



PERFORMANCE
DRILL PIPE

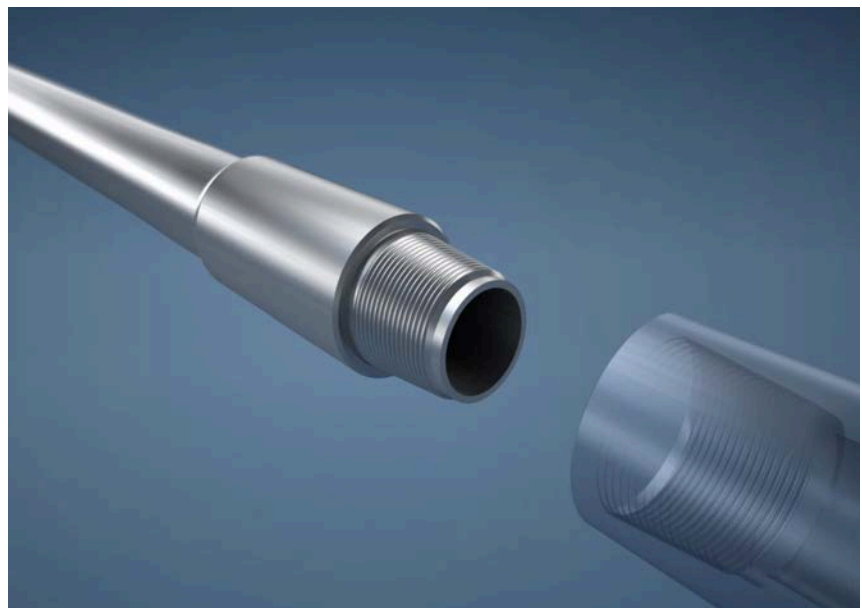
DP-MASTER MANUFACTURING (S) PTE LTD

DPM-MT[®] CONNECTIONS

The **DPM-MT[®] connection** was developed based on a **Fit for Purpose** principle to provide users with a connection that has a substantial increase in torsional strength compared to API or 1st Generation Double Shoulder connections with the ability to run quickly and efficiently in very severe drilling operations.

A well engineered design which evolved from the original DPM-DS connection enhanced the mechanical capabilities while still retaining the principle of cost efficiencies in the DPM-MT[®] connection.

Thanks to the increased torsional strength, the DPM-MT[®] connection delivers superior performance in Extended Reach Drilling (ERD), High Pressure High Temperature (HPHT) and Ultra Deep Drilling while maintaining similar running speeds as API connections.

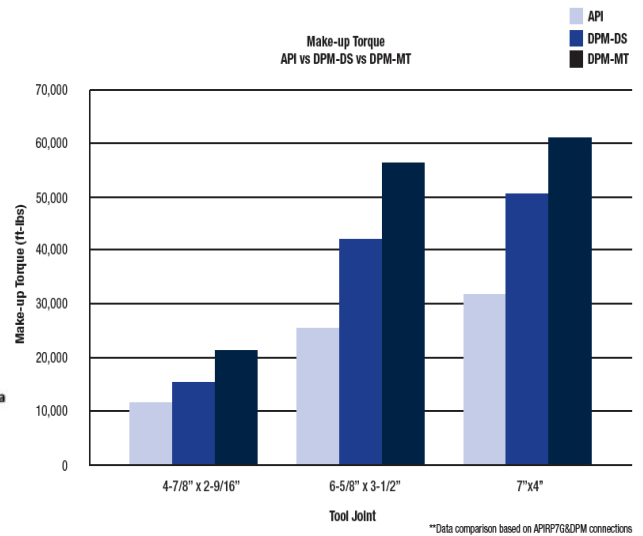
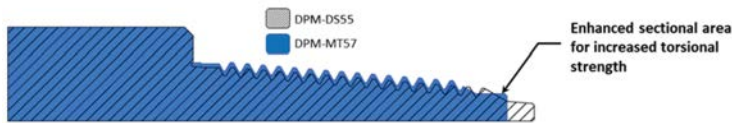


The DPM-MT[®] connection is designed for the most challenging drilling operation while maintaining the ease of use and repair economics.



Increased Torsional Strength

- Double shoulder design provides additional torsional strength to sustain higher make up torque
- Added steel at critical areas for increased torsional strength

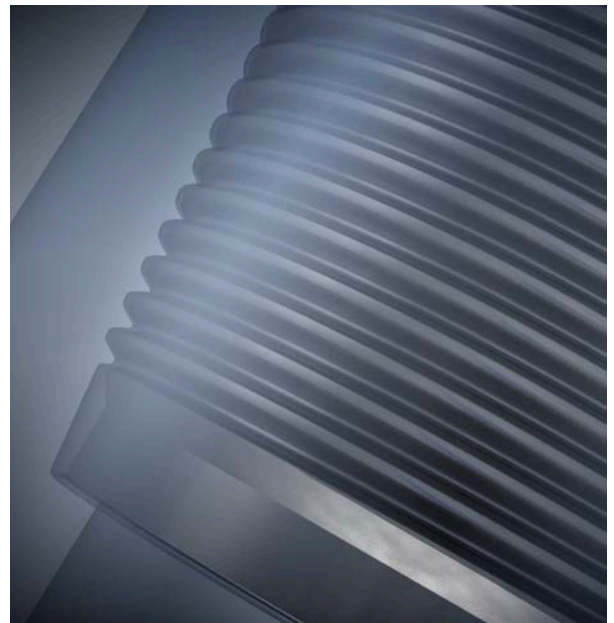


Efficiency

- API taper and thread form
- Operator friendly with fast make up speed - 5 revolutions from stab in to full make up
- Similar running speed as API connections
- No alignment tools for stabbing / spinning
- Robust yet simple design

Savings

- Minimum tool joint recut loss
- Readily available API cutting inserts therefore minimising maintenance costs and shorter turn around time
- Less stabbing damages
- Cost effective over entire life cycle



3rd Party Testing

- Stringent engineering, quality review and tests by independent industry recognised agencies to ensure highest performance

FEARNLEY PROCTER NS - 1™ Level 3 Design Approval



Reference: DPM-MT39 Double Shouldered rotary drilling connection. Uses: Drill pipe





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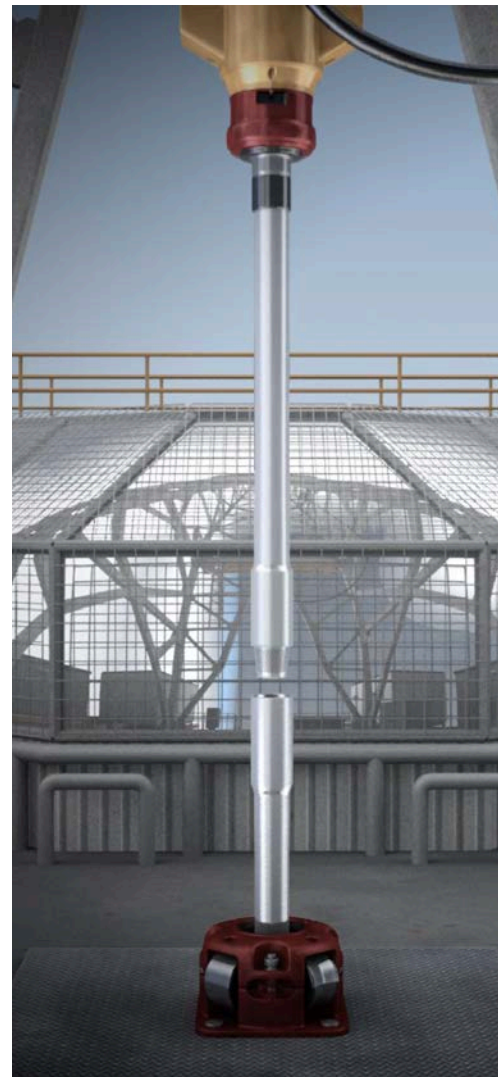
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Positive Feedback and Experience

- Over 15,000 joints sold and used
- Proven product by various operators including Statoil for over 5 years
- Successful application in the North Sea, Australia, South East Asia including difficult extended reach wells over 8,000m

Sizes and Grades

- Full range of sizes for all drill pipe from 2-3/8" to 6-5/8" OD
- Wide range of steel grades including sour service and high strength



CONNECTION	OD		ID		TENSILE CAPACITY		TORSIONAL CAPACITY		MAKE-UP TORQUE MAXIMUM	
	(in)	(mm)	(in)	(mm)	(lbs)	(daN)	(ft-lbs)	(N-m)	(ft-lbs)	(N-m)
DPM-MT24	2 7/8	73	1 1/2	38	221,038	98,300	5,600	7,600	4,000	5,400
DPM-MT26	3 3/8	86	1 1/2	38	412,000	183,300	11,100	15,100	7,800	10,500
DPM-MT31	4	102	2	51	565,900	251,700	18,700	25,400	13,100	17,700
DPM-MT34	4 7/10	119	2 1/2	64	627,700	279,200	26,300	35,700	18,400	24,900
DPM-MT38	4 3/4	121	2 7/16	62	706,400	314,200	31,000	42,000	21,700	29,400
DPM-MT39	5	127	2 9/16	65	795,500	353,800	37,000	50,100	25,900	35,100
DPM-MT40	5 1/4	133	2 3/5	66	928,000	412,800	43,800	59,500	30,700	41,600
DPM-MT50	6 5/8	168	3 1/4	83	1,597,200	710,400	90,100	122,200	63,100	85,500
DPM-MT54	6 5/8	168	4	102	1,222,600	543,900	71,800	97,300	50,300	68,100
DPM-MT57	7	178	4-1/4	108	1,345,300	598,400	84,800	115,000	59,400	80,500



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DP-MASTER MANUFACTURING (S) PTE LTD

SINGAPORE

DP-MASTER MANUFACTURING (S) PTE LTD

105 Cecil Street
#20-03 The Octagon
Singapore 069534
T +65-6260-1522
F +65-6260-3722
www.dpmaster.com.sg

ABU DHABI

DP-MASTER MANUFACTURING (S) PTE LTD

c/o Emirates Link Technology (ELITE)
PO BOX 31234
Abu Dhabi, UAE
T +971-2-6733336
F +971-2-6733776

CHINA

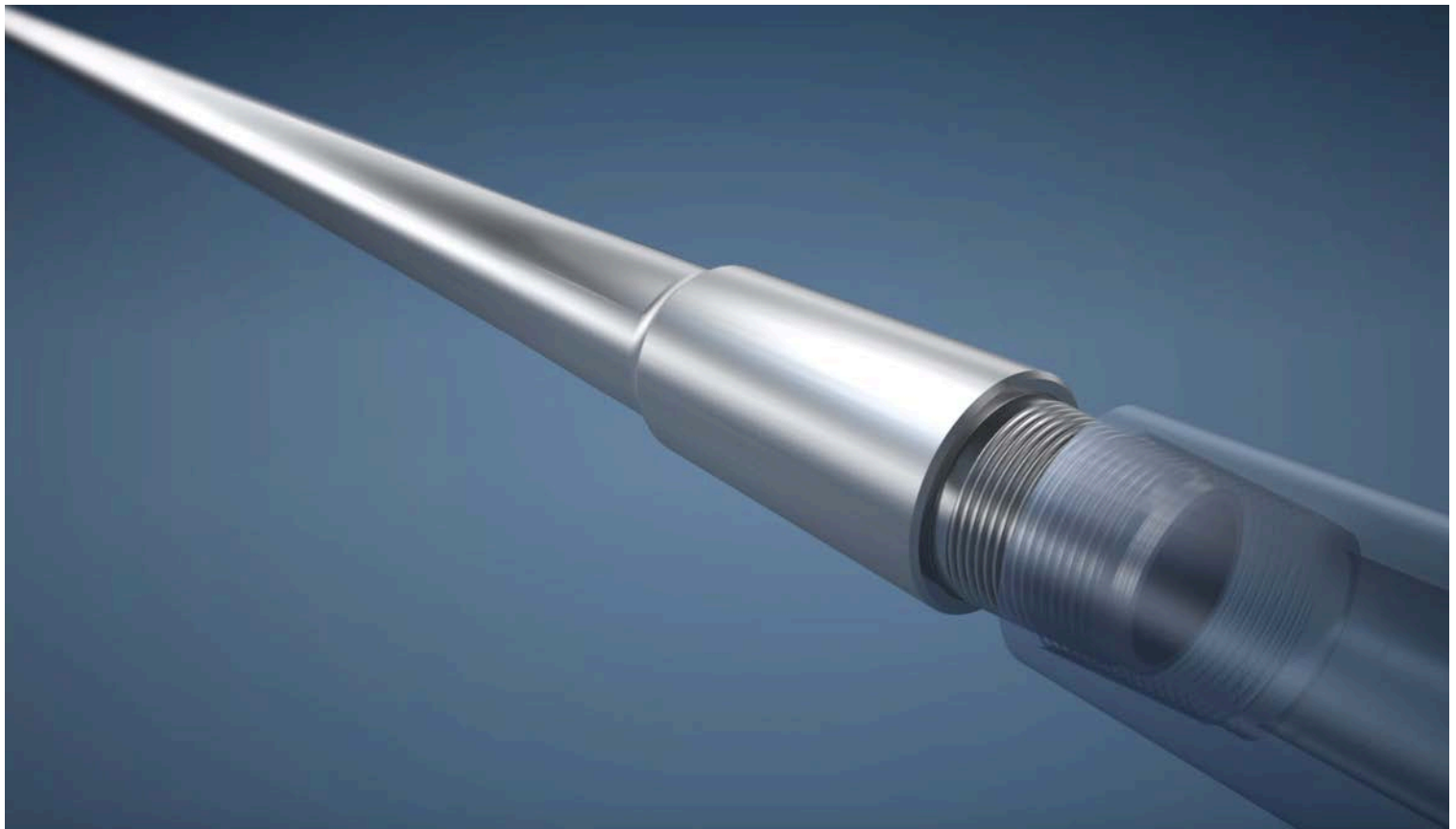
DP-MASTER MANUFACTURING CO., LTD

Shengang Town, Jiangyin City
Jiangsu Province
China 214443
T +86-510-8668-8995
F +86-510-8668-3572

BRAZIL

DP-MASTER MANUFACTURING (S) PTE LTD

Estrada de Buzios Cond. Caravela Nina, casa 166
Armacao dos Buzios RJ
CEP-28950-000
Brazil
T +55-22-2763-9178



CONTACTS

Sales Team: sales@dpmaster.sg

Technical Support Team: techsupport@dpmaster.sg