



**Scientific Drilling International's Ti TAN22 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 Ti TAN22 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 <sup>5</sup> / <sub>8</sub> in., 7 <sup>5</sup> / <sub>8</sub> 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	5.7
MAX DIFFERENTIAL PRESSURE	1,340 psi (9,239 kPa)
STALL DIFFERENTIAL PRESSURE	2,110 psi (14,548 kPa)
TORQUE AT MAX DIF PRESSURE	25,920 ft-lbs (35,142 Nm)
STALL TORQUE	40,830 ft-lbs (55,358 Nm)
FLOW RANGE	600 – 1,200 gal/min (2,270 – 4,540 L/min)
SPEED RANGE	79 – 160 RPM
SPEED RATIO	0.13 rev/gal (0.04 rev/L)
TORQUE SLOPE	19.26 ft-lb/psi (3.79 Nm/kPa)

\*Specifications are subject to change without notice

