



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	5.00 in. (127.00 mm)
LENGTH	27.6 ft (8.41 m)
RECOMMENDED HOLE SIZES	6 - 6.75 in. (152.40 - 171.45 mm)
MAX BEND ANGLE	2.38°

BEARING SECTION

BIT TO BEND LENGTH	40.6 in. (1.03 m)
BIT BOX CONNECTION	3 1/2 in. API Reg. Box
MAX WOB	30,000 lbs (13,345 DaN)
MAX OVERPULL FOR RETURN	60,000 lbs (26,289 DaN)
OVERPULL TO YIELD MOTOR	120,000 lns (53,379 DaN)
MAX BIT PRESSURE DROP	750 psi (5,171 kPa)
OPT BIT PRESSURE DROP	100 - 600 psi (690 - 4,136 kPa)
LCM CAPABILITY	40 lb nut plug

POWER SECTION

LOBE CONFIGURATION	7/8
STAGES	5.0
MAX DIFFERENTIAL PRESSURE	1,130 psi (7,760 kPa)
STALL DIFFERENTIAL PRESSURE	1,690 psi (11,630 kPa)
TORQUE AT MAX DIF PRESSURE	4,460 ft-lbs (6,040 Nm)
STALL TORQUE	6,680 ft-lbs (9,060 Nm)
FLOW RANGE	100 - 275 gal/min (378 - 1,040 L/min)
SPEED RANGE	64 - 180 RPM
SPEED RATIO	0.64 rev/gal (0.17 rev/L)
TORQUE SLOPE	3.96 ft-lb/psi (0.78 Nm/kPa)

*Specifications are subject to change without notice

