



**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	7.15 in. (181 mm)
LENGTH	38 ft (11.52 m)
RECOMMENDED HOLE SIZES	8.50 - 9.87 in. (216 - 250 mm)
MAX BEND ANGLE	2.12°

## BEARING SECTION

BIT TO BEND LENGTH	52 in. (1.3 m)
BIT BOX CONNECTION	4 1/2 in. API Reg. Box
MAX WOB	60,000 lbs (26,689 DaN)
MAX OVERPULL FOR RETURN	100,000 lbs (48,930 DaN)
OVERPULL TO YIELD MOTOR	240,000 lbs (106,757 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	7/8
STAGES	9.4
MAX DIFFERENTIAL PRESSURE	2,120 psi (14,617 kPa)
STALL DIFFERENTIAL PRESSURE	3,170 psi (21,856 kPa)
TORQUE AT MAX DIF PRESSURE	18,680 ft-lbs (25,327 Nm)
STALL TORQUE	28,020 ft-lbs (37,990 Nm)
FLOW RANGE	500 - 750 gal/min (1,890 - 2,840 L/min)
SPEED RANGE	144 - 216 RPM
SPEED RATIO	0.28 rev/gal (0.08 rev/L)
TORQUE SLOPE	8.32 ft-lb/psi (1.73 Nm/kPa)

\*Specifications are subject to change without notice

