



The **XT100MP-Ultralight** is a full hydraulic **Top Head Drive** diamond core-drilling rig with 1.7 metre feed travel and 3 metre rod hauling capability.

The Rig is designed for Man-Portable Diamond Drilling and breaks down into only 10 components with the heaviest component weighing 110kg.

The rig is equipped with a hollow shaft Rineer Rotation Drill Head, which was originally developed for the oil field industry. The drill head hinges to one side, for clear access to the drill string.

Depending on the helicopter size the rig can be picked up as a single unit or split into two to fit the capabilities of say a Bell206 Jetranger. The total weight fully assembled is less than 900kg.



Standard Design Features

Drill Mast	Mast: Lightweight single section. Drilling Range: -45° to -90° (vertical)
Rod Clamps	Hydraulically operated rod clamps: NQ, HQ & PQ jaws
Wireline Winch	Capacity: 300 metres (4 mm, non-rotating wire rope) Maximum pull – bare drum: 10 kN
Hydraulics	Rexroth Closed Loop pump for rotation, and Open Loop for all other functions. Full flow 10 micron 'Beta rated' return oil filtration
Jacks	4 x Manual type helical screws anchors to hold the rig down
Mud Mixer	5hp Honda Vertical Shaft motor driving a 6" stainless steel propeller.
Engine Power	Kohler: 1 x 40 horsepower, lightweight, industrial gasoline engines Engine protection: auto shut down system
Depth Capacities *	NQ (300m), HQ (200m), PQ (100m)
Rotation System	Infinitely variable
Rotation Drill Head	Rineer Motor: hollow shaft, high torque, infinitely variable
Rotation Output Torque	183 ft/lbs @ 1000 rpm. Maximum torque: 358 ft/lbs

Feed System	Hydraulically operated pullback and pulldown Fine control over feed pressure and holdback 1.7 meter feed stroke
Pull Down Force	3300kg
Pull Back Force	5500kg
Main Hoist	Single line pull: 2700kg
Water Pump	Triplex Pump: 2 speed-hydraulically driven. 160 lpm (42 USgpm) @ 2758 kpa (400 psi) 120 lpm (32 USgpm) @ 3792 kpa (550 psi)
Component Weights	Engine and hydraulic pumps – 105kg Rotation Head and Swivel – 57kg Mast (fully assembled) – 196kg Mast (disassembled into 2 parts) – 105kg + 91kg Base Frame – 96kg Hydraulic Tank (full) – 110kg Control Panel – 99kg Mud Pump – 85kg Mast Stays and Wireline – 110kg
Carrier	Man-Portable – Skid - Trailer
Shipping Dimensions	4 units per 20' container

** Core Drilling depth capacities quoted are nominal and based on straight vertical holes. No allowance is made for downhole friction losses due to broken ground, etc.*

Specifications are valid as of December 2012 and are subject to change by Bundok in accordance with their policies to update and improve their products.