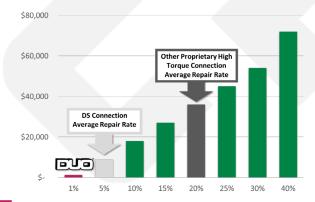


Industry's first multi-taper rotary shouldered connection

Drive the bit to TD with the lowest cost

st DUO® string deployed in summer, 2018

More than 72,000 connections in operation 60+ strings of DUO®



Average shop repair rate

Repair Cost Over per String Life



SAVING OVER \$168K+ PER STRING*

DUO® repair cost: 0.4 ¢ /m drilled *Based on CAOEC 1,500 drilling days









































































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Inspection Summary

Size	Inspected Ends	White & Reface	Red (Fatigue)	Double Green (Shop Thread Repair)
400 DUO®	11,284	11,275	0	9
430 DUO®	7,026	6,919	0	107
450 DUO®	16,110	15,975	0	135
480 DUO®	4,630	4,605	0	25
Total	39,050*	38,774	0	276
Shop repair rate:			0.71%	

*The inspection summary covers DUO® strings deployed from summer 2018 through fall 2021.

A total of 39,050 connections (boxes and pins) were inspected, with only **0.71% (276 ends)** requiring machine shop repair due to thread damage.

As of 2025, more than 60x DUO® strings are in operation across Canada and the United States - continuing to deliver consistent, reliable performance to this day without a single fatigue crack reported.





430 DUO® field inspection

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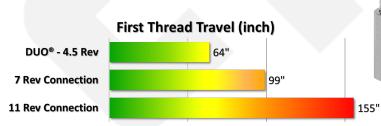


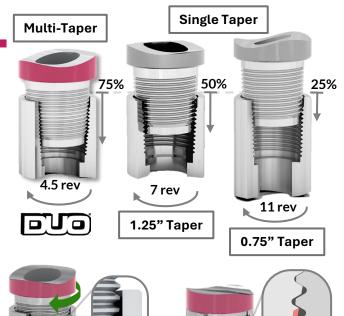
Industry's *first multi-taper* rotary shouldered connection

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The DUO® multi-taper design enables deeper stab-in, requires **4.5 turns to** spin in and out, significantly **reducing rig time.**

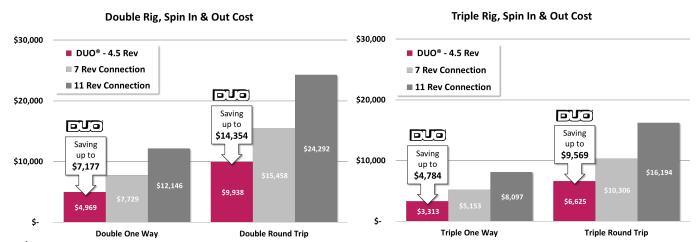
The shortened thread travel distance per make-up/break-out cycle minimizes the risk of thread damage, while the unique self-centered landing pad further enhances operational tolerance.





The landing pad ensures damaged crests do not make contact, preventing additional damage during rotation.

Field-proven, **DUO**® retains **superior frictional preload** with **exceptional fatigue resistance**, consistently delivering **reduced non-productive time (NPT)** and **minimal repair rates** (<1% cumulative).



*based on \$100k leasing cost/per day, 20,000ft string, range 2 drill pipe, makeup/breakout speed at 25RPM

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Drive the bit to TD with the lowest cost Performance

- · High torque performance
- · Wide range of sizes
- Time-proven thread form, design and field-verified for anti-galling and fatigue-resistance

Cost of ownership

- Field verified minimal repair rate (<1% cumulative)
- Field dress/reface available for minor damage
- Existing obsolete inventory conversion to DUO®

Ease of use

- Deep stabbing, 4.5x revolution to makeup/breakout
- · Landing pad design, operating forgiveness
- Retains frictional preload, endure downhole condition with consistent breakout value

Service/network

- Convenient licensee network
- Non-proprietary thread form, globally stocked insert
- Tubular/accessories management
- · Technical/sales/marketing support

Connection	OD	ID	Rec. MUT* (ft-lbs)	Max MUT* (ft-lbs)
390 DUO®	4.875" 124 mm	2.688" 68 mm	22,000	23,800
	5.250"	2.688"		
400 DUO®	133 mm	68 mm	30,300	32,800
400 01100	5.250"	3.000"	27,000	
430 DUO®	133 mm	76 mm		29,300
	5.250"	3.125"	25,100	27 200
433 DUO®	133 mm	79 mm		27,200
433 DUU"	5.250"	3.250"	21,800	23,600
	133 mm	83 mm		23,000
	5.375"	3.000"	30,500 27,500 33,800 37,800	33,000
	137 mm	76 mm		33,000
	5.375"	3.250"		29,700
450 DUO®	137 mm	83 mm		20,700
.0020	5.500"	3.000"		36,600
	140 mm	76 mm		33,333
	5.625"	2.875"		41,000
	143 mm 5.625"	73 mm 3.750"		•
	143 mm	95 mm	26,400	28,600
480 DUO®	5.750"	3.500"	34,000	
	146 mm	89 mm		36,800
FOO DUOR	6.500"	3.750"	50,500	E 4 700
530 DUO®	165 mm	95 mm		54,700
	6.625"	3.750"	55,200	EQ 900
550 DUO®	168 mm	95 mm		59,800
330 DOO	6.625"	4.000"	- 50 200	54,400
	168 mm	102mm		54,400
580 DUO®	7.000"	4.250"	62,000	67,200
000 000	178 mm	108 mm		<i>37</i> ,200

O.75" Taper
Strategically placed in the load-bearing cross-section of the connection, maximizing mechanical performance.

Transition Threads
Serve as landing pad, selfcenter the thread and minimizes stabbing damage.

2.00" Taper
Positioned at the nose end of the connection, it delivers incredible stabbing and spin-up performance with superior torque capability.

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^{*}Data shown are based on 135ksi yield strength tool joint material. Contact us for configurations not listed.