

CRAdle Grip Tong Jaws

Runs corrosion-resistant alloy (CRA) tubulars with minimal marking

Applications

- CRA tubular running
- Thermal-sprayed aluminium (TSA) tubular running
- HPHT wells
- Corrosive environments
- High-torque, low marking applications

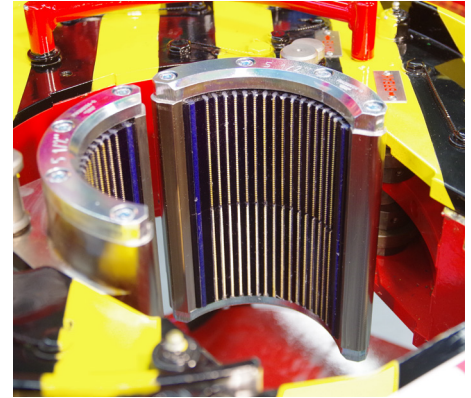
Features and Benefits

- The jaws fit standard, field-proven Weatherford power tongs without special modifications and come with standard operating procedures.
- The system preserves tubular integrity in corrosive downhole environments including CO₂- and H₂S-bearing wellbores.
- Tong-induced load distribution creates minimal marking and less damage to tubing and casing, which prevents stress-corrosion-induced failures.
- Solid-aluminum construction prevents tilting and slippage at higher torques.
- Polyurethane-embedded clamping blades maintain a close pipe tolerance, while air cells enable blade flexibility.
- The system eliminates hydraulic bladders, which reduces maintenance and downtime requirements.
- The jaws are available in sizes ranging from 3-1/2 to 9-5/8 in. with a maximum torque rating of 60,000 ft/lb (81,349 N-m).

Tool Description

Weatherford CRAdle grip tong jaws minimize die marks when running CRA tubulars. Conventional power-tong jaws use dies that mark and penetrate the surface of the pipe when engaged. These penetration points can lead to stress-corrosion cracking and sulfide-stress cracking, which compromise longterm tubular-string integrity.

CRAdle grip tong jaws use polyurethane-embedded clamping blades that distribute the rotational torque equally over several small gripping elements. The system leaves only a shallow indentation from each gripping element in the pipe surface. Consequently, extensive testing indicates that CRAdle grip tong jaws prevent corrosion in wells with high concentrations of CO₂ and H₂S.



Weatherford CRAdle grip tong jaws use polyurethane-embedded clamping blades that distribute the rotational torque equally over many small gripping elements, which minimizes marking and enhances longterm tubular integrity.



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Specifications

Size / Range	Maximum torque with 7.6-30 system	Maximum torque with 7.6-50 system	Maximum torque with 14-100 / 22-150 systems
9-5/8 in.	-	-	60,000 ft/lb (81,349 N·m)
5-1/2 to 7-5/8 in.	30,000 ft/lb (40,674 N·m)	50,000 ft/lb (67,790 N·m)	-
5 in.	25,000 ft/lb (33,895 N·m)	36,000 ft/lb (48,809 N·m)	-
4-1/2 in.	22,000 ft/lb (29,828 N·m)	32,000 ft/lb (43,386 N·m)	-
4 in.	18,000 ft/lb (24,405 N·m)	28,000 ft/lb (37,963 N·m)	-
3-1/2 in.	15,000 ft/lb (20,337 N·m)	25,000 ft/lb (33,895 N·m)	-

