OMNI STEER

ROTARY STEERABLE PLATFORM

PERFORMANCE | PRECISION | CONTROL

The D-Tech OmniSteer™ digitally intelligent, physically robust rotary steerable platform is engineered to give independent service providers and operators access to next-generation RST performance, without restrictive ecosystems or proprietary barriers.

Culminating years of technical evolution and built on the Gen 7 RST, the platform combines advanced digital control with rugged mechanical design to deliver reliable, high-performance directional drilling across diverse applications.

Key Platform Advantages

- Surface & Downhole Intelligence: AI analytics, faster downlinks, advanced firmware, real-time insights, nudges, telemetry, scalable modules
- Integrates with third-party real-time telemetry and MWD systems
- Engineered for reliability and serviceability with simplified maintenance and durable components
- Configurable design for high dogleg, geothermal, and high-temperature environments

The OmniSteer platform delivers the performance, precision, and operational flexibility required to drill complex wells while **maximizing fleet utilization and reducing total cost per foot.**

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OMNI◉STEER Tool Data Sheet

Specifications	OS475	OS500	OS650	OS675	OS800	OS900	OS1100
Hole size, in. (mm)	5 7/8 to 6 1/2 (149.23 to 165.10)	6 3/4 (171.45)	7 7/8 (200.03)	8 1/2 to 8 3/4 (215.90 to 222.25)	9 7/8 to 10 5/8 (250.83 to 269.88)	12 1/4 to 13 1/2 (311.15 to 342.90)	16 to 18 1/4 (406.40 to 463.55)
Tool length, ft (m)	11.50 (3.50) w/o stabilizer	11.50 (3.50) w/o stabilizer	15.64 (4.77) w/ stabilizer	13.00 (3.96) w/ stabilizer	14.91 (4.54) w/o stabilizer	12.87 (3.92) w/o stabilizer	15.55 (4.74) w/o stabilizer
Nominal OD, in. (mm)	4.75 (120.65)	5.00 (127.00)	6.50 (165.10)	6.75 (171.45)	8.00 (203.20)	9.00 (228.60)	9.00 (228.60)
Max overpull, lbf (N)	400,000 (1,779,288)	400,000 (1,779,288)	1,100,000 (4,893,042)	1,200,000 (5,337,864)	1,400,000 (6,227,508)	1,800,000 (8,006,796)	1,800,000 (8,006,796)
Max torque-at-bit, ft-lbf (N·m)	9,000 (12,202)	9,500 (12,880)	18,000 (24,405)	20,000 (27,116)	55,000 (74,570)	65,000 (88,128)	65,000 (88,128)
Max weight-on-bit, lbf (N)	Drill bit limited	Drill bit limited	Drill bit limited	Drill bit limited	Drill bit limited	Drill bit limited	Drill bit limited
Bit connection, in.	3 1/2 Reg	3 1/2 Reg	4 1/2 Reg	4 1/2 Reg	6 5/8 Reg	6 5/8 Reg	7 5/8 Reg
Max DLS passthrough – nonrotating, (rotating), °/100 ft (°/30 m) [1]	25 (15)	25 (15)	16 (10)	16 (10)	10 (7)	10 (7)	10 (7)
Flow range, gal/min (L/min) [2]	170 to 400 (643 to 1,514)	170 to 400 (643 to 1,514)	300 to 670 (1,135 to 2,540)	300 to 670 (1,135 to 2,540)	410 to 1,200 (1,552 to 4,550)	410 to 1,200 (1,552 to 4,550)	410 to 1,200 (1,552 to 4,550)
Max mud density, lbm/gal US (kg/L)	20 (2.39)	20 (2.39)	20 (2.39)	20 (2.39)	20 (2.39)	20 (2.39)	20 (2.39)
Chlorides, ppm [3]	Material dependent	Material dependent	Material dependent	Material dependent	Material dependent	Material dependent	Material dependent
Max LCM concentration, lbm/bbl (kg/L) [4]	63 (0.18)	63 (0.18)	63 (0.18)	63 (0.18)	63 (0.18)	63 (0.18)	63 (0.18)
pH [5]	9 to 12	9 to 12	9 to 12	9 to 12	9 to 12	9 to 12	9 to 12
Max sand content, %	1	1	1	1	1	1	1
Max pressure, psi (MPa)	20,000 (137.95)	20,000 (137.95)	20,000 (137.95)	20,000 (137.95)	20,000 (137.95)	20,000 (137.95)	20,000 (137.95)
Max temperature, °F (°C)	302 (150)	302 (150)	302 (150)	302 (150)	302 (150)	302 (150)	302 (150)
Max rotational speed rev/min [6]	330	330	330	330	330	330	330
Max DLS capability, °/100 ft (°/30 m) [7]	8	8	8	8	6	6	3
Up-hole/top connection, in. [8]	3 1/2 IF (NC38) or XT39	3 1/2 IF (NC38) or XT39	4 1/2 IF (NC50)	4 1/2 IF (NC50)	6 5/8 Reg	6 5/8 Reg	7 5/8 Reg

[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 specfic materials, contact D-Tech.

[5] For silicate fluid systems, contact D-Tech.

[6] Dependent on application, formation, bit design, run parameters, etc.

[7] Alternative top connections available on request.

[8] HDT BHA configuration dependent on application requirements.

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