



Scientific Drilling International's TiTAN22 performance drilling motor is designed for the most extreme drilling environments in the industry.

It has been engineered to run with the highest torque power sections, delivering ultimate reliability and durability in all sections of the well.

The TiTAN22 also features a unique Ti-Flex™ Titanium Flex Shaft and bearing pack assembly to deliver optimal performance in a wide range of applications.

For more information on improving your drilling efficiency [while staying on target] contact your Scientific Drilling sales representative or visit:

<http://scientificdrilling.com/titan22>

APPLICATIONS

- + Performance Drilling
- + Extended Reach Laterals
- + Factory Drilling in Shale Reservoirs
- + One Run Applications
- + Laminated Formations

BENEFITS

- + Enhanced WOB capacity supporting increased and consistent ROP for superior drilling performance
- + Rugged driveline design for ultra-high power torque sections delivering maximized reliability
- + Full rotational capabilities in all sections of the well ensuring optimal wellbore integrity

FEATURES

- + Innovative Ti-Flex™ Titanium Flex Shaft and bearing assembly, for increased durability and extended tool life

GENERAL SPECIFICATIONS

OD	9.15 in. (232.41 mm)
LENGTH	38.5 ft (11.73 m)
RECOMMENDED HOLE SIZES	12.25 – 26 in. (311.15 - 660.40 mm)
MAX BEND ANGLE	1.83°

BEARING SECTION

BIT TO BEND LENGTH	66 in. (1.67 m)
BIT BOX CONNECTION	6 ⁵ / ₈ in., 7 ⁵ / ₈ in API Reg. Box
MAX WOB	120,000 lbs (53,378 DaN)
MAX OVERPULL FOR RETURN	100,000 lbs (48,930 DaN)
OVERPULL TO YIELD MOTOR	250,000 lbs (111,205 DaN)
MAX BIT PRESSURE DROP	1,000 psi (6,894 kPa)
OPT BIT PRESSURE DROP	250 – 900 psi (1,723 - 6,205 kPa)
LCM CAPABILITY	40 lb nut plug

POWER SECTION

LOBE CONFIGURATION	7/8
STAGES	5.9
MAX DIFFERENTIAL PRESSURE	1,330 psi (5,600 kPa)
STALL DIFFERENTIAL PRESSURE	1,990 psi (8,700 kPa)
TORQUE AT MAX DIF PRESSURE	22,020 ft-lbs (30,600 Nm)
STALL TORQUE	33,030 ft-lbs (48,100 Nm)
FLOW RANGE	400 – 900 gal/min (1,520 – 3,410 L/min)
SPEED RANGE	60 – 135 RPM
SPEED RATIO	0.15 rev/gal (0.024 rev/L)
TORQUE SLOPE	16.59 ft-lb/psi (5.54 Nm/kPa)

*Specifications are subject to change without notice

