



Weatherford®

Drilling with Casing

DwC™ Internal Casing Drive System

Weatherford's drilling-with-casing (*DwC*) internal casing drive system is designed to enhance conventional casing makeup systems and offers reliable, highly capable performance when simultaneously drilling the hole and running casing.

The system is versatile and can drive a string of casing to depths of 15,000 ft (4,572 m) without the risk of damaging the casing.

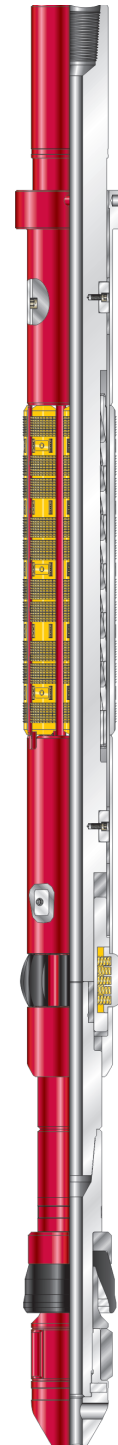
The system's simplicity of design, which allows for fast rig-up and safe, efficient hoisting of longer casing lengths, make it ideal for almost any application.

Applications

- The *DwC* system can be used, onshore or offshore, to drive 9 5/8- to 13 3/8-in. casing to depths of 15,000 ft (4,572 m) and 16- to 24-in. casing to depths of 5,000 ft (1,524 m).
- With simple modifications, the system can convert to a fishing spear.
- Can be used to replace elevators and casing fill-up tool to enhance conventional tubular running operations.

Features, Advantages and Benefits

- The straightforward design of the *DwC* system ensures reliable, trouble-free performance and faster operations. The right-hand, quarter-turn catch and left-hand, quarter-turn release allow rapid connection to reduce rig time.
- A stop collar facilitates proper slip placement inside the casing for an easy, yet secure connection.
- The high-pressure packoff allows a wide range of drilling circulation pressures for optimal Defyer™ hydraulics and more efficient operations.
- Bi-directional wickers securely grip the casing for safer handling. The longer slips reduce contact stress on the casing and enable the system to lift longer lengths, improving the ability to reach total depth.
- With simple modifications, the system can convert to a fishing spear, reducing the equipment that is required on site.





DwC™ Internal Casing Drive System

Specifications

Casing		Part Number	
OD (in.)	Weight (lb/ft)	Spear Assembly	Pack-Off Assembly
9-5/8	36.00	743306	743354
	38.00		
	40.00		
	42.00		
	43.50		
	47.00		
	53.50		
	57.40		
	58.40		
10-3/4	40.50	715994	743356
	45.00		
	45.50		
	48.00		
	51.00		
	54.00		
55.50	743357		
13-3/8	48.00	715995	743358
	54.50		
	61.00		
	68.00		
	72.00		

Casing		Part Number			
OD (in.)	Weight (lb/ft)	Spear Assembly	Pack-Off Assembly		
16	63.39	230043	743360		
	65.00		743361		
	70.00		743362		
	75.00		743363		
	84.00		743365		
	94.50		743366		
	95.00		743367		
	109.00		743368		
	118.00		743370		
	128.00		743370		
	138.00		743370		
	18-5/8		73.09	234591	743371
			78.00		743372
87.50		743373			
94.50		743374			
96.50		743376			
97.70		743377			
99.00		743379			
105.00		743380			
109.00		743381			
112.00		743377			
115.00		743379			
122.00		743380			
126.00		743381			
126.00		743380			
133.00		743381			
138.00		743381			

Casing		Part Number	
OD (in.)	Weight (lb/ft)	Spear Assembly	Pack-Off Assembly
20	84.75	234592	743383
	85.60		
	90.00		
	94.00		
	104.10		
	106.50		743384
	118.50		743385
	131.00		743387
	133.00		743388
	141.90		743388
22	142.80	745655	760941
	151.00		1204031
	170.37		1204022
	224.49		1204029
24	125.60	1193080	1193088
	156.10		
	186.40		
	238.35	795225	795221
	257.00		804975
	304.00		

Options

- An optional mud-saver valve prevents drilling mud from draining from the circulating equipment during connection, which improves safety and working conditions while reducing the effects of the operation on the environment.

Related Products

- Defyer™ series drillable casing bits