



Scientific Drilling International's TiAN22 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 TiAN22 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	6.60 in. (168 mm)
LENGTH	31.3 ft (9.54 m)
RECOMMENDED HOLE SIZES	7.87 - 8.75 in. (200 - 222 mm)
MAX BEND ANGLE	2.38°

BEARING SECTION

BIT TO BEND LENGTH	49 in. (1.2 m)
BIT BOX CONNECTION	4 1/2 in. API Reg. Box
MAX WOB	60,000 lbs (26,289 DaN)
MAX OVERPULL FOR RETURN	105,000 lbs (47,706 DaN)
OVERPULL TO YIELD MOTOR	210,000 lbs (93,413 DaN)
MAX BIT PRESSURE DROP	1,000 psi (6,894 kPa)
OPT BIT PRESSURE DROP	100 - 750 psi (690 - 5,171 kPa)
LCM CAPABILITY	40 lb nut plug

POWER SECTION

LOBE CONFIGURATION	4/5
STAGES	7.0
MAX DIFFERENTIAL PRESSURE	1,580 psi (10,860 kPa)
STALL DIFFERENTIAL PRESSURE	2,360 psi (16,290 kPa)
TORQUE AT MAX DIF PRESSURE	9,090 ft-lbs (12,330 Nm)
STALL TORQUE	13,630 ft-lbs (18,490 Nm)
FLOW RANGE	300 - 600 gal/min (1,140 - 2,270 L/min)
SPEED RANGE	149 - 300 RPM
SPEED RATIO	0.50 rev/gal (0.13 rev/L)
TORQUE SLOPE	5.77 ft-lb/psi (1.14 Nm/kPa)

*Specifications are subject to change without notice

