

**BINKS®**

HVLPR-2 7-01



# HVLP Spray Guns

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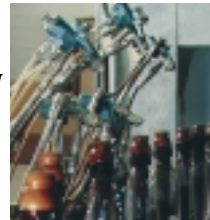
# HVLP Spray Guns

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In 1890, Binks pioneered the spray gun industry with the introduction of the first cold-water paint spraying machine.

Today, you can find spray from Binks at work in virtually the world. In the many years Binks has grown to be a world



finishing technology every industry around that have passed, leader in the design

and manufacture of finishing equipment, offering products in the industrial and automotive refinish markets.

The various catalog represent Binks extensive and airless spray and low pressure



spray guns and accessories shown in this a small part of product line. Binks also manufactures air painting outfits, high material handling pumps, pressure tanks, paint circulating systems, and much more.

Binks products are backed by a company 100 years experience in the spray finishing addition, Binks operates foreign subsidiary in the United Kingdom, Continental Europe, Japan, and

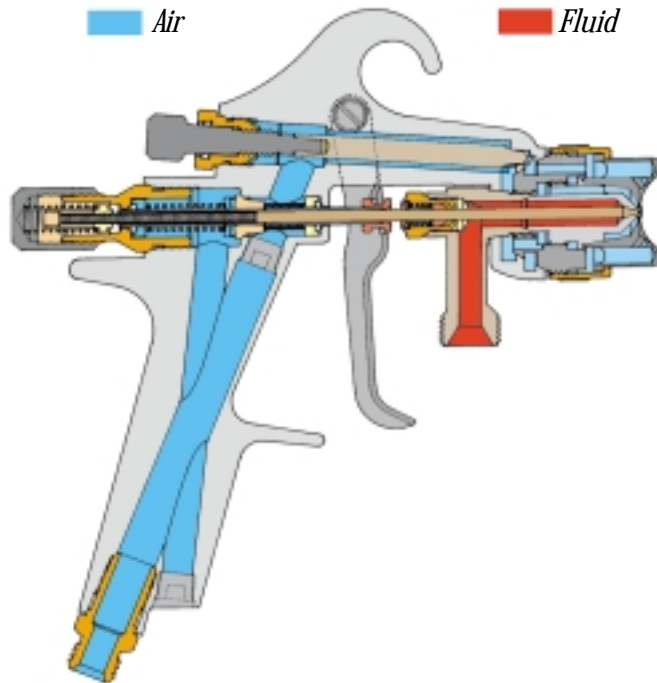


with over market. In companies Australia.

If you would like more information about our products, please contact us at our corporate headquarters in Glendale Heights, Illinois.

# HVLP

- ◆ *Easy-grip sideport & needle controls*
- ◆ *In-line fluid & air valve with low friction seals*
- ◆ *Drop-forged aircraft grade aluminum alloy body*
- ◆ *Smooth trigger action*



- ◆ *Anodized aluminum alloy air nozzle*
- ◆ *Stainless steel fluid needle*
- ◆ *Stainless fluid nozzle 17-4 PH*
- ◆ *Comfortable handle*
- ◆ *Modular gun head assembly*
- ◆ *Stainless steel fluid passage for use with standard and corrosive materials*

HVLP spraying has emerged as an important technology in today's industrial finishing. HVLP consumes higher volume air at lower pressure to atomize coatings. By reducing atomizing air pressure at the air nozzle, forward velocity of the spray is also reduced, minimizing "bounce back" and "overspray" from the article being coated. This results in substantial savings in coating materials, booth filter usage, and helps industrial finishing operations meet compliance regulations.



*HVLP Low Pressure Spray Gun Overspray*

Normal operating nozzle pressures range from 3 to 10 PSI, with air consumption from 8 to 22 CFM. Lower viscosity materials can be atomized from 3 to 5 PSI, while heavier materials and higher fluid deliveries require the higher air settings, upwards of 10 PSI.

The Binks MACH series of HVLP equipment operates and handles like traditional spray guns and uses standard factory compressed air. Operators adapt very quickly to the reduced overspray cloud of paint and the "soft spray" pattern provided by HVLP. The MACH series provides the finish quality craftsmen have come to expect from Binks equipment.



*Conventional High Pressure Spray Gun Overspray*

# MACH 1 HVLP System Features and Benefits

## Features...

- ◆ Compliance with all government regulations for “high volume, low pressure” spray guns
- ◆ Unique HVLP nozzle design for optimum materials atomization
- ◆ Stainless steel fluid passages, nozzle and needle make it compatible with waterborne coatings
- ◆ Oversize air and fluid control knobs
- ◆ Lightweight, rugged, aircraft grade forged aluminum alloy body

## Benefits...

- ◆ **Efficiency**  
Transfer efficiency as required by today’s air quality regulations
- ◆ **Material Savings**  
Cost efficient compressed air consumption ranges from 8 to 22 SCFM depending on operating pressure. A 1.5 to 5 horsepower air compressor is normally sufficient to supply atomizing air
- ◆ **Controllable**  
Total control of atomizing air pressure, fluid flow, and spray pattern, operates with compressed air from your shop or existing plant air supply
- ◆ **Operator Comfort**  
Lightweight, slimmer grip fits hand comfortably. And, compact body design centers weight over handle for perfect balance and less fatigue

## Binks...

*In 1890, Binks pioneered the spray gun industry with the introduction of the first cold-water paint spraying machine. Today, you can find Binks spray finishing technology at work in virtually every industry around the world. Binks extensive product line includes air and airless spray painting outfits, high and low pressure material handling pumps, pressure tanks, paint circulating systems, and much more.*



**Compliance with all government regulations for “high volume, low pressure” spray guns**

**Oversize air and fluid control knobs**

**Cartridges with self-adjusting packing**

**Unique HVLP nozzle design for optimum materials atomization**

**Stainless steel fluid passages, nozzle and needle make it compatible with waterborne coatings**

**New, compact body design centers weight over handle for perfect balance and less fatigue**

**Lightweight, rugged, aircraft grade forged aluminum alloy body, with slimmer grip, fits hand comfortably**

**Patented variable air flow within gun body**

# Standard Fluid & Air Nozzle

## Selection Guide For (Pressure & Siphon)

Consider the following points when selecting an air nozzle combination:

**A. Material To Be Sprayed –**  
Select the type of fluid you want to spray or a fluid which has the same characteristics as one of those listed.

**B. Method of Feeding –**  
(Material to the Spray Gun)  
Consider the speed of application, flow rate and the viscosity of the fluid to be sprayed.

**Air Nozzle –**  
Choice is determined by the type of fluid to be sprayed and the volume of air available for the spray gun.

**External Mix Nozzles –**  
The most widely used nozzles. Atomization is accomplished outside the nozzle. Spray patterns are adjustable from round to fan with all intermediate patterns.

**Siphon Type External Mix Nozzles –**  
(Designated with the letter “S”)  
Siphon material from a cup.  
Used generally for refinishing and touch-up work which do not require large quantities of paint.

**Pressure Type External Mix Nozzles –**  
(Designated with the letter “P”)  
Require pressure to feed the material to the nozzle. A pressure cup, pressure tank, or pump is necessary. Used for production work and where large quantities of fluid are handled. This type of nozzle has a greater range of fluid flow and does not limit the size of the paint container.

**C. Volume of Air –**  
(CFM Required)  
The cubic feet per minute (CFM) is the actual air used by the air nozzle. An increase of pressure subsequently

increases volume of air required by the air nozzle or vice versa. Assume that a compressor will produce 3 - 5 CFM per horsepower. Note: The greater the air consumption, the faster the fluid may be applied or the finer a given amount of fluid can be atomized.

**Fluid Nozzles –**  
(1) Choose the fluid nozzle by

determining the application speed you want and the approximate fluid viscosity. The faster the speed or the heavier the fluid, the larger the nozzle orifice size should be.

(2) Match the fluid nozzle to the desired air nozzle per the chart below.

(3) Select the material of consideration.  
**Note:** standard fluid nozzles are made of stainless steel.

### Pressure

| Viscosity                               | Fluid Nozzle | Air Nozzle (Pressure) | Air Volume at 10 PSI SCFM | Oz. Per Min. Flow | Pattern at 10” |
|---|--------------|-----------------------|---------------------------|-------------------|----------------|
| 18<br>Seconds<br>In a<br>Zahn<br>#2 Cup | 92<br>(.046) | 92P                   | 7                         | 10.1              | 15”            |
|   |              | 93P                   | 9                         | 10.1              | 15”            |
|   | 1.2 mm       | 94P                   | 13                        | 12.5              | 17.5”          |
|   |              | 95P                   | 21                        | 9.2               | 12.5”          |
|   |              | 97P                   | 21                        | 8.4               | 16”            |
|   |              | 95AP                  | 21                        | 10.6              | 16”            |
| 44<br>Seconds<br>In a<br>Zahn<br>#2 Cup | 94<br>(.55)  | 92P                   | 7                         | 7.4               | 12”            |
|   |              | 93P                   | 9                         | 7.7               | 14.5”          |
|   | 1.4 mm       | 94P                   | 13                        | 11.8              | 15”            |
|   |              | 95P                   | 21                        | 7.6               | 10”            |
|   |              | 97P                   | 21                        | 7.6               | 12”            |
|   |              | 95AP                  | 21                        | 7.4               | 12”            |
| 25<br>Seconds<br>In a<br>Zahn<br>#3 Cup | 97<br>(.07)  | 92P                   | 7                         | 9.4               | 12.5”          |
|   |              | 93P                   | 9                         | 9.8               | 15”            |
|   | 1.8 mm       | 94P                   | 13                        | 13.5              | 14”            |
|   |              | 95P                   | 21                        | 7.1               | 9.25”          |
|   |              | 97P                   | 21                        | 5.5               | 13”            |
|   |              | 95AP                  | 21                        | 10.3              | 14”            |
|   |              | 97AP                  | 21                        | 9.46              | 12.5”          |

*NOTE: Flow rates tested at 3 PSI fluid pressure with a 1 quart pressure cup.*

### Siphon

| Viscosity                               | Fluid Nozzle            | Air Nozzle (Siphon)     | Air Volume at 10 PSI SCFM | Oz. Per Min. Flow | Pattern at 10” |
|---|-------------------------|-------------------------|---------------------------|-------------------|----------------|
| 18<br>Seconds<br>In a<br>Zahn<br>#2 Cup | 94S<br>(.055)<br>1.4 mm | 95AS                    | 22                        | 4.0               | 13”            |
|   |                         | 97S<br>(.070)<br>1.8 mm | 22                        | 7.1               | 16”            |

# MACH 1SL (Slim Line) HVLP

The MACH 1SL HVLP is a lightweight, top quality, high performance spray gun. The superbly balanced forged aluminum body is ergonomically designed with a compact grip size, offering the operator extra comfort and control. All of the spray gun's components are machined and finished to exacting tolerances using only the highest quality materials, including long life self-adjusting packings to ensure years of peak efficiency.

The MACH 1 SL HVLP is simple to operate, and provides exceptional finish quality with all of today's complex coatings, including high solids, waterborne, industrial automotive, and aerospace coatings. All fluid contact surfaces within the spray gun, including inlet, nozzle and needle, are corrosion resistant for use with waterborne coatings.

In addition, specially designed air and fluid nozzles enable the MACH 1SL HVLP to operate at high transfer efficiency in compliance with air quality regulations as an HVLP spray gun.

## Model MACH 1SLA

Same features as the MACH 1SL, but with adjustable fluid inlet.



## Technical Specifications

|                 |                        |
|-----------------|------------------------|
| Body:           | Drop-forged aluminum   |
| Weight:         | 16.5 Oz.               |
| Air Inlet:      | 1/4" NPS (m)           |
| Fluid Inlet:    | 3/8" NPS (m)           |
| Fluid Passages: | Stainless Steel        |
| Feed Type:      | Pressure / Siphon Feed |
| Part Sheet:     | 2665                   |
| Gun Repair Kit: | 54-4278                |

## Most Popular Nozzle Set Ups:

MACH 1SL 94 - 94P  
 MACH 1SL 94 - 93P  
 MACH 1SL 92 - 94P  
 MACH 1SL 94 - 97P  
 Standard Fluid Nozzle and Needle are 303 Stainless Steel

See page 16 for additional standard and specialty fluid nozzle recommendations.

## MACH 1SL Gun Outfits:\*

|   |         |
|---|---------|
| 1 Qt. Siphon Cup                        | 98-1176 |
| 1 Qt. Pressure Assist Cup               | 98-1130 |
| 1 Qt. Pressure Cup w/Regulator 0-15 PSI | 98-1141 |
| 2 Qt. Remote Pressure Cup w/hoses       | 98-1198 |

# MACH 1 HVLP

The MACH 1 is a full size HVLP spray gun with special nozzles and modifications that allow it to operate at high transfer efficiencies in compliance with the California South Coast Air Quality Management District (SCAQMD) regulations as a high volume low pressure (HVLP) air spray gun.

Constructed of a lightweight drop-forged aluminum body and stainless steel fluid passages, including long life self-adjusting packings, this spray gun is designed to stand up under hard, continuous use. It operates like a conventional spray system utilizing compressed shop air.

## Technical Specifications

|                 |                        |
|-----------------|------------------------|
| Body:           | Drop-forged aluminum   |
| Weight:         | 20.1 Oz.               |
| Air Inlet:      | 1/4" NPS (m)           |
| Fluid Inlet:    | 3/8" NPS (m)           |
| Fluid Passages: | Stainless Steel        |
| Feed Type:      | Pressure / Siphon Feed |
| Part Sheet:     | 2463                   |
| Gun Repair Kit: | 54-3605                |

## Most Popular Nozzle Set Ups:

MACH 1 94 - 94P  
MACH 1 94 - 93P  
MACH 1 92 - 94P  
MACH 1 91 - 94P  
Standard Fluid Nozzle and Needle are  
303 Stainless Steel

See page 16 for additional standard and specialty fluid nozzle recommendations.



# MACH 1 HVLP Featherlite

A high production ultralight spray gun for continuous use spraying. Composite body, ergonomic design with compact grip size and superb balance are all quality features of this gun. The lightest production spray gun in its class. All fluid contact surfaces within this rugged, fine finish spray gun, including inlet, nozzle and needle, are corrosion resistant, for use with waterborne coatings. Long life self-adjusting packings are included, ensuring years of peak efficiency.

The MACH 1 Featherlite uses the full line of air and fluid nozzles and complies with regulations for air quality.

## Technical Specifications

|                 |                        |
|-----------------|------------------------|
| Body:           | Engineered Composite   |
| Weight:         | 12.8 Oz.               |
| Air Inlet:      | 1/4" NPS (m)           |
| Fluid Inlet:    | 3/8" NPS (m)           |
| Fluid Passages: | Stainless Steel        |
| Feed Type:      | Pressure / Siphon Feed |
| Part Sheet:     | 2668                   |
| Gun Repair Kit: | 54-4278                |

## Most Popular Nozzle Set Ups:

MACH 1 Featherlite 94 - 94P  
MACH 1 Featherlite 94 - 95AP  
Standard Fluid Nozzle is 303 Stainless Steel  
Standard Needle is Nylon Tip Stainless Steel

See page 16 for additional standard and specialty fluid nozzle recommendations.





# M1-G HVLP

The M1-G HVLP gravity feed spray gun not only complies with all air quality regulations, but also atomizes and sprays as quickly as a conventional air spray gun. An innovative low volume air nozzle designed specifically for automotive OEM and industrial use allows the M1-G to spray basecoats, clear coats, waterbornes, and high solids at fast application speeds with material savings of up to 50%. This comfortably light, superbly balanced spray gun is easy to operate and smooth to trigger with only 18 lbs. of inlet pressure required. M1-G employs a unique long lasting self-adjusting cartridge packing for simple replacement. Cup and nozzle are available in standard aluminum or E-Z Clean Solvent Saver coatings.



## Technical Specifications

Body: Drop-forged aluminum  
Weight: 21.9 Oz.  
Air Inlet: 1/4" NPS (m)  
Feed Type: Gravity  
Part Sheet: 2650  
Gun Repair Kit: 54-4367

## Most Popular Nozzle Set Ups:

M1-G 94 - 93P  
M1-G 97 - 93P  
Standard Fluid Nozzle and Needle are 303 Stainless Steel

## Accessories:

- 54-4250 1-1/3 Pint (.75 Liter) Aluminum Cup (Standard) (A)
- 54-4376 1-1/3 Pint (.75 Liter) Teflon®-Coated, Aluminum Cup (B)
- 54-4350 Gun Stand (C)



# 2001 HVLP

The 2001 HVLP siphon gun incorporates components and technology from the three best spray guns in the industry: The Binks MACH 1 HVLP, the Model 7 and the 2001 air spray guns. The forged aluminum alloy body of the 2001 HVLP spray gun is precision machined to insure years of smooth, reliable service. Stainless steel nozzles are designed to emit superior siphon spray. These nozzles spray not only all standard automotive and industrial coatings, but also the increasingly popular waterborne and low VOC coatings. High transfer efficiencies conserve a substantial amount of paint while complying with strict air quality regulations.

SCAQMD  
compliant

PRECISION CRAFTED  
100%  
TESTED  
ASSEMBLED  
BY HAND



98-1188

## Technical Specifications

Body: Drop-forged aluminum  
 Weight: 22 Oz.  
 Air Inlet: 1/4" NPS (m)  
 Fluid Inlet: 3/8" NPS (m)  
 Fluid Passages: Electroless-Nickel Plated, Brass  
 Feed Type: Siphon Feed  
 Part Sheet: 2626  
 Gun Repair Kit: 6-229

## Most Popular Nozzle Set Up:

2001 HVLP 97S - 95AS  
 Standard Fluid Nozzle and Needle are 303 Stainless Steel

## 2001 HVLP Gun Outfits:

1 Qt. Siphon Cup - Teflon® Coated  
 98-1188

## Standard Nozzles 2001 HVLP Selection Chart\*

| Siphon Feed   | Fluid Nozzle No. | Applicable Air Nozzles | Compatible Fluid Needle |
|---|------------------|------------------------|-------------------------|
| LIGHT: Light to medium materials. Auto body spot repairs.       | 94S              | 95AS                   | 194S                    |
| MEDIUM: Medium to heavy materials. Auto body overall finishing. | 97S              |                        | 197S                    |

\* Siphon set ups only

## HVLP Air Nozzles\*

95AS

| Gun Inlet PSI | Nozzle Atomizing Airflow - SCFM | Nozzle Atomizing Pressure - PSI |
|---------------|---------------------------------|---------------------------------|
| 20            | 11.0                            | 3                               |
| 30            | 15.7                            | 5                               |
| 45            | 19.6                            | 9                               |
| 50            | 22.5                            | 10                              |

\* Siphon set ups only

# Cub SLG And Cub SL Touch-Up Guns



## Cub SLG and Cub SL

The Cub SLG (gravity-feed) and the Cub SL (siphon/pressure) are the finest touch-up and specialty HVLP coatings guns available today.

Special air and fluid nozzles enable these guns to atomize fluid at low velocities, creating a soft spray effect. A range of fluid and air nozzles are available for both guns, making them adaptable for use with a variety of coatings. Superior transfer efficiencies result in material savings of up to 50 percent. Plus these guns have been ergonomically designed to give operators superb control and comfort over a wide range of uses.



## Cub SLG

A gravity feed, handle grip, touch-up spray gun with an aluminum cup. The Cub SLG gun's standard configuration includes a 4 oz. gravity cup; 8 oz. gravity cups are also available.

## Cub SL

The Cub SL gun is the latest addition to the Binks line of HVLP guns in use throughout the world. Perfect for touch-up or fine finish detail spraying. The Cub SL can be outfitted with an 8 oz. siphon or pressure-assisted cup.

### Cub SLG Specifications

Body: Drop-forged aluminum  
 Weight: 15.2 Oz.  
 Air inlet: 1/4" NPS (m)  
 Feed Type: Gravity  
 Part Sheet: 2735  
 Repair Kit: 54-4478

### Cub SLG Most Popular Nozzle Set-ups:

Cub SLG 55T - 2S  
 Cub SLG 40T - 2S

### Cub SL Specifications:

Body: Drop-forged aluminum  
 Weight: 12.3 Oz.  
 Air Inlet: 1/4" NPS (m)  
 Fluid Inlet: 1/4" NPS (m)  
 Fluid Passages: Stainless Steel  
 Feed Type: Pressure / Siphon Feed  
 Part Sheet: 2734  
 Gun Repair Kit: 54-4479

### Cub SL Most Popular Nozzle Set Ups:

Cub SL 55T - 2S  
 Cub SL 40T - 2S

### Cub SL Outfits:

Siphon - 8 Oz. Siphon Cup  
 98-637

Pressure Assist - 8 Oz. Cup  
 98-639

See page 18 for additional air pressure & fluid nozzle selection charts for Cub SLG and Cub SL.

# MACH 3SL & MACH 2A (Automatic)

## MACH 3SL

*(Hydraulically-assisted to 6000 PSI)*

The MACH 3SL combines the proven HVLP efficiency of the award-winning MACH 1 spray gun with hydraulically-assisted atomization to yield a highly reliable, carefully engineered special purpose spray gun.

Hydraulically-assisted atomization allows the fluid to be delivered to the spray gun at pressures up to 6000 PSI. The fluid is pre-atomized through an airless tip and atomization is completed by introducing high volume low pressure air to the pattern. The result is a finely atomized "soft spray" that produces a fine finish rivaling the high quality finish obtained with air atomization.

The MACH 3SL is designed for use with high viscosity coatings and is perfect for high production shops, heavy machinery, and metal fabrication. Consistently uniform finishes, low VOC materials, high solids, and waterbornes can be applied with this spray gun. The maximum operating fluid pressure of the MACH 3SL is 6000 PSI. It operates at high transfer efficiencies and fully complies with all government regulations for HVLP spray guns.

## Technical Specifications

Body: Drop-forged aluminum  
 Weight: 23 Oz.  
 Air Inlet: 1/4" NPS (M)  
 Fluid Inlet: 1/4" NPS (M)  
 Fluid Passages: Stainless Steel

### MACH 3SL (Hand Gun)

Maximum Fluid Inlet Pressure: 6000PSI  
 Part Sheet: 2666  
 Gun Repair Kit: 54-3645



HIGH PRESSURE  
6000 PSI



MACH 3SL - (Fluid Inlet Pressure-6000PSI)



MACH 2A - (Fluid Inlet Pressure-1000PSI)

## MACH 2A HVLP Automatic

*(Hydraulically-assisted to 1000 PSI)*

The MACH 2A gun combines proven HVLP efficiency with hydraulically-assisted atomization. The MACH 2A provides consistent coating by pre-atomizing pressurized fluid through a constrictive carbide nozzle. The gun satisfies SCAQMD requirements for HVLP air spray guns. Refer to chart at right for spray tip assemblies available.

### MACH 2A Technical Specification

Maximum Fluid Inlet Pressure: 1000 PSI  
 Part Sheet: 2552  
 Gun Repair Kit: 54-4405

| Part Number | Stamp No. | Orifice (inches) | Spray Width (at 12") |
|-------------|-----------|------------------|----------------------|
| 110-0904    | 0904      | .009             | 4                    |
| 110-0908    | 0908      | .009             | 8                    |
| 110-0910    | 0910      | .009             | 10                   |
| 110-1104    | 1104      | .011             | 4                    |
| 110-1108    | 1108      | .011             | 8                    |
| 110-1114    | 1114      | .011             | 14                   |
| 110-1304    | 1304      | .013             | 4                    |
| 110-1306    | 1306      | .013             | 6                    |
| 110-1308    | 1308      | .013             | 8                    |
| 110-1314    | 1314      | .013             | 14                   |
| 110-1504    | 1504      | .015             | 4                    |
| 110-1508    | 1508      | .015             | 8                    |
| 110-1510    | 1510      | .015             | 10                   |
| 110-1514    | 1514      | .015             | 14                   |
| 110-1804    | 1804      | .018             | 4                    |
| 110-1808    | 1808      | .018             | 8                    |
| 110-1810    | 1810      | .018             | 10                   |
| 110-1814    | 1814      | .018             | 14                   |
| 110-1820    | 1018      | .018             | 20                   |
| 110-2108    | 2108      | .021             | 8                    |
| 110-2110    | 2110      | .021             | 10                   |
| 110-2114    | 2114      | .021             | 14                   |
| 110-2120    | 2120      | .021             | 20                   |
| 110-2608    | 2608      | .026             | 8                    |
| 110-2610    | 2610      | .026             | 10                   |
| 110-2614    | 2614      | .026             | 14                   |
| 110-2620    | 2620      | .026             | 20                   |
| 110-3610    | 3610      | .036             | 10                   |

# AA1500 Air Assisted Airless Spray Gun

The unique tip and air cap design of the new Binks AA1500 Air Assisted Airless Spray Gun allows operators to use lower fluid and air pressure than the competition to achieve a superior finish. This means:

- Better transfer efficiency
- A softer spray pattern
- Less bounceback
- Lower booth maintenance costs
- Less overspray contaminating other parts
- Longer life on wear parts

Superior ergonomics equals superior economics. The “ergo-logic” design of the Binks AA1500 reduces operator fatigue which increases production rates, improves finish quality, and improves efficiency while reducing the risk of painful and costly CTD’s (Cumulative Trauma Disorders).

- Handle designed to fit comfortably in the hand
- Weighs 22% less than closest competitor (16 oz. vs. 20.4 oz)
- Trigger Pull Tension is 22% lighter than closest competitor (3.2 lbs. vs. 4.1 lbs.)
- Trigger Span/distance for full trigger pull is 33% less than closest competitor (.4" vs. .6")

The simple design of the Binks AA1500 Air-Assisted Airless spray gun means that parts changeouts can be accomplished in 3 to 5 minutes.

- Only 20 replaceable parts
- Component cartridge design for quick and easy repairs
- No special tools needed for repairs
- Low replacement costs on main wear parts (tips, needle/packing cartridge, seats, and air caps)

Accessory items include hoses, fittings, fluid seats, fluid filters, fluid regulators, repair and cleaning kit. The AA1500 spray gun can be ordered with or without a airless spray tip, and additional tips can be ordered separately. See spray tip selection chart elsewhere on this page for orifice size and fan required.



## Technical Specifications

|                        |   |
|------------------------|---|
| Maximum Fluid Pressure | 1500 psi/105 bar  |
| Maximum Air Pressure : | 100 psi / 6.8 bar   |
| Gun Body:              | Forged Aluminum   |
| Fluid Path:            | Stainless Steel   |
| Fluid Shut Off Type:   | Stainless Steel Ball  |
| Seat :                 | Standard UHMW or<br>Optional Tungsten Carbide                   |
| Fluid Inlet Size:      | 1/4" NPS (m) Thread   |
| Air Inlet Size:        | 1/8" NPT (m) x 3/8" O.D.<br>Push-In Tube Fitting or D.M. Nipple |
| Gun Weight:            | 16 oz / 500 g   |
| Part Sheet:            | 2666  |

## Airless Spray Tip - Fluid Flow Rate\*

| Orifice Size (Inches)  | 500 PSI oz./min. | 1000 PSI oz./min. | 1500 PSI oz./min. |
|--|------------------|-------------------|-------------------|
| <b>VERY THIN - Wash Primers, Dyes, Stains, Solvents, Water, Inks</b>   |                  |                   |                   |
| .009   | 4.5              | 5.7               | 6.8               |
| .012   | 9.2              | 11.7              | 15.5              |
| <b>THIN - Sealers, Lacquers, Primers, Ink, Zinc Chromate, Acrylics</b> |                  |                   |                   |
| .015   | 13.0             | 19.0              | 24.0              |
| <b>MEDIUM - Lacquers, Synthetics, Enamels, Varnishes, Shellacs.</b>    |                  |                   |                   |
| .018   | 12.0             | 19.0              | 26.0              |
| .021   | 14.0             | 24.0              | 32.0              |

Flow rate of fluid materials through spray tip, oz./min.  
\* Based on 1500 PSI with water. Actual results may vary, depending on material viscosity.

## Spray Tip Selection Charts

| PART NUMBER | SIZE | FAN WIDTH * |
|-------------|------|-------------|
| 113-00906   | .009 | 4" – 6"     |
| 113-00908   | .009 | 6" – 8"     |
| 113-00910   | .009 | 8" – 10"    |
| 113-00912   | .009 | 10" – 12"   |
| 113-00914   | .009 | 12" – 14"   |
| 113-01206   | .012 | 4" – 6"     |
| 113-01208   | .012 | 6" – 8"     |
| 113-01210   | .012 | 8" – 10"    |
| 113-01212   | .012 | 10" – 12"   |
| 113-01214   | .012 | 12" – 14"   |
| 113-01506   | .015 | 4" – 6"     |
| 113-01508   | .015 | 6" – 8"     |
| 113-01510   | .015 | 8" – 10"    |
| 113-01512   | .015 | 10" – 12"   |
| 113-01514   | .015 | 12" – 14"   |
| 113-01806   | .018 | 4" – 6"     |
| 113-01808   | .018 | 6" – 8"     |
| 113-01810   | .018 | 8" – 10"    |
| 113-01812   | .018 | 10" – 12"   |
| 113-01814   | .018 | 12" – 14"   |
| 113-02110   | .021 | 8" – 10"    |
| 113-02112   | .021 | 10" – 12"   |
| 113-02114   | .021 | 12" – 14"   |
| 113-02116   | .021 | 14" – 16"   |
| 113-02410   | .024 | 8" – 10"    |
| 113-02412   | .024 | 10" – 12"   |
| 113-02414   | .024 | 12" – 14"   |
| 113-02416   | .024 | 14" – 16"   |
| 113-02710   | .027 | 8" – 10"    |
| 113-02712   | .027 | 10" – 12"   |
| 113-02714   | .027 | 12" – 14"   |
| 113-02716   | .027 | 14" – 16"   |

\* Based on 1500 PSI with water. Actual results may vary, depending on material viscosity.

# MACH 1A & 1AR HVLP

## MACH 1A

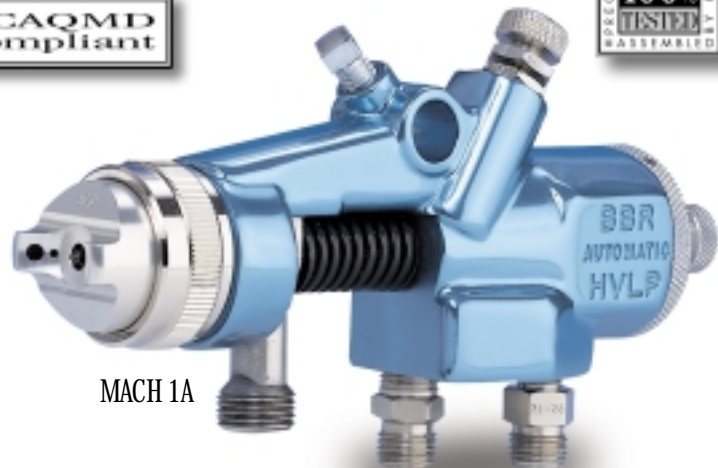
Incorporating some of the best features of our award winning MACH 1 HVLP spray gun, the MACH 1A Automatic offers total control of atomizing air pressure, side port air, fluid flow, and spray patterns in production settings which require automatic equipment. These features give it an exceptionally high degree of atomizing capability with a wide range of coatings. This spray gun provides transfer efficiency in compliance with all regulations for air quality as an HVLP air spray gun and meets SCAQMD Rules for HVLP.

Constructed of a lightweight drop-forged aluminum body and stainless steel fluid passages, the spray gun is designed to stand up under hard, continuous use. Ranges from 6 to 22 SCFM depending on operating pressure. A 1.5 to 5 horsepower air compressor is normally sufficient to supply atomizing air.

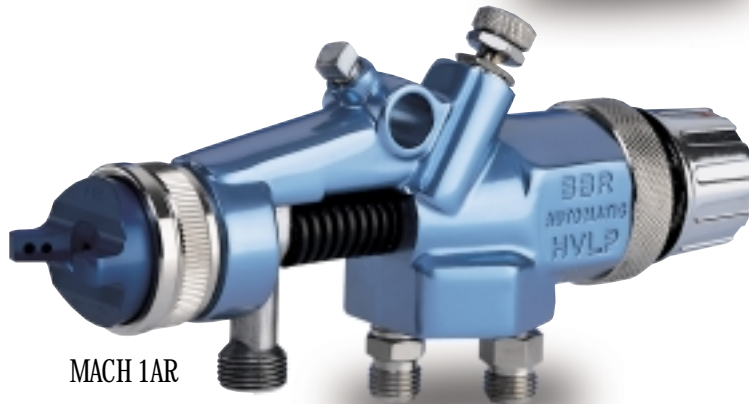
The MACH 1A also features independent control of atomizing and side port air, giving it an exceptionally high degree of atomizing capability with a wide range of coatings.

## MACH 1AR

Model MACH 1AR HVLP includes the same features as the MACH 1A Automatic except a ratchet adjustment is located on the back of the gun for indication of exact needle position. This gun is ideal for applications where visual indication of fluid needle location is essential. It is pneumatically activated for application in a variety of automated spray systems.



MACH 1A



MACH 1AR

## Most Popular Nozzle Set Ups:

- MACH 1A 94 - 94P
- MACH 1A 94 - 93P
- MACH 1A 92 - 94P
- MACH 1A 91 - 94P
- Standard Fluid Nozzle and Needle are 303 Stainless Steel

## Accessories:

- Mounting Bracket: 54-380
- Gun Covers: 54-3691 (Package of 20)
- Needle Packing Guard: 54-4270
- Heavy Duty Spring: 54-4096

## Technical Specifications

|                             |                           |
|-----------------------------|---------------------------|
| Body:                       | Drop-forged aluminum      |
| Weight:                     | 20.5 Oz.                  |
| Cylinder Air Inlet:         | 1/4" NPS (M)              |
| Cylinder Air Pressure:      | 40 PSI Min<br>100 PSI Max |
| Atomization Air:            | 1/4" NPS (M)              |
| Fluid Inlet:                | 3/8" NPS (M)              |
| Fluid Passages:             | Stainless Steel           |
| Fluid Pressure:             | 100 PSI Max               |
| Mounting Hole:              | 1/2" Dia.                 |
| Part Sheet:                 | 2467                      |
| Gun Repair Kit:             | 54-3980                   |
| Packing Kit (Minus Needle): | 54-4261                   |

# MACH 1A

## Automatic Nozzle & Needle Selection Charts

### Standard Nozzles MACH 1A Selection Chart

| Type of Fluid to Be Sprayed  | Fluid Nozzle                                     | Applicable Air Nozzle*                        | Compatible Fluid Needle + |
|--|--|---|---------------------------|
| ULTRA LIGHT / Reduced flow   | 89 (.020" Dia.) 0.5 mm                           | 95P, 97P,<br>92P, 93P<br>95AP*, 97AP*,<br>94P | 47-478                    |
| VERY LIGHT / Reduced flow  | 90 (.030" Dia.) 0.8 mm                           |   | 47-478                    |
| LIGHT: Less than 15 to 20 seconds in a Zahn 2 Cup, e.g. stains, varnishes, thin lacquers, automotive refinishing materials | 91 (.040" Dia.) 1.0 mm<br>92 (.046" Dia.) 1.2 mm |   | 47-478                    |
| MEDIUM: 20 to 60 seconds in a Zahn 2 Cup, e.g., general industrial coating   | 94 (.055" Dia.) 1.4 mm                           |   | 47-478                    |
| HEAVY: Greater than 60 seconds in a Zahn 2 Cup   | 97 (.070" Dia.) 1.7 mm                           |   | 47-478                    |

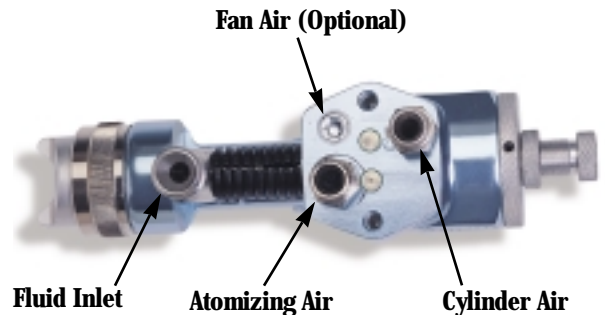
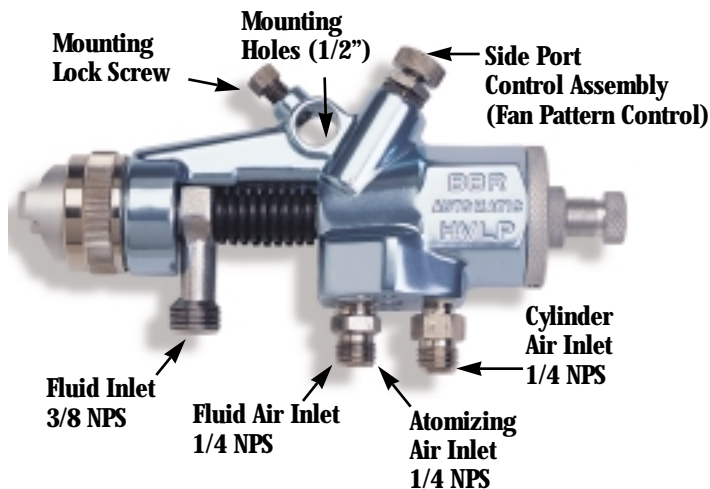
\* For air nozzle CFM usage see page 16

• "Blue Max" fine finish nozzles

### Special Purpose Nozzles MACH 1A Selection Chart

| Type of Fluid to Be Sprayed   | Fluid Nozzle           | Air Nozzle             | Fluid Needle + |
|---|------------------------|------------------------|----------------|
| <b>VERY HEAVY MATERIALS:</b><br>Block fillers, texture coatings, fire retardants, road marking paint, bitumastics, adhesives, cellular plastisols, underbody & vitreous coatings, special applications. | 94VT (.052") 1.3 mm Δ  | 95P, 97P               | 54-3966        |
|   | 901VT (.066") 1.6 mm Δ | 94P                    | 54-3967        |
|   | 903 (.079") 2.0 mm     | 905P, 907P             | 47-478         |
|   | 905 (.089") 2.3 mm     |                        | 54-3968        |
|   | 905VT (.088") 2.3 mm Δ |                        | 47-478         |
|   | 906 (1.00") 2.5 mm     |                        | 47-478         |
|   | 909 (.111") 2.8 mm     | 95P, 97P<br>95AP, 97AP | 54-3969        |
|   | 909VT (.112") 2.8 mm Δ |                        | 54-4032        |
|   | 90F (.030") 0.8 mm     |                        | 54-4033        |
|   | 91F (.040") 1.0 mm     |                        | 54-4034        |
| 92F (.046") 1.2 mm  | 54-4036                |                        |                |
| 94F (.055") 1.4 mm  | 95AP, 97AP             | 54-4039                |                |
| 97F (.070") 1.7 mm  |                        |                        |                |

+ Stainless steel, standard. Optional Nylon tipped stainless steel, 47-472, available. Δ Carbide Tip



# Air & Fluid Nozzle Selection Chart

## Standard Air & Fluid Nozzles

| Type of Fluid to Be Sprayed  | Fluid Nozzle No.       | Applicable Air Nozzles | MACH 1 Fluid Needle | MACH 1 SL Fluid Needle | Featherlite Fluid Needle |
|--|------------------------|------------------------|---------------------|------------------------|--------------------------|
| <b>ULTRA LIGHT/Reduced flow</b>  | 89 (.020" Dia) 0.5 mm  |                        |                     |                        |                          |
| <b>VERY LIGHT/Reduced flow</b>   | 90 (.030" Dia) 0.8 mm  | 90***                  |                     |                        |                          |
| <b>LIGHT:</b> Less than 15 to 20 seconds in a Zahn 2 Cup, e.g., stains, varnishes, thin lacquers, automotive refinishing fluids. | 91 (.040" Dia.) 1.0 mm | 95P, 97P               | 54-3941♦            | 54-4382♦               | 54-4381<br>(Nylon Tip)   |
|  | 92 (.046" Dia) 1.2 mm  | 92P*                   |                     |                        |                          |
| <b>MEDIUM:</b> 20 to 60 seconds in a Zahn 2 Cup e.g., general industrial coatings.   | 94 (.055" Dia.) 1.4 mm | 95AP, 97AP**           |                     |                        |                          |
| <b>HEAVY:</b> Greater than 60 seconds in a Zahn 2 Cup  | 97 (.070" Dia.) 1.7 mm | 93P                    |                     |                        |                          |
|  |                        | 94P                    |                     |                        |                          |

♦ *STANDARD: Fluid needle is stainless steel*

*NOTE: Binks needles AB and ABS (54-3609 & 54-3616) may be used, but require readjustments of the needle cap and locknut position*

*OPTIONAL: Stainless steel with nylon tip (54-3940 MACH 1) (54-4381 MACH 1SL Featherlite)*

## Special Purpose Nozzles

| Type of Fluid to Be Sprayed   | Fluid Nozzle No.                    | Applicable Air Nozzles | MACH 1 Compatible Fluid Needle | MACH 1 SL Compatible Fluid Needle | Featherlite Compatible Fluid Needle |
|---|-------------------------------------|------------------------|--------------------------------|-----------------------------------|-------------------------------------|
| <b>VERY HEAVY MATERIALS:</b><br>Block Fillers, Texture Coatings, Fire Retardants, Bitumastics, Road Marking Paint, Adhesives, Cellular Plastics, Underbody & Vitreous Coatings, Special Applications. | 94VT (.052") 1.3 mm<br>Carbide Tip  | 95P, 97P<br>94P        | 54-3950                        | 54-4383                           | 54-4383                             |
|   | 901VT (.066") 1.6 mm<br>Carbide Tip | 905P                   | 54-3951                        | 54-4384                           | 54-4384                             |
|   | 903 (.079") 2.0 mm                  |                        | 54-3941 / 54-3940              | 54-4382 / 54-4381                 | 54-4382 / 54-4381                   |
|   | 905 (.089") 2.3 mm                  |                        | 54-3941 / 54-3940              | 54-4382 / 54-4381                 | 54-4382 / 54-4381                   |
|   | 905VT (.088") 2.3 mm<br>Carbide Tip |                        | 54-3952                        | 54-4385                           | 54-4385                             |
|   | 906 (.100") 2.5 mm                  |                        | 54-3941 / 54-3940              | 54-4382 / 54-4381                 | 54-4382 / 54-4381                   |
|   | 909 (.111") 2.8 mm                  |                        | 54-3941 / 54-3940              | 54-4382 / 54-4381                 | 54-4382 / 54-4381                   |
| 909VT (.112") 2.8 mm<br>Carbide Tip   |                                     | 54-3953                | 54-4386                        | 54-4386                           |                                     |
| <b>FEATHERING:</b><br>For applications requiring more gradual fluid needle valve opening for metering control of fluid flow with trigger.   | 90F (.030") 0.8 mm                  | 94P                    | 54-4022                        | 54-4387                           | 54-4387 / 54-4388                   |
|   | 91F (.040") 1.0 mm                  | 95P, 97P               | 54-4023                        | 54-4388                           |                                     |
|   | 92F (.046") 1.2 mm                  | 92P*                   | 54-4024                        | 54-4389                           | 54-4389                             |
|   | 94F (.055") 1.4 mm                  | 95AP**•                | 54-4026                        | 54-4390                           | 54-4390                             |
|   | 97F (.070") 1.7 mm                  | 97AP***•               | 54-4029                        | 54-4391                           | 54-4391                             |
| <b>SIPHON FEED-FINE FINISH:</b><br>Light to medium fluids<br>Auto body spot repairs<br>Medium to heavy fluids<br>Auto body overall finishing  | 94s (.055") 1.4 mm                  | 95AS•                  | 54-4026                        |                                   |                                     |
|   | 97s (.070") 1.7 mm                  |                        | 54-4029                        | 54-4390<br>54-4391                | 54-4390<br>54-4391                  |

- \* 92P Low volume nozzle for general industrial and automotive fine finish
- \*\* 95AP High solids nozzle for hard to atomize coatings and higher flow rates  
97AP Same as 95AP, but for wider fan if needed
- \*\*\* 90P Low volume nozzle, 1 1/2 HP compressor or bigger - (6 CFM) required
- 95AP, 95AS, 97AP, air nozzles do not require separate retainer ring



# HVLP Air Nozzles - CFM Ratings

## HVLP Air Nozzle\* 90P

| Nozzle Atomizing PSI | Nozzle Air Flow SCFM | #6 (Standard) Side Port Control Gun Inlet PSI |
|----------------------|----------------------|---|
| 3                    | 4.0                  | 5   |
| 5                    | 4.5                  | 7   |
| 7                    | 5.0                  | 10  |
| 9                    | 5.5                  | 12  |
| 10                   | 6.0                  | 15  |

## HVLP Air Nozzles\* 92P

| Nozzle Atomizing PSI | Nozzle Air Flow SCFM | #6 (Standard) Side Port Control Gun Inlet PSI | Regulator* PSI |
|----------------------|----------------------|---|----------------|
| 3                    | 4.5                  | 6.0   | 9              |
| 5                    | 6.0                  | 8.5   | 10             |
| 7                    | 6.8                  | 11.0  | 14             |
| 9                    | 7.5                  | 13.5  | 18             |
| 10                   | 8.0                  | 15.0  | 19             |

## HVLP Air Nozzles\* 93P

| Nozzle Atomizing PSI | Nozzle Air Flow SCFM | #6 (Standard) Side Port Control Gun Inlet PSI | Regulator* PSI |
|----------------------|----------------------|---|----------------|
| 3                    | 5.5                  | 8.0   | 10.0           |
| 5                    | 7.0                  | 11.5  | 14.0           |
| 7                    | 8.0                  | 14.5  | 18.0           |
| 9                    | 9.5                  | 17.0  | 22.5           |
| 10                   | 10.0                 | 18.0  | 24.0           |

## HVLP Air Nozzle\* 94P

| Nozzle Atomizing PSI | Nozzle Air Flow SCFM | #6 (Standard) Side Port Control Gun Inlet PSI |
|----------------------|----------------------|---|
| 3                    | 7                    | 14  |
| 5                    | 9                    | 21  |
| 7                    | 11                   | 27  |
| 9                    | 12                   | 30  |
| 10                   | 13                   | 33  |

## HVLP Air Nozzles\* 95P, 97P, 95AS, 95AP, 97AP, 905P,

| Nozzle Atomizing PSI | Nozzle Air Flow SCFM | #6 (Standard) Side Port Control Gun Inlet PSI | Regulator* PSI |
|----------------------|----------------------|---|----------------|
| 3                    | 11.0                 | 20  | 27             |
| 5                    | 15.7                 | 30  | 40             |
| 7                    | 17.5                 | 38  | 50             |
| 9                    | 19.6                 | 45  | 58             |
| 10                   | 22.5                 | 50  | 64             |

*\* Note: Regulator pressures are based on 25' of 5/16" diameter hose in good condition without Quick-Disconnects or other restrictive fittings. Use the Air Nozzle Test Gauge accessory to confirm the atomizing/regulator pressure relationship for your actual air supply set-up. These recommendations are for "typical" or "average" fluids and are intended to serve as a starting point. Adjust as necessary for your specific application.*

## HVLP Extensions

| Length | For MACH1, MACH1SL and MACH 1A Guns | Price    |
|--------|-------------------------------------|----------|
| 6"     | 52-3706                             | \$342.00 |
| 12"    | 52-3712                             | 348.00   |
| 18"    | 52-3718                             | 364.00   |
| 24"    | 52-3724                             | 369.00   |
| 30"    | 52-3730                             | 481.50   |
| 36"    | 52-3736                             | 508.00   |
| 42"    | 52-3742                             | 561.75   |
| 48"    | 52-3748                             | 609.90   |
| 49"    | 52-3749                             | 615.00   |
| 54"    | 52-3754                             | 722.25   |
| 60"    | 52-3760                             | 749.00   |

### HOW TO ORDER AND PRICE EXTENSION

Prices which are listed for various type extensions ONLY. Please order as follows:

Extension with gun, (1) MACH1SL No. 52-3712 . 12" Extension and Gun (Specify Nozzle Set-up)

Extension ONLY, (1) MACH1SL No. 52-3712 . . . 12" Extension (Specify Nozzle Set-up)

To figure price of any extension complete with gun, take price of gun, add price of extension, and then DEDUCT Standard Charge of \$117.00 for removing standard Nozzle kit from gun. Thus, above gun would be priced (MACH1SL Gun) \$385.00 plus \$348.00 (for 12" No. 52-3712 extension) less \$117.00 (for leaving off standard nozzle kit) or \$616.00.

*\*Other lengths and styles are available – please call customer service for pricing. Gun extensions are special order and are not subject to return*

# Cub SLG & Cub SL Charts

## Air Pressure Recommendations (Cub SLG & Cub SL)

| Type Of Fluid To Be Sprayed             | Atomizing PSI | Gun Inlet PSI |
|---|---------------|---------------|
| Light Stains, Inks                      | 3-4           | 20-26         |
| Primers / Surfaces                      | 4-5           | 26-30         |
| Acrylic Enamels                         | 6-7           | 35-40         |
| Lacquers                                | 7-8           | 40-42         |
| Low VOC Clears, Basecoats and Urethanes | 8-10          | 42-50         |

## Cub SLG & SL Accessories

| Part / Description                                    | Part No. |
|---|----------|
| Cub SLG Spray Gun with 54-4458 4 oz. cup 55T x 2S     | Standard |
| 3 oz. Gravity-Feed Cup Assembly                       | 54-4147  |
| 8 oz. Gravity-Feed Cup Assembly                       | 81-381   |
| Cub SL Spray Gun (gun only) 55T x 2S                  | Standard |
| 8 oz. Cub SL Siphon Cup Outfit (gun and cup)          | 98-637   |
| 8 oz. Cub SL Pressure Assist Cup Outfit (gun and cup) | 98-639   |
| 8 oz. Siphon Cup Assembly                             | 81-384   |

*The Cub SL part sheet number is 2734; the Cub SLG part sheet number is 2735.*

## Fluid Nozzle Selection Chart for MACH 1 Cub SLG & Cub SL

| Type Of Fluid To Be Sprayed   | Fluid Nozzle No.   |
|---|--|
| <b>VERY LIGHT</b> / 14 to 16 seconds in a Zahn 2 Cup<br>e.g., wash primers, dies, inks, water.  | 20T (.020 in. [.4mm] dia. opening)<br>25T (.025 in. [.6mm] dia. opening)<br>30T (.030 in. [.8mm] dia. opening) |
| <b>LIGHT / MEDIUM:</b> less than 15 to 20 seconds in a Zahn 2 Cup, e.g., stains, varnishes, thin lacquers, automotive refinishing materials | 40T (.040 in. [1.0mm] dia. opening)  |
| <b>MEDIUM:</b> 20 to 30 seconds in a Zahn 2 Cup, e.g., general industrial coatings  | 55T (.055 in. [1.4mm] dia. opening)  |
| <b>HEAVY:</b> greater than 30 seconds in a Zahn 2 Cup, e.g., low VOC coatings   | 55T (.055 in. [1.4mm] dia. opening)  |

*All fluid nozzles use the 2S (siphon).*

*\*For Cub SL spray guns using pressure or pressure-assist, use nozzle 20T for light/medium materials, and nozzle 30T for heavier materials. Use of larger nozzles or very light materials with a pressurized gun will result in excessive material flow and is not recommended.*

## Air Pressure & Flows

| Gun Inlet Pressure (PSI)* | Nozzle Atomizing Air Flow (SCFM)<br>2S Air Nozzle† | Nozzle Atomizing Pressure (PSI) |
|---------------------------|--|---------------------------------|
| 20                        | 6.0  | 3                               |
| 30                        | 7.5  | 5                               |
| 45                        | 10.0   | 9                               |
| 50                        | 11.0   | 10                              |

*\*Gun inlet pressure is measured at the gun inlet fitting with the gun triggered.  
†8" to 10" spray pattern at 8".*

# HVLP Accessories

## Check Valves



54-4322 3-pack. Used with (98-1130) Short  
54-4321 3-pack. (98-1141, 98-1142) Long

## 45 & 90 Deg. Angle Heads



For MACH 1 and MACH 1A spray guns only.  
Part Number 54-4090 90 degree angle  
head, Part Sheet 2635  
Part Number 54-4091 45 degree angle  
head, Part Sheet 2635

## 85-250 Regulator



Part Number 85-250  
Air Regulator controls air pressure in the  
80-280 one quart pressure cup and provides  
accurate control of fluid pressure for  
optimum spray pattern control. Prevents  
over-pressurizing the cup and is adaptable to  
all MACH 1 spray guns.

Inlet: 1/4" NPS(m)  
Outlet: 1/4" NPS(f)

## 80-300 Cup



Part Number 80-300  
Stainless Steel Cup consists of 80-292 1 Qt.  
Clamp Type Cup with Vent Valve, 85-250  
PLUS Regulator, and Connector Tube.

## 81-375 No Drip Cup For Siphon Gun (EZ2)



Also Available:  
Part Number 80-272 SS Pressure Cup  
(No regulator)

## 80-350 SG-2 Cup



Part Number 80-350  
Ideal for automotive component spraying  
and industrial applications where small  
batch production spraying is required.  
(2 qt. capacity)

## SG2 Cup Liners



Part Number 80-356 includes 12 plastic  
liners for easy clean-up.

## Extensions



|         |     |         |     |
|---------|-----|---------|-----|
| 52-3706 | 6"  | 52-3736 | 36" |
| 52-3712 | 12" | 52-3749 | 49" |
| 52-3718 | 18" | 52-3760 | 60" |
| 52-3724 | 24" |         |     |

Note: Extensions may be joined together for  
added length. Specify new needle length.  
Extensions are sold less air cap and fluid  
nozzles. Specify spray gun model that will  
be used with the extension. Part Sheet 2557.

## Fluid Inlet



Part Number 54-4330  
Adjustable fluid inlet allows finger-tip  
control of coatings without fluid needle  
interference. Fits both hand & automatic  
guns.

## Air Nozzle Test Gauge



| Part Number | Description                      |
|-------------|----------------------------------|
| 54-3622     | 92HA & 93HA Nozzle<br>(MACH 3SL) |
| 54-3774     | 95HA MACH 2SL & 3SL              |
| 54-3902     | 91P & 92P Nozzles                |
| 54-3908     | 900 Series                       |
| 54-3935     | 95 & 97 Series                   |
| 54-4078     | 95AS & 97AS Nozzles<br>(Siphon)  |
| 54-4150     | 2S, 2P Cub Gun                   |
| 54-4345     | 90P Nozzle                       |
| 54-4356     | 93P Nozzle                       |
| 54-4066     | 94P Nozzle                       |

## Needle Packing Kits

Part Number 54-4261  
Self Adjusting Packing  
Part Number 54-4262  
Self Adjusting Packing with Needle  
Part Number 54-4370  
Cartridge Packing

## Repair Kits

|                  |         |
|------------------|---------|
| MACH 1           | 54-3605 |
| MACH 1A & 1AR    | 54-3980 |
| MACH 1SL         | 54-4278 |
| MACH 3SL         | 54-3645 |
| MACH 2A          | 54-4405 |
| MACH Featherlite | 54-4278 |
| MI-G Gravity     | 54-4367 |
| 2001 HVLP        | 6-229   |
| MACH 1 Cub SL    | 54-4479 |
| MACH 1 Cub SLG   | 54-4478 |

## Ratchetback (Auto-Gun)

Part Number 54-3582  
Specially designed for applications where visual  
indication of fluid needle location is essential.  
Adjustments numbered 1-9 on the back of the  
spray gun conveniently indicate exact needle  
position. Part Sheet: 2672

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