

2.13” MOTOR

The 2.13” Motor features a wide **Range of RPM, flow rates, and torque** to convert hydraulic fluid energy, created by flow and pressure, into mechanical energy. This positive displacement motor produces optimum power output with maximum efficiency for today’s Thru-Tubing demands.

TRANSMISSION

The motor’s single-piece flexible shaft is the simplest and the most reliable transmission for standard applications in a small-diameter motor.

POWER SECTION

The power section consists of a stainless steel rotor, and an elastomeric lined stator tailored to the planned well intervention whether it is a high-temperature application or an aggressive fluid application.

BEARING ASSEMBLY

Downhole Motor’s bearing assembly is well suited for weight on bit, sideloading, and overpulls. For high-pressure tool applications, the sealing system uses mud lubricated bearings and a mechanical seal assembly.

SPECIFICATIONS

DESIGNATION	FLOW RANGE (GPM)	SPEED RANGE (RPM)	MAX. OPERATING TORQUE (FT-LBS)	MAX. PRESSURE DIFFERENTIAL (PSI)
MSHP	25-65	210-545	140	700
MSHT	25-65	230-600	200	1000
SSHT	20-60	67-200	237	400

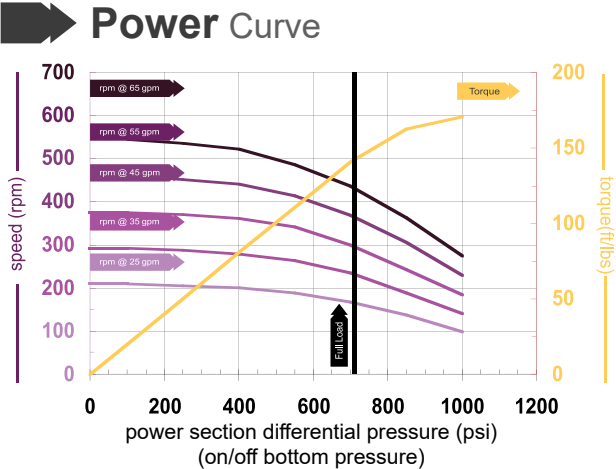
Note: Specifications are based on water at 70°F. Specific ations are subject to change without notice.



MSHP Performance Specifications

Hi-Performance 2.13” Motor

	U.S. UNITS	S.I. UNITS
Outside Diameter	2.125"	54 mm
Overall Length	9.21'	2.81 m
Weight	75 lbs	34 kg
Top Connection	1 1/2 " AMMT	
Bottom Connection	1 1/2 " AMMT	
Maximum Weight On Bit	2,800 lbs	1,270 kg
Maximum Bit Pressure Drop	1,500 psi	103 Bar
Flow Rate: Minimum Maximum	25 gpm 65 gpm	95 lpm 246 lpm
No Load Bit Speed @ Min. Flow Rate @ Max. Flow Rate	210 rpm 545 rpm	
No Load Pressure Drop	200 psi	13.8 Bar
Maximum Operating Pressure Differential	700 psi	48.3 Bar
Torque(w/H ₂ O @ 70°F) Maximum Operating Stall	140 ft-lbs 210 ft-lbs	190 Nm 285 Nm
Maximum Allowable Overpull For Re-running Absolute Maximum	30,450 lbs 38,070 lbs	13,812 kg 17,268 kg



Performance Chart

Pressure Differential	Q (gpm)	25	35	45	55	65
100 psi	(ft-lbs)	20	20	20	20	20
	(rpm)	210	293	377	461	545
250 psi	(ft-lbs)	50	50	50	50	50
	(rpm)	205	288	370	452	536
400 psi	(ft-lbs)	81	81	81	81	81
	(rpm)	201	279	362	443	523
550 psi	(ft-lbs)	111	111	111	111	111
	(rpm)	188	264	343	414	488
700 psi	(ft-lbs)	141	141	141	141	141
	(rpm)	168	236	302	369	437
850 psi	(ft-lbs)	163	163	163	163	163
	(rpm)	138	190	243	307	364
1,000 psi	(ft-lbs)	171	171	171	171	171
	(rpm)	100	141	185	230	275