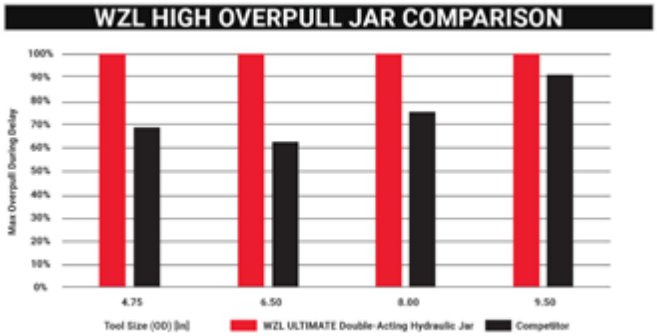
WZL INDUSTRIES

ULTIMATE HJDA

Double-Acting Hydraulic Jar

HYDRAULIC CONTROL IN BOTH DIRECTIONS

The latch-free ULTIMATE HJDA provides hydraulic delay and variable, operator-controlled impact both up and down. It is designed for highly deviated and high-friction wells where available force may not be sufficienct to release a mechanical latch.



ULTIMATE CONFIGURATIONS – IMPERIAL

Nominal OD (in)	Length (ft)	Thru bore (in)	Tensile yield (lb)	Torsional limit (ft-lb)	Pump open area (in²)	Max pull during delay (lb)	Max slack during delay (lb)	Free / total stroke (in)
4 ¾	22.0	2.25	370,600	22,800	11.8	132,000	85,000	8.0 / 25.0
5	21.5	2.25	370,600	27,300	11.8	135,000	85,000	8.0 / 25.0
5 ¼	21.9	2.25	534,300	30,500	14.2	185,000	115,000	8.0 / 25.0
6 ½	23.1	2.75	1,220,000	63,700	23.8	275,000	175,000	8.0 / 25.0
6 ¾	22.7	2.75	1,220,000	66,600	23.8	340,000	230,000	8.0 / 25.0
7	22.7	2.75	1,220,000	66,600	23.8	340,000	230,000	8.0 / 25.0
8	23.4	2.81	1,293,900	89,400	30.7	450,000	300,000	8.0 / 25.0
10	24.1	3.00	1,658,500	139,400	41.3	550,000	350,000	8.0 / 25.0

ULTIMATE CONFIGURATIONS – METRIC

Nominal OD (mm)	Length (m)	Thru bore (mm)	Tensile yield (daN)	Torsional limit (N ·m)	Pump open area (mm²)	Max pull during delay (daN)	Max slack during delay (daN)	Free / total stroke (mm)
121	6.7	57	164,800	30,900	7,600.0	58,700	37,800	200 / 640
127	6.6	57	164,800	37,000	7,600.0	60,000	37,800	200 / 640
133	6.7	57	237,700	41,400	9,200.0	82,300	51,200	200 / 640
165	7.0	70	542,700	86,400	15,400.0	122,300	77,800	200 / 640
171	6.9	70	542,700	90,300	15,400.0	151,200	102,300	200 / 640
178	6.9	70	542,700	90,300	15,300.0	151,200	102,300	200 / 640
203	7.1	71	575,500	121,200	19,800.0	200,200	133,400	200 / 640
241	7.3	76.2	737,700	189,000	26,600.0	244,600	155,700	200 / 640