

# Ebbert Installation Tooling

*The Last Riveting System You'll Ever Need to Buy*



*For  
High  
Speed  
Riveting  
Applications*

**Huck  
Fasteners**

an Alcoa business



**TOOLS OF PRODUCTIVITY<sup>SM</sup>**

# Dependable Tools and Flexible

**F**or more than 25 years, automotive manufacturers and component suppliers have relied on Ebbert installation tools and power units. Not merely to install the endless variety of fasteners that turn parts into assemblies and assemblies into cars, trucks, and buses, but to elevate manufacturing efficiency and reduce unit costs through easy operation, flexible configurations, and ultra-dependable performance.

Designed for and proven in demanding Big Three environments, Ebbert installation tools offer the qualifications your job requires...and put the application expertise and technical support of Huck Fasteners — an Alcoa business and the leading name in fastening systems — at your command.

With advantages like these and more, versatile and reliable Ebbert installation equipment will surely prove to be the last riveting system you'll ever need, or want, to buy.

## Single-Acting Tools and Power Units

**C**onnected to the plant air supply, single-acting Ebbert riveting tools provide a hydraulically powered pull stroke and a pneumatic return stroke, using the plant's normal working air pressure to reset the piston for the next installation.

Designed for fast, dependable performance in high-speed environments, they offer light weight and outstanding ergonomics for reduced worker stress and fatigue. On most models, the handle allows infinite adjustment within a 20 degree arc to achieve a comfortable, strain-free operating position at any work height or angle.

Compact in size, Ebbert single-action tools maneuver easily in tight places. They install a wide range of metal rivets up to 1/4-inch in diameter, and can be configured with the pulling head of the type and length appropriate to your application.

Moveable power units make Ebbert installation tools highly versatile and adaptable.

### Hand-Held Single-Acting Tools

**ERT1S:** The smallest, lightest, fastest single-action Ebbert tool. Sets 3/16-inch and smaller blind fasteners.

**ERT2S:** Lightweight, high-speed riveting tool for 1/4-inch rivets and smaller.

**ERT3S, ERT4S:** Inline tools for vertical installation of 1/4-inch rivets and smaller.

**ERT3S — Inline tool for 3/16-inch rivets and smaller**

**ERT4S — Inline tool for 1/4-inch rivets and smaller**

For enhanced productivity, each of these hand-held tools uses vacuum to hold the rivet to the nosepiece during the assembly operation and evacuate the mandrel into the power unit's collector box.

**ERT5S, ERT6S:** The industry's most compact tools for 1/4-inch rivets and smaller. Designed for high comfort and easy operation in confined areas.

**ERT5S — Compact tool for 1/8-inch rivets and smaller**

**ERT6S — Compact tool for 3/16 through 1/4-inch rivets**

# Installation Systems for Automotive Applications

## Machine-Mount Single-Acting Tools

**ERT1SM, ERT1SQ, ERT1SLQ:** For 3/16 rivets and smaller. Manifold base allows mounting directly to the assembly machine. Operate up to seven tools from a single EPS3MP power unit for simultaneous, multihead riveting. Quick-change “Q” models can be removed and replaced in minutes to minimize costly downtime; “L” models delete tool handle.

**ERT1SM** — Basic machine-mount tool for 3/16-inch rivets and smaller

**ERT1SQ** — Quick-change version of ERT1SM

**ERT1SLQ** — Quick-change version without tool handle

**ERT2SM, ERT2SQ, ERT2SLQ:** For 1/4-inch rivet sizes and smaller. Manifold base attaches directly to the assembly machine. Up to three tools can be operated from a single power unit. Quick-change “Q” models can be removed and replaced in minutes to minimize costly downtime; “L” models delete tool handle.

**ERT2SM** — Basic machine-mount tool for 1/4-inch rivets and smaller

**ERT2SQ** — Quick-change version of ERT2SM

**ERT2SLQ** — Quick-change version without tool handle

## Single-Acting Power Units

**EPS1, EPS1V, EPS1VL:** Standard power sources for operating one single-acting Ebbert riveting tool. “V” model includes vacuum mandrel collector system, with automatic shutoff via the hanger rod. “VL” provides latching valve for vacuum shutoff when use of the hanger rod is inconvenient. Collector reservoir holds up to 6,000 1/8-inch mandrels or 2,600 1/4-inch.

**EPS1** — Standard power source for one single-acting Ebbert tool

**EPS1V** — Standard single-acting power source with vacuum mandrel collection and hook rod

**EPS1VL** — Standard single-acting power source with vacuum mandrel collection and latching valve shutoff

**EPS3MP:** High-capacity multiport power source for two to seven single-acting riveting tools.

ERT2S



ERT4S



ERT6S



ERT1SLQ



## Double-Acting Tools and Power Units

**E**bbert double-acting riveting tools, for 1/4-inch metallic fasteners and smaller, use hydraulic pressure in both directions to power the tool's pull and return strokes. The design not only accelerates performance but helps achieve proper jaw separation at the end of the cycle to reduce the possibility of mandrel lockup should plant air pressure drop below 90 psi.

As with all Ebbert installation tools, these double-action models are designed for high reliability and comfortable operation in even the harshest work environments. They're compact for easy maneuvering in confined areas, and can be configured with the pulling head your application requires.

ERT2D



*Pulling Heads  
(available for  
single-acting and  
double-acting tools)*

### **Hand-Held Double-Acting Tools**

**ERT1D:** Small, light, and fast. Sets 5/32-inch and smaller blind fasteners.

**ERT2D:** Lightweight, high-speed riveting tool for 1/4-inch rivets and smaller. Ideal for fasteners requiring long pull strokes.

**ERT4D:** Inline tool for vertical installation of 1/4-inch rivets and smaller.

For enhanced productivity, each of these hand-held tools uses vacuum to hold the rivet to the nosepiece during the assembly operation and evacuate the mandrel into the power unit's collector box.

### **Machine-Mount Double-Acting Tools**

**ERT1DL:** For 5/32 rivets and smaller. Manifold base allows mounting directly to the assembly machine.

**ERT2DL:** For 1/4-inch rivet sizes and smaller. Manifold base attaches directly to the assembly machine.

## Double-Acting Power Units

*EPS2, EPS2V, EPS2VL*: Standard power sources for operating one double-acting Ebbert riveting tool. "V" model includes vacuum mandrel collector system, with automatic shutoff via the hanger rod. "VL" provides latching valve for vacuum shutoff when use of the hanger rod is inconvenient. Collector reservoir holds up to 6,000 1/8-inch mandrels or 2,600 1/4-inch.

**EPS2** — Standard power source for one double-acting Ebbert tool

**EPS2V** — Standard double-acting power source with vacuum mandrel collection and hook rod

**EPS2VL** — Standard double-acting power source with vacuum mandrel collection and latching valve shutoff



EPS2V

## Tools and Power Units for Plastic Rivets

**E**bbert installation tooling includes the only production-grade tools and power sources designed exclusively for plastic blind rivets. The tools employ pneumatic operation for fast, dependable installations; vacuum control helps accelerate installation cycles through quick engagement of the rivet within the nosepiece and rapid mandrel ejection and collection. Light in weight and comfortable in the hand, Ebbert tools for 1/4-inch and smaller plastic fasteners are ideal for high-production assembly lines.

**ERT7 Pistol Type Riveting Tool**: Lightweight, high speed riveting tool for 1/4-inch plastic rivets and smaller.

**ERT8 Inline Riveting Tool**: For vertical installation of 1/4-inch plastic rivets and smaller. Ideal for bench assembly and work areas requiring elevated locations.

**EPS6V, EPS6VL Power Units**: Standard power sources for Ebbert ERT7 and ERT8 riveting tools. "V" model includes vacuum mandrel collector system, with automatic shutoff via the hanger rod. "VL" provides latching valve for vacuum shutoff when use of the hanger rod is inconvenient. Collector reservoir holds up to 6,000 1/8-inch mandrels or 2,600 1/4-inch.

**EPS6V** — Standard plastic-riveting power source with vacuum mandrel collection and hook rod

**EPS6VL** — Standard plastic-riveting power source with vacuum mandrel collection and latching valve shutoff



ERT7

## Ebbert Pin Lock Tools

**D**esigned for pushpin fasteners, Ebbert Pin Lock riveting tools offer pistol, inline, and machine-mount configurations, as well as a variety of nosepiece designs and barrel extensions for maximum application versatility. Ergonomically styled grips enhance operating ease and comfort.

*PLT1*, *PLT2*, and *PLT3* models provide 123 mm, 200 mm, and 353 mm extension lengths, respectively; each tool is available in pistol, inline, and machine-mount versions. *PLT4* and *PLT5* Pin Lock tools feature pistol configuration and Scru-Lock heads.



*PLT1*

## Ebbert Push Tools

**F**or hole punching, stud cutting, and other applications involving piercing, shearing, or swaging, Ebbert PushForce tools can deliver power strokes ranging from 4,000 to 12,000 pounds. Configurations are available for hand operation or machine mounting, with power drawn from a remote hydraulic unit carefully matched to your job requirements by our applications specialists and energized by your plant's 90-100 psi air supply.

## Ebbert ERT9 Combination Production/Maintenance Tool



*ERT9*

**T**his lightweight (only 5.4 pounds) installation tool features self-contained hydraulics to support up to 30 fastener installations per minute, using your shop's 90-100 psi air supply as its power source. Thoroughly proven and equally at home in production and maintenance environments, the *Ebbert ERT9* installs standard and extended-grip blind rivets of 1/4-inch diameter or less. An ergonomically sculpted handle and low trigger effort make the tool comfortable and easy to operate. Both the *ERT9* and vacuum-equipped *ERT9V* version accommodate over 100 pulling heads and a wide selection of nosepieces and extensions, for extraordinary versatility and value.



## Air Balance Arm

Complete your riveting station with the Ebbert Air Balance Arm, the accessory that ensures correct rivet alignment every time. Featuring heavy-duty construction throughout, the Air Balance motion, all pivot points are on ball bearings or bronze bushings. The control handle adapts for left-hand or right-hand operation. The arm supports up to 15 pounds of tool weight and reaches up to 32-13/16 inches from the center post, with a 9-inch range of vertical travel.

## Popular Huck Products for Automotive Applications

### **Huck AK-275A Air-Powered Riveter**

Manufactured to the same rugged standards as the tools Huck makes for production service, this powerful pneumatic riveter for general repair and maintenance applications installs a wide variety of popular fasteners from 3/32 to 1/4-inch diameter. It operates on 90-100 psi air pressure, generates 3,800 pounds of pulling force, and is field-serviceable for maximum availability and productivity. The ergonomically designed AK-275A weighs just 2.3 pounds and features a comfortable, natural grip and easy action. A swivel air inlet provides unrestricted movement and helps reduce hose wear.



AK-275A

### **Huck Fasteners**

Although Ebbert tools and power units can be used with any manufacturer's fasteners, we highly recommend Huck brand fasteners for their permanent, vibration-resistant clamp and easy installation and inspection. Industry favorites for automotive manufacturing and repair operations include ...



**Magna-Tite® Rivet:** Large blind-side footprint for thin or low-strength materials; applied watertight sealant. Especially suitable for oversize holes and repair applications.



**Magna-Lok® Rivet:** Structural fastener offering a solid-circle lock for high-vibration applications. Can be used in materials having thickness variations as great as 3/8 inch. Available in a variety of sizes and materials.



**Magna-Bulb® Rivet:** Superior holding power with a wide, bulb-shaped footprint on the blind side. Won't cause pull-through. Ideal for thin or low-strength materials such as aluminum, fiberglass, and plastic.



**Auto-Bulb™ Rivet:** Large head and broad bulb diffuse the load over a large area. Tapered hole-seeking tip provides quick and easy installation.

# Huck: The Leading Choice in Fastening Systems

## A Global Organization

Huck maintains company offices throughout the United States and Canada, with subsidiary offices in many other countries. Authorized Huck Fasteners distributors are also located in many of the world's industrial centers, where they provide a ready source of Huck fastener products, installation tools, tool parts, and application assistance.

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Park Forest, IL  
(Screw Products)

Valpariso, IN  
(Standard Threaded Products)

Waco, TX  
(Lockbolts and Blind Rivets)

### International Locations

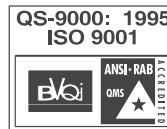
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### Authorized Huck Distributor



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