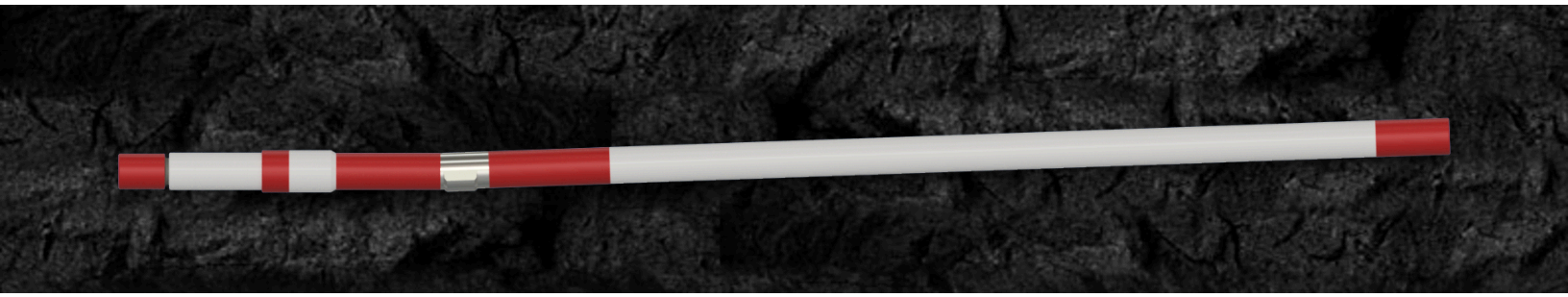
WZL HDD MOTOR

Horizontal Directional Drilling Motor

FOLLOW THE LEADER

The WZL horizontal directional drilling (HDD) motor is a custom motor configuration designed specifically for HDD in utility, oil and gas, and civil construction applications that require trenchless horizontal directional drilling.



FEATURES & BENEFITS

Customer-led HDD engineering

As is the case with all of our tools, WZL HDD motors are designed and built to our customers' specifications. Many of our HDD motors include options such as a fit-for-purpose driveline that shortens the overall length of the motor and a short HDD top sub. A large, custom-designed 6 ⅝" Reg bit box mandrel is also available for the 6 ½" HDD motor.

The motor features high weight-on-bit and load capacities and comes with a 2° fixed bend housing (though other angles are available).

We work closely with each of our customers to ensure our tools meet their specific needs and deliver the performance they expect.

Follow the leader

Our HDD motors give operators the strength and durability of our line of deep-well downhole tools with the flexibility and mobility required in HDD operations. Discover why more HDD services are choosing WZL downhole tools.

ENLARGED BIT BOX MANDREL

SHORT HDD DRIVELINE OPTION

SPECIFICATIONS – IMPERIAL

Nominal motor OD (in)	Model	Bit box to fixed bend (in)	Overall length (ft)	Hole size (in)	Standard bit box thread (API)	Max WOB (lb)	Max bit overpull (lb)	Flow range (gpm)	Speed range (rpm)	Max diff. pressure (psi)	Torque at max diff. pressure (ft-lb)	Elastomer type
2 ⅞	M6 7837	29	13.5	3 ½ – 4 ½	2 ⅜ Reg	11,500	11,500	50 – 130	115 – 300	600	680	Std
3 ½	M6 7838	30	16.2	4 ½ – 5 ⅞	2 ⅞ Reg	18,500	18,500	75 – 150	120 – 235	650	1,080	Std
4 ¾	M5 7822	50	16.7[a] (17.6)[b]	5 ⅞ – 7 ⅞	3 ½ Reg	54,000	31,000	100 – 250	50 – 140	450	2,130	HR
6 ½	M6 7828	56	18.7[a] (19.6)[b]	7 ⅞ – 12 ¼	4 ½ Reg / 6 ⅝ Reg	91,000	51,000	150 – 400	50 – 140	600	4,770	HR
8	M6 7830	67	23.5[a] (24.4)[b]	9 ⅝ – 12 ¼	6 ⅝ Reg	105,000	73,000	400 – 900	65 – 150	450	7,470	Std

SPECIFICATIONS – METRIC

Nominal motor OD (mm)	Model	Bit box to fixed bend (m)	Overall length (m)	Hole size (mm)	Standard bit box thread (API)	Max WOB (daN)	Max bit overpull (daN)	Flow range (lpm)	Speed range (rpm)	Max diff. pressure (kPa)	Torque at max diff. pressure (N·m)	Elastomer type
73	M6 7837	0.72	4.11	89 – 114	2 ⅜ Reg	5,100	5,100	190 – 490	115 – 300	4,100	920	Std
89	M6 7838	0.76	4.95	114 – 149	2 ⅞ Reg	8,200	8,200	285 – 570	120 – 235	4,500	1,500	Std
121	M5 7822	1.27	5.11[a] (5.38)[b]	149 – 200	3 ½ Reg	24,000	13,800	380 – 950	50 – 140	3,100	2,890	HR
165	M6 7828	1.42	5.70[a] (5.97)[b]	200 – 311	4 ½ Reg / 6 ⅝ Reg	40,500	23,000	570 – 1,510	50 – 140	4,100	6,470	HR
203	M6 7830	1.70	7.16[a] (7.43)[b]	244 – 311	6 ⅝ Reg	47,000	32,000	1,510 – 3,410	65 – 150	3,100	10,130	Std

[a] Motor length when using short HDD driveline and service sub. [b] Motor length when using standard driveline and service sub (length in brackets).

Note: Adjustable bend assembly option only compatible for use with standard driveline.

Specifications are based on as-new condition and are subject to change without notice.

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