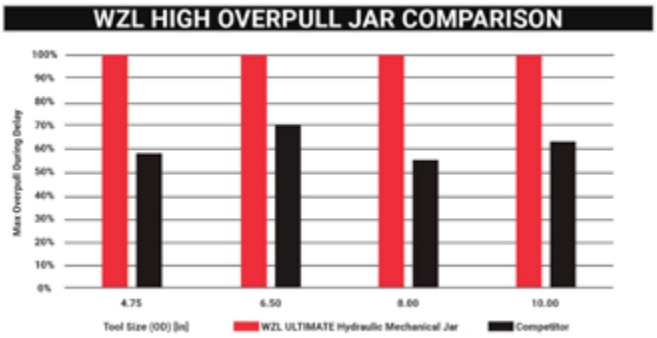
WZL INDUSTRIES

ULTIMATE HMJ

Hydraulic Mechanical Jar

HYDRAULIC UP. MECHANICAL DOWN. LATCHED IN NEUTRAL.

The Wenzel ULTIMATE HMJ pairs hydraulic-delay upward jarring with positive mechanical release downward. Its mechanical latch locks the jar in neutral to prevent unexpected stroking during drilling, tripping and handling.



ULTIMATE CONFIGURATIONS – IMPERIAL

Nominal OD (in)	Length (ft)	Thru bore (in)	Tensile yield (lb)	Torsional limit (ft-lb)	Pump open area (in²)	Up / down latch setting (lb)	Max pull during delay (lb)	Free up / down / total stroke (in)
4 ⅛	18.9	2.00	300,800	15,300	9.0	45,000 / 25,000	110,000	5 / 6 / 15
4 ¾	19.6	2.25	391,000	20,000	11.8	55,000 / 30,000	132,000	5 / 6 / 15
5 ¼	19.6	2.25	391,000	22,800	11.8	55,000 / 30,000	132,000	5 / 6 / 15
6 ¼	20.5	2.25	803,000	48,500	19.6	90,000 / 40,000	250,000	5 / 6 / 15
6 ½	20.5	2.25	803,000	52,400	19.6	90,000 / 40,000	250,000	5 / 6 / 15
6 ⅝	20.6	2.75	747,000	53,800	21.7	90,000 / 40,000	250,000	5 / 6 / 15
6 ¾	20.5	2.75	908,000	48,800	23.8	95,000 / 42,000	270,000	5 / 6 / 15
8	20.7	2.81	949,000	89,400	30.7	100,000 / 45,000	400,000	5.5 / 6 / 15
10	21.9	3.00	1,658,500	160,500	44.2	110,000 / 50,000	580,000	5.5 / 6 / 15

ULTIMATE CONFIGURATIONS – METRIC

Nominal OD (mm)	Length (m)	Thru bore (mm)	Tensile yield (daN)	Torsional limit (N ·m)	Pump open area (mm²)	Up / down latch setting (daN)	Max pull during delay (daN)	Free up / down / total stroke (mm)
105	5.8	51	133,800	20,700	5,800	20,000 / 11,100	48,900	130 / 150 / 380
121	6.0	57	173,900	27,100	7,600	24,500 / 13,300	58,700	130 / 150 / 380
133	6.0	57	173,900	30,900	7,600	24,500 / 13,300	58,700	130 / 150 / 380
159	6.3	57	357,200	65,800	12,700	40,000 / 17,800	111,200	130 / 150 / 380
165	6.3	57	357,200	71,000	12,700	40,000 / 17,800	111,200	130 / 150 / 380
168	6.3	70	332,300	72,900	14,000	40,000 / 17,800	111,200	130 / 150 / 380
171	6.2	70	403,900	66,200	15,300	42,300 / 18,700	120,100	130 / 150 / 380
203	6.3	71	422,100	121,200	19,800	44,500 / 20,000	177,900	140 / 150 / 380
254	6.7	76	737,700	217,600	28,500	48,900 / 22,200	258,000	140 / 150 / 380