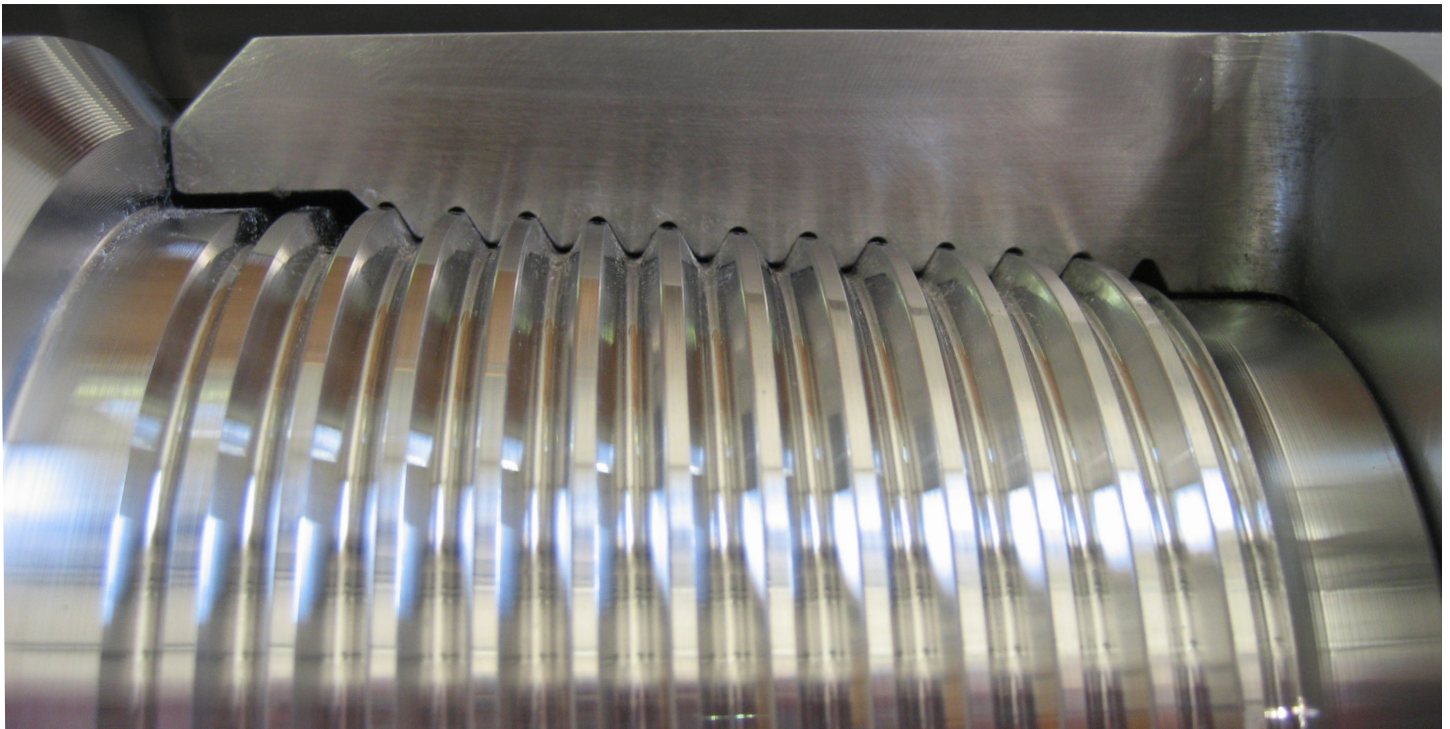


CET™

COMMAND ENHANCED TORQUE CONNECTION



Command
Energy



The CET™ connection has the best in class performance and optimized operational characteristics required of high torque connections to drill the well designs of today.

- 5 ¼ turns to make-up is the fastest of any high torque connection
- 170%-200% of the torsional strength of API connections
- Available on all sizes of drill pipe, heavy-weight drill pipe and collars for use on work strings, slimhole drillstrings and frac strings.

High Torque Performance

The CET™ connection design provides increased torque with the addition of an optimized secondary torque shoulder. The resulting balanced connection has reduced internal stress at greater torque loads than either API or competing high torque connections.

As an example, a 5 1/4" OD and 2 9/16" ID NC40 (4 FH) connection has a make-up torque of 16,600 ft-lbs and a CET™39 connection with 4 7/8" OD and 2 11/16" ID dimensions would have a make-up torque of 22,200 ft-lbs.

Improved Hydraulics and Pressure Drop

The CET™ connection has a smooth ID through the connection and can be made with smaller OD's and larger ID's than standard connections while maintaining higher torque capacities. The larger and smoother ID improves the hydraulic efficiency of the tool joints, reducing pressure drop across the drillstring. When drilling smaller OD holes, the smaller OD tool joints reduce ECD effects while maintaining fishability with a standard overshot.

Service Costs

The CET™ connection costs less to maintain than the competitors due to the simple licensing structure that includes no royalties, special inserts, or gauge rentals. CET™ reduces the amount of repairs required to less than 1% per well drilled when using a stabbing guide and robust care and handling practices. Command Energy representatives are available for on-location care and handling training.

Command Shale Drill Pipe

Command Energy has increased the life of customer drillpipe in the Bakken by 30% when using Command's 4" CET39 shale drill pipe design. Additionally, CET™ has cut rig NPT during tripping operations by 50% over competitive high torque connections due to its quick 5 1/4 turns to make up. Several Command shale drill pipe designs have been engineered for the distinct requirements of individual plays. Detailed designs specifics are available upon request.



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Performance and Specifications

Connection Type	OD	ID	Recommended Make-up Torque	Tensile Yield Strength	Torsional Yield Strength
	(in)	(in)	(ft-lbs)	(lbs)	(ft-lbs)
CET26	3 1/2	1 3/4	7,400	335,300	11,400
CET31	4	2 3/8	8,500	380,100	13,000
CET38	4 3/4	2 9/16	20,500	712,300	31,600
CET39	4 7/8	2 11/16	22,200	744,700	34,100
CET40	5 1/4	2 11/16	29,100	987,300	44,700
CET43	5 3/8	3	24,400	805,800	37,500
CET46	6 1/4	3 1/4	46,000	1,225,200	70,700
CET50	6 5/8	3 3/4	48,400	1,230,300	74,400
CET54	6 5/8	4	49,600	1,280,000	77,100
CET55	7	4	61,100	1,466,200	94,000
CET57	7	4 1/4	59,900	1,426,700	92,100
CET65	8	5	86,800	1,774,500	133,600
CET69	8 1/2	5 1/4	107,300	2,032,800	165,100