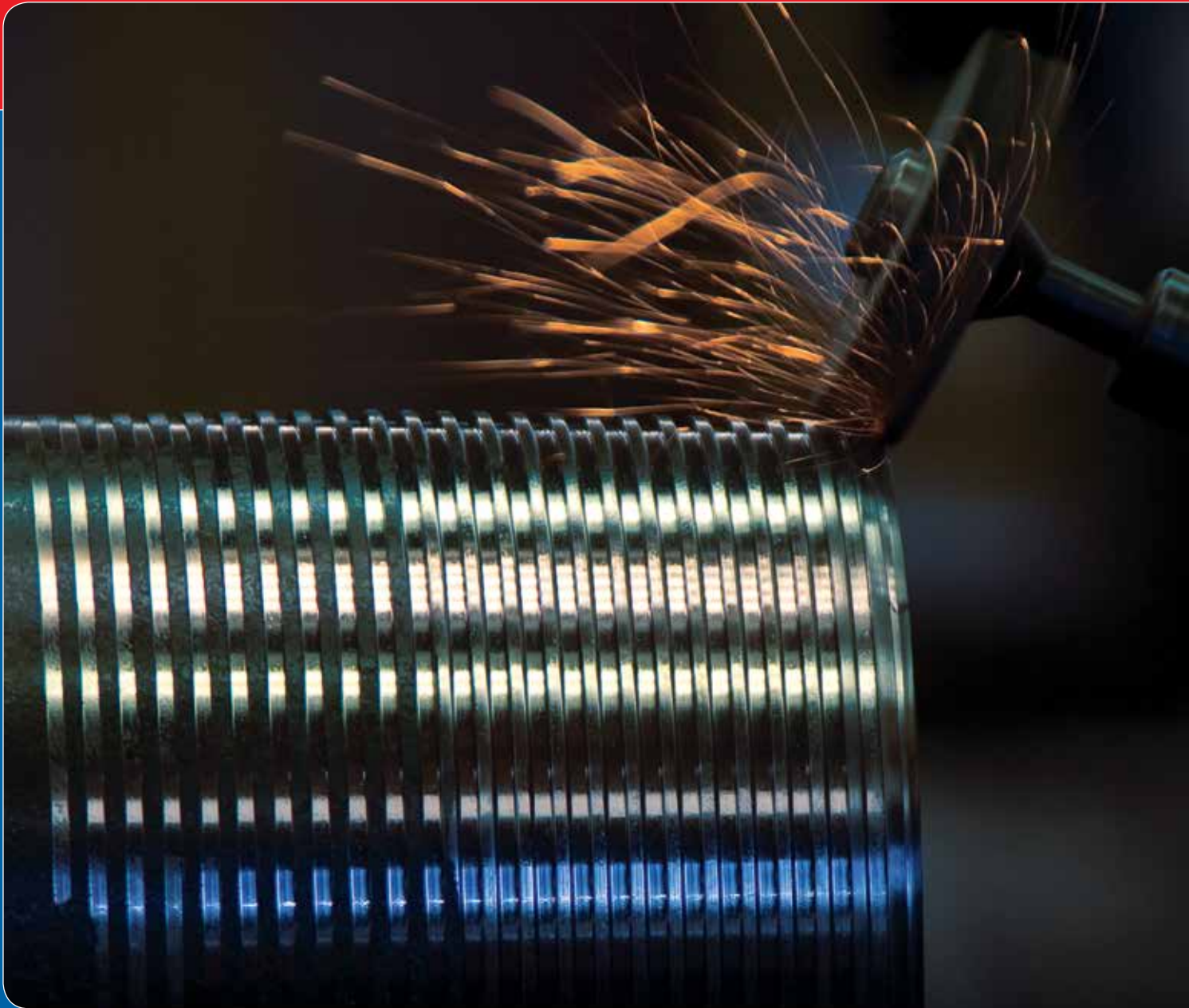


USS-CDC HTQ™



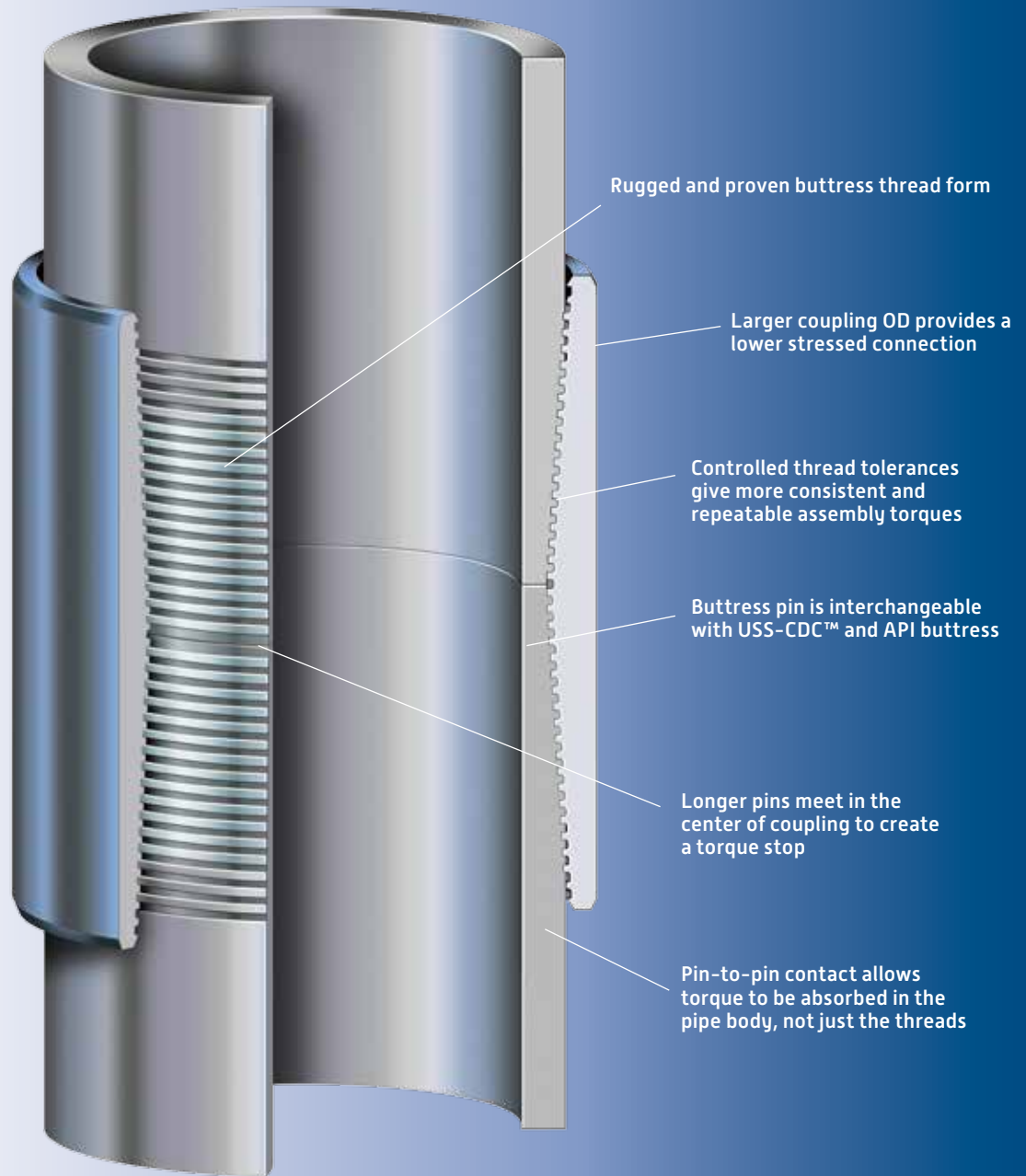
THE CONNECTION FOR HIGH TORQUE APPLICATIONS



U. S. Steel Tubular Products

USS-CDC HTQ™

THE CONNECTION FOR HIGH TORQUE APPLICATIONS





Deeper wells are pushing connections to their limits through the demanding combination of assembly and applied loads. Beyond API Buttress connections and a step beyond USS-CDC™, a new high torque connection is available from U. S. Steel Tubular Products.

USS-CDC HTQ™ features a larger coupling OD, longer pins and carefully controlled thread tolerances. The USS-CDC HTQ™ connection is a superior choice for horizontal drilling, hydraulic fracturing and other applications requiring the need for higher torques and resistance to bending stresses.

ENGINEERED ADVANTAGES

The larger coupling OD of the USS-CDC HTQ™ creates a lower stressed connection compared to similar size API buttress couplings. The larger section area can carry higher compression and tension, plus reaction forces from applied torque.

The larger coupling OD provides resistance to over-stress during bending and rotating – whether at make-up or down hole. Higher tension capability in the heavier weights allows for higher bending build rates in deeper wells. Also, greater pressure resistance allows higher fracturing pressures without suffering “beyond yield” stress in the coupling.

The longer pins of USS-CDC HTQ™, together with the larger coupling OD, produce a more stable connection with a more uniform stress profile under bending, rotating and hydraulic fracturing.

The controlled thread tolerances give more consistent and repeatable assembly torques. They also support lower connection stresses by lowering the assembly stresses, thus limiting the maximum stress due to assembly and applied loads.

Overall, USS-CDC HTQ™ is the answer for tough challenges requiring a connection of greater strength and resilience.

USS-CDC HTQ™ connections are available in 4-1/2 to 7 inch sizes.



U. S. Steel Tubular Products

CONNECTION YIELD TORQUE

Pipe OD [inches]	Nominal Weight [lb/ft]	Coupling OD [inches]	Connection Yield Torque (ft-lb)		
			SMYS = 80,000 psi	SMYS = 100,000 psi	SMYS = 110,000 psi
4 1/2	11.6	5.250	7,900	9,100	9,600
4 1/2	13.5	5.250	10,100	11,700	12,400
4 1/2	15.1	5.250	12,500	14,500	15,500
4 1/2	16.6	5.250	15,600	18,400	19,800
5	13	5.775	8,700	10,000	10,600
5	15	5.775	11,600	13,500	14,400
5	18	5.775	15,800	18,400	19,700
5	21.4	5.775	20,100	23,500	25,300
5	23.2	5.775	22,300	26,100	28,100
5 1/2	15.5	6.300	11,600	13,500	14,500
5 1/2	17	6.300	13,900	16,200	17,400
5 1/2	20	6.300	18,100	21,300	22,900
5 1/2	23	6.300	21,900	25,900	27,800
5 1/2	26	6.300	25,900	30,600	33,000
6 5/8	24	7.475	22,600	27,000	29,100
6 5/8	28	7.475	29,200	34,900	37,700
6 5/8	32	7.475	34,700	41,600	45,000
7	20	7.875	14,600	17,200	18,500
7	23	7.875	20,200	24,000	25,800
7	26	7.875	25,600	30,500	32,900
7	29	7.875	30,900	36,900	39,900
7	32	7.875	35,800	42,900	46,400
7	35	7.875	44,800	53,800	58,400
7	38	7.875	44,800	53,800	58,400
7	41	7.875	49,700	59,800	64,900

Notes:

1. For sizes and grades not listed, please contact U. S. Steel Tubular Products.
2. High collapse grades have the same yield torque values as the corresponding minimum yield strength.
3. Make-up torques will vary but shall not exceed 90% of connection yield torque.
4. Reference USS-CDC HTQ™ Recommended Practices for running procedures.
5. SMYS = Specified Minimum Yield Strength.



RIG SITE SERVICES

Rig Site Services offers technical support and on-site rig services around the clock. Whether service is scheduled or on an emergency basis, U. S. Steel Tubular Products responds 24/7/365. The team is fully equipped to provide service and support at the rig site or at nearby storage facilities.

Rig Site Services personnel possess the expertise, experience and equipment to help ensure the integrity of the product that is run downhole. Their knowledge of the full technical specifications and performance data for each product, as well as direct access to engineering and technical staff, provides peace of mind for customers worldwide. This high value-added service can protect your investment. Additionally, U. S. Steel Tubular Products has a growing network of licensed repair facilities for more complex needs.



SERVICES INCLUDE:

- Assurance that correct running procedures are followed
- Visual inspection of connections
- Tools and training to perform field repairs
- Knowledge of full technical specifications and performance data
- Ongoing training and direct access to engineering and technical staff
- Direct contact with licensed repair facilities



U. S. Steel Tubular Products

CONNECTING AMERICA TO ENERGY INDEPENDENCE™



Corporate Headquarters:
600 Grant Street, Rm 2001
Pittsburgh, PA 15219
Toll Free: +1-800-527-4615
Fax: +1-412-433-3993
www.ussteel.com

North American Commercial Operations
and Innovation & Technology Center:
10343 Sam Houston Park Drive, Ste 120
Houston, TX 77064
Tel: +281-671-3790
Fax: +281-671-3879
www.usstubular.com



U. S. Steel Tubular Products