

POWERSTROKE™ DRILLING JAR

Every aspect of this double-acting hydraulic jar was designed to withstand the rigors and long hours of challenging applications. Featuring an extra-long stroke length for exceptional impact and impulse forces during jarring operations, the *PowerStrokeTM* jar offers infinitely variable trip loads up to the maximum rating of the tool. Only a minimal load is required in both the up and down jarring directions, which is crucial in directional, horizontal, and extended-reach wellbores. This makes the *PowerStrokeTM* jar an ideal solution for modern drilling operations.

CRUCIAL IN DIRECTIONAL, HORIZONTAL AND EXTENDED-REACH DRILLING FEATURES

- Safety This safety enhancing and time saving device locks the *PowerStroke* in the open position via a mechanical latch actuated bi the absence of hydrostatic pressure. The Safety Lock is located internally to the *PowerStroke*; therefore, eliminating the Mandrel Clamp during rig up/down operation.
- Handling The Rex Sub possesses an engineered location for Elevator placement to eliminate the need for a Lift Sub when handling the PowerStroke.
- Lenght The *PowerStroke's* overall lenght equals that of conventional drillpipe for ease and safe placement within the Derrick and/or Mouse Hole.
- Connections The PowerStroke is easily adapted to any BHA by simply changing out the Flex Sub and Bottom Sub to the desired connection.
- Manufacturing All jars are manufactured to I.S.O. 9001 specifications utilizing materials of outstanding quality.



POWERSTROKE™

TECHNICAL SPECIFICATIONS

Outside Diameter	Inside Diameter	Assembly Number	Maximum Jar Load (Up/Down)	Tensile Yield Strenght	Torsional Yield Strenght*	Total Stroke	Pump Open Area	Lenght (Open Position)	Weight
3 1/8 in.	1 ¼ in.	503734	50,000 lbf	240,000 lbf	5,730 ft-lb	22 in	2.8 in²	30.5 ft	550 l b
79 mm	32 mm		222,400 N	1,067,500 N	7,775 N-m	559 mm	1,810 mm²	9.3 m	250 kg
3 % in.	1 ½ in.	504413	50,000 lbf	250,000 lbf	6,300 ft- l b	22 in	3.7 in²	30.5 ft	630 l b
86 mm	38 mm		222,400 N	1,112,000 N	8,500 N-m	559 mm	2,390 mm²	9.3 m	290 kg
4 ¾ in.	2 ¼ in.	1563533	90,000 lbf	482,000 lbf	16,200 ft- l b	24 in	7.1 in²	30.0 ft	1,500 l b
121 mm	57 mm		400,300 N	2,144,000 N	21,900 N-m	610 mm	4,590 mm²	9.1 m	690 kg
6 ¼ in.	2 ¾ in.	155790	170,000 lbf	848,000 l bf	42,000 ft- b	28 in	12.2 in²	32.0 ft	2,400 b
159 mm	70 mm		756,100 N	3,772,000 N	56,900 N-m	711 mm	7,880 mm²	9.8 m	1,100 kg
6 ½ in.	2 ¾ in.	155790	170,000 lbf	848,000 l bf	42,000 ft- l b	28 in	12.2 in²	32.0 ft	2,500 l b
165 mm	70 mm		756,100 N	3,772,000 N	56,900 N-m	711 mm	7,880 mm²	9.8 m	1,200 kg
6 ¾ in.	2 ¾ in.	503348	230,000 lbf	1,237,000 lbf	63,300 ft- l b	28 in	12.2 in²	32.0 ft	2,800 l b
171 mm	70 mm		1,023,000 N	5,502,400 N	85,800 N-m	711 mm	7,880 mm²	9.8 m	1,300 kg
7 in.	2 ¾ in.	503348	230,000 lbf	1,237,000 l bf	67,800 ft- l b	28 in	12.2 in²	32.0 ft	3,000 lb
178 mm	70 mm		1,023,000 N	5,502,400 N	91,900 N-m	711 mm	7,880 mm²	9.8 m	1,400 kg
7 ¾ in.	2 ¾ ₆ in.	156426	300,000 lbf	1,472,000 lbf	72,800 ft- l b	30 in	16.8 in²	33.0 ft	4,500 lb
197 mm	78 mm		1,334,400 N	6,547,700 N	98,700 N-m	762 mm	10,840 mm²	10.1 m	2,100 kg
8 in.	2 ¾6in.	156426	300,000 lbf	1,472,000 lbf	72,800 ft- l b	30 in	16.8 in²	33.0 ft	4,800 lb
203 mm	78 mm		1,334,400 N	6,547,700 N	98,700 N-m	762 mm	10,840 mm²	10.1 m	2,200 kg
9 ½ in.	3 ½in.	504398	550,000 lbf	2,550,000 lbf	200,000 ft- l b	28 in	21.1 in²	33.0 ft	6,000 l b
241 mm	78 mm		2,446,500 N	11,342,900 N	271,100 N-m	711 mm	113,620 mm²	10.1 m	2,800 kg

^{*}Torsional Yield Strength rating is based on the yield of the body connections independent of tool joint connections

