



14-50 High-Torque Casing Tong

The Weatherford 14-50 high-torque casing tong provides 50,000 ft-lb (67,790 N•m) of torque capacity for running and pulling 6 5/8- to 14-in. casing. The tong has a unique gated rotary that completely encircles the casing to distribute gripping forces over a greater area and ensure a positive grip without pipe deformation and pipe marking. For added safety, the hydraulic door interlock prevents tong operation while the doors are open or unlatched.

The 14-50 casing tong is capable of fully mechanized remote operation or semimechanized operation. The tong is completely compatible with all Weatherford automated tong-positioning systems, including the patented* PowerFrame® and PowerScope® systems.



Applications

- Running and pulling 6 5/8- to 14-in. casing
- Making up and breaking out connections that require high torque
- Performing offline or moonpool casing makeup operations

Features, Advantages, and Benefits

- The tong with the hydraulic backup eliminates the need to use large manual rig tongs as backup when running casing, thereby enhancing safety.
- The integral hydraulic backup grips pipe and couplings without crushing, which saves equipment repair costs.
- The patented free-floating backup design virtually eliminates shearing and bending when making up or breaking out connections. That reduces casing deformation, which can affect long-term wellbore integrity.
- The tong is compatible with Weatherford JAMPro™ torque control systems.
- The hydraulic door interlock prevents tong operation while the doors are open or unlatched to enhance safety.
- The versatile tong design allows running of casing in the moonpool or offline on rigs that accommodate these activities.
- The optional Micro-Grip® gripping system grips the casing fully, which minimizes damage to the tubular surface that can lead to stress corrosion cracking, sulfide stress cracking, and associated repair costs.

*U.S. Patents

PowerFrame system	7114235
PowerScope system	6412553



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Specifications

Pipe size range (in.)	6-5/8 to 14
Tong dimensions (in., mm)	42 × 64 × 38 1,067 × 1,626 × 965
Tong weight (lb, kg)	2,000 909
Maximum torque continuous (ft-lb, N·m)	50,000 67,570
Operating pressure (psi, bar)	3,000 207
Flow (gal/min, L/min)	44 166
Low speed (rpm)	6
High speed (rpm)	30
Torque arm length (in., mm)	42 1,067

