Instruction Manual
ERT7 and ERT8
Ebbert Rivet Tools

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EC Declaration of Conformity

Manufacturer:
Huck International, LLC, Industrial Products Group, 1 Corporate Drive, Kingston, NY, 12401, USA

Description of Machinery:
Models ERT7 & ERT8 tools and specials based on their design (e.g. PR####).

Relevant provisions complied with:
British Standard related to hand held, non-electric power tools (ISO 11148-2:2011)

European Representative:
Andrew Smith, Huck International, Ltd. Unit C Stafford Park 7, Telford Shropshire TF3 3BQ, England, United Kingdom

Authorized Signature/date:
I, the undersigned, do hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Signature: [Signature]

Full Name: Nicholas Gouguotris
Position: Engineering Manager
Location: Huck International, LLC d/b/a Arconic Fastening Systems
Kingston, New York, USA
Date: 27/07/2018 (July 27, 2018)

Declared dual number noise emission values in accordance with ISO 4871

<table>
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<td>A weighted sound power level, LWA:</td>
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<td>A weighted emission sound pressure level at the work station, LpA:</td>
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<tr>
<td>C-weighted peak emission sound pressure level, LpC, peak:</td>
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Values determined according to noise test code ISO 3744. The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.

Declared vibration emission values in accordance with EN 12096

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<td>Uncertainty, K:</td>
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Values measured and determined according to ISO 28662-1, ISO 5349-2, and EN 1033

Test data to support the above information is on file at:
Arconic Fastening Systems, Kingston Operations, Kingston, NY, USA.
的安全说明

**要点**

1. **I. GENERAL SAFETY RULES:**
   - A half hour long hands-on training session with qualified personnel is recommended before using Huck equipment.
   - Huck equipment must be maintained in a safe working condition at all times. Tools and hoses should be inspected at the beginning of each shift/day for damage or wear. Any repair should be done by a qualified repairman trained in Huck procedures.
   - For multiple hazards, read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the assembly power tool. Failure to do so can result in serious bodily injury.
   - Only qualified and trained operators should install, adjust or use the assembly power tool.
   - Do not modify this assembly power tool. This can reduce effectiveness of safety measures and increase operator risk.
   - Do not discard safety instructions; give them to the operator.
   - Do not use assembly power tool if it has been damaged.
   - Tools should be inspected periodically to verify all ratings and markings required, and listed in the manual, are legibly marked on the tool. The employer/operator shall contact the manufacturer to obtain replacement marking labels when necessary. Refer to assembly drawing and parts list for replacement.
   - Tool is only to be used as stated in this manual. Any other use is prohibited.
   - Read MSDS Specifications before servicing the tool. MSDS specifications are available from the product manufacturer or your Huck representative.
   - Only genuine Huck parts shall be used for replacements or spares. Use of any other parts can result in tooling damage or personal injury.
   - Never remove any safety guards or pintail deflectors.
   - Never install a fastener in live air. Personal injury from fastener ejecting may occur.
   - Where applicable, always clear spent pintail out of nose assembly before installing the next fastener.
   - Check clearance between trigger and work piece to ensure there is no pinch point when tool is activated. Remote triggers are available for hydraulic tooling if pinch point is unavoidable.
   - Do not abuse tool by dropping or using it as a hammer. Never use hydraulic or air lines as a handle or to bend or pry the tool. Reasonable care of installation tools by operators is an important factor in maintaining tool efficiency, eliminating downtime, and preventing an accident which may cause severe personal injury.
   - Never place hands between nose assembly and work piece. Keep hands clear from front of tool.
   - Tools with ejector rods should never be cycled with out nose assembly installed.
   - When two piece lock bolts are being used always make sure the collar orientation is correct. See fastener data sheet for correct positioning.

2. **II. PROJECTILE HAZARDS:**
   - Risk of whipping compressed air if tool is pneumatic or pneumatic.
   - Disconnect the assembly power tool from energy source when changing inserted tools or accessories.
   - Be aware that failure of the workpiece, accessories, or the inserted tool itself can generate high velocity projectiles.
   - Always wear impact resistant eye protection during tool operation. The grade of protection required should be assessed for each use.
   - The risk of others should also be assessed at this time.
   - Check that the means of protection from ejection of fastener or pintail is in place and operative.

3. **III. OPERATING HAZARDS:**
   - Use of tool can expose the operator’s hands to hazards including: crushing, impacts, cuts, abrasions and heat. Wear suitable gloves to protect hands.
   - Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
   - Hold the tool correctly and be ready to counteract normal or sudden movements with both hands available.
   - Maintain a balanced body position and secure footing.
   - Release trigger or stop start device in case of interruption of energy supply.
   - Use only fluids and lubricants recommended by the manufacturer.
   - Avoid unsuitable postures, as it is likely for these not to allow counteracting of unexpected tool movement.
   - If the assembly power tool is fixed to a suspension device, make sure that fixation is secure.
   - Beware of the risk of crushing or pinching if nose equipment is not fitted.

4. **IV. REPEETIVE MOTION HAZARDS:**
   - When using assembly power tool, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
   - When using tool, the operator should adopt a comfortable posture while maintaining a secure footing and avoid awkward or off balanced postures.
   - The operator should change posture during extended tasks to help avoid discomfort and fatigue.
   - If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warnings should not be ignored. The operator should tell the employer and consult a qualified health professional.

5. **V. ACCESSORIES HAZARDS:**
   - Disconnect tool from energy supply before changing inserted tool or accessory.
   - Use only sizes and types of accessories and consumables that are recommended. Do not use other types or sizes of accessories or consumables.

6. **VI. WORKPLACE HAZARDS:**
   - Be aware of slippery surfaces caused by tool of the tool and of trip hazards caused by the air line or hydraulic hose.
   - Proceed with caution while in unfamiliar surroundings; there could be hidden hazards such as electricity or other utility lines.
   - The assembly power tool is not intended for use in potentially explosive environments.
   - Tool is not insulated against contact with electrical power.
   - Ensure there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by use of the tool.

7. **VII. NOISE HAZARDS:**
   - Exposure to high noise levels can cause permanent, disabling hearing loss and other problems such as tinnitus, therefore risk assessment and the implementation of proper controls is essential.
   - Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpiece from ‘ringing’.
   - Use hearing protection in accordance with employer’s instructions and as required by occupational health and safety regulations.
   - Operate and maintain tool as recommended in the instruction handbook to prevent an unnecessary increase in the noise level.
   - Select, maintain and replace the consumable / inserted tool as recommended to prevent an unnecessary increase in noise.
   - If the power tool has a silencer, always ensure that it is in place and in good working order when the tool is being operated.

8. **VIII. VIBRATION HAZARDS:**
   - Exposure to vibration can cause disabling damage to the nerves and blood supply to the hands and arms.
   - Wear warm clothing when working in cold conditions and keep hands warm and dry.
   - If numbness, tingling, pain or whitening the skin in the fingers or hands, stop using the tool, tell your employer and consult a physician.
   - Support the weight of the tool in a stand, tensioner or balancer in order to have a lighter grip on the tool.

9. **IX. PNEUMATIC / PNEUDRAULIC TOOL SAFETY INSTRUCTIONS:**
   - Air under pressure can cause severe injury.
   - Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
   - Never direct air at yourself or anyone else.
   - Whipping hoses can cause severe injury, always check for damaged or loose hoses and fittings.
   - Cold air should be directed away from hands.
   - When universal twist couplings (claw couplings) are used, lock pins shall be installed and whip-check safety cables shall be used to safeguard against possible hose to hose or hose to tool connection failure.
   - Do not exceed maximum air pressure stated on tool.
   - Never carry an air tool by the hose.
ERT7 and ERT8 Ebbert Rivet Tools (HK1061)

Specifications

**POWER SOURCE:** 90 psi (6.2 bar) shop air

**MAX OPERATING TEMP:** 125°F (51.7°C)

**MAX FLOW RATE:** 13.5 scfm (368 l/m)

**MAX AIR PRESSURE:** 100 psi (6.9 bar)

**MAX PULL CAPACITY:**
280 lbs (1.245 kN) @ 100 psi

**MIN RETURN CAPACITY:**
158 lbs (.702 kN) @ 100 psi

**MIN STROKE:**
Both Models - 0.940 in (23.9 mm)

**WEIGHT:**
ERT7 - 3 lbs. (1.36 kg)
ERT8 - 3.25 lbs. (1.47 kg)

**FASTENER SIZES:** 1/8", 5 mm, 6 mm

Warning Stickers

These tools come labeled with the below stickers that display important safety and identification information. If any sticker becomes damaged, worn, unreadable, or is missing, it must be ordered and replaced on the tool.

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<td>BAR</td>
<td>WARNING</td>
</tr>
<tr>
<td>FLOW</td>
<td>SCFM</td>
<td>L/M</td>
<td>HIGH VELOCITY PINTAILS DO NOT OPERATE WITH MISSING OR DAMAGED COLLECTION TUBE. ORIENT TUBE END AWAY FROM OPERATORS TO PREVENT PERSONAL INJURY.</td>
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</table>

Where the following trade names are used in this manual, note:

**DEXRON** is a registered trademark of General Motors Corporation.

**GLYD Ring** is a registered trademark of Trelleborg Sealing Solutions Germany GmbH.

**Loctite** is a registered trademark of Henkel Corporation, U.S.A.

**LUBRIPLATE** is a registered trademark of Fiske Brothers Refining Co.

**MERCON** is a registered trademark of Ford Motor Corp.

**MOLYKOTE** is a registered trademark of Dow Corning Corporation.

**Never-Seez** is a registered trademark of Bostik, Inc.

**Quintolubric** is a registered trademark of Quaker Chemical Corp.

**Slic-tite** is a registered trademark of LA-CO Industries, Inc.

**Spiralox** is a registered trademark of Smalley Steel Ring Company.

**Teflon** is a registered trademark of Chemours Company FC.

**Threadmate** is a registered trademark of Parker Intangibles LLC.

**TRUARC** is a trademark of TRUARC Co. LLC.

**Vibra-Tite** is a registered trademark of ND Industries, Inc. USA.
Principle of Operation

PULL CYCLE
When the trigger is pressed, the incoming non-oiled plant air, regulated at 90 psi forces the Piston Assembly and Double Piston to the rear of the tool, and air is exhausted out the bottom of the tool. The fastener is installed, and the fastener pintail breaks off.
NOTE: The ERT8 exhaust air exits through small holes in the bottom of the Valve Body. (See Item 16 of ERT8 Assembly Drawing in this manual.)

RETURN CYCLE
When the trigger is released, the pressurized air is directed to the rear of the pistons, causing them to move forward. The fastener pintail is vacuumed out the rear of the tool and into the Power Unit Pintail Collection bin, and the tool is ready for the next fastener installation.

Preparation for Use

1. Use Ebbert Power Unit Model EPS6V or EPS6VL, that has been prepared for operation per applicable instruction manual. Check incoming pressures and, if necessary, adjust to the recommended pressures in Specifications of this manual.
2. Turn OFF the Ebbert Power Unit, and then disconnect the power supply from the unit. Connect the tool's hoses to the unit.
3. Connect the cable attachment from hose assembly to cylinder base of tool.
4. Connect the Ebbert Power Unit to the power supply. Turn ON the unit. Press and hold the tool trigger for 30 seconds; then press the trigger a few times to cycle the tool. Observe the action of the tool and check for air leaks. Turn OFF the unit.
5. Select the pulling head assembly for the fastener to be installed and attach per instructions in Attaching Nose Assembly to Tool on the next page of this manual.
6. Reconnect the Ebbert Power Unit to the power supply. Check the operation of the pulling head assembly; install fasteners in test plate of correct thickness with proper size holes. Inspect the installed fasteners.
Attaching Nose Assembly to Tool

1. Remove Vacuum Tube Connector Assembly from remaining Pulling Head Assembly.
2. Take remaining pulling head assembly, and remove outer sleeve. Install collet, jaws, follower assembly, and spring as an assembly onto tool, sliding Follower and Spring Assembly into the end of the Piston, and screwing the collet onto the piston. Once this is complete, slide sleeve over collet, and tighten down into end of tool. Tighten the sleeve nut.
3. Reinstall Vacuum Tube Connector Assembly to follower tube protruding from rear of tool. Tighten nut.

![Diagram showing Attaching Nose Assembly to Tool]

Kits and Accessories

Service Kit
ERT7 and ERT8 - 300471
This kit is for both tools and should be kept on hand at all times. It contains:

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Troubleshooting

Always check the simplest possible cause (such as a disconnected air hose) of a malfunction first. Then proceed logically, eliminating other possible causes until the cause is discovered. Where possible, substitute known good parts for suspected defective parts. Use this troubleshooting information to aid in locating and correcting trouble.

1. Tool fails to operate when trigger is pressed.
   b. Damaged trigger assembly.
   c. .
2. Tool leaks hydraulic fluid.
   a. Defective tool O-rings or loose connections at tool.
3. Hydraulic couplers leak fluid.
   a. Damaged or worn O-rings in Coupler Body Coupler.
   a. Unit not operating properly. See unit’s manual.
5. Tool operates erratically and fails to install fastener properly.
   a. Low or erratic hydraulic pressure. Air in system.
   b. Worn or damaged piston O-ring in tool.
   c. Excessive wear on sliding surfaces of tool parts.
6. Pintail of fastener fails to break.
   a. Improper tool operation. See No. 5.
   b. Incorrect fastener size or type.
   c. PULL pressure too low.
7. Pulling Head will not release broken pintail.
   a. Pulling Head assembly not correctly installed.
   b. Tool or Pulling Head may need cleaning.
8. Excessive air leaking from trigger and tool will not function.
   a. Green and red air hoses may be switched.
GOOD SERVICE PRACTICES
Carefully handle all parts, and examine for damage and wear. Replace parts where required. Always replace O-rings and Back-up rings when tool is disassembled for any reason. See applicable Service Kit.

- The efficiency and life of the tool depends on proper maintenance. Use this manual to better understand tool and its basic maintenance procedures. Read this page completely before proceeding with maintenance and repair. Use proper hand tools in a clean and well-lighted area; only standard hand tools are required in most cases. Where a special tool is required, the part number is given.

- While clamping tool or parts in a vise, and when parts require force, use suitable soft materials to cushion impact. For example, use a half-inch brass drift, wood block, and vise with soft jaws to reduce the possibility of damaging the tool. Remove components in a straight line without bending, cocking, or applying undue force. Reassemble tool with the same care.

- While clamping tool or parts in a vise, and when parts require force, use suitable soft materials to cushion impact. For example, use a half-inch brass drift, wood block, and vise with soft jaws to reduce the possibility of damaging the tool. Remove components in a straight line without bending, cocking, or applying undue force. Reassemble tool with the same care.

- Consult Troubleshooting section of this manual if a malfunction occurs and then see appropriate Disassembly, Assembly, and/or Assembly Drawings.

Sealants, Lubricants, & Service Kits
- Smear LUBRIPLATE® 130-AA, or equivalent, on O-rings and mating surfaces to prevent damage to O-rings on rough or sharp surfaces, and to ease assembly. (LUBRIPLATE in a tube, 502723.)
- Each Service Kit contains perishable parts for your specific tool. As foreseeable use may indicate, keep extra kits (O-rings, Back-up rings, other standard items) and tool parts in stock. When stock is depleted, you can get kit items from any regular retailer of these items. See Parts List for: O-ring size (ASS68- number); material; durometer. For kit parts lists and related information, see Kits and Accessories.

PREVENTIVE MAINTENANCE
System Inspection
The operating efficiency of the tool is directly related to the performance of the complete system, including the tool with pulling head assembly, trigger, control cord, and Power Unit. Therefore, an effective preventive maintenance program includes scheduled inspections of the system to detect and correct minor troubles.

- Inspect tool and pulling head assembly for external damage.
- Verify that hose fittings and/or couplings, and/or electrical connections are secure.
- Observe tool, hoses, and power unit during operation to detect abnormal heating, leaks, or vibration.

Power Unit Maintenance
Refer to the applicable Power Unit instruction manual.

Tool Maintenance
Whenever disassembled, and at regular intervals (depending on severity and length of use), replace all seals, wipers, and Back-up rings in tool. Service Kits, hoses, and extra parts should be kept in stock. Inspect cylinder bore, pistons, and piston rods for scored surfaces and excessive wear or damage. Replace as necessary.

Pulling Head Maintenance
Clean the pulling head assembly often. Dip it in mineral spirits (Figure 1), or similar solvent, to clean jaws and wash away metal chips and debris. At regular intervals, as experience shows, disassemble the pulling head assembly and use a sharp “pick” to remove embedded particles from the grooves of the jaws.

Figure 1
Disassembly

Rivet Tool Disassembly (Figures 2 & 3)
1. Remove the Pulling Head Assembly from the tool; remove all nicks and burrs from front of Piston Rod Assembly.
2. ERT7: Remove the four screws and the piston rod guide from the front of the tool. (Figure 2)
   ERT8: Remove the four screws and handle from the front of the tool. (Figure 3)
3. Push Piston Assembly to full-back position, and remove the retaining ring from the rear of the Piston Assembly. NOTE: Remove all nicks and burrs from the rear of the piston to ensure removal of the end cap and Double Piston without damaging them.
4. Remove the four screws, Support Loop Assembly, and end cap from rear of tool.
5. Remove the retaining ring from the rear of the Double Piston. Pull the Piston Assembly out through the front end of the tool.
6. Push out the Double Piston and Bulkhead through the rear of tool. NOTE: It is not necessary to remove the retaining ring from the cylinder.

Assembly

This procedure is for the re-assembly of the ERT7 and ERT8 tools. For component identification, see Figures 2 and 3. NOTE: Clean components with mineral spirits, or similar solvent.

Inspect for wear/damage and replace as necessary. Replace all seals of disassembled components. Use O-rings, Quad-rings and Back-up rings in Service Parts Kit ERT5S7KIT or ERT8KIT. Coat O-rings, seals, Back-up rings, and mating parts with conventional O-ring lubricant to ease assembly. Assemble tool taking care not to damage O-rings, seals, or Back-up rings. NOTE: Install retaining rings with sharp edge of the retaining ring toward the rear of the tool. When replacing seals, make sure they are correctly positioned as shown in the Assembly Drawing.

1. Wipe all seals with a thin film of lubricant before reassembly.
2. Inspect the cylinder wall to ensure the surface is free of gouges and nicks that will damage a new seal. Small nicks and gouges can normally be removed using a fine crocus cloth.
3. Install the bulkhead into the rear of the cylinder until it seats flat against the retaining ring in the center of the cylinder.
4. Upon ensuring that there are no nicks or burrs on the front or rear of the Piston Assembly, insert the assembly into the front of the tool, and push it to the full back position.
5. Install the Double Piston onto the rear of the Piston Rod Assembly and into the cylinder until it bottoms on the shoulder of the Piston Assembly. NOTE: Before placing the cylinder assembly on top of the handle assembly, ensure the O-rings are in place at the top of the handle assembly.
6. Install the retaining ring at the back of the Double Piston with the sharp edge of the snap ring toward the rear of the tool.
7. Install the rubber bumper on the front end of the Piston Rod Assembly.
8. ERT7: Install the Piston Rod Guide and two bearing plates, and secure with four screws. Torque the screws to 60–80 inch pounds. (Figure 2)
   ERT8: Install the handle and two bearing plates, and secure with four screws. Torque the screws to 60–80 inch pounds. (Figure 3)
9. Install the end cap and support loop assembly on the rear of tool and secure with the four screws. Torque the screws to 60–80 inch pounds. NOTE: When the tool is used without the support loop assembly, two additional screw bearing plates are required between the end cap and the screws.
10. Install the snap ring on the back of the piston assembly with sharp edge of snap ring toward the rear of the tool.

The Pulling Head Assembly and Hose Assembly can now be installed.
## Components Drawing & Parts List ERT7

### Notes:

1. PISTON ASSEMBLY BULLET PIN 300072
   Optionally Available.

2. SERVICE KIT P/N 300471(SEAL KIT),
   300578(SCREW KIT), 300580(HANDLE KIT)
   Optionally Available.

### Figure 2

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Limited Warranties

Limited Lifetime Warranty on BobTail® Tools:

Huck International, Inc. warrants to the original purchaser that its BobTail® installation tools manufactured after 12/1/2016 shall be free from defects in materials and workmanship for its useful lifetime. This warranty does not cover special order / non-standard products, or part failure due to normal wear, tool abuse or misapplication, or user non-compliance with the service requirements and conditions detailed in the product literature.

Two Year Limited Warranty on Installation Tools:

Huck International, Inc. warrants that its installation tools and Powerig® hydraulic power sources manufactured after December 1, 2016 shall be free from defects in materials and workmanship for a period of two years from date of purchase by the end user. This warranty does not cover special order / non-standard products, or part failure due to normal wear, tool abuse or misapplication, or user non-compliance with the service requirements and conditions detailed in the product literature.

90 Day Limited Warranty on Nose Assemblies and Accessories:

Huck International, Inc. warrants that its nose assemblies and accessories shall be free from defects in materials and workmanship for a period of 90 days from date of purchase by the end user. This warranty does not cover special clearance noses, or special order / non-standard product, or part failure due to normal wear, abuse or misapplication, or user non-compliance with the service requirements and conditions detailed in the product literature.

Useful lifetime is defined as the period over which the product is expected to last physically, up to the point when replacement is required due to either normal in-service wear, or as part of a complete overhaul. Determination is made on a case-by-case basis upon return of parts to Huck International, Inc. for evaluation.

Tooling, Part(s) and Other Items not manufactured by Huck:

HUCK makes no warranty with respect to the tooling, part(s), or other items manufactured by third parties. HUCK expressly disclaims any warranty expressed or implied, as to the condition, design, operation, merchantability, or fitness for use of any tool, part(s), or other items thereof not manufactured by HUCK. HUCK shall not be liable for any loss or damage, directly or indirectly, arising from the use of such tooling, part(s), or other items or breach of warranty or for any claim for incidental or consequential damages.

Huck shall not be liable for any loss or damage resulting from delays or non-fulfillment of orders owing to strikes, fires, accidents, transportation companies or for any reason or reasons beyond the control of the Huck or its suppliers.

Huck Installation Equipment:

Huck International, Inc. reserves the right to make changes in specifications and design and to discontinue models without notice.

Huck Installation Equipment should be serviced by trained service technicians only.

Always give the serial number of the equipment when corresponding or ordering service parts.

Complete repair facilities are maintained by Huck International, Inc. Please contact one of the offices listed below.

**Eastern**
One Corporate Drive Kingston, New York 12401-0250
Telephone (845) 331-7300 FAX (845) 334-7333

**Outside USA and Canada**
Contact your nearest Huck International location (see reverse).

In addition to the above repair facilities, there are Authorized Tool Service Centers (ATSC’s) located throughout the United States. These service centers offer repair services, spare parts, Service Parts Kits, Service Tool Kits and Nose Assemblies. Please contact your Huck Representative or the nearest Huck International location (see reverse) for the ATSC in your area.
Arconic Inc. (NYSE: ARNC) creates breakthrough products that shape industries. Working in close partnership with our customers, we solve complex engineering challenges to transform the way we fly, drive, build and power. Through the ingenuity of our people and cutting-edge advanced manufacturing, we deliver these products at a quality and efficiency that ensures customer success and shareholder value.

## Arconic Fastening Systems Tooling Support Locations

### INDUSTRIAL NORTH AMERICA

<table>
<thead>
<tr>
<th>Operations</th>
<th>Address</th>
<th>Telephone</th>
<th>Fax</th>
<th>Email</th>
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<tbody>
<tr>
<td>Kingston Operations</td>
<td>1 Corporate Drive</td>
<td>Tel: +1-800-278-4825</td>
<td>Fax: +1 845-334-7333</td>
<td><a href="mailto:afs.sales.kingston@arconic.com">afs.sales.kingston@arconic.com</a></td>
</tr>
<tr>
<td>Tracy Operations</td>
<td>1925 North MacArthur Drive</td>
<td>Tel: +1-800-826-2884</td>
<td>Fax: +1-800-573-2645</td>
<td><a href="mailto:afs.sales.idg@arconic.com">afs.sales.idg@arconic.com</a></td>
</tr>
<tr>
<td>Waco Operations</td>
<td>PO Box 8117</td>
<td>Tel: +1-800-388-4825</td>
<td>Fax: +1-800-798-4825</td>
<td><a href="mailto:afs.sales.waco@arconic.com">afs.sales.waco@arconic.com</a></td>
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### INDUSTRIAL GLOBAL

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<tr>
<td>Kolkata Operations</td>
<td>Unit No. 28, 2nd Floor,</td>
<td>Tel: +91-33-40699170</td>
<td>Fax: +91-33-40699180</td>
<td>afs.sales.arconic.com</td>
</tr>
<tr>
<td>Melbourne Operations</td>
<td>1508 Centre Road</td>
<td>Tel: +613-8545-3333</td>
<td>Fax: +613-8545-3390</td>
<td>afs.sales.arconic.com</td>
</tr>
<tr>
<td>São Paulo Operations</td>
<td>Rodovia Anhanguera, s/n, KM 17, Parque São Domingos - Complexo Anhanguera - Galpão 1 Seção III (Módulo III) Box 11 CEP 05112-000 São Paulo – SP Brazil Tel: +55-11-3583-7061</td>
<td></td>
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<tr>
<td>Telford Operations</td>
<td>Unit C, Stafford Park 7</td>
<td>Tel: +44-1952-290011</td>
<td>Fax: +44-1952-207701</td>
<td><a href="mailto:thisales@arconic.com">thisales@arconic.com</a></td>
</tr>
<tr>
<td>Tokyo Operations (Japan and Korea)</td>
<td>1013 Hibiya U-1 Bldg. Uchisaiwai-cho 1-1-7 Chiyoda-ku, Tokyo 100-0011 Japan Tel: +81-3-3539-6594 Fax: +81-3-3539-6585</td>
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<td>Fax: +1 845-334-7333</td>
<td><a href="mailto:afs.sales.kingston@arconic.com">afs.sales.kingston@arconic.com</a></td>
</tr>
<tr>
<td>Simi Valley Operations</td>
<td>3990A Heritage Oak Court</td>
<td>Tel: 805 527 3600</td>
<td>Fax: 805 527 0900</td>
<td><a href="http://www.afs-simivalley.com">www.afs-simivalley.com</a></td>
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<tr>
<td>Aichach Operations</td>
<td>Robert-Bosch Str. 4</td>
<td>Tel: +49-8251-8757-0</td>
<td><a href="mailto:aicafswelcomedl@arconic.com">aicafswelcomedl@arconic.com</a></td>
<td></td>
</tr>
<tr>
<td>Cergy Operations</td>
<td>15 Rue du Petit Albi</td>
<td>Tel: +33-1-34-33-98-00</td>
<td>Fax: +33-1-34-33-97-77</td>
<td></td>
</tr>
<tr>
<td>Hong Kong Operations</td>
<td>27th Floor, 88 Hing Fat Street Causeway Bay Hong Kong, China Tel: +852-2864-2012</td>
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Huck provides technical assistance regarding the use and application of Huck fasteners and tooling. **NOTICE:** The information contained in this publication is only for general guidance with regard to properties of the products shown and/or the means for selecting such products, and is not intended to create any warranty, express, implied, or statutory; all warranties are contained only in Huck’s written quotations, acknowledgments, and/or purchase orders. It is recommended that the user secure specific, up-to-date data and information regarding each application and/or use of such products.