METAL-TO-METAL MOTOR

For your High Temperature Needs

TOOL APPLICATIONS

Metal-to-Metal Motor offered by Taranaki Thru Tubing Tools (4TL) has the highest longevity of any power section on the market. The all-metal power sections are rated to temperatures greater than 200°C (400°F), so they are not susceptible to extreme temperature and most mud-related issues seen with traditional PDMs

Metal-to-Metal means there is absolutely **no elastomer present within the power section**, eliminating the greatest risk currently known to drilling motor operations - elastomeric damage.

The internal components are optimised for cyclic fatigue-loading which is another common failure mechanism seen in the form of twist-offs.

The unique, simplified design of the bearing section is built with the highest quality materials and patent-pending processes to ensure reliable operating life for years to come.

FEATURES AND BENEFITS

- Bearing Sections are designed to work with the highest-torque power sections available
- Robust specialty alloy flex shaft design for extreme high-torque and infinite life
- Lower Catch Mechanism - Reduces the risk of the bit and internal components from being lost downhole in the event of a failure/twist-off in the driveline
- Upper Catch Mechanism (Rotor Catch) - Prevents the tool from being lost downhole in the event of a housing failure below the stator
- All internal connections are double-shouldered, designed with bending and high torque in mind. Two shouldering faces increase the friction of a connection, leading to a higher torque rating and increased durability.

SPECIFICATIONS

Technical Variable		Units	Size	
			2 7/8"	2 7/8"
Configuration		Stage	3.8	2.9
Nominal Diameter		in	2.90	2.90
Overall Length		in	164	164
Connections	Top	box	2 3/8" PAC	2 3/8" PAC
	Bottom	box	2 3/8" PAC	2 3/8" PAC
Range Rate		GPM	50 - 150	50 – 150
Range Motor		RPM	183 - 550	111 – 334
Max Weight on Bit		lbs	22,500	22,500
Max Differential		psi	1,950	1,200
Max Torque		ft.lbs	890	933
Power		HP	93	56