



AN SBO COMPANY

MX³ TOOL

OMNI STEER

Drill Vertical, Curve, and Lateral Sections in a Single, Efficient Run.

Engineered for precision and control, the D-Tech OmniSteer™ MX³ tool delivers high build rates while reducing well delivery time and minimizing BHA changes across multiple well sections.

Powered by dual independent radial pistons, the OmniSteer MX³ rotary steerable tool (RST) delivers balanced load distribution and a steering footprint up to five times larger than competing systems. This fully rotating, ruggedized design enables high dogleg capabilities without low-stiffness BHAs. Superior torsional stiffness ensures efficient weight and torque transfer to the bit, eliminating the need for specialized drill bits or custom connections.



MX³ TOOL



One Tool. One Run. Complete Control.

The OmniSteer MX³ tool delivers powerful steering with significantly less impact on the wellbore, applying greater steering force while reducing contact stresses. The result is optimized doglegs, higher steering efficiency, improved wellbore quality, and reduced risk of formation damage.

By reaching target zones faster and staying in zone longer, operators can maximize reservoir exposure and recovery. This performance is driven by a robust, load-bearing design in which every external component contributes to efficient weight and force transfer.

The MX³ eliminates the need for highly flexible BHA designs, providing precise, predictable directional control through curves and extended laterals. Its large flowby area reduces torque and drag, improves hole cleaning, and enables smoother, more reliable tripping operations.

With fast, accurate directional response and broad compatibility with real-time telemetry and MWD systems, the RST allows wells to be drilled exactly as planned, without the control limitations or added risk associated with other high-build rotary steerable systems.

Benefits

- Reduce downtime by drilling the vertical, curve, and extended-reach lateral sections in a single run
- Maximize steering performance with up to 3× higher force and lower contact stress
- Minimize the number of bit runs and days on well with efficient, accurate wellbore delivery
- Improve hole cleaning, while reducing torque and drag
- Maximize recovery by entering the target zone sooner and extending reservoir recovery

Features

- 5x larger footprint, enabled by two independent radial pistons for load distribution
- Compatible with third-party real-time telemetry and MWD systems
- At-bit steering performance without limiting drill bit choice and availability
- Fully rotating BHA: no non-rotating or decoupled steering sleeves for full torque transmission
- High torsional stiffness for optimal fatigue resistance, compared to competitors

OmniSteer™ MX³ Tool Specifications



RST Specification	OMX650 ⁹	OMX675 ⁹
Hole size, in. (mm)	7 ⁷ / ₈ (200.03)	8 ¹ / ₂ to 8 ³ / ₄ (215.90 to 222.25)
Tool length, ft (m)	14.73 (4.49) w/ stabilizer	13.09 (3.99) w/ stabilizer
Nominal OD, in. (mm)	6.50 (165.10)	6.75 (171.45)
Max overpull, lbf (N)	1,100,000 (4,893,042)	1,200,000 (5,337,864)
Max torque-at-bit, ft-lbf (N-m)	18,000 (24,405)	20,000 (27,116)
Max weight-on-bit, lbf (N)	Drill bit limited	Drill bit limited
Bit connection, in.	4 ¹ / ₂ Reg	4 ¹ / ₂ Reg
Max DLS passthrough – nonrotating, (rotating), °/100 ft (°/30 m) ¹	20 (14)	20 (14)
Flow range, gal/min (L/min) ²	300 to 670 (1,135 to 2,540)	300 to 670 (1,135 to 2,540)
Max mud density, lbm/gal US (kg/L)	20 (2.39)	20 (2.39)
Chlorides, ppm ³	Material dependent	Material dependent
Max LCM concentration, lbm/bbl (kg/L) ⁴	63 (0.18)	63 (0.18)
pH ⁵	9 to 12	9 to 12
Max sand content, %	1	1
Max pressure, psi (MPa)	20,000 (137.95)	20,000 (137.95)
Max temperature, °F (°C)	302 (150)	302 (150)
Max rotational speed rev/min ⁶	400	400
Max DLS capability, °/100 ft (°/30m) ⁷	12	12
Up-hole/top connection, in. ⁸	4 ¹ / ₂ IF (NC50)	4 ¹ / ₂ IF (NC50)

¹ Contact your D-Tech rep if your DLS exceeds what is provided.

² Dependent on mud density.

³ >50,000 ppm requires RST to be surface-flushed/externally cleaned with freshwater post-run. High-chloride resistant material options available on request, contact D-Tech.

⁴ Subject to type of lost circulation material (LCM); medium-sized LCM. For specific materials, contact D-Tech.

⁵ For silicate fluid systems, contact D-Tech.

⁶ Max rotational speed for toolface control and internal flow.

⁷ Dependent on application, formation, bit design, run parameters, etc.

⁸ Alternative top connections available on request.

⁹ HDT BHA configuration dependent on application requirements.

CONTACT D-TECH TODAY

to utilize their state-of-the-art technology to drill your next monobore well, reliably, accurately, and efficiently.



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