



# Heavy Weight Drill Pipe



The industry standard when faced with the need for an intermediate-weight drill stem component is the Heavy Weight Drill Pipe. To make this drill pipe useful in several various applications, the Heavy Weight Drill Pipe is available in standard and spiraled. To improve tube life, reduce hole drag and differential sticking challenges, standard heavy weight utilizes a center upset or wear pad. RDT manufactures welded or integral heavy weight with the option of Range II or III.

## Features and Benefits

There are several specific features and benefits to utilizing RDT Heavy Weight Drill Pipe for your drilling applications. RDT's tool joints provide ample space to re-cut the connections, which extends the service life of the pipe by reducing the wear rate on the OD. For added assistance in decreasing the OD wear on the pipe, our center upset or wear

pad offers additional protection by keeping the tube away from the hole. At the same time, it reduces the risk of differential sticking.

To help extend the service life of the connection, the API Bore Back Box and Stress-relief Groove Pin feature is the standard we use on our 3-1/2 and larger Heavy Weight Drill Pipe.

To increase the connection's ability to resist fatigue cracking we apply cold rolling to the thread roots of all our Heavy Weight Drill Pipe connections.

As we all know – time is money; for fast and efficient handling on the rig floor, RDT's Heavy Weight Drill Pipe can be picked up utilizing existing drill pipe elevators.

## Conventional Heavy Weight Drill Pipe\*

Nominal Size	Tube					Tool Joint						Weight (lb)		Minimum Make-up Torque (ft-lb)	
	ID	Wall Thickness	Area (in. <sup>2</sup> )	Center Upsets	End Upsets	Tensile Yield (lb)	Torsional Yield (ft-lb)	Connection Size and Type	OD	ID	Tensile Yield (lb)	Torsional Yield (ft-lb)	Per foot		Per Joint (31 ft)
2 7/8	1 1/2	0.688	4.727	3 5/16	2 15/16	520,000	22,400	NC26 (2 3/8 IF)	3 3/8	1 1/2	357,700	6,300	17.26	535	3,800
3 1/2	2 1/16	0.719	6.282	4	3 7/8	345,500	19,600	NC38 (3 1/2 IF)	4 7/8	2 1/8	842,400	22,900	26.81	831	11,500
3 1/2	2 1/4	0.625	5.645	4	3 7/8	310,500	18,500	NC38 (3 1/2 IF) DS38 DT38	4 7/8 4 7/8 4 7/8	2 1/4	790,900	22,900 30,600 34,200	24.64	764	11,500 12,900 12,900
4	2 9/16	0.719	7.411	4 1/2	4 3/16	407,600	27,600	NC40 (4 FH)	5 1/4	2 9/16	838,300	27,800	30.71	952	13,900
4 1/2	2 3/4	0.875	9.965	5	4 11/16	548,100	40,700	NC46 (4 IF) DS46	6 1/4 6 1/4	2 13/16 2 13/16	1,151,100 1,151,100	43,600 60,300	42.66	1,322	21,800 26,100
5	3	1.000	12.566	5 1/2	5 1/8	691,200	56,500	NC50 (4 1/2 IF) DS50 DT50	6 5/8	3	1,416,200	57,800 82,900 88,800	51.64	1,601	28,900 34,600 34,900
5 1/2	3 1/4	1.125	15.463	6	5 11/16	850,400	75,900	5 1/2 FH DS55 DT55	7 1/4	3 1/4	1,778,300	78,700 111,100 115,100	63.14	1,957	39,400 45,500 45,400
6 5/8	4 1/2	1.063	18.574	7 1/8	6 15/16	1,021,600	118,900	6 5/8 FH	8	4 1/2	1,896,100	87,900	72.91	2,260	43,900

\* Also applicable to our proprietary TUFF TUBE Heavy Weight Drill Pipe



## Optional Features

To extend the service life of our drill pipe you can also order hardbanding placed on the tool joints and the center wear pad. This will also increase the abrasion resistance. On the pin connection for sizes 3-1/2 inch and larger, you can also request the API Stress-relief Groove feature.



## Applications

### Directional Drilling:

- An effective weight-on-bit member in extended reach, horizontal and conventional well designs
- Improves directional control by reducing torque and drag
- The center upset or wear pad helps reduce the risk of differential sticking

### Vertical Drilling:

- Use as an active weight-on-bit member in place of a portion of the drill collar string to reduce torque and shorten trip time
- Heavy Weight Drill Pipe can be used to provide a portion of the anticipated drilling weight when using soft formation PDC rock bit milling, underreaming or hole opening operations.

## Standard Hardband

At RDT, we offer a variety of abrasion resistant materials for application on our Heavy Weight Drill Pipe including:

**Duraband NC**

**Armacor M**

**Smooth X**

Please contact your RDT representatives for additional options on available abrasion resistant materials.

Application of our hardbanding materials is as follows:

- Pin Application: 5 inches of hardmetal applied flush or raised with the OD
- Box Application: 4 inches of hardmetal applied flush or raised with the OD and 1 inch on the taper
- Center upset application: two 3-inch bands of hardmetal applied raised with the OD