



**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

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

## BEARING SECTION

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

## POWER SECTION

<b>LOBE CONFIGURATION</b>	7/8
<b>STAGES</b>	4.0
<b>MAX DIFFERENTIAL PRESSURE</b>	1,000 psi (6,895 kPa)
<b>STALL DIFFERENTIAL PRESSURE</b>	1,500 psi (10,342 kPa)
<b>TORQUE AT MAX DIF PRESSURE</b>	16,590 ft-lbs (22,493 Nm)
<b>STALL TORQUE</b>	24,880 ft-lbs (33,733 Nm)
<b>FLOW RANGE</b>	400 – 900 gal/min (1,510 – 3,407 L/min)
<b>SPEED RANGE</b>	79 – 160 RPM
<b>SPEED RATIO</b>	0.17 rev/gal (0.04 rev/L)
<b>TORQUE SLOPE</b>	16.59 ft-lb/psi (3.26 Nm/kPa)

\*Specifications are subject to change without notice

