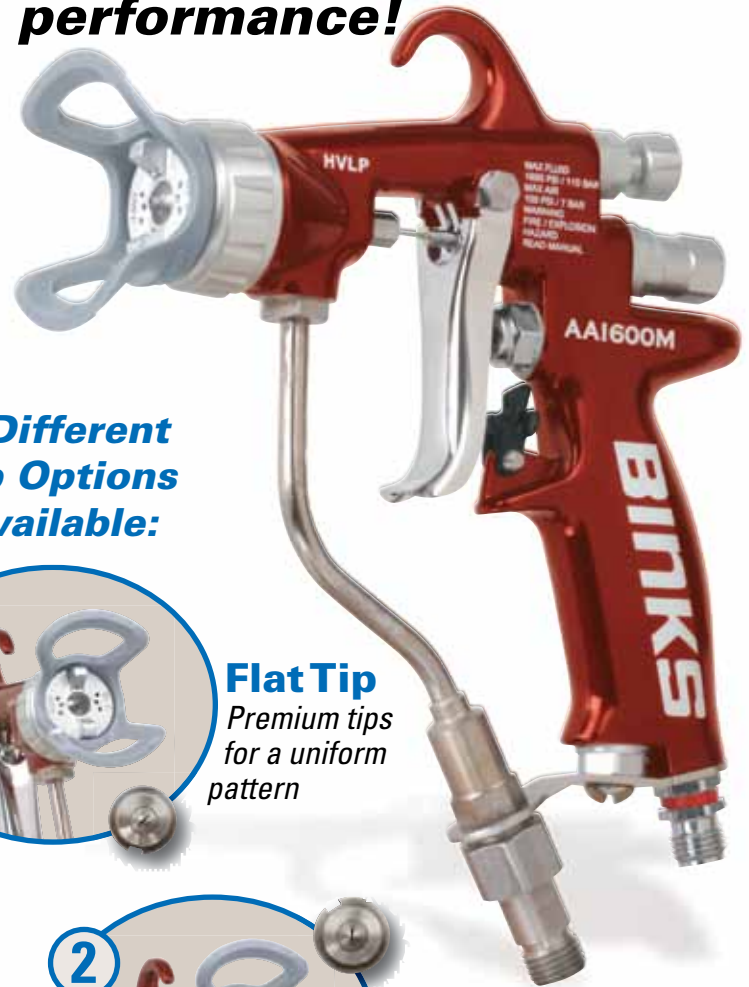
To order the spray gun you want

Option 1: Order a AA1600M spray gun or AA4400M spray gun with tip and complete **MX** pumping system from pages 3 to 7.

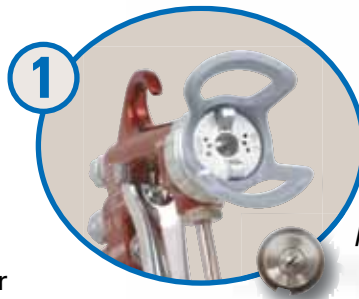
Option 2:

The spray gun and tip combination you want:	Order...	
	Spray Gun	Tip*
AA1600M (1600 psi) spray gun with flat finish tip, HVLP	0909-1600-HF0000	114-0xxxx
AA1600M (1600 psi) spray gun with fine finish tip, HVLP	0909-1600-HF0000	9-xxxx-F
AA1600M (1600 psi) spray gun with twist tip, HVLP	0909-1600-HT0000	9-xxx-75
AA4400M (4400 psi) spray gun with flat tip, HVLP	0909-4400-HF0000	114-0xxxx
AA4400M (4400 psi) spray gun with flat tip, LVMP	0909-4400-LF0000	114-0xxxx
AA4400M (4400 psi) spray gun with twist tip, HVLP	0909-4400-HT0000	9-xxx-75
AA4400M (4400 psi) spray gun with twist tip, LVMP	0909-4400-LT0000	9-xxx-75

*Refer to our spray gun sales literature for more information.



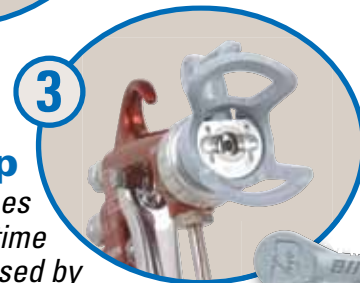
3 Different Tip Options Available:



Flat Tip
Premium tips for a uniform pattern



Fine Finish Tip
Pre-orifice for best particle distribution



Twist Tip
Reduces downtime caused by tip clogs



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