WZL INDUSTRIES

WZL M40

Mud Lubricated Drilling Motor

HIGHER FLOW. MORE TORQUE. FASTER ROP.

The WZL M40 mud lubricated motor features the latest in drilling technology alongside quality design, materials and manufacturing that you've come to expect from us. Expect higher flow rates, more torque and a faster rate of penetration (ROP).



FEATURES & BENEFITS

Updated bearing assembly

The WZL M40 bearing assembly is designed to perform with the latest in high flow and high-torque power sections. Utilizing patented driveline technology, maximized thru-bore and bypass ports, and enhanced geometry, our newest motor gives you a tool you can count on for superior performance.

Housing and mandrel connections

Our new housing connections feature large thread root radii, which enables more effective cold working of threads and reduces stress connections for improved fatigue life under bending. Additionally, our new mandrel boasts a larger OD that substantially increases torque capacity and stiffness. This makes for an aggressive bottom end that is capable of delivering higher build rates and ROP.

OPTIMIZED BIT-TO-BEND LENGTH

SINGLE PIECE HYBRID FLEX SHAFT OPTION

DRIVELINE CONFIGURATIONS

DOUBLE ARTICULATING

Available for most motor designs.

HYBRID FLEX

FULL FLEX

TITANIUM FLEX

SPECIFICATIONS – IMPERIAL

						OPERATING CAPACITY				STATIC CAPACITY				
BA OD (in)	Power OD (in)	Bit box to adj. bend (in)	Bit box to fixed bend (in)	Hole size (in)	Bit box thread (API)	WOB (lb)	Max bit overpull (lb)	Torque (ft-lb)	Flow rate (gpm)	WOB to re-run (lb)	Bit overpull to re-run (lb)	Body overpull (lb)	Torque (ft-lb)	Adj. make-up torque (ft-lb)
5 ¼	5.00	50	40 / 46*	6 ⅛ – 7 ⅞	3 ½ Reg	41,000	41,000	9,000	450	181,000	127,000	424,000	14,000	18,000
	5.25	50	40 / 46*	6 ⅛ – 7 ⅞	3 ½ Reg	41,000	41,000	9,000	450	181,000	127,000	424,000	14,000	18,000
5 ½	5.50	53	43	6 ¾ – 7 ⅞	3 ½ Reg	48,500	48,500	11,000	550	231,000	169,000	440,000	16,000	20,000
5 ¾	5.75	58	47	6 ¾ – 7 ⅞	3 ½ Reg	57,500	57,500	12,000	550	254,000	212,000	499,000	17,000	22,000
6 ½	6.50	n/a	51	7 ⅞ – 9 ⅞	4 ½ Reg	72,000	72,000	17,000	600	358,000	222,000	524,000	27,000	n/a
	6.62	n/a	51	7 ⅞ – 9 ⅞	4 ½ Reg	72,000	72,000	17,000	600	358,000	222,000	545,000	27,000	n/a
	6.75	n/a	51	8 ½ – 9 ⅞	4 ½ Reg	72,000	72,000	17,000	600	358,000	222,000	539,000	27,000	n/a
7 ¼	6.75	57	45	8 ½ – 9 ⅞	4 ½ Reg	76,500	76,500	21,000	850	355,000	319,000	539,000	34,000	35,000
	7.00	57	45	8 ½ – 9 ⅞	4 ½ Reg	76,500	76,500	21,000	850	355,000	319,000	659,000	34,000	35,000
	7.25	57	45	8 ½ – 9 ⅞	4 ½ Reg	76,500	76,500	21,000	850	355,000	319,000	659,000	34,000	35,000
8 ¼	8.00	66	52	9 ⅞ – 12 ¼	6 ⅝ Reg	97,250	97,250	28,000	1,200	463,000	326,000	783,000	45,000	45,000
	8.25	66	52	9 ⅞ – 12 ¼	6 ⅝ Reg	97,250	97,250	28,000	1,200	463,000	326,000	783,000	45,000	45,000
9 ⅝	9.62	94	78	12 ¼ – 17 ½	6 ⅝ Reg	132,000	132,000	41,500	1,500	772,000	223,000	1,177,000	66,000	60,000
11 ¼	11.25	106	n/a	14 ¾ – 26	7 ⅝ Reg	140,000	140,000	41,500	1,800	834,000	223,500	1,364,000	66,000	80,000

*Applicable to S30 fixed bend only.

Specifications are based on as-new condition and are subject to change without notice. Other sizes available upon request. Motor assemblies are available in a multitude of speeds and configurations.

SPECIFICATIONS – METRIC

						OPERATING CAPACITY				STATIC CAPACITY				
BA OD (mm)	Power OD (mm)	Bit box to adj. bend (m)	Bit box to fixed bend (m)	Hole size (mm)	Bit box thread (API)	WOB (daN)	Max bit overpull (daN)	Torque (N·m)	Flow rate (lpm)	WOB to re-run (daN)	Bit overpull to re-run (daN)	Body overpull (daN)	Torque (N·m)	Adj. make-up torque (N·m)
133	127	1.27	1.02 / 1.17*	155 – 200	3 ½ Reg	18,200	18,200	12,200	1,700	80,500	56,600	189,000	19,000	24,400
	133	1.27	1.02 / 1.17*	155 – 200	3 ½ Reg	18,200	18,200	12,200	1,700	80,500	56,600	189,000	19,000	24,400
140	140	1.35	1.09	171 – 200	3 ½ Reg	21,600	21,600	14,900	2,100	102,700	75,200	196,000	21,700	27,100
146	146	1.46	1.19	171 – 200	3 ½ Reg	25,600	25,600	16,300	2,100	113,000	94,300	222,000	23,100	29,800
165	165	n/a	1.30	200 – 251	4 ½ Reg	32,000	32,000	23,100	2,300	159,200	98,700	233,000	36,600	n/a
	168	n/a	1.30	200 – 251	4 ½ Reg	32,000	32,000	23,100	2,300	159,200	98,700	233,000	36,600	n/a
	171	n/a	1.30	216 – 251	4 ½ Reg	32,000	32,000	23,100	2,300	159,200	98,700	240,000	36,600	n/a
184	171	1.45	1.14	216 – 251	4 ½ Reg	34,000	34,000	28,500	3,200	157,900	141,900	240,000	46,100	47,500
	178	1.45	1.14	216 – 251	4 ½ Reg	34,000	34,000	28,500	3,200	157,900	141,900	293,000	46,100	47,500
	184	1.45	1.14	216 – 251	4 ½ Reg	34,000	34,000	28,500	3,200	157,900	141,900	293,000	46,100	47,500
209	203	1.68	1.32	251 – 311	6 ⅝ Reg	43,300	43,300	38,000	4,900	205,900	145,000	348,000	61,000	61,000
	209	1.68	1.32	251 – 311	6 ⅝ Reg	43,300	43,300	38,000	4,900	205,900	145,000	348,000	61,000	61,000
244	244	2.39	1.98	311 – 445	6 ⅝ Reg	58,700	58,700	56,300	5,700	343,400	99,200	524,000	89,500	81,400
286	286	2.69	n/a	375 – 660	7 ⅝ Reg	62,300	62,300	56,300	6,800	371,000	99,400	607,000	89,500	108,500

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CONTACT US FOR PRICING AND FURTHER DETAILS: wzlindustries.com/contact/