

**Oil Country Tubular Ltd**  
India



**OCTL DS** (Double Shoulder Connection)

**OCTL HT** (High Torque Connection)

[www.octlindia.com](http://www.octlindia.com)



## OCTL DS Connection

OCTL DS (Double Shoulder) High Torque Connection substantially increases drilling safety and performance by providing higher torque capacity than standard API connections. The superior torsional strength makes OCTL DS connection ideal for use in aggressive drilling programs.

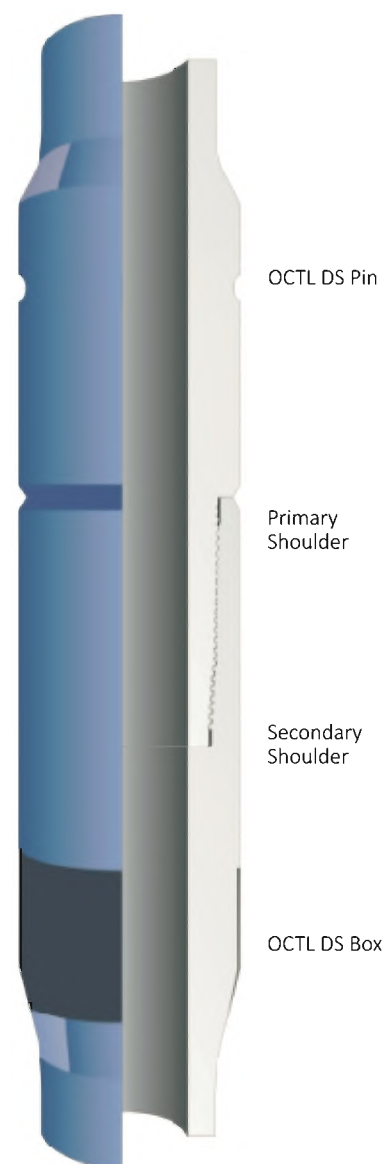
The primary external shoulder serves as the sealing surface, while the secondary shoulder serves as the mechanical stop for the connection. OCTL DS pin and box sections are engineered to distribute the make up forces between the two shoulders, providing additional torsional strength for high torque applications.

The ability to improve hydraulics and maintain higher tool joint torsional strength than the standard API connection makes OCTL DS connection an excellent choice for tough downhole applications.

OCTL DS is interchangeable with standard API connections, giving the Customer additional flexibility for use with existing conventional drill strings. OCTL DS is suitable for deep well drilling, extended reach well or horizontal well drilling.

Various applications including smaller OD and larger ID are available as well. Other tool joint OD and ID combinations are available on request. OCTL can conduct break in of tool joints and provide hardfacing of tool joints and Internal Plastic Coating on Customer's request.

OCTL produces high performance drill pipe and tool joints to outstanding quality standards and rigorous quality management systems are applied in our operations. All products are manufactured in accordance with Customer's specifications and the most demanding international standards.



OCTL DS 26			
ID	Data	OD	
		3-5/8"	3-3/8"
1-1/2"	Torque (ft-lb)	11,757	8,976
	Tension (lb)	3,90,260	3,90,260
	Make-up (ft-lb)	7,054	5,386
1-5/8"	Torque (ft-lb)	10,694	9,040
	Tension (lb)	3,53,444	3,53,444
	Make-up (ft-lb)	6,416	5,424
1-3/4"	Torque (ft-lb)	9,522	9,104
	Tension (lb)	3,13,683	3,13,683
	Make-up (ft-lb)	5,713	5,462

OCTL DS 31			
ID	Data	OD	
		4-3/8"	4-1/8"
1-5/8"	Torque (ft-lb)	22,018	18,494
	Tension (lb)	6,23,847	6,23,847
	Make-up (ft-lb)	13,211	11,096
2"	Torque (ft-lb)	17,723	17,513
	Tension (lb)	4,95,729	4,95,729
	Make-up (ft-lb)	10,634	10,508
2-1/8"	Torque (ft-lb)	16,038	15,849
	Tension (lb)	4,47,133	4,47,133
	Make-up (ft-lb)	9,623	9,509





OCTL DS 38				
ID	Data	OD		
		5"	4-7/8"	4-3/4"
2-1/8"	Torque (ft-lb)	35,012	30,294	25,393
	Tension (lb)	8,42,443	8,42,443	8,42,443
	Make-up (ft-lb)	21,007	18,176	15,236
2-7/16"	Torque (ft-lb)	29,707	29,557	25,722
	Tension (lb)	7,08,066	7,08,066	7,08,066
	Make-up (ft-lb)	17,824	17,734	15,433
2-9/16"	Torque (ft-lb)	27,322	27,185	25,854
	Tension (lb)	6,49,162	6,49,162	6,49,162
	Make-up (ft-lb)	16,393	16,311	15,512

OCTL DS 46				
ID	Data	OD		
		6-1/4"	6-1/8"	6"
2-3/4"	Torque (ft-lb)	59,904	59,651	59,398
	Tension (lb)	11,83,908	11,83,908	11,83,908
	Make-up (ft-lb)	35,943	35,791	35,639
3"	Torque (ft-lb)	53,393	53,170	52,946
	Tension (lb)	10,48,431	10,48,431	10,48,431
	Make-up (ft-lb)	32,036	32,902	31,768
3-1/4"	Torque (ft-lb)	46,149	45,958	45,766
	Tension (lb)	9,01,169	9,01,169	9,01,169
	Make-up (ft-lb)	27,690	27,575	27,459

OCTL DS 55				
ID	Data	OD		
		7-1/4"	7-1/8"	7"
3-1/4"	Torque (ft-lb)	1,05,674	95,021	84,620
	Tension (lb)	17,78,279	17,78,279	17,78,279
	Make-up (ft-lb)	63,404	57,013	50,772
3-1/2"	Torque (ft-lb)	98,002	95,701	85,228
	Tension (lb)	16,19,236	16,19,236	16,19,236
	Make-up (ft-lb)	58,801	57,421	51,137
3-3/4"	Torque (ft-lb)	88,145	87,836	85,835
	Tension (lb)	14,48,412	14,48,412	14,48,412
	Make-up (ft-lb)	52,887	52,701	51,501
4"	Torque (ft-lb)	77,407	77,137	76,867
	Tension (lb)	12,65,807	12,65,807	12,65,807
	Make-up (ft-lb)	46,444	46,282	46,120

OCTL DS 40				
ID	Data	OD		
		5-1/2"	5-1/4"	5-1/8"
2-7/16"	Torque (ft-lb)	40,006	39,095	33,441
	Tension (lb)	8,97,165	8,97,165	8,97,165
	Make-up (ft-lb)	24,003	23,457	20,064
2-9/16"	Torque (ft-lb)	37,512	37,155	33,603
	Tension (lb)	8,38,260	8,38,260	8,38,260
	Make-up (ft-lb)	22,507	22,293	20,162
2-11/16"	Torque (ft-lb)	34,857	34,527	33,765
	Tension (lb)	7,76,157	7,76,157	7,76,157
	Make-up (ft-lb)	20,914	20,716	20,259

OCTL DS 50				
ID	Data	OD		
		6-5/8"	6-1/2"	6-3/8"
2-3/4"	Torque (ft-lb)	84,483	76,024	67,429
	Tension (lb)	15,51,706	15,51,706	15,51,706
	Make-up (ft-lb)	50,690	45,614	40,457
3"	Torque (ft-lb)	77,622	76,625	67,964
	Tension (lb)	14,16,507	14,16,507	14,16,507
	Make-up (ft-lb)	46,573	45,975	40,779
3-1/4"	Torque (ft-lb)	69,984	69,713	68,499
	Tension (lb)	12,69,245	12,69,245	12,69,245
	Make-up (ft-lb)	41,990	41,828	41,100
3-1/2"	Torque (ft-lb)	61,553	61,317	61,080
	Tension (lb)	11,10,202	11,10,202	11,10,202
	Make-up (ft-lb)	36,932	36,790	36,648

OCTL DS 65				
ID	Data	OD		
		8"	8-1/4"	8-1/2"
4-1/4"	Torque (ft-lb)	1,20,329	1,48,155	1,49,057
	Tension (lb)	21,02,266	21,02,266	21,02,266
	Make-up (ft-lb)	72,197	88,893	89,434
4-3/4"	Torque (ft-lb)	1,18,625	1,19,343	1,20,060
	Tension (lb)	16,78,151	16,78,151	16,78,151
	Make-up (ft-lb)	71,175	71,606	72,036
5"	Torque (ft-lb)	1,02,759	1,03,377	1,03,995
	Tension (lb)	14,48,422	14,48,422	14,48,422
	Make-up (ft-lb)	61,656	62,026	62,397

Interchangeability of Connections	
Number Connection	OCTL DS Connection
NC 26	OCTL DS 26
NC 31	OCTL DS 31
NC 38	OCTL DS 38
NC 40	OCTL DS 40
NC 46	OCTL DS 46
NC 50	OCTL DS 50
5-1/2" FH	OCTL DS 55
6-5/8" FH	OCTL DS 65



## OCTL HT Connection

OCTL HT (High Torque) Connections in comparison to API Connections are

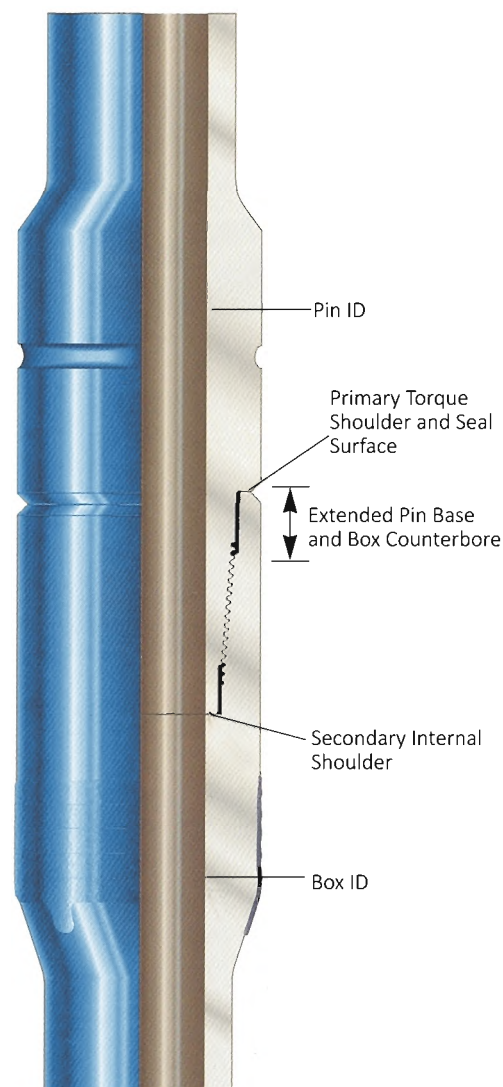
- Double Shoulder designed
- High Performance Rotary Shoulder Connection
- Have Higher Torsional Strength

The range includes all the sizes from 2-3/8" OD to 6-5/8" OD

The Connections provide

- Improved hydraulic efficiency
- More flexibility on OD and ID selection
- Engineered to provide additional elastic deformation during make up
- Decreased drilling fluid pressure loss and increased annular velocities because of its larger pipe

Range also includes 2-3/8" OCTL HTPAC and 2-7/8" OCTL HTPAC



OCTL HT 26			
ID	Data	OD	
		3-5/8"	3-3/8"
1-1/2"	Torque (ft-lb)	11,836	9,028
	Tension (lb)	3,90,260	3,90,260
	Make-up (ft-lb)	7,101	5,417
1-5/8"	Torque (ft-lb)	10,765	9,092
	Tension (lb)	3,53,444	3,53,444
	Make-up (ft-lb)	6,459	5,455
1-3/4"	Torque (ft-lb)	9,585	9,156
	Tension (lb)	3,13,683	3,13,683
	Make-up (ft-lb)	5,751	5,494

OCTL HT 31			
ID	Data	OD	
		4-3/8"	4-1/8"
1-5/8"	Torque (ft-lb)	22,239	18,681
	Tension (lb)	6,23,847	6,23,847
	Make-up (ft-lb)	13,343	11,209
2"	Torque (ft-lb)	17,898	17,688
	Tension (lb)	4,95,729	4,95,729
	Make-up (ft-lb)	10,739	10,613
2-1/8"	Torque (ft-lb)	16,195	16,006
	Tension (lb)	4,47,133	4,47,133
	Make-up (ft-lb)	9,717	9,603





OCTL HT 38				
ID	Data	OD		
		5"	4-7/8"	4-3/4"
2-1/8"	Torque (ft-lb)	35,500	30,718	25,750
	Tension (lb)	8,42,443	8,42,443	8,42,443
	Make-up (ft-lb)	21,300	18,431	15,450
2-7/16"	Torque (ft-lb)	30,115	29,965	26,079
	Tension (lb)	7,08,066	7,08,066	7,08,066
	Make-up (ft-lb)	18,069	17,979	15,647
2-9/16"	Torque (ft-lb)	27,696	27,558	26,210
	Tension (lb)	6,49,162	6,49,162	6,49,162
	Make-up (ft-lb)	16,617	16,535	15,726

OCTL HT 46				
ID	Data	OD		
		6-1/4"	6-1/8"	6"
2-3/4"	Torque (ft-lb)	60,384	60,131	59,878
	Tension (lb)	11,83,908	11,83,908	11,83,908
	Make-up (ft-lb)	36,230	36,078	35,927
3"	Torque (ft-lb)	53,817	53,593	53,370
	Tension (lb)	10,48,431	10,48,431	10,48,431
	Make-up (ft-lb)	32,290	32,156	32,022
3-1/4"	Torque (ft-lb)	46,513	46,321	46,129
	Tension (lb)	9,01,169	9,01,169	9,01,169
	Make-up (ft-lb)	27,908	27,792	27,677

OCTL HT 55				
ID	Data	OD		
		7-1/4"	7-1/8"	7"
3-1/4"	Torque (ft-lb)	1,05,861	95,192	84,775
	Tension (lb)	17,78,279	17,78,279	17,78,279
	Make-up (ft-lb)	63,517	57,115	50,865
3-1/2"	Torque (ft-lb)	98,156	95,872	85,383
	Tension (lb)	16,19,236	16,19,236	16,19,236
	Make-up (ft-lb)	58,894	57,523	51,230
3-3/4"	Torque (ft-lb)	88,283	87,973	85,990
	Tension (lb)	14,48,412	14,48,412	14,48,412
	Make-up (ft-lb)	52,970	52,784	51,594
4"	Torque (ft-lb)	77,527	77,257	76,987
	Tension (lb)	12,65,807	12,65,807	12,65,807
	Make-up (ft-lb)	46,516	46,354	46,192

OCTL HT 40				
ID	Data	OD		
		5-1/2"	5-1/4"	5-1/8"
2-7/16"	Torque (ft-lb)	40,363	39,448	33,744
	Tension (lb)	8,97,165	8,97,165	8,97,165
	Make-up (ft-lb)	24,218	23,669	20,246
2-9/16"	Torque (ft-lb)	37,845	37,488	33,906
	Tension (lb)	8,38,260	8,38,260	8,38,260
	Make-up (ft-lb)	22,707	22,493	20,344
2-11/16"	Torque (ft-lb)	35,155	34,825	34,069
	Tension (lb)	7,76,157	7,76,157	7,76,157
	Make-up (ft-lb)	21,093	20,895	20,442

OCTL HT 50				
ID	Data	OD		
		6-5/8"	6-1/2"	6-3/8"
2-3/4"	Torque (ft-lb)	85,229	76,698	68,029
	Tension (lb)	15,51,706	15,51,706	15,51,706
	Make-up (ft-lb)	51,137	46,019	40,817
3"	Torque (ft-lb)	78,302	77,299	68,564
	Tension (lb)	14,16,507	14,16,507	14,16,507
	Make-up (ft-lb)	46,981	46,379	41,138
3-1/4"	Torque (ft-lb)	70,592	70,321	69,099
	Tension (lb)	12,69,245	12,69,245	12,69,245
	Make-up (ft-lb)	42,355	42,192	41,460
3-1/2"	Torque (ft-lb)	62,084	61,847	61,611
	Tension (lb)	11,10,202	11,10,202	11,10,202
	Make-up (ft-lb)	37,250	37,108	36,966

OCTL HT 65				
ID	Data	OD		
		8"	8-1/4"	8-1/2"
4-1/4"	Torque (ft-lb)	1,20,405	1,48,249	1,49,151
	Tension (lb)	21,02,266	21,02,266	21,02,266
	Make-up (ft-lb)	72,243	88,949	89,490
4-3/4"	Torque (ft-lb)	1,18,700	1,19,417	1,20,135
	Tension (lb)	16,78,151	16,78,151	16,78,151
	Make-up (ft-lb)	71,220	71,650	72,081
5"	Torque (ft-lb)	1,02,824	1,03,441	1,04,059
	Tension (lb)	14,48,422	14,48,422	14,48,422
	Make-up (ft-lb)	61,694	62,065	62,436



Oil Country Tubular Limited (OCTL), is a processor of a wide range of Oil Country Tubular Goods and Drilling Products required for the Oil Drilling and Exploration Industry. OCTL is an ISO 9001:2015 Company and is licensed by American Petroleum Institute (API) under API Specifications 5CT, 5DP and 7-1. The products are manufactured to the relevant API Specifications and carry API monogram.

OCTL is located near Hyderabad city, India, and is an unique integrated facility. OCTL has earned worldwide recognition for the Quality of its products and services. Innovation and Technical Excellence are the driving spirit behind OCTL and the overriding focus at OCTL is on the quality of its products and services.

OCTL facilities include Upsetting, Heat Treatment of Tubulars, Non-Destructive Testing, Metallurgical Laboratory, Gauging and Calibration Laboratory, Tool Joint and Coupling Heat Treatment and Threading, Hard Facing of Tool Joints, Casing and Tubing (OCTG) Threading, Hydrostatic Testing of OCTG, Friction Welding of Drill Pipe, Heavy Weight Drill Pipe, and Internal Plastic Coating of Drill Pipe, Heavy Weight Drill Pipe and Drill Collars. Research and Development activities are continuous phenomena at OCTL aimed at upgradation of technology and manufacturing processes.

OCTL's wide product range covers Drill Pipe, Heavy Weight Drill Pipe, Drill Collars, Kellys, Production Tubing, Casing, Tool Joints, Couplings, Pup Joints, Rotary Subs, Cross Overs and other allied products. The product range includes API and Premium Connections.



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