



# How to use tongs on a drilling rig

What is a rig Tong?

Rig tongs are large, heavy-duty tools used to apply torque to pipes during drilling operations. They function similarly to a wrench but are designed to handle the extreme forces required for oil and gas applications. The amount of torque generated depends on the force applied to the tong's arm and the arm's length.

What are the different types of rig tongs?

There are a variety of rig tongs available dependent on what application they'll be used for. Some examples are: chisel tongs, casing tongs, power tongs, rotary tongs and manual tongs. Below we will dive into everything rig tongs - how they're used, how they can benefit your drill site and why they're essential to any drilling operation.

How do rig tongs work?

The first set of tongs is tied to the derrick with a cable or chain, while the second set is pulled with mechanical catheads. When strategizing how to properly make this connection with the rig tongs, you need to take into account the necessary torque. To precisely determine what torque is needed, you multiply force and the length of the tong.

What is makeup torque rig tongs?

Makeup torque is the force applied to tighten the connection between two pipes, ensuring a proper seal and structural integrity during drilling. Understanding how to calculate and apply makeup torque is essential for maintaining safe and efficient operations, and rig tongs play a vital role in this process.

Are rig tongs safe?

These features, paired with the ability to create secure pipe connections, make rig tongs indispensable for maintaining a safer working environment. Key safety benefits include: Reduction in hand and impact injuries. Spark-resistant materials for volatile environments. Reliable connections to prevent equipment failures.

How do tubing tongs work?

Just like opposing wrenches, tubing tongs are used in pairs when handling tubing or other drilling components. The "lead tongs" are connected directly to the derrick, while the second set is handled separately. The two tongs work together to provide enough force to tighten or loosen the component as needed.

9. Workover manual Tong is a kind of tool used for make-up/break-out drilling tools and pipes during workover and drilling water well operation or other drilling operations.

Tubing tongs may have a simple design compared to other types of drilling equipment, but don't let that fool you--they are powerful and essential tools that provide ...



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So the next time you see footage of a drilling rig silhouetted against the desert or sea, remember the quiet giants at work on the floor below. The tongs might not roar, but they turn the wheel of ...

Master the skills of using tongs on a drilling rig with our comprehensive guide. Learn the art of handling and maneuvering tongs to maximize efficiency and safety on the job.

Every piece of equipment plays a vital role in the world of oil and gas drilling, but few are as crucial as pipe and casing pliers: tubing tongs and casing tongs.

PETOL DRILL PIPE TONGS are heavy duty tongs designed for making up and breaking out drill pipe, break apart hammers and hammer bits and casing. These tongs are furnished as original ...

In the fast-paced world of oilfield drilling, not all power tongs are created equal. To the untrained eye, they may all look like "big, angry metal jaws" -- but the difference between a drill pipe ...

Rig tongs are essential tools for gripping and turning pipe sections during drilling operations, and conducting regular inspections ensures their safe and efficient use.

In this video, we delve into the Use and Maintenance of Drilling Tongs, a vital tool in oilfield operations. Drilling tongs play a crucial role in gripping a...

The Crown Block as a drilling rig component is a fixed set of pulleys (called sheaves) located at the top of the derrick or mast, where the ...

Here, we'll answer a few questions about rig tongs so you can better understand how they're used and how they could benefit your oil patch operation.

One application of the rig tong is to use to make up connection. The question is asked about how to get the right torque value to the connection if ...

Power tongs are commonly used on rig floors during drilling, casing, and workover operations, replacing manual tongs for better consistency, control, and worker safety. Why Power Tongs ...

A drill pipe power tong is a specialized tool that grips and rotates drill pipes during drilling operations. This equipment automates the process of making up and breaking out pipe ...

When imagining oil drilling, most people think of towering rigs, roaring engines, or the deep mysteries of what lies beneath the surface. Rarely does the spotlight fall on the equipment that ...

The versatility of power tongs allows them to be used in a wide variety of well types and conditions, from conventional land-based operations to deepwater drilling rigs.



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The Riser Tong 21-300 was designed with various types of rigs in mind. The tong can either be suspended from a lift cylinder and manipulated to and from well center with the Weatherford ...

What is an Oil Rig? An oil rig is a large, complex structure used to extract crude oil and natural gas from underground reservoirs. It serves as a ...

Understanding how to calculate and apply makeup torque is essential for maintaining safe and efficient operations, and rig tongs play a ...

For reliable and smooth drilling oilfield operations, rig tongs are used, which guarantee precise control and eliminate the risks of accidents.

Rotary drilling rig crew use various tools for handling drilling string while tripping operation.. let see these various rig floor components that provide support for ...

5. Hard Banding on Drill Pipe -Recognition of hard banding on pipe by floor personnel is necessary. Floormen need to ensure that tongs do not contact hard banding area. When doing ...

Using a comprehensive offering of power tongs, we can help you to make up or break out casing, standard connections, high-torque connections, premium connections, riser strings, and ...

Power tongs keep workers safe so they can get the job done. Automation of Drilling: What Could Power Tongs Change in Productivity and Performance? Automated ...

It is important not to use a large range of sizes with just one tong. If you have a 10-3/4 Standard and you regularly run 4-1/2-inch tubing with this tong, you might consider using a smaller tong. ...

Utilizing breakout tongs is a key piece on many horizontal directional drilling jobsites by providing an efficient solution for torqued direct tooling connections. When it comes ...

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The document provides an overview of makeup torque in oil and gas drilling operations, emphasizing its importance for securely connecting drill pipes and ...



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