

MUD PUMPS

Bentec mud pumps stand for new technology, more reliability and reduced maintenance.

AVAILABLE CAPACITIES:

1,600 hp / 5,000 PSI

1,600 hp / 7,500 PSI



UNIQUE FEATURES

- Direct-driven external gearbox
- No internal gear
- Patented liner clamping
- Fast valve clamping
- Small footprint
- Usable for on- & offshore
- Components manufactured according to API 7K
- CE conformity

TECHNICAL DATA

MUD PUMPS

Bentec developed the idea of mud pumps completely new. The mud pumps are equipped with a direct-drive gearbox, a motor developed in-house, and state-of-the-art pump housing. There is no longer any need for an internal gear with all of its disadvantages today, and no more belt tensioning. Bentec mud pumps are reduced to the task they are made for - pump operations.

Bentec mud pumps are light-weight and have a small footprint. The 1,600 hp AC-powered motor is top-mounted. The pump is available with 5,000 or 7,500 PSI fluid ends and all of its parts subject to wear and tear meet API standards and are available worldwide. A handling crane makes it easy to handle the fluid end components. Furthermore, Bentec uses patented liner and valve clamping technology to reduce the maintenance time significantly. A quick-change liner

and piston system serves for easy maintenance. A special feature of the Bentec mud pump is the side-mounted gear drive. This design eliminates the need for any chain or belt tensioning systems. The two-stage helical gear feeds directly into a forged/welded crankshaft, which is balanced and provides quiet and vibration-reduced operation.

Liner cooling and gear oiler systems are included; a supercharge pump and a noise reduction package can be installed upon request. Especially for noise-sensitive environments like offshore or densely populated locations, the Bentec mud pump is the right choice. Along with the supply of mud pumps, Bentec acts as a system supplier. Pumps can be delivered together with a Bentec Power Control System and the Bentec Soft Pump System.

TECHNICAL DATA

Weight:	84,437 lbs (38,3 t)
Length of skid:	inch 263" (6,680 mm)
Length of pump:	inch 236" (6,000 mm)
Width:	inch 116" (2,948 mm)
Height:	inch 133" (3,385 mm)

Fluid end sizes			5,000 PSI					7,500 PSI	
Liner size	Inch		7 ½	7	6 ½	6	5 ½	5	4 ½
	mm		190.5	177.8	165.1	152.4	139.7	127	114.3
Max. discharge pressure	PSI		2,988	3,430	3,978	4,669	5,000	6,723	7,500
	bar		206	236	274	322	345	464	514
Volume per stroke	gal (US)		6.88	6.00	5.17	4.41	3.7	3.06	2.48
	liter		26.1	22.7	19.6	16.7	14	11.6	9.4
Speed	Max input	Max input	gal / min						
SPM	hp	KW	l / min						
120	1,600	1,193	826	720	621	529	444	367	297
			3,127	2,724	2,349	2,002	1,682	1,390	1,032
100	1,333	994	688	600	517	441	370	306	248
			2,606	2,270	1,958	1,668	1,402	1,158	938
80	1,067	795	551	480	414	353	296	245	198
			2,085	1,816	1,566	1,334	1,221	927	751
60	800	597	413	360	310	264	222	184	149
			1,564	1,362	1,175	1,001	841	695	563
40	533	398	275	240	207	176	148	122	99
			1,042	908	783	667	561	463	375

Stroke 12" (304.8mm)
based on 90% mechanical efficiency
based on 100% volumetric efficiency