

DES

POSITIVE DISPLACEMENT MUD MOTORS

Departure Energy Services proudly introduces our DES positive displacement mud motor line.

The DES line of mud motors integrates the latest generation sealed bearing technology with the most recent power sections designs. Our power sections have been carefully chosen from Dyna-Drill® Technologies, an oilfield supplier of superior products since 1958. Recognized as technological leaders, their products deliver reliable service in the most extreme drilling applications worldwide. These power sections* come with the latest elastomer offering, the NBR-HR™ featuring improved fluid resistance, superior mechanical properties and reduced thermal expansion. DES has also integrated the float valve into the top sub or dump sub, eliminating an additional connection.



The power sections are coupled with the 'Cavare' bearing housing and a patented innovative adjustable bent housing. The unique sealed bearing assembly has 3 radial supported bearings that are oil filled and pressure balanced. The output shaft is slightly larger than most other competitor offerings. This larger diameter increases the strength of the shaft, reduces the bending stresses and the likelihood of fatigue induced failures. The single point offset housing bent housing has an oversized bore allowing easy adjustment on the rig floor. 13 increments cover a range from 0° to 3° and a shorter bend allows for better directional performance and control. The constant velocity connecting shaft has oil filled, sealed universal joints. Due to the larger I.D through the Adjustable Bent Housing, larger C.V. joints have been utilized to increasing the strength and prolonging the life of the shafts.

*Power section sizes range from 2 7/8" through to 11 1/2". Please call for our current available size selection.

Features include:

- PERFORMANCE POWER SECTIONS
- LATEST ELASTOMER COMPOSITION
- BROAD APPLICATION RANGE
- INTEGRATED FLOAT SUB
- SEALED BEARING PACK
- LARGER CONNECTING SHAFT
- LARGER OUTPUT SHAFT



DEPARTURE
ENERGY SERVICES INC.

LEDUC OPERATIONS FACILITY

#106, 8009 - 39th Street
Leduc, Alberta, Canada
T9E 0B3

Phone 780.980.3900 24hrs

CALGARY SALES OFFICE

Phone 403.266.3940

Toll Free 877.233.3940

We're listening.

Departure Energy Services proudly introduces our DES positive displacement mud motor line.



MOTOR Power Section Categories				
Designation	Torque	Lobe	Bit Speed / RPM	Formation Type
High	Low	2:3 or 3:4	270 - 600	Soft
Medium	Moderate	4:5 or 5:6	90 - 270	Soft to Medium
Low	High	6:7 or 7:8	70 - 190	Medium to Hard
Ultra-Low	High	7:8	35 - 90	Extremely Hard

Patented 3° Adjustable Bent Housing

This unique patented design allows for increased radial distances, allowing larger universal joints to be utilized. In lieu of this adjustable housing should the drilling parameters (shorter bit to bend) dictate a fixed bend housing can also be utilized.

Universal Joint

The constant velocity joints are used to connect the rotor through a connecting shaft to the output shaft and bit box. These larger CV joints are sealed with lubricant and due to the increased internal tolerances reduces any lockup and provides superior life when coupled with today's high performance, high torque output power sections.

Dump Subs

The dump sub valve is typically located above the power section and is ported and bored to accept a float valve. This sub can also be substituted for a top sub which is not ported.

Motor Stabilizers/Offset Pads

All DES motors allow for the addition of screw on stabilizers in a variety of sizes in either concentric straight or curve blades and eccentric pads when higher build rates are required. Additional stabilization can also be provided for use at the top of the motor.

Contact your Departure Energy Services representative today for specifications on current power section configurations.



DEPARTURE
ENERGY SERVICES INC.

LEDUC OPERATIONS FACILITY

#106, 8009 - 39th Street
Leduc, Alberta, Canada
T9E 0B3

Phone 780.980.3900 24hrs

CALGARY SALES OFFICE

Phone 403.266.3940

Toll Free 877.233.3940