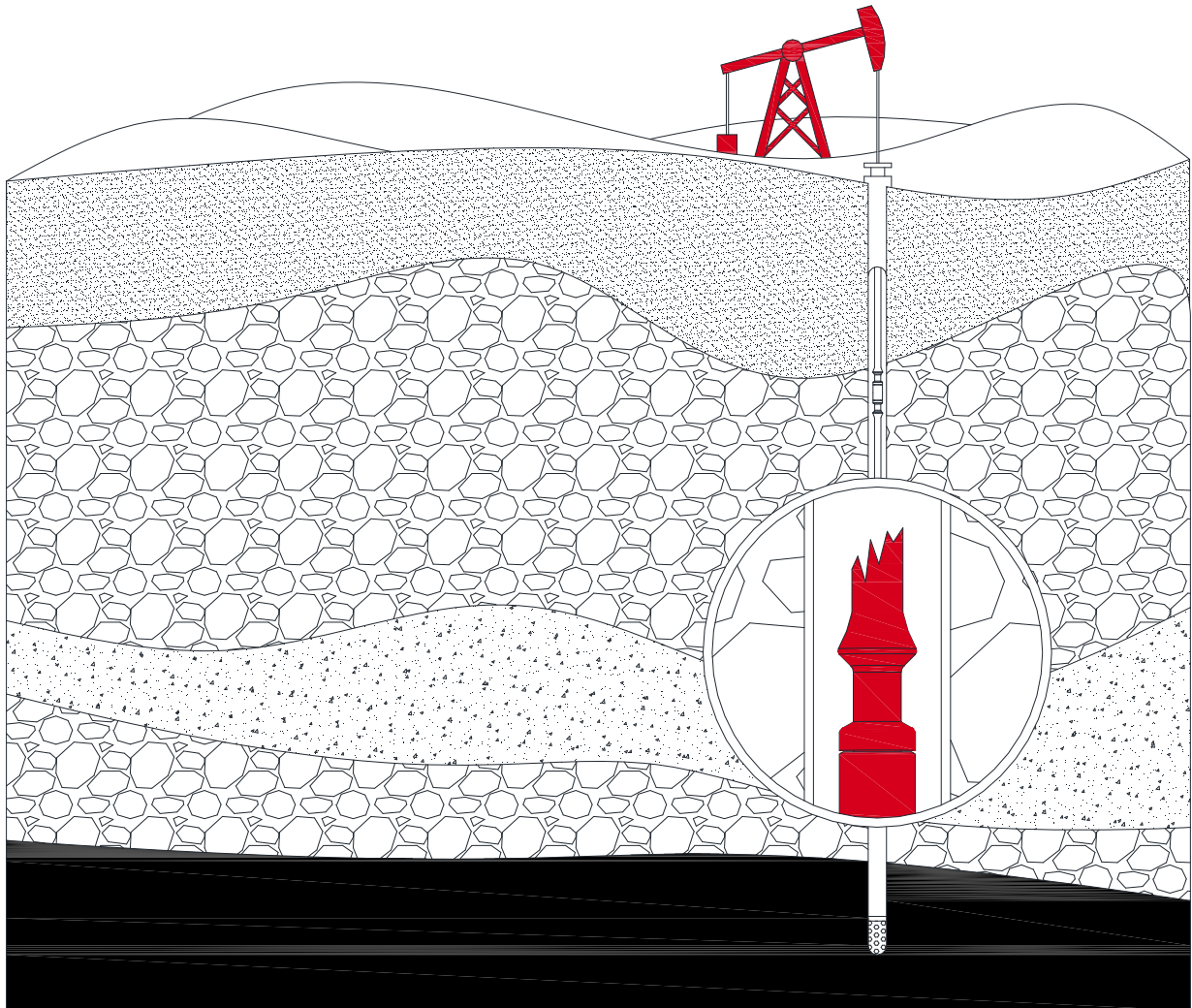




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Sucker Rod Fishing Tools





SETTING A HIGHER STANDARD

Why Fish? – It Saves Time, Money and Having to Pull Tubing.

Cost to Fish

Cost to Pull Tubing

TRICO FISHING TOOL GUARANTEE

Trico fishing tools are made in North America by Topco Oilsite Products from high strength steel. Because the tool must fit between the tubing I.D. and the coupling O.D. the strength of the tools is limited. The heavy pulls of pump unseating or deep wells may swell or crack fishing tool parts. Trico guarantees its parts to be free of material or workmanship defects but cannot guarantee that the tools will not fail.

Slip type tools, for example, multiply the pulling force of the service rig to get the tight grip needed. The degree of taper inside the bowls determines the mechanical advantage of grip to pull. A service rig pulling 3,000 lbs. on its weight indicator causes the slips to exert up to 115,200 lbs. of grip. The bowl must contain this grip. Hard pulls are easily capable of swelling or splitting fishing tool parts.

Fishing tool parts are subject to corrosion and should be cleaned and lubricated after each use. Properly cared for, Trico fishing tools will give years of service.

ROD SOCKET (OVERSHOT) ASSEMBLY

There are multiple slips and sleeves available for Trico rod sockets. Parts drop in to the bowl in the order and orientation shown in the following diagrams.

IMPORTANT NOTES ABOUT THIS PUBLICATION

All specifications and descriptions are accurate at the time of printing. Because continuous improvement is a goal at Topco, we reserve the right to make changes in specifications at any time without notice and without obligation.

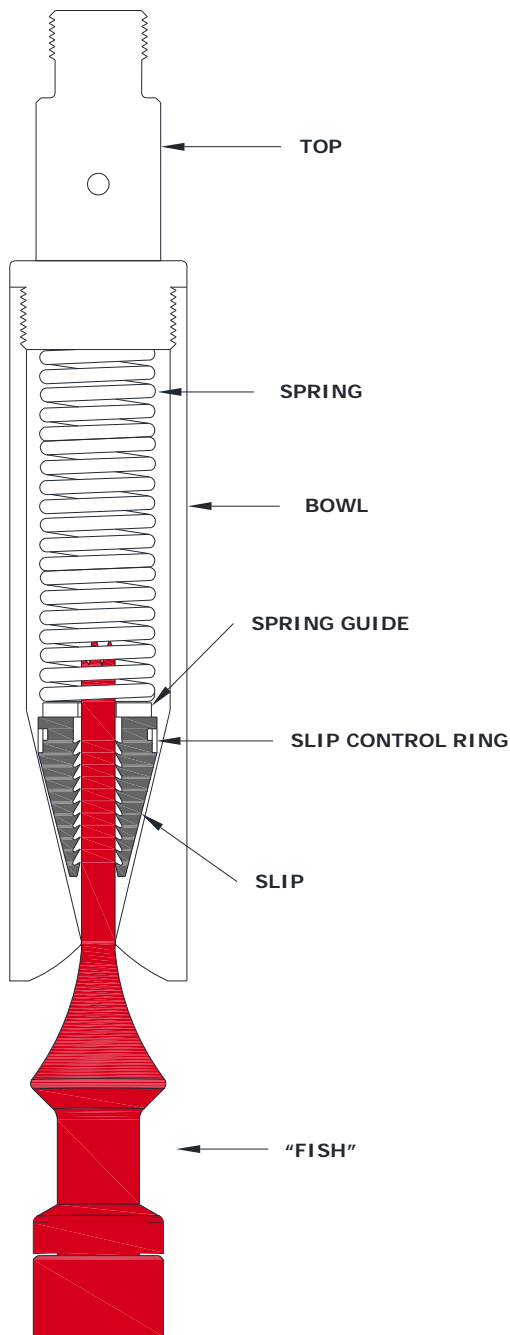
Please be aware that this guide applies to all models, equipment, and options. As a result, you may find some explanations not applicable to your equipment.

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LITTLE GIANT SUCKER ROD SOCKET OVERSHOT



For:

Sucker Rod body breaks, valve rod, and long pins.

Not For:

Couplings, shoulders, large fish necks, hardened or hard overlaid rod. (Short pins... try it above ground first.)

Advantages:

Small, inexpensive fishing tool for use when a rod body or long pin is the only possible catch.

Sizes:

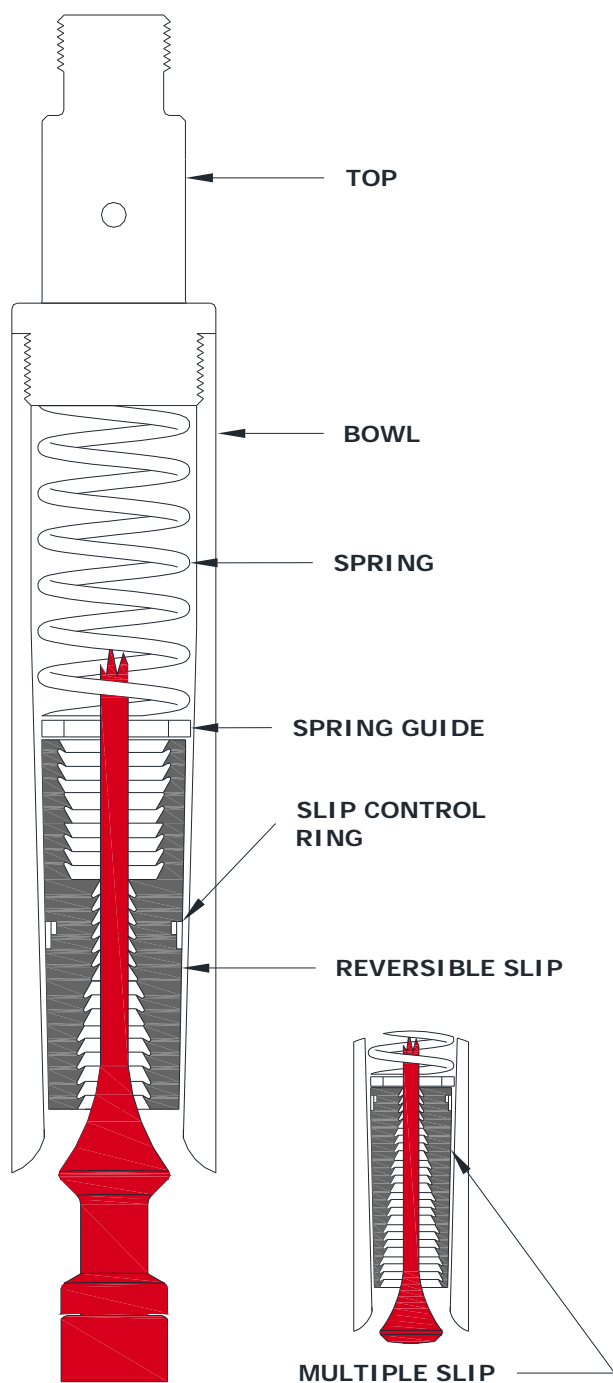
2" tubing with interchangeable wickered slips for 1/2" to 7/8" rods or 3/8" to 1/2" pipe threads.

How it works:

This tool is the same as the upper section of our sleeve-type combination tools but without a lower bowl thread. A rod body entering the tool pushes the tapered, wickered slips up into the tapered bowl. As the slips rise, they open and swallow the fish. The spring reseats the slips in the taper gripping the rod. 3,000 lbs. of pull on this tool develops 45,000 lbs. of gripping force on the rod. Tops, bowls, and slips are made from high strength steel to resist bowl splitting or wicker stripping when over pulled.



REVERSIBLE SLIP-TYPE SUCKER ROD SOCKET / OVERSHOT



For:

Couplings, rod bodies, fish necks, shoulders, polished rod, pull tubes, valve rods and some pins.

Not For:

Hard-overlaid couplings or rods, hardened fish necks.

Advantages:

Reversible and multiple slips offer a wide catch range in a simple inexpensive tool. Gradual inside taper gives the tightest grip of any slip-type tools. (3,000 lbs. of pull develops 115,200 lbs. of grip in the 2" size and 58,000 lbs. in the 2-1/2".) Because the slips grip so tightly, the bowl which must contain the grip has been made from high strength steel especially designed to resist splitting from a hard pull.

Sizes:

Tools are made to fit 2" and 2-1/2" nominal tubing, alternate reversible or multiple slips are available for different catch ranges.

Slip Types:

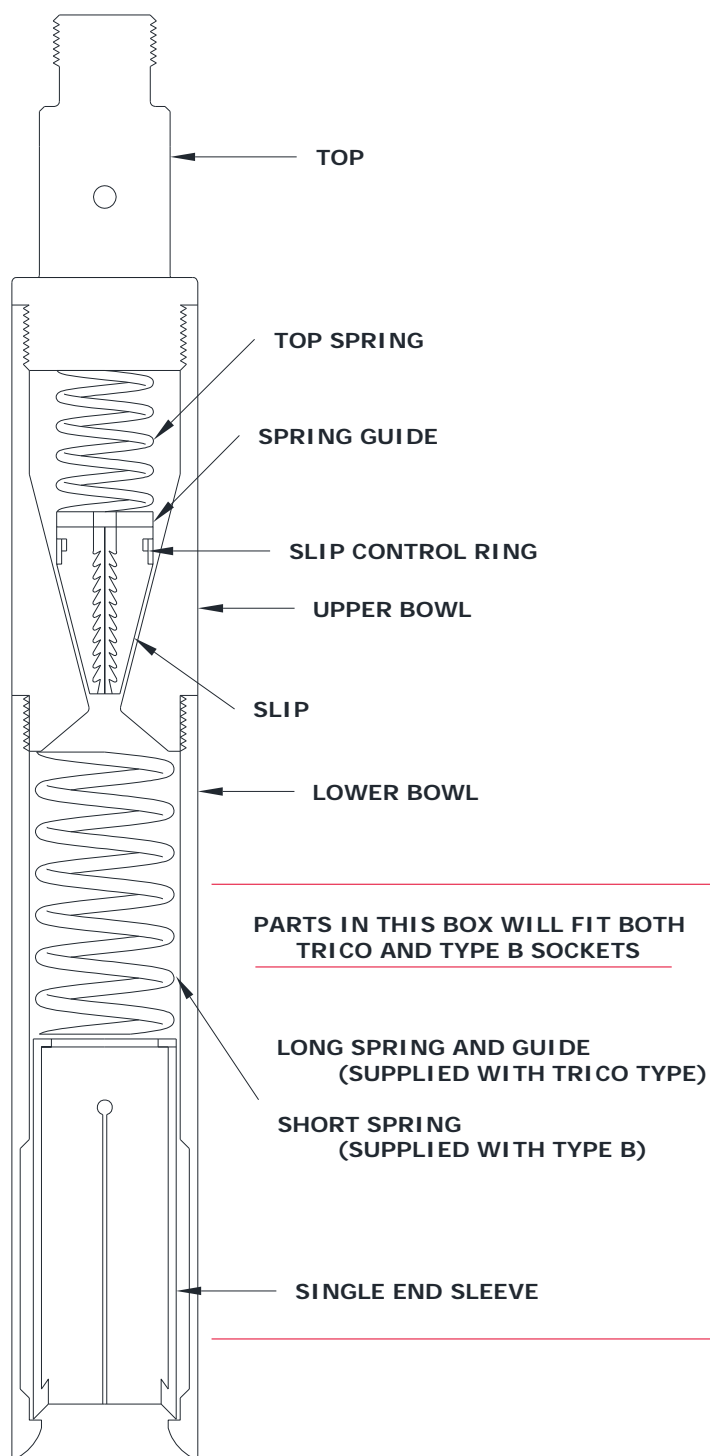
Various reversible slips or multiple slips may be used in this tool. The reversible slips have wickers on one end for two rod end sizes and will fish two coupling sizes on the other end. The multiple slips will fish boxes of various sizes; even worn ones, all the way down to 5/8 rods without having to reverse the slips. Reversible slips are less likely than the multiple slips, to break at the thin edges when pulling hard on a rod body.

How it works:

When a fish enters this tool and hits the slips, the tapered slips rise inside the tapered bowl. As the slips rise, they open and swallow the fish into its wickered section. As the tool is lifted, the spring pushes the slips tightly back down into the taper of the bowl. The wickers bite into the fish. The harder the tool is pulled, the tighter the slips dig their wickers into the fish. Like a finger puzzle, the fish is now trapped in the fishing tool.



COMBINATION SLEEVE-TYPE SUCKER ROD SOCKET / OVERSHOT



For:

Couplings, rod bodies, fish necks, shoulders, and long pins especially good for hard-overlay couplings and hardened fish necks. **Will catch** a slimhole coupling with a rod-bead-break on top.

Not For:

Short pins, polished rods, large pull tubes.

Advantages:

Two styles of this tool are made:

The original Trico (Nielson) sleeve type.

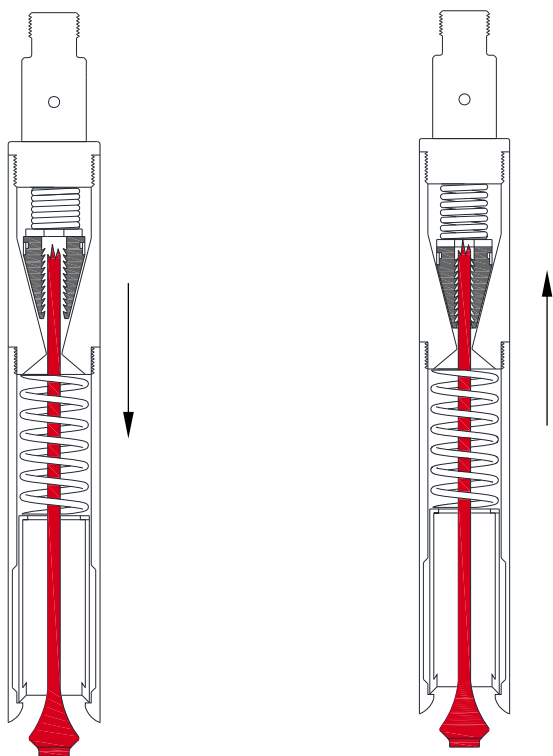
It is a little longer allowing a longer fish to be caught. Its slips grip a little tighter and will take a stronger pull. **The type B** is shown. Its parts are interchangeable with O'Bannon. The slips, tops, and bowls are not interchangeable between these two types of tools. The sleeves, their rings, and springs are interchangeable. Box-only fishing tools may be made-up using a top, spring, ring, sleeve, and lower bowl. The top from a **reversible-slip** fishing tool is used with the Trico lower bowl. The type B top fits both upper and lower bowls. The top sections of either of these tools can be used as a pin-only fishing tool. A metal thread protector should be used when only the top section is used, however.

Sizes:

The Trico type and type B comes in 2" and 2-1/2". The type B 2-1/2" has thinner walls than the Trico type and will break easier during hard pulling. The type B tools will catch up to 2" diameter boxes or shoulders.

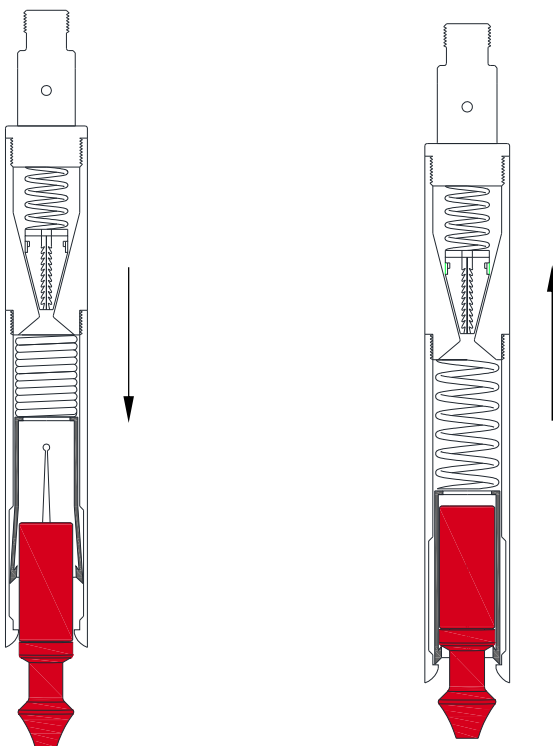


COMBINATION SLEEVE-TYPE SUCKER ROD SOCKET / OVERSHOT



How it works:

The **upper section** works like all of the tapered slip fishing tools. As the long pin or rod body enters the upper section of the tool, it lifts the slips in the tapered bowl. The slips are thereby allowed to expand enough that they swallow the fish. The spring jams the slips back into the taper forcing the slips to close around the rod or pin. Like a finger puzzle, the slips grip tighter the harder you pull to the point where the bowl splits or the wickers in the slips strip out. A 3,000 lb. pull on the Trico type slips, grips the rod with 44,000 lbs., 3,000 lb. on the type B; 34,000 lb. grip.



The **lower section** is somewhat similar. A box or shouldered fish enters the lower bowl. It hits the edge of the sleeve pushing the sleeve up and into a recessed section of the lower bowl. The sleeve's "fingers" are allowed to expand in this section. The fish rises into the sleeve. The fingers of the sleeve close around the lower shoulder of the fish. The lower spring pushes the sleeve back down into its locked shut section of the lower bowl. The fish is now trapped inside the tool and may be pulled from the well. The top, bowls, slips, and sleeves are made of high strength steels to get the maximum resistance to swelling or splitting during hard pulls. The tool's overall strength is limited by the room left between the coupling and the tubing. We put all the steel and strength we can into the tool.



SUCKER ROD FISHING TOOLS

Broken Part	Little Giant	Reversible	Combination Sleeve
Valve Rod	✓	✓	✓
Polished Rod		✓	
Sucker Rod Body	✓	✓	✓
Sucker Rod Bead Below Joint	✓	✓	✓
Sucker Rod Bead on Top of Joint		✓	✓
Sucker Rod Pin or Coupling		✓	✓
Pin on Hard Overlay		✓	✓
Sucker Rod Pin		✓	✓
Fish Neck on Top of Pumps Rod Guide		✓	✓
Pin Top Cage	✓	✓	
Top Plunger Cage		✓	



Try your "Fish" in the tool above ground before you put it into the well

Tool	Size	OD	Pin Size Provided	Fish			
				Sucker Rods Caught	Polished Rods Caught	Couplings Caught	
Little Giant*	2	1 11/16	3/4	1/2 - 7/8	
Reversible Slip Type	2	1 29/32	3/4	5/8 - 7/8	1 1/4 - 1 1/2	1 1/4 - 1 1/2	
	2 1/2	2 5/16	3/4	5/8 - 1	1 1/8 - 1 1/2	1 1/2 - 1 5/8	
Combination Sleeve Type	Trico	2	1 29/32	3/4	1/2 - 7/8	...	1 1/4 - 1 1/2
		2 1/2	2 5/16	3/4	5/8 - 1	...	1 1/2 - 1 13/16
	Type B	2	1 15/16	3/4	5/8 - 7/8	...	1 3/8 - 1 9/16
		2 1/2	2 11/32	3/4	5/8 - 1	...	1 5/8 - 2

* 5/8 pin sizes available upon request.



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