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## Open Up And Say, “Ahhh . . .” The History Of Industrial Painting

The paint and coatings industry had to wait for the Industrial Revolution before it became a recognized element of the American national economy. Virtually every product created on assembly lines made new and extensive use of paints and coatings to beautify, protect and extend the life of the manufactured goods.

Joseph Binks was the maintenance supervisor at Chicago’s Marshall Field’s Wholesale Store in 1887. Part of his job was to paint the walls of the basement in the store. This wasn’t just your average basement – it had multiple floors which needed to be whitewashed. If Binks sent his crew down there to get the job done with brushes, they wouldn’t finish the job for several weeks. As a solution, Binks developed a paint spraying machine to apply “whitewash” consisting of a mix of oil and white lead to the sub-basement walls of the store. This first cold water “spray gun” utilized a pump which had to be operated by hand, but a spray nozzle would disperse the paint thanks to a container which kept the contents under pressure. This saved everyone an enormous amount of time and the job was finished in days.

In 1893, the decorations director for The World’s Colombian Exposition used Binks and his spray painting system to apply whitewash to the buildings at the Exposition. This area was appropriately dubbed the “White City” and made Binks a household name around the globe.



Today's spray gun does more than just put paint under pressure so it can be sprayed outward. It also atomizes the paint so a fairly even coat of paint can be sprayed onto the surface being worked on.

The creation of the modern spray gun actually started with a doctor who was looking for a better way to treat his patients.

Dr. Allen DeVilbiss was trying to solve the riddle of a sore throat. If he gave patients a liquid medication for their pain, it wouldn't be very helpful. Pills and tablets weren't working either.

To create an effective throat spray, Dr. DeVilbiss combined a rubber bulb, some tubing and the base of an oil can to invent the first atomizer. By squeezing the bulb, air was propelled over the top of the tubing, lowering the atmospheric pressure and causing the medication to rush upward to fill the partial vacuum. Once up into the air stream, the tiny atomized particles of liquid medicine rested on the inflamed tissue of the patient's throat long enough to do some good.

This is exactly the same principle that siphon (or suction) feed spray guns work on. His son, Thomas, would later take this technology and apply it to a spray gun for paint in 1907. Since then, DeVilbiss has maintained its commitment to innovative technology and superior spray equipment.

Both Binks and DeVilbiss are now successful brands under the parent company, Carlisle Fluid Technologies.

Protective coatings can be found everywhere now from street lettering to industrial coatings. The global paints and coatings market value is now forecasted to reach \$159.3 billion dollars by the end of this year.



## News From Our Partners:



**DEVILBISS** **BINKS** **Ransburg** **BGK**

**BINKS**  
CAT  
**AG 364**  
AIRLESS



Introducing our new innovation — the Binks® AG-364 Airless Spray Gun — providing improved transfer efficiency and a useful method to maintain a cleaner machine.

Available in dead head or recirculation manifolds, this high-quality airless spray gun helps eliminate excessive paint waste and lengthy cleaning time. The AG-364 accomplishes ultimate transfer efficiency resulting in cleaner machines, and reducing overspray and applied coating cost per part. A softer, high-integrity fan pattern also allows for the consistent application of materials to detailed profiles and surfaces.

As a member of the proven AG family, the AG-364 makes it easy to upgrade from air-assisted airless equipment. It utilizes the same pumps, fluid lines, regulators and fluid pressure ranges for a seamless transition.

The AG-364 is a highly advanced, airless automatic spray gun that can be rapidly detached from its low profile manifold block using a simple hexagon key for fast and easy maintenance and serviceability. This unique feature from Binks dramatically reduces production downtime and increases profitability.

Binks AG-364 is ideally suited for multi-gun finishing machines where repeatable high-quality gun performance and total application flexibility are vital to high production environments and efficient throughput.

For More Information: [Binks® AG-364 Airless Spray Gun Literature](#)

Please visit our website: [Carlisle Fluid Technologies](#)





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### **COMPANY OVERVIEW**

Coast Industrial Systems, Inc. is the #1 supplier of painting and coating application equipment to the marine and manufacturing industries, and is proud to serve both San Diego and Mexico since 1986.

Coast Industrial Systems, Inc. has always placed the customer first, and strives for business excellence in all ways. Our friendly sales and customer service staff are knowledgeable, experienced and qualified to help meet your painting and coating application requirements, and to exceed your expectations.

**Graco Top 20 High-Protective Coatings & Foam Distributor  
Award Winner 2010-2018**

