

DOWNHOLE MOTOR

Downhole Motor

Downhole motor is a positive-displacement motor, widely used in drilling, kick-off, azimuth control, coring, reaming, and work over for directional wells, horizontal wells, of oilfields and coal mines.

Jereh Drilltech provides various downhole motors through sizes 3-1/2"~17-1/2".



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Technical Specification of Downhole Motor

Motor Type	JDDM-5LZ73x7	JDDM-5LZ89x7	JDDM-5LZ95x7	JDDM-5LZ120x7	JDDM-5LZ120IIx7	JDDM-5LZ165x7	JDDM-5LZ165x7IV	JDDM-5LZ165x7V	
Hole size(In)	3-1/8~4-3/4	4-1/2~6	4-5/8~6	5-7/8~7-7/8	5-7/8~7-7/8	8-3/8~9-7/8	8-3/8~9-7/8	8-3/8~9-7/8	
Flow rate range (L/S)	2~4	3~8	8~13	9~14	9~16	20~28	20~28	20~28	
Rotation Speed (Rpm)	125~220	95~200	80~165	95~200	95~200	90~160	90~160	90~160	
Pressure fall of motor (Mpa)	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.0	
Operating Torque (N.m)	320	560	1,200	1,350	1,700	3,300	4,500	5,600	
Stall torque (N.m)	560	980	2,100	2,360	2,950	5,775	7,875	9,800	
Output power (Kw)	4.2~7.4	5.6~11.7	10~20.7	13.4~28.3	16.9~35.6	31.1~55.3	42.4~75.4	52.8~93.8	
Bit diff. pressure (Mpa)	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	
Recommended W.O.B. T	1.5	2	2.5	3	3	6	8	10	
Max. W.O.B. T	2	3	5	5	5	16	16	16	
Connection	Upper box	2-3/8TBG	2-3/8	2-7/8	3-1/2	3-1/2	4-1/2	4-1/2	4-1/2
	lower box	2-3/8	2-3/8	2-7/8	3-1/2	3-1/2	4-1/2	4-1/2	4-1/2
Vertical		3,670	2,700	4,035	3,385	4,555	5,860	6,770	7,665
Tool length -mm	Single-bent			4,035	3,900	4,555	5,860	6,770	7,665
	Double-bent			4,185	4,060	4,715	6,110	7,020	7,915
Vertical		85	83	140	200	265	668	730	810
Tool WT(kg)	Single-bent			145	248	270	688	750	830
	Double-bent			150	258	280	714	776	856

Motor Type	JDDM 5LZ7 2x7IV	JDDM 5LZ172x 7V	JDDM 5LZ19 7x7.0V	JDDM 5LZ19 7x7.0VI	JDDM 5LZ203x 7.0	JDDM 5LZ20 3x7.0V	JDDM 5LZ215x 7	JDDM 7LZ244x 7.0	
Hole size (In)	8-3/8~9-7/8	8-3/8~ 9-7/8	9-7/8~ 12-1/4	9-7/8~ 12-1/4	9-7/8~ 12-1/4	9-7/8~ 12-1/4	12-1/4~ 15-1/4	12-1/4~ 17-1/2	
Flow rate range (L/S)	25~35	25~35	30~50/60	30~50/60	30~50/60	30~50/60	30~50	50~75	
Rotation Speed (Rpm)	90~160	90~160	90~160	90~160	90~160	90~160	100~160	85~140	
Pressure fall of motor (Mpa)	3.2	4.0	4.0	4.8	3.2	4.0	3.2	3.2	
Operating Torque (N.m)	5,300	6,600	8,800	10,000	8,500	10,000	11,000	17,000	
Stall torque (N.m)	9,275	11,550	12,180	14,000	11,900	14,000	19,250	24,650	
Output power (Kw)	49.9~88.8	62.2~110 .6	83~145	94~167	80~142	94~165	115.2~18 4.3	151~249	
Bit diff. pressure (Mpa)	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	
Recommended W.O.B. T	8	10	17	18	16	17	17	22	
Max. W.O.B. T	16	16	25	26	24	25	28	33	
Connection	Upper box	4-1/2	4-1/2	5-1/2	5-1/2	5-1/2	5-1/2	6-5/8	
	lower box	4-1/2	4-1/2	6-5/8	6-5/8	6-5/8	6-5/8	6(7)-5/8	
Vertical			7,630	9,050	10,200	7,900	9,050	8,480	9,510
Tool length (mm)	Single-bent		7,630	9,050	10,200	7,900	9,050	8,480	9,510
	Double-bend	6,980	7,880	9,350	10,500	8,200	9,350	8,780	9,810
Vertical			913	1,395	1,646	1,262	1,512	1,440	1,830
Tool weight (kg)	Single-bent	830	934	433	1,689	1,300	1,550	1,473	1,930
	Double-bend		962	1,478		1,345	1,595	1,528	2,005

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