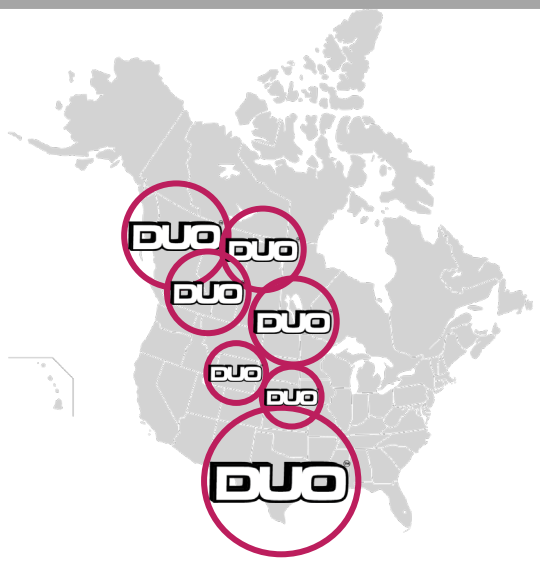
COMPLETE
TUBULAR PRODUCTS

Dec-25

DUO®

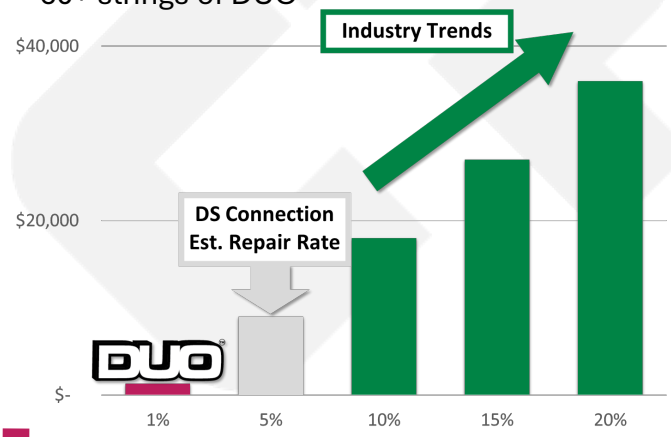
Industry's ***first multi-taper*** rotary shouldered connection



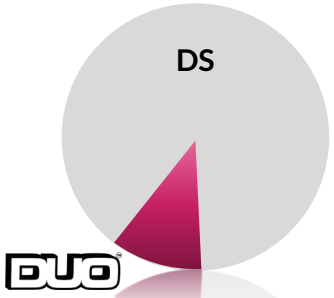
Drive the bit to TD with the lowest cost

2018
First DUO® string deployed in summer, 2018

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



Repair Cost Over per String Life



0.71%
Average shop repair rate with high-torque performance

$168K+
SAVING OVER $168K+ PER STRING*
DUO® repair cost: 0.4 ¢ /m drilled
*Based on CAOEC 1,500 drilling days

DUO® has successfully drilled for:

eog resources · Shell · Canadian Natural · ARCHER EXPLORATION CORP. · BlueSky RESOURCES · TOURMALINE · kiwetinohk energy · Chevron · ConocoPhillips · MURPHY · PetroChina · Shale Petroleum · CERTUS OIL & GAS INC · ASPENLEAF ENERGY LIMITED · PACIFIC CANBRIAM ENERGY · VERMILION ENERGY · BAYTEX · ARC RESOURCES LTD. · ATHABASCA OIL CORPORATION · NUVISTA ENERGY LTD · LOGAN ENERGY CORP. · veren · CYGNET ENERGY · Jo max · STAMPEDE DRILLING · TWILIGHT DRILLING LTD. · TD · AKITA DRILLING · NABORS · ENSIGN ENERGY SERVICES INC. · LORX OILFIELD RENTALS · Star Valley

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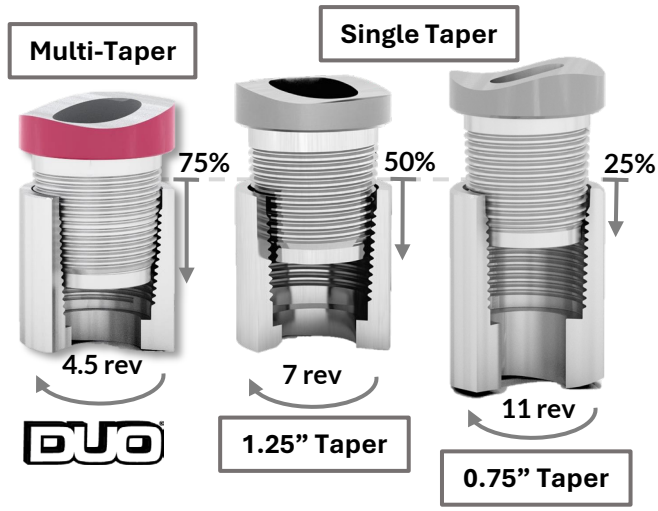
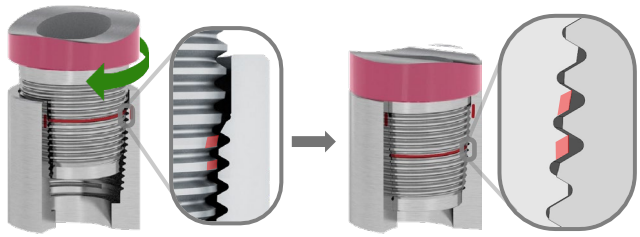
The DUO® multi-taper design enables deeper stab-in, requires **4.5 turns to** spin in and out, significantly **reducing rig time.**

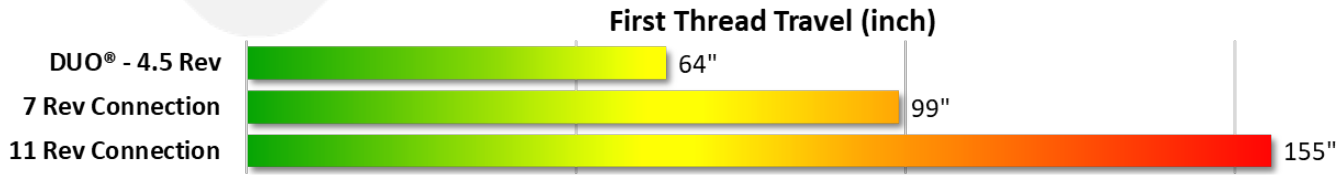
The shortened thread travel distance per make-up/break-out cycle **minimizes the risk of thread damage**, while the unique self-centered landing pad further **enhances operational tolerance**.

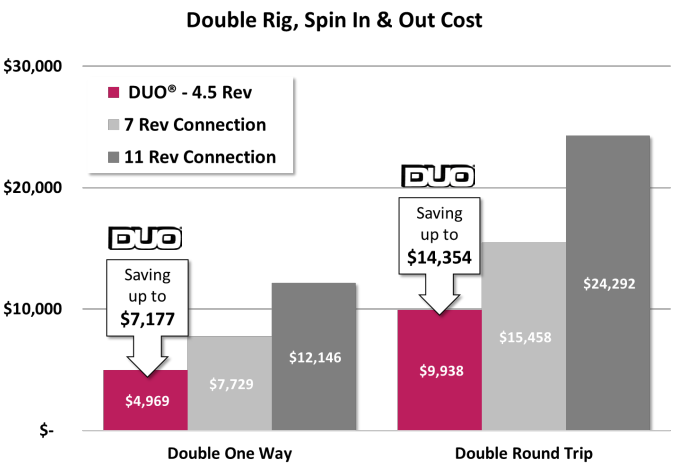
Field-proven, **DUO®** retains **superior frictional preload** with **exceptional fatigue resistance,** consistently delivering **reduced non-productive time (NPT)** and **minimal repair rates** (<1% cumulative).

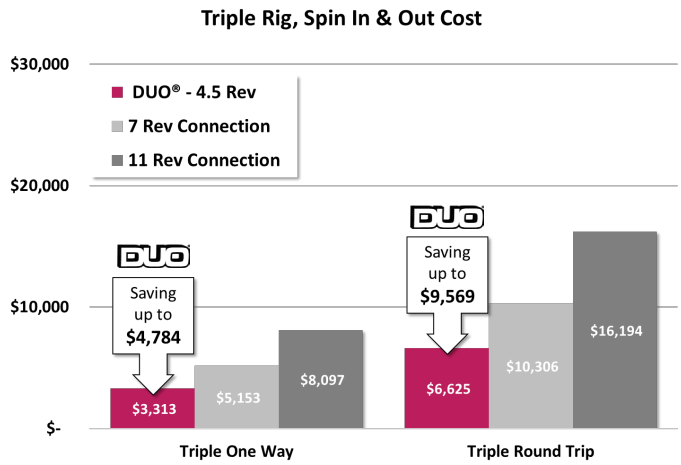




The landing pad ensures damaged crests do not make contact, preventing additional damage during rotation.







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

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Performance

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

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

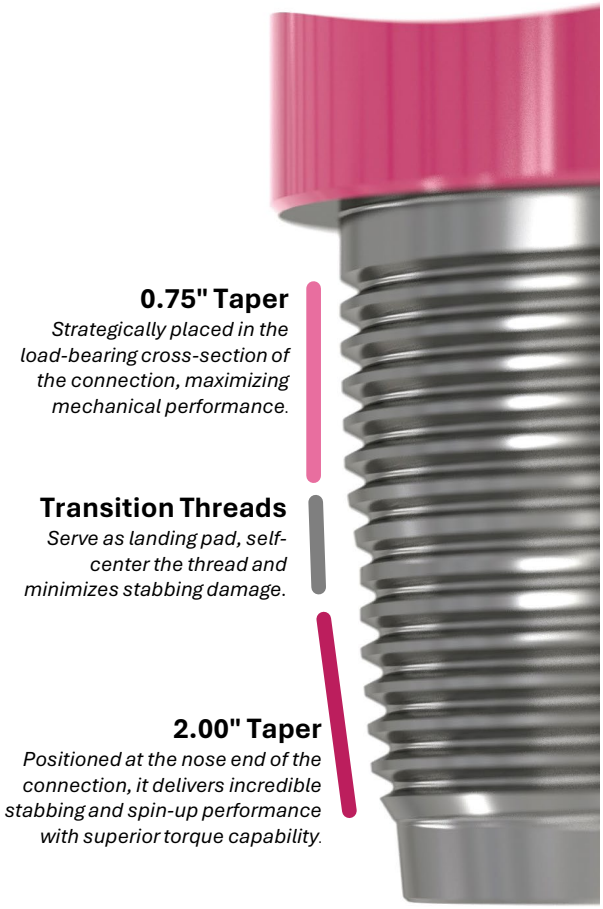
Cost of ownership

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

Service/network

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

Connection	OD	ID	Rec. MUT* 60% TYS (ft-lbs)	Max MUT* 65% TYS (ft-lbs)
390 DUO®	4.875"	2.688"	22,000	23,800
	124 mm	*68 mm*		
400 DUO®	5.250"	2.688"	30,300	32,800
	133 mm	*68 mm*		
430 DUO®	5.250"	3.000"	27,000	29,300
	133 mm	*76 mm*		
433 DUO®	5.250"	3.125"	25,100	27,200
	133 mm	*79 mm*		
	5.250"	3.250"	21,800	23,600
	133 mm	*83 mm*		
450 DUO®	5.375"	3.000"	30,500	33,000
	137 mm	*76 mm*		
	5.375"	3.250"	27,500	29,700
	137 mm	*83 mm*		
	5.500"	3.000"	33,800	36,600
	140 mm	*76 mm*		
	5.625"	2.875"	37,800	41,000
	143 mm	*73 mm*		
480 DUO®	5.625"	3.750"	26,400	28,600
	143 mm	*95 mm*		
	5.750"	3.500"	34,000	36,800
	146 mm	*89 mm*		
530 DUO®	6.500"	3.750"	50,500	54,700
	165 mm	*95 mm*		
550 DUO®	6.625"	3.750"	55,200	59,800
	168 mm	*95 mm*		
	6.625"	4.000"	50,200	54,400
	168 mm	*102mm*		
580 DUO®	7.000"	4.250"	62,000	67,200
	178 mm	*108 mm*		



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

Transition Threads
Serve as landing pad, self-center 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.

*Data shown are based on 135ksi yield strength tool joint material at 1.0 friction factor. Contact us for configurations not listed.

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