Selecting The Right Equipment

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It’s Critical to Use the Right Equipment for Each Application

Using the right equipment for each step of any spray finishing process is typically the difference between hitting quality, productivity and profitability targets – and not hitting them. Additionally, the ever increasing diversity of finishes dictates careful selection and proper use of equipment.

With nearly 220 years of collective leadership in the spray finishing industry, Binks and DeVilbiss continue to set the equipment standards other brands strive to achieve. Regardless of metal type, new and varied coating materials, or other special requirements, Binks and DeVilbiss are dedicated to supporting you with a team of experts – Metal Finishing Specialists, Equipment Design Engineers, Technicians, Trainers and Customer Service Professionals.

We’re here to help you improve every aspect of your spray finishing operation – Higher Quality, Increased Productivity, New Cost-Efficiencies, Reduced Downtime, Environmental Compliances…and Improved Bottom-Line Results.

Find Your Solutions
Toll Free Customer Support and Technical Assistance
800-992-4657 USA & Canada Only

Toll Free Fax
888-246-5732 USA & Canada Only

MSDS sheets are available on the web
www.binks.com • www.devilbiss.com

Ask Us About
Seeing Is Believing
ONSITE DEMO/TRIAL PROGRAM
Spray Application Processes

Atomization Technology Options

Conventional, HVLP, LVMP (Trans-Tech), Air Assist Airless and Airless are all types of Atomization technology, each has slightly different operating parameters.

Conventional Air Atomizing

The most established method of air atomizing, used on spray guns for decades. It uses high velocity air jets to produce a very high atomization power. However, this speed results in low transfer efficiency due to considerable “bounce-back” and overspray. Air pressure exiting the air cap during use is typically 30 to 60 psi (2 to 4 bar) with typical air consumption of 6 to 25 cfm (170 to 700 l/min).

High Volume Low Pressure (HVLP)

Although not new, this method first became important in the early 1990s when environmental legislation started to be introduced. It uses larger air volumes (11 to 30 cfm or 300 to 840 l/min) at low pressure to atomize the coating. HVLP has a much higher transfer efficiency than conventional air atomizing due to the lower air pressures. The droplet sizes produced tend to be slightly larger, sometimes resulting in a lower quality finish. Officially HVLP is limited by Government Environmental Legislation to a maximum of 10 psi (0.7 bar) atomizing pressure measured at the air cap.

Trans-Tech (LVMP)

This equipment type was first seen in the mid 1990s and is a mixture of Conventional and HVLP atomization methods. Trans-Tech makes more energy available for the atomization process but gives a higher transfer efficiency of coating material than the Conventional air atomizing method. To qualify as Trans-Tech the air cap must be able to transfer at least 65% of the sprayed material to the sprayed component (BSEN 13966 Determination of Transfer Efficiency of atomizing and spraying equipment for liquid coating materials). Air cap pressure is typically in the region of 20 to 45 psi (1.3 psi to 3 bar) while using 9 to 20 cfm (250 to 560 l/min) to carry out its work.

Air Assist Airless

To maximize efficiency, the best features of air spray and airless atomization are combined. This process is called Air Assist Airless. The pattern is formed by the spray tip and air is used to eliminate tails and adjust the shape. Air Assist Airless provides fast application of materials, a soft spray that reduces fog, and the ability to penetrate into recesses and cavities. This is especially important in the wood industry where intricate shapes require a fine finish.

Airless

Fluid is atomized by high pressure usually 500 to 4500 PSI and pushed through an orifice in the spray nozzle. The shape of the fluid orifice determines the fan pattern. The particle size is larger than other spray methods so it is not generally used for fine finishes.

Advantages: Airless spray has a high transfer efficiency, allows for high speed production, and provides less overspray.

Fluid Delivery Options

Siphon-Feed

Siphon-feed hookups (external atomization) use vacuum created at the nozzle to draw fluid from a cup.

Advantages: This fluid cup system offers quick material / color changes.

Pressure-Feed

This option uses an external pressure source (pressure tank, piston pump, or diaphragm pump) to force air and fluid to the spray gun nozzle. Air and fluid are then mixed outside the nozzle (external mix air caps).

Advantages: This method delivers higher volumes of fluids than other gun set ups, and will spray a wider range of materials. It also enables independent control of fluid pressures.

Gravity-Feed

On Gravity-feed guns the cup is located above the gun. The force of gravity pushes the fluid into the gun.

Advantages: This method offers quick color changes and convenience on small jobs or touch-up applications. Gravity guns are able to use all of the coating – reducing waste.
Primer / Epoxy

Conventional: Pressure-Feed

DeVilbiss
MBC-510 Gun
Part # MBC-510-64 HDD

DeVilbiss
JGA Gun
Part # JGA-510-64HDD

Binks
95 Gun 67SS - 67PB
Part # 6121-4809-5

HVLP

Binks
Mach 1 Gun 905 - 905P
Part # 6202-2001-9

Airless

Binks
PitBull 3500 PSI Gun
2-Finger (shown):
Part # 1108-3500-2

4-Finger
(not shown):
Part # 1108-3504-4

Binks
PitBull 7500 PSI Gun
2-Finger
(not shown):
Part # 1108-7500-2

4-Finger (shown):
Part # 1108-7500-4

Reference Sales Bulletin # 77-5621 for Tips & Other Optional Items

Fluid Delivery Options

Pressurized Tanks

Binks
2.8-gal. Zinc-Plated Tank
w/ Agitator (2 Regulators)
Part # 83C-221

Binks
5-gal. Galvanized Tank
w/ Agitator (2 Regulators)
Part # 83G-523

Binks
Gemini 1/2" Diaphragm Pump
Stainless Steel 1:1 Ratio
Part # 818830

Binks
Exel 4.5:1 Stainless Steel
Standard Duty Pump
Part # 41-38045
Top-Coats

Conventional: Pressure-Feed

DeVilbiss
MBC-510 Gun
2 Options:
Part # MBC-510-704E
Part # MBC-510-704FF

DeVilbiss
JGA-510 Gun
2 Options:
Part # JGA-510-704E
Part # JGA-510-704FF

DeVilbiss
Mach 1 Gun 94 - 94P
Part # 6202-1204-4
Mach 1 Gun 97 - 97P
Part # 6202-1301-7

Airless

DeVilbiss
PitBull 3500 PSI Gun
2-Finger (shown):
Part # 1108-3500-2
4-Finger
(not shown):
Part # 1108-3500-4

DeVilbiss
PitBull 7500 PSI Gun
2-Finger
(not shown):
Part # 1108-7500-2
4-Finger (shown):
Part # 1108-7500-4

Reference Sales Bulletin # 77-5621 for Tips & Other Optional Items

HVLP

DeVilbiss
EXL Gun
2 Options:
Part # EXL-520P-14
Part # EXL-520P-18

Air Assist Airless

Binks
AA-1600M Gun (less tip)
Part # 0909-1600-000000
Reference Sales Bulletin A54-108 for Additional Tips & Accessories

Binks
AA-4400M Gun (less tip)
Part # 0909-4400-000000
Reference Sales Bulletin A54-108 for Additional Tips & Accessories

Binks
MAG HVLP Gun w/ Manifold, Delrin Needle, & 94 Fluid Nozzle, Order Air Cap Separately
Part # 4006-1204-0

Binks
MAG UV Gun w/ Manifold & AA-4 Air Cap (less tip)
Part # 4003-0000-4

Binks
MAG AA Gun w/ Manifold & AA-4 Air Cap (less tip)
Part # 4001-0000-4

Automatic

Binks
MAG PitBull 3500 PSI Gun
2-Finger (shown):
Part # 1108-3500-2
4-Finger
(not shown):
Part # 1108-3500-4

Binks
MAG PitBull 7500 PSI Gun
2-Finger
(not shown):
Part # 1108-7500-2
4-Finger (shown):
Part # 1108-7500-4

Reference Sales Bulletin # 77-5621 for Tips & Other Optional Items
Top-Coats

Fluid Delivery Options

Tank / Outfits

- **Binks**
  - 80 PSI ASME
  - 2.8-gal. Zinc-Plated Tank w/ Agitator (2 Regulators)
  - Part # 83C-221
- **Binks**
  - 110 PSI ASME
  - 2.8-gal. Galvanized Tank w/ Agitator (2 Regulators)
  - Part # 83G-221
- **Binks**
  - 110 PSI ASME
  - 5-gal. Galvanized Tank w/ Agitator (2 Regulators)
  - Part # 83G-523
- **Binks**
  - SG2 Plus 2-qt. Rotary Agitator Pressure Cup
  - Part # 80-651

Pumps

- **Binks**
  - High Volume 23:1 2-Ball CARC Pump
  - Part # 41-15956
  - Reference Sales Bulletin # A41-88 for Other Accessories
- **Binks**
  - MX4-12 5-gal. Cart-Mount 12:1 Pump Outfit (Includes AA-1600M Gun)
  - Part # MX412UC-FDC1S25
- **Binks**
  - MX4-12 5-gal. Wall-Mount 12:1 Pump Outfit (Includes AA-1600M Gun)
  - Part # MX412UC-FDW1S25
- **Binks**
  - Infinity Pump (2-Ball) 23:1 Cart-Mount (Low Vol CARC Pump)
  - Part # 812225
  - Reference Infinity Pump Catalog INFG-1 for Pump Accessories

Military Materials Accessories

Fluid & Air Hoses

- **DeVilbiss**
  - Air & Fluid Hose Assembly
  - 5/16” I.D. x 6’
  - Part # KB-4006
- **Binks**
  - 3/8” I.D. x 25’ Fluid Hose
  - Part # 71-3303
- **Binks**
  - 3/8” I.D. x 25’ ErgoFlex™ Air Hose Assy.
  - Part # 71-31101

Solvent Saver

- **DeVilbiss**
  - 2-qt. Hose/Gun Cleaner Aluminum & Brass Construction
  - Part # HD-503
- **Binks**
  - 2-gal. Solvent Saver Galvanized Steel, Aluminum, & Brass Construction
  - Part # 83GZ-5200
Spray Booth Performance & Safety Products

### Air Adjusting Valves

- **DeVilbiss** Part # HAV-501 Gun-Mounted Air Adjusting Valve for accurate air pressure adjustment at the spray gun.
- **DeVilbiss** Part # HAV-500 (same valve without gauge)

### Quick Disconnects

- **DeVilbiss** High Flow Air Quick Disconnects*

### CleanAir™ Filter-Regulators

#### DeVilbiss CleanAir™ Centrifugal Filter-Regulator Unit
- **Part # HFRL-508**
  - Excellent for eliminating moisture and dirt from an air supply.

#### DeVilbiss CleanAir™ Coalescer Filter-Regulator Unit
- **Part # HFRL-512**
  - CleanAir™ coalescer filters remove water, dirt and oil from the system down to .01 micron.

#### DeVilbiss All-In-One
- **Part # FRC-650**
  - Combines a filter, regulator and coalescer into one unit.

### Tank Liners & Strainers

#### Binks Tank Liners

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>MICRON / WIRE MESH</th>
<th>CASE QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-78-K10</td>
<td>2.8-gal. Tank Liners (10 Pk)</td>
<td></td>
<td>10 per case</td>
</tr>
<tr>
<td>PT-78-K60</td>
<td>2.8-gal. Tank Liners (60 Pk)</td>
<td></td>
<td>60 per case</td>
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<tr>
<td>PL-5GAL-K40</td>
<td>5-gal. Pail Liner (11, 25&quot;, ID, 13&quot;, OD)</td>
<td>40 per case</td>
<td></td>
</tr>
</tbody>
</table>

#### Tank Liners

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-141</td>
<td>Small</td>
<td></td>
</tr>
<tr>
<td>40-128</td>
<td>Medium</td>
<td></td>
</tr>
<tr>
<td>40-143</td>
<td>Large</td>
<td></td>
</tr>
</tbody>
</table>

#### Tank Liners & Strainers

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>S.S. ELEMENT SCREEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>83-2922</td>
<td>50 mesh, 297 microns</td>
<td>83-2089</td>
</tr>
<tr>
<td>83-2923</td>
<td>80 mesh, 177 microns</td>
<td>83-2956</td>
</tr>
<tr>
<td>83-2924</td>
<td>100 mesh, 149 microns</td>
<td>83-1256</td>
</tr>
<tr>
<td>83-2925</td>
<td>150 mesh, 96 microns</td>
<td>83-2405</td>
</tr>
<tr>
<td>83-2926</td>
<td>200 mesh, 74 microns</td>
<td>83-2706</td>
</tr>
</tbody>
</table>

### Spray Booth Floor Paper

#### Binks Flame Retardant Paper

- **70 LB. Foot Traffic**
  - **PART # 29-843**
    - 36" x 500' roll
- **PART # 29-844**
  - 72" x 500' roll

- **80 LB. Heavier Traffic**
  - **PART # 29-863**
    - 36" x 300' roll
  - **PART # 29-864**
    - 42" x 300' roll
  - **PART # 29-865**
    - 60" x 300' roll
  - **PART # 29-866**
    - 72" x 300' roll

- **100 LB. Fork Lift Traffic**
  - **PART # 29-872**
    - 36" x 500' roll
  - **PART # 29-873**
    - 60" x 500' roll
  - **PART # 29-874**
    - 72" x 500' roll
  - **PART # 29-875**
    - 36" x 600' roll
  - **PART # 29-876**
    - 42" x 600' roll
  - **PART # 29-877**
    - 60" x 600' roll
  - **PART # 29-878**
    - 72" x 600' roll

### Spray Booth Exhaust Filters

#### Binks Exhaust Filters

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>29-3111</td>
<td>Receptor Filter Pad - 25/Cas e</td>
<td>20&quot; x 20&quot; x 2&quot;</td>
</tr>
<tr>
<td>29-3112</td>
<td>Receptor Filter Pad - 25 Case</td>
<td>20&quot; x 25&quot; x 2&quot;</td>
</tr>
<tr>
<td>29-3105</td>
<td>Receptor Filter Blanket</td>
<td>24&quot; x 50&quot; x 2&quot;</td>
</tr>
<tr>
<td>29-3106</td>
<td>Receptor Filter Blanket</td>
<td>30&quot; x 50&quot; x 2&quot;</td>
</tr>
<tr>
<td>29-3107</td>
<td>Receptor Filter Blanket</td>
<td>36&quot; x 50&quot; x 2&quot;</td>
</tr>
<tr>
<td>29-3108</td>
<td>Receptor Filter Blanket</td>
<td>40&quot; x 50&quot; x 2&quot;</td>
</tr>
<tr>
<td>29-3109</td>
<td>Receptor Filter Blanket</td>
<td>45&quot; x 50&quot; x 2&quot;</td>
</tr>
<tr>
<td>29-3110</td>
<td>Receptor Filter Blanket</td>
<td>48&quot; x 50&quot; x 2&quot;</td>
</tr>
</tbody>
</table>

### Peelable Spray Booth Coating

#### Binks BoothCoat™ Peelable Spray Booth Coating

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>S.S. ELEMENT SCREEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>29-248</td>
<td>1-gal. Can - Dries Clear - (Glass)</td>
<td>83-2705</td>
</tr>
<tr>
<td>29-249</td>
<td>5-gal. Pail - Dries White - (Walls)</td>
<td>83-2706</td>
</tr>
</tbody>
</table>

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*S* indicates ideal for HVLP applications. For other models, see Accessories Catalog A28-100.
Whether or not you are required to follow strict regulatory mandates for your geographic area and specific applications, you can conserve resources with our GreenWorks program.

We can help you:

— Implement eco-tips that provide measurable cost savings
— Identify the Binks and DeVilbiss products with an immediate green payback for you
— Determine if your operation could benefit from the Binks and DeVilbiss Finishing TuneUp program

**LOOK FOR THE GREEN LEAF SYMBOL TO IDENTIFY PRODUCTS THAT CONSERVE RESOURCES**