# FAQ'S



# 2236 MAX SERIES
## Drive Xchange System™ and DXS®

## DXS® OVERVIEW

**What is the DXS® Drive Xchange System™?**

- The Drive Xchange System™ is a patent-pending system of impact wrench tools and attachment accessories that allows the user to configure the drive size and length for optimum power and fit for the work situation.

**What are the benefits of the Drive Xchange System™?**

- DXS® eliminates power loss from drive size adapters, anvil extensions, and loose, worn or poorly fitting anvils and sockets.

**How was the DXS® system developed and tested before introduction?**

- Ingersoll Rand® uses advance computer aid modeling, finite element structural analysis, and physical laboratory performance inspection utilizing high speed photography, and practical use durability tests to develop the highest performing, most durable tools on the market today.
- Pre-introduction sample tools were in use in the field with users for more than a year, across the United States and around the world, and included users in the vehicle repair and heavy industrial assembly markets. Additionally, in our lab hundreds of tools were durability- and performance-tested to assure they met the highest standards of Ingersoll Rand®.
- The DXS® anvil system has been durability-tested to durability cycle levels beyond any previous 2235 Series endurance level.
- DXS® is a tried-and-true shape based on similar ‘spline’ designs that are common in other #5 spline drive impacts and other spline connections used in connecting shafts and motors for power transmission.

## 2236QTiMAX DXS® 1/2" IMPACT WRENCH

**How does the 2236QTiMAX DXS® 1/2" Impact Wrench Compare with the Prior Generation?**

- The 2236 Series tools are approximately 1/4" (6mm) shorter from tip to end, 2 ounces (57g) lighter and 200 ft-lbs (270Nm) stronger than the prior 2235 Series generation.

**How did we get more power out of a smaller tool?**

- A patent-pending cycloidal-shaped motor housing around the rotor and vanes allows for more air to be captured by the vanes as they spin.

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### How does our 2236 Power Regulator work?

- Like all Ingersoll Rand® pneumatic impacts, the 2236 power regulator is a forward-only torque regulator. The small dot is the lowest and the large dot is the highest forward power. The tool is always full power (unregulated) reverse.
- The regulator significantly reduces the forward torque at the lowest setting to make the tool more useful for low torque when used with the 3/8" Drive (model AH31, sold separately) and for ‘snugging’ tire lug bolts without overtightening.
- The forward regulator knob reduces the air flow to the motor rotor by bypassing some incoming air from the supply line directly to the exhaust path.

### What type of hammer case is used?

- The 2236 Series incorporates a titanium metal hammer case with the same unyielding durability that has made the 2235 Series legendary in surviving the harshest work environments under continuous use, while also being light weight.

### What type of material is used for the tool motor housing?

- Tool housings are made from a proprietary grade of chemical resistant, durable composite.

### What type of material is used for the Anvil Release Ring, Buttons, and Power Regulator Knob?

- The Release Ring, Regulator, and Forward/Reverse buttons are made from a super-tough nylon that is non-marring and can prevent damaging expensive alloy wheels in tire service environments.

### Is the tool ‘all new’ or are there common parts with the old 2235 Series?

- There are many common parts, but the hammer case, anvils, and housing are all new. Valves, bearings, and buttons are carried over from the older model.

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## DXS® ANVIL SYSTEM

### What is the process to change DXS® Anvils?

- To change DXS® anvils, first rotate the Release Ring (red ring) hole to the left side 3 o'clock position of the tool. Then rotate the anvil to align the indicator arrow on the anvil to this same position. Using a small screwdriver, Allen wrench, or included DXS® tool with the wrench, insert it into the open hole in the ring and depress the anvil retainer pin. Pull on the anvil to remove.
- As you become more proficient in removing and replacing anvils, it can take less than 10 seconds to change out parts.

### How are the DXS® anvils constructed?

- DXS® anvils are crafted from the same proprietary steel material and time-tested processes as our legacy anvils, providing superior reliability when compared to other impact wrenches on the market.

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**What holds the anvil in the front of the tool?**

- A spring pin, like our legacy Pin Anvils, is used for pin sockets.

**What do I use to release the anvil?**

- Releasing the anvil does not require a special tool. A small screwdriver, Allen wrench, punch, or pick is most often used by technicians.

**Is there a significant clearance in the anvil to mating drive in the tool?**

- The anvil mating tolerance is extremely high with practically no gap between pieces. Any motion observed here is along the axis of the anvil (front to back), not in the torsional direction, and has no effect on the torque transferred.

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## COMPATIBILITY

**What Attachments are compatible with DXS®?**

- DXS® Anvils are standard square-drive type and may be used with normal sockets and accessories.
- DXS® Sockets are directly driven through the DXS® interface on the tool.
- DXS® uses a proprietary spline-type interface. Only attachments marked with the DXS® logo are compatible.
- The DXS® system includes 2 registered trademarks and 6 patents pending, ensuring that compatible accessories will maintain the highest standards of quality and performance.

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## PARTS AND MAINTENANCE

**How do you grease the tool? There is no fitting on the outside.**

- The grease fitting is in the bottom center behind the removable anvil. This location channels grease directly onto the anvil lugs and hammers to place grease directly where it is needed most and improves the hammer life.

**Is the Anvil Release (red ring) removable / replaceable?**

- Yes, it snap-presses over a shoulder ring on the titanium part of the hammer case and is easily replaceable if needed.



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