

Millennium HB21 Short Bit-to-Bend Drilling Motor

The Wenzel Downhole Tools Millennium Short Bit-to-Bend Drilling Motor is designed to deliver higher build rates at lower rotatable bend settings. Using patented technology, the Millennium Drilling Motor provides users with a reliable tool for improving drilling time with more efficient well plans and reduced trips.

The Millennium Drilling Motors continue to offer the highest level of quality to customers through superior designs, materials, and manufacturing processes.

Features and Benefits

- ▶ Sealed and oil filled Bearing Assembly.
- ▶ Equipped with 0-2° Adjustable Bend Assembly.
- ▶ Compatible for use with even wall technology, hard rubber, and other high torque power sections.
- ▶ Suitable for use in formations with poor build tendencies, and short to medium radius wells.
- ▶ Reduces drilling time by completing vertical, build and lateral sections in a single trip.
- ▶ Utilizes Maxi-Torque Driveline for increased torsional capacity.
- ▶ Inhouse manufactured components adhere to Wenzel's high standard of premium materials and quality production.
- ▶ Patented design.



Millennium HB21 Short Bit-to-Bend Drilling Motor Specifications

IMPERIAL								
Nominal OD (inch)	Bit Box to Bend (inch)	Hole Size (inch)	Standard Bit Box Thread (API)	Max WOB* (lbs)	Max Bit Overpull* (lbs)	Max WOB to Re-run** (lbs)	Max Bit Overpull to Re-run** (lbs)	Absolute Body Overpull** (lbs)
4 3/4	30	5 7/8 – 7 7/8	3 1/2 REG	42 500	22 000	157 000	100 000	436 000
5	30	5 7/8 – 7 7/8	3 1/2 REG	42 500	22 000	157 000	100 000	481 000
6 1/2	30	7 7/8 – 9 7/8	4 1/2 REG	68 500	33 000	266 000	162 000	550 000
6 3/4	30	8 1/2 – 9 7/8	4 1/2 REG	68 500	33 000	266 000	162 000	597 000

METRIC								
Nominal OD (mm)	Bit Box to Bend (m)	Hole Size (mm)	Standard Bit Box Thread (API)	Max WOB* (daN)	Max Bit Overpull* (daN)	Max WOB to Re-run** (daN)	Max Bit Overpull to Re-run** (daN)	Absolute Body Overpull** (daN)
121	0.76	149 – 200	3 1/2 REG	19 000	10 000	70 000	44 000	194 000
127	0.76	149 – 200	3 1/2 REG	19 000	10 000	70 000	44 000	214 000
165	0.76	200 – 251	4 1/2 REG	30 000	15 000	118 000	72 000	245 000
171	0.76	216 – 251	4 1/2 REG	30 000	15 000	118 000	72 000	266 000

*Operating Capacity

**Static Capacity

Millennium HB21 Short Bit-to-Bend Drilling Motor has an option for 40" bit-to-bend length. Specifications are based on as new condition and are subject to change without notice.