



Hydraulic Jar Accelerator

The Wenzel Downhole Tools Hydraulic Jar Accelerator is a hydraulic spring that stores energy when tension is applied to the drilling string.

During the jarring stroke, the energy is released upwards to accelerate the drill collars and the upper portion of the Jar, intensifying the jarring impact.

Features and Benefits

- ▶ Featuring a sealed and lubricated spline drive, the Accelerator will provide long service life under high torque and stroking applications.
- ▶ Full torque can be transmitted through the Accelerator.
- ▶ Standard seals in the tool are effective to 250°F (120°C). The sub can be dressed with seals effective to 400°F (200°C) for hot hole environments. External sealing surfaces are tungsten carbide-coated to enhance wear and corrosion resistance.
- ▶ The operation of the Accelerator is independent of the fluid circulation.
- ▶ The Accelerator is very useful in shallow holes where little pipe stretch is available.
- ▶ Recommended for use in extended reach or highly deviated wells where jar performance could suffer due to hole drag.

Operation

- The Hydraulic Jar Accelerator is traditionally used in fishing operations, but because it has a sealed spline and robust design it may also be used with drilling jars.
- Applying tension to the drill string will transfer energy to the hydraulic chamber. Follow normal recommended practices for operating the drilling jar.

Hydraulic Jar Accelerator Specifications

IMPERIAL							
Nominal OD (inch)	Length (feet)	Thru Bore (inch)	Tensile Yield (lbs)	Torsional Limit (ft lbs)	Load to Extend Tool (lbs)	Total Stroke (inch)	Approximate Weight (lbs)
3.12	11.3	1.00	227 000	7 800	34 000	8.0	225
3.42	13.5	1.50	235 000	8 000	36 000	8.0	340
4.75	14.4	2.25	371 000	19 800	58 000	8.0	650
6.50	14.7	2.25	950 000	54 200	141 000	8.0	1 350
6.62	14.7	2.75	783 000	52 100	136 000	8.0	1 300
6.75	15.0	2.75	783 000	48 300	150 000	8.0	1 500
7.00	15.3	2.75	715 000	48 800	160 000	8.0	1 550
8.00	15.5	3.00	1 149 000	110 600	198 000	8.0	2 240
8.25	15.5	3.00	1 149 000	125 600	198 000	8.0	2 300
9.50	14.3	3.00	1 643 000	180 000	211 000	8.0	2 950

METRIC							
Nominal OD (mm)	Length (m)	Thru Bore (mm)	Tensile Yield (daN)	Torsional Limit (N·m)	Load to Extend Tool (daN)	Total Stroke (mm)	Approximate Weight (kg)
79	3.4	25	101 000	10 600	15 100	203	100
87	4.1	38	105 000	10 800	16 000	203	150
121	4.4	57	165 000	27 000	25 800	203	300
165	4.5	57	423 000	73 000	62 700	203	610
168	4.5	70	348 000	71 000	60 500	203	590
171	4.6	70	348 000	65 000	66 700	203	680
178	4.7	70	318 000	66 000	71 200	203	700
203	4.7	76	511 000	150 000	88 100	203	1 020
210	4.7	76	511 000	170 000	88 100	203	1 050
241	4.4	76	731 000	244 000	93 900	203	1 340

Other sizes are available upon request.
 Specifications are based on as new condition and are subject to change without notice.