WZL INDUSTRIES

WORLDWIDE LEADER IN
HIGH PERFORMANCE DRILLING TOOLS

WENZEL ULTIMATE HIGH-OVERPULL DRILLING JARS

THE INDUSTRY LEADER IN MAXIMUM OVERPULL FORCE

Patented max-pull-during-delay technology lets drillers with modern rigs and premium-strength drill pipe apply substantially more overpull before release, ensuring ULTIMATE jarring impact when they need it most.

550,000 LBS
MAX PULL DURING DELAY
(WENZEL ULTIMATE HJDA)

580,000 LBS
MAX PULL DURING DELAY
(WENZEL ULTIMATE HMJ)

472,500 LBS
MAX PULL DURING DELAY
(WENZEL ULTIMATE HJ)



WZLINDUSTRIES.COM

LEARN MORE ABOUT WENZEL ULTIMATE DRILLING JARS

WZL INDUSTRIES

PATENTED HIGH-OVERPULL DESIGN
TUNGSTEN-CARBIDE WEAR PROTECTION
API & ISO 9001:2015 CERTIFIED

ULTIMATE HJDA

HYDRAULIC DELAY UP AND DOWN, NO MECHANICAL LATCH

Choose the Wenzel ULTIMATE Double-Acting Hydraulic Jar for variable impact in both up and down directions, especially in deviated or high-friction wells.

- Hydraulic metering delivers operator-controlled impact in both the up and down directions.
- Latch-free design expands placement options in high-friction and highly deviated wellbores.
- Simple up-and-down operation with consistent delay across the entire range of operating temperatures.
- Unaffected by right- or left-hand torque.
- Tungsten-carbide coated external sealing surfaces.
- Available sizes range from 4 ¾" – 9 ½" O.D.

UP TO 550,000 LBS
MAX PULL DURING DELAY

ULTIMATE HMJ

HYDRAULIC UP, MECHANICAL DOWN, LATCHED IN NEUTRAL

Choose the Wenzel ULTIMATE Hydraulic Mechanical Jar (HMJ) when you want maximum upward overpull with a positive mechanical release down and predictable handling.

- Mechanical latch prevents unexpected jarring while handling, tripping and drilling.
- Hydraulic delay up lets the operator adjust surface overpull and impact force.
- Sealed spline drive and latch chamber keeps annulus fluid and debris away from internal mechanisms.
- Can run in tension or compression and is unaffected by right- or left-hand torque.
- Available sizes range from 4 ⅛" – 10" O.D.

UP TO 580,000 LBS
MAX PULL DURING DELAY

ULTIMATE HJ

SINGLE-ACTING HYDRAULIC FISHING JAR

Details on page 4.

UP TO 472,500 LBS
MAX PULL DURING DELAY

THE ULTIMATE ADVANTAGE

Wenzel ULTIMATE drilling jars use multiple high-pressure chambers to make more of the tensile force available from today's high performance rigs and premium drill pipe. More allowable overpull during delay means greater potential impact when it matters most.

Temperature: Standard seals to 250°F (120°C). Optional high-temperature kits to 400°F (200°C).
Wear protection: Tungsten-carbide coated external sealing surfaces.

EXPLORE WZL ULTIMATE JARS

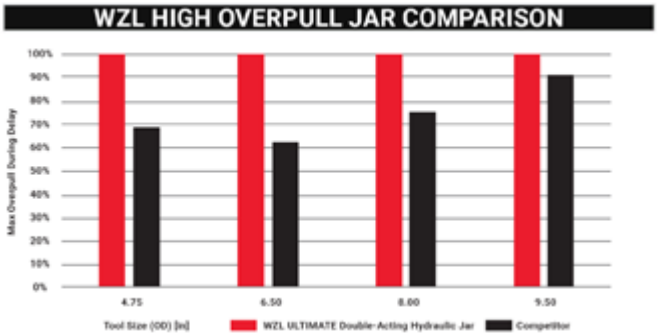
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ULTIMATE HJDA

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 (in^2)	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 (mm^2)	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

WZL INDUSTRIES

ULTIMATE HJ

Single-Acting Hydraulic Fishing Jar

RELIABLE UPWARD JARRING FORCE

The Wenzel ULTIMATE HJ hydraulic fishing jar is a compact, lightweight, single-acting jar designed to deliver powerful upward impact when freeing equipment from tight downhole jams. Built primarily for fishing, coring and milling applications—but rugged enough for drilling—the HJ can be paired with a hydraulic accelerator to optimize jarring performance.

Hydraulically activated and controlled by the operator, the HJ uses Wenzel's Visco Jet metering system to provide consistent delay times across a wide range of operating temperatures. A sealed and lubricated long-spline mandrel protects the tool from torsional forces while reducing friction and wear. Depending on tool size, six to six-and-a-half inches of free stroke delivers impact force several times greater than the applied overpull, while tungsten-carbide-coated sealing surfaces and optional high-temperature seals support reliable performance in demanding downhole environments.

ULTIMATE CONFIGURATIONS – IMPERIAL

Nominal OD (in)	Length (ft)	Thru bore (in)	Tensile yield (lb)	Torsional limit (ft-lb)	Pump open area (in^2)	Max pull during delay (lb)	Free / total stroke (in)	Weight (lbs)
4 ¾	13.3	2.25	352,000	16,100	11.0	131,250	6.5 / 11.0	510
5	13.3	2.25	352,000	23,300	11.0	148,750	6.5 / 11.0	500
6 ½	13.7	2.25	868,000	44,000	19.6	262,500	6.5 / 11.0	990
8	13.8	3.00	1,160,000	86,900	30.7	420,000	6.5 / 11.0	1,915
9	13.8	3.00	1,288,000	128,800	41.2	472,500	6.0 / 10.5	2,503

ULTIMATE CONFIGURATIONS – METRIC

Nominal OD (mm)	Length (m)	Thru bore (mm)	Tensile yield (daN)	Torsional limit (N ·m)	Pump open area (mm^2)	Max pull during delay (daN)	Free / total stroke (mm)	Weight (kg)
121	4.1	57	156,600	21,800	7,100	58,400	170 / 280	230
127	4.1	57	156,600	31,600	7,100	66,200	170 / 280	230
165	4.2	57	386,100	59,700	12,600	116,800	170 / 280	450
203	4.2	76	516,000	117,800	19,800	186,800	170 / 280	870
229	4.2	76	572,900	174,600	26,600	210,200	150 / 270	1,140

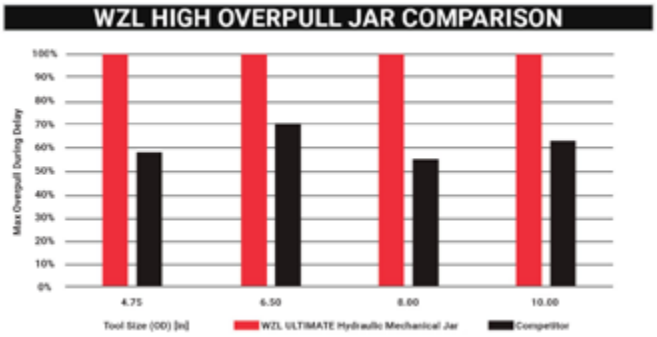
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ULTIMATE HMJ

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