WZL JAR ACCELERATORS

Hydraulic Jar Accelerators

OPTIMIZE YOUR JARRING STROKE

Optimize your jarring stroke with a WZL jar accelerator. Our accelerators ensure smooth impactful jarring strokes regardless of well depth and deviation.



FEATURES & BENEFITS

Ensure adequate jarring wherever you are

WZL jar accelerators are hydraulic springs that store energy in order to intensify jarring impact. When overpull is applied to the drilling jar, the accelerator extends via tension and stores energy in the hydraulic chamber. When the jar fires, stored energy is instantly released, accelerating drill collars above the jar.

Accelerators supplement insufficient drill pipe stretch during jarring operations, which can occur in very shallow holes. They are also recommended for use in extended reach or deviated wells where jar performance could suffer due to hole drag. WZL accelerators can also prevent shock waves and other vibrations from travelling up the drill string, protecting your assets in a way similar to that of our shock tool. The operation of our accelerators is independent of fluid circulation, and full torque can be transmitted through the tools.

Built to last

WZL jar accelerators are built to last through repeated use in the harshest conditions. Featuring a sealed and lubricated spline drive, our accelerators provide long service life under high torque and stroking applications. Standard seals in the tool are effective to 250°F (120°C) but can be dressed with seals effective to 400°F (200°C). The tools can also be sealed externally with a specialized tungsten carbide coating to enhance wear and corrosion resistance.

Double up

If you're using a WZL HJDA or HMDA, make sure you take advantage of our double-acting accelerator. Double-acting accelerators work with double-acting jars and store energy through both tension and compression.

SPECIFICATIONS – IMPERIAL

Nominal OD (in)	Accelerator type	Length (ft)	Thru bore (in)	Tensile yield (lb)	Torsional limit (ft-lb)	Load to extend (lb)	Load to compress (lb)	Stroke (in)
3 ⅛	Single Acting	11.3	1.00	227,000	5,700	34,000	–	8.0
3 ⅜	Single Acting	13.5	1.50	235,000	9,000	36,000	–	8.0
4 ¾	Single Acting	14.4	2.25	371,000	22,800	58,000	–	8.0
	Double Acting	20.9	2.25	370,600	22,800	42,000	31,000	12.5
6 ½	Single Acting	14.7	2.25	970,000	56,300	141,000	–	8.0
	Double Acting	22.2	2.75	1,220,000	63,700	99,400	43,900	12.5
6 ⅝	Single Acting	14.7	2.75	999,000	61,500	136,000	–	8.0
6 ¾	Single Acting	15.0	2.75	999,000	66,000	150,000	–	8.0
7	Single Acting	15.3	2.75	994,000	65,100	160,000	–	8.0
8	Single Acting	15.5	3.00	1,163,000	86,200	198,000	–	8.0
	Double Acting	19.8	2.81	1,294,000	89,400	198,000	63,700	12.5
8 ¼	Single Acting	15.5	3.00	1,164,000	86,200	198,000	–	8.0
9 ½	Single Acting	14.3	3.00	1,658,500	139,900	211,000	–	8.0

Specifications are based on as-new condition and are subject to change without notice. As-new OD is typically the nominal OD plus API drill collar allowance.

SPECIFICATIONS – METRIC

Nominal OD (mm)	Accelerator type	Length (m)	Thru bore (mm)	Tensile yield (daN)	Torsional limit (N·m)	Load to extend (daN)	Load to compress (daN)	Stroke (mm)
79	Single Acting	3.4	25	101,000	7,700	15,100	–	203
86	Single Acting	4.1	38	105,000	12,200	16,000	–	203
121	Single Acting	4.4	57	165,000	30,900	25,800	–	203
	Double Acting	6.4	57	164,800	30,900	18,700	13,800	318
165	Single Acting	4.5	57	431,000	76,300	62,700	–	203
	Double Acting	6.8	70	543,000	86,400	44,200	19,500	318
168	Single Acting	4.5	70	444,000	83,400	60,500	–	203
171	Single Acting	4.6	70	444,000	89,500	66,700	–	203
178	Single Acting	4.7	70	442,000	88,300	71,200	–	203
203	Single Acting	4.7	76	517,000	116,900	88,100	–	203
	Double Acting	6.0	71	576,000	121,200	61,600	28,300	318
210	Single Acting	4.7	76	518,000	116,900	88,100	–	203
241	Single Acting	4.4	76	737,000	189,700	92,900	–	203

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