

Casing Running Tool with External Grip (CRTe)



The OWS CRTe is designed for casing drilling or running with top drive equipped rigs to makeup, breakout, reciprocate, rotate, fill/circulate, and cement casing and liner strings, reducing non productive time and associated costs.

SPECIFICATIONS:

The CRTe is mechanically activated in tension and both rotational directions solely by top drive control using TAWG™ (Torque Activated Wedge Grip) technology.

This patented architecture puts control in the hands of the driller, reducing the need for third party support to run casing. Simple intuitive operating steps for pipe engagement and release closely emulate the familiar make and break steps used to run drill pipe—stab, rotate to the right to engage and reverse to disengage. Similarly, rig-in and rig-out steps are simple, intuitive and efficient.

Starting from the base bell diameter, selectable sizes of jaws/dies are used to configure the CRTe to support gripping casing of decreasing external diameter.



**TOOL MODEL: CRTE -1.0, SPECIFICATION SUMMARY
DRIVE MODULE 1**

Rated Load Capacity	Hoist ^{1,2}	ton	500
	Torque ^{2,3}	ft.lbs	40,000
Typical Circulation Pressure Limit ^{4,5}		psi	5,000
Maximum Pressure End Load		ton	100
Overall Tool Length		in	Float: 83.4 Non-Float: 71.0
Float Length		in	Float: 6.1
Tool Diameter Stroke		in	1.37
Maximum Tool Diameter		in	13.7
Through Hole		in	1.0
Tool Joint			NC50
Turns to Stroke Out			1.75

LIMITATIONS:

1. Tool hoist rating is based on API Specification 8C; however, casing load limit may be further constrained by local interaction of slip dies with casing.
2. Capacity ratings provided represent design intent. These values may change pending outcome of design verification testing.
3. Torque capacity may be limited by slip die/casing interaction.
4. CRTE circulation pressure capacity is generally governed by packer cup pressure capacity. Pressure capacity may be less than indicated if alternative seal arrangements are used.
5. CRTE hoist capacity must be reduced by the pressure end load during circulation.
6. Values given are valid for all pipe weights specified in API Specification 5CT.

**TOOL MODEL: CRTE -1.0, SPECIFICATION SUMMARY
GRIP MODULE 5.5**

4.5" Casing ⁶		
Die P/N		82155
Nominal Pipe Size	in	4,5
Maximum Coupling Diameter	in	5,67
Maximum Coupling Length	in	12,95
Die Curvature Diameter	in	4,51
Die Length	in	16,3
Tool Weight	lbs	Float: 1,893 Non-Float: 1,720
5.0" Casing ⁶		
Die P/N		82408
Nominal Pipe Size	in	5,0
Maximum Coupling Diameter	in	6,16
Maximum Coupling Length	in	12,95
Die Curvature Diameter	in	5,01
Die Length	in	16,3
Tool Weight	lbs	Float: 1,880 Non-Float: 1,707
5.5" Casing ⁶		
Die P/N		81813
Nominal Pipe Size	in	5,5
Maximum Coupling Diameter	in	6,6
Maximum Coupling Length	in	12,95
Die Curvature Diameter	in	5,51
Die Length	in	16,3
Tool Weight	lbs	Float: 1,866 Non-Float: 1,693

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