



631 Series

1" Super-duty Impacttool™



More power to you

Don't settle for less — demand genuine Ingersoll Rand parts!



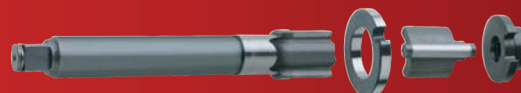
Vanes

Our state-of-the-art, fiber-reinforced, engineered polymers ensure top performance from this critical part.



Endplates

Easily serviceable parts, simplified components, and unique features give the longest tool life available — and the shortest downtime.



Rocking / swinging dog mechanism

For more than 70 years, we've been perfecting our unique metallurgy and chemical treatment processes to produce the toughest impacttools on the market.



Vanes with motor

Tight production tolerances, robust designs, and optimized output provide the best of both performance and productivity.



Sockets

Backed by a long heritage of reliability and engineering excellence, Ingersoll Rand offers an extensive line of industrial-grade sockets.



Gloves

For the ultimate in protection and comfort, our gloves are specially designed for the way you use our tools. They enhance your grip and enable your fingers to move easily, improving performance.

As a leader in impacttools, Ingersoll Rand continuously strives for excellence through constant improvement in design and process.

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Ingersoll Rand Industrial Technologies provides products, services, and solutions to enhance the efficiency and productivity of our commercial, industrial, and process customers. Our innovative products include air compressors, air systems components, tools, pumps, material and fluid handling systems, and microturbines.

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You'll get it done easy with Ingersoll Rand

For more than 100 years, our air impacttools have been the choice of professionals who want to get the job done right every time, even in the harshest work environments. Our new 631L 1" super-duty impacttool delivers exceptional power and rugged durability in a convenient, easy-to-use package.

With its 3172 ft-lb of maximum torque, 3500 rpm free speed, and 8" extended anvil, the 631L is the perfect tool for the most demanding applications, such as automotive service, tire changing, as well as the MRO market. The 631S features a standard anvil, which allows access to limited space applications such as truck chassis and general industrial usage. The 631LSK has two-piece, 21 mm budd wheel sockets and two-piece, 41 mm hex sockets for changing truck and bus tires.

Super-duty impacttools for demanding jobs

Grease Groove

provides lubrication to the anvil/hammer case bushing area. Oil seal prevents grease from seeping out of hammer case busing.

Through-hole socket retainer permits easier socket changing

Industrial 8" extended anvil ensures rugged durability and access to tough applications

Symmetric hammer plate geometry prevents incorrect assembly

High inertia-forged hammer frame provides enhanced durability and torque

Shrink-fitted motor reduces air consumption and improves performance

Chemical-resistant boots absorb shock and protect the hammer case and motor housing from damage

Steel trigger over-molded with chemical-resistant rubber to provide cushion during impacts

Heat-treated, precision-machined hammer mechanisms deliver maximum torque, prevent stalling, and increase life



Precision-cut phenolic vanes provide maximum power and durability

High-efficiency 6-vane air motor delivers 3,172 ft-lb of maximum torque

4-position power regulator enables one-motion quick switch actuation to change direction and regulate torque

45° air inlet bushing provides hose clearance from operator for safety and comfort during use



Riveted name plate for easy tool identification



Oil port allows oil to be added without hose removal

631S



631L



631LSK



631L, 631LSK & 631S 1" Super-Duty Impacttools™

| SPECIFICATION | 631L | 631LSK | 631S |
|---------------------------------------|---------------------------|---------------------------|---------------------------|
| Max. Torque – ft-lb (Nm) | 3,172 (4,300) | 3,172 (4,300) | 3,172 (4,300) |
| Working Torque – ft-lb (Nm) | 200 – 2,500 (271 – 3,390) | 200 – 2,500 (271 – 3,390) | 200 – 2,500 (271 – 3,390) |
| Bolt Capacity – mm (Hex size mm) | M55 (85) | M55 (85) | M55 (85) |
| Impacts/min | 700 | 700 | 700 |
| Free Speed – rpm | 3,500 | 3,500 | 3,500 |
| Weight – lb (kg) | 36.5 (16.6) | 36.5 (16.6) | 32 (14.5) |
| Length – mm | 624 | 624 | 431.8 |
| Side to Centre Distance – mm | 64.9 | 64.9 | 60.36 |
| Average Air Consumption – cfm (L/min) | 15.1 (427) | 15.1 (427) | 15.1 (427) |
| At Load – cfm (L/min) | 56.0 (1,585) | 56.0 (1,585) | 56.0 (1,585) |
| Air Inlet Connection NPTF – in | 1/2" | 1/2" | 1/2" |
| Min. Hose Size – in (mm) | 1/2" (13) | 1/2" (13) | 1/2" (13) |
| ACCESSORIES | | | |
| Allen Key | yes | yes | yes |
| Male Thread Quick Change Connector | yes | yes | no |
| 41 mm Hex Socket (90 mm long) | no | yes | no |
| 21 mm Budd Wheel Socket (60 mm long) | no | yes | no |
| Motor Boot | yes | yes | no |
| Hammer Case Boot | yes | yes | no |

*Performance figures are at 620kPa/90psi/6.2 bar air pressure.

Common 1" socket sizes
for truck, bus, and trailer tires

| Part number | Output Hex Size (mm) | Length (mm) |
|-------------|-------------------------------|-------------|
| S68M32L | 32 | 90 |
| S68M33L | 33 | 90 |
| S68M34L | 34 | 90 |
| S68M35L | 35 | 90 |
| S68M36L | 36 | 90 |
| S68M38L | 38 | 90 |
| S68M41L | 41 | 90 |
| S48M21 | 21 (female square budd wheel) | 60 |

Refer to Ingersoll Rand accessories catalog for more socket sizes.

