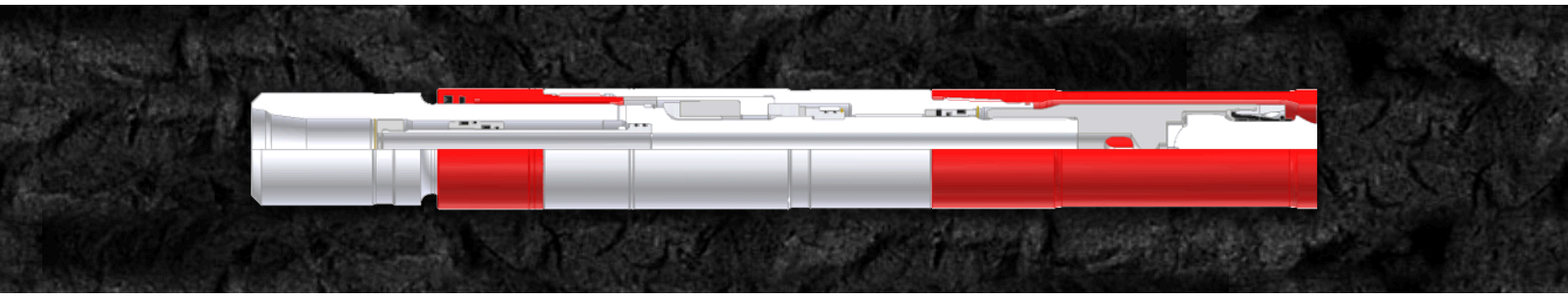
WZL INDUSTRIES

WZL M35

Oil Sealed Bearing Assembly

TOTAL DEPTH — SIGNED, SEALED, DELIVERED.

WZL oil sealed bearing assemblies are built for ease of use and maintenance, lower service costs and reliable performance in low-to-moderate temperature wells. The M35 is a zero-bypass bearing assembly with a maximized OD, available with any WZL housing and driveline combination and a screw-on stabilizer.



FEATURES & BENEFITS

Sealed and protected
Bearing packs are isolated from drilling fluid, guarding internal components from debris. The oil sealed design and carbide coated parts offer optimal corrosion resistance.

Stronger bearing mandrel
A large mandrel OD adds strength, a double-start connection increases torque capacity and stress relief improves fatigue resistance, all with an increased ID and flow capacity.

More fluid to the bit
The zero-bypass design directs more fluid to the bit for enhanced hydraulic efficiency, bottom-hole cleaning, bit life and ROP. Increased flow area and improved bypass flow geometry reduce wash.

Built for fatigue life
Mod IF housing connections reduce fatigue, and high weight-on-bit thrust bearing capacity keeps the assembly performing under load.

DESIGN HIGHLIGHTS

- Zero-bypass bearing assembly
- Double-start mandrel connection
- High WOB thrust bearing capacity
- Maximized OD
- Carbide coated parts
- Screw-on stabilizer option
- Mod IF housing connections
- Configurable jetted piston housing ports
- Any WZL housing and driveline combination

SPECIFICATIONS – IMPERIAL

						OPERATING CAPACITY		STATIC CAPACITY			
Nominal size (in)	Body OD (in)	Bit box to adj. bend (in)	Bit box to fixed bend (in)	Hole size (in)	Bit box thread (API)	WOB (lb)	Max bit overpull (lb)	WOB to re-run (lb)	Bit overpull to re-run (lb)	Body overpull (lb)	Adj. make-up torque (ft-lb)
5	5.35	53	43	6 ⅛ – 7 ⅞	3 ½ Reg	41,000	21,000	155,000	118,000	472,000	18,000
7	7.25	60	47	8 ½ – 9 ⅞	4 ½ Reg	100,000	74,000	420,000	260,000	781,000	35,000

Specifications are based on as-new condition and are subject to change without notice. Other sizes available upon request. Motor assemblies are available in a multitude of speeds and configurations.

SPECIFICATIONS – METRIC

						OPERATING CAPACITY		STATIC CAPACITY			
Nominal size (in)	Body OD (mm)	Bit box to adj. bend (m)	Bit box to fixed bend (m)	Hole size (mm)	Bit box thread (API)	WOB (daN)	Max bit overpull (daN)	WOB to re-run (daN)	Bit overpull to re-run (daN)	Body overpull (daN)	Adj. make-up torque (N·m)
5	136	1.35	1.09	156 – 200	3 ½ Reg	18,000	9,000	68,900	52,000	210,000	24,400
7	184	1.50	1.19	216 – 251	4 ½ Reg	45,000	33,000	187,000	115,500	347,000	47,500

Specifications are based on as-new condition and are subject to change without notice. Other sizes available upon request. Motor assemblies are available in a multitude of speeds and configurations.

DIMENSIONS – IMPERIAL

Nominal size (in)	Crown pad radius (in)	Bit box to stabilizer (in)	Bottom end assembly (in)	Top end assembly (in)	Top connection	Weight* (lb)
5	2.93	22	77	45	3 ½ IF, 3 ½ Reg	500
7	3.98	25	88	47	4 ½ IF, 4 ½ XH	1,300

*Bearing assembly weight only. Add power section weight; see power section specifications for stator length, weight and motor performance.

DIMENSIONS – METRIC

Nominal size (in)	Crown pad radius (mm)	Bit box to stabilizer (m)	Bottom end assembly (m)	Top end assembly (m)	Top connection	Weight* (kg)
5	74	0.56	1.96	1.14	3 ½ IF, 3 ½ Reg	227
7	101	0.64	2.24	1.19	4 ½ IF, 4 ½ XH	590

*Bearing assembly weight only. Add power section weight; see power section specifications for stator length, weight and motor performance.