



**LOGAN
DRILLING
GROUP**

DISCOVERY DRILL EF50

SPECSHEET



The EF50 is a fully hydraulic drill enclosed in a unitized drill shack, complete with rod handler, and 4 leveling jacks. The EF50 has a P size head and footclamp, and is powered by a Cummins Tier 3 315 hp engine. The drill has a 5' 6" feed stroke, and the foot clamp and head chuck are fully synchronized.

Rated Depth Capacity 4,000 ft H

Pull Back Capacity 30,000 lbs (13,608 kg)

Feed Capacity 25,000 lbs (11,339 kg)

Water Pump - FMC 550 - 60 GPM @ 1,500 PSI

Water Pump Drive - Hydraulic Motor

Drilling Fluid Mixer - Translucent plastic tub with in-tub hydraulic mud mixer with bottom drain

Complete instrumentation panel

Drill Enclosure - Rigid steel tubing structure with half inch plywood painted with high resistance epoxy paint

Total Weight ready to drill 21,000 lbs (9,525 kg)

Rod Handling - fully Hydraulic with B-N-H and P capacity

Drill Head - DDM Design, pressure lubricated 0-1,000 RPM

Chuck - Boyles 12HH - Pull back capacity: EF-50/EF-50F (12.5 degree jaws) EF-75/EF-75F (7 degree jaws)
25,000 lbs (11,340 kg)

Rod Clamp - DDM 4 jaw design with 36,000 lbs (16,329 kg)

Transmission - Funk 4 speed

Hydraulic Motor - Rexroth 160cc 5,800 PSI variable displacement

Hydraulic Pumps - Main: Rexroth 125cc 5, 800 PSI variable displacement, closed loop

Secondary: Rexroth 95cc 5,000 PSI (pc) (ls)

Wireline Hoist - DDM design capacity with level wind 4,000 ft (1,220 m)