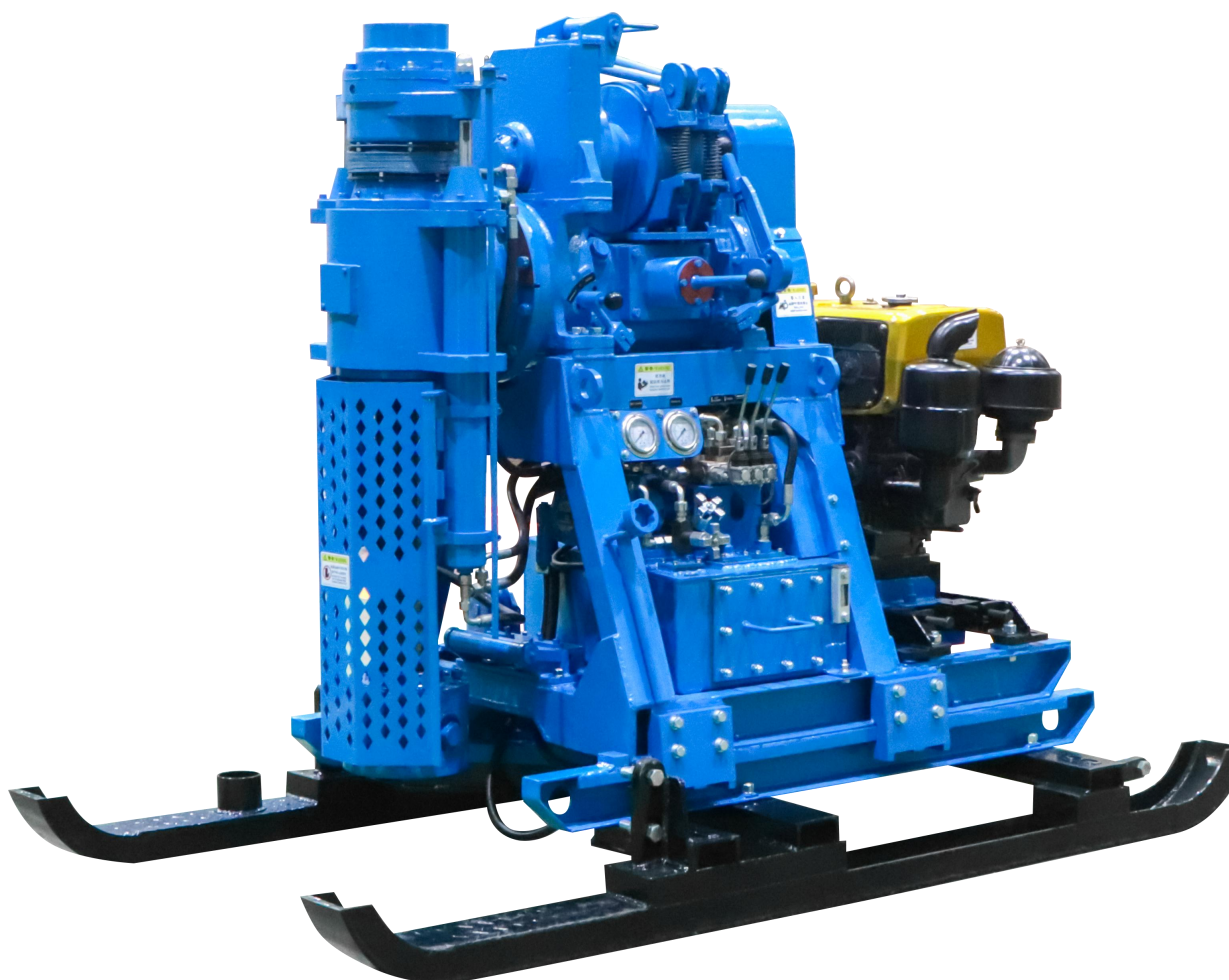


LE90R Small portable core drill rig



◆ Product Description

The LE90R is a portable boring machine generally used for diamond core drilling in soil investigation. (Hence, it is also referred to as Core Drill in this manual.) Mounted on a steel drag skid, it consists of a prime mover, a four (4)-speed transmission, hoist, drill head, slide base, hydraulic tank with controls, drag pulleys and a four (4)-pole mast.

The standard power unit is a 15 horsepower diesel engine. Other optional power units may be used.

The hoist and the drill head are driven through a four (4)-speed transmission. The hoist drum is a planetary gear type, with wrap-around bands on the brake and clutch. Actuation of the hoist brake and hoist clutch is through over-centre cam hand levers.

The drill head twin hydraulic cylinders provide an infinite selection of feeds and are capable of exerting an upward thrust of 5,580kgf at hydraulic pressure 103bar (105kg/cm²). The drill head can be swivelled for angle drilling.

The hydraulic power is provided by a variable volume vane pump, driven directly by the engine, so that hydraulic power is always available when the engine is running. The maximum operating pressure is 103bar (105kg/cm²). The oil tank has a capacity of 30 litres.

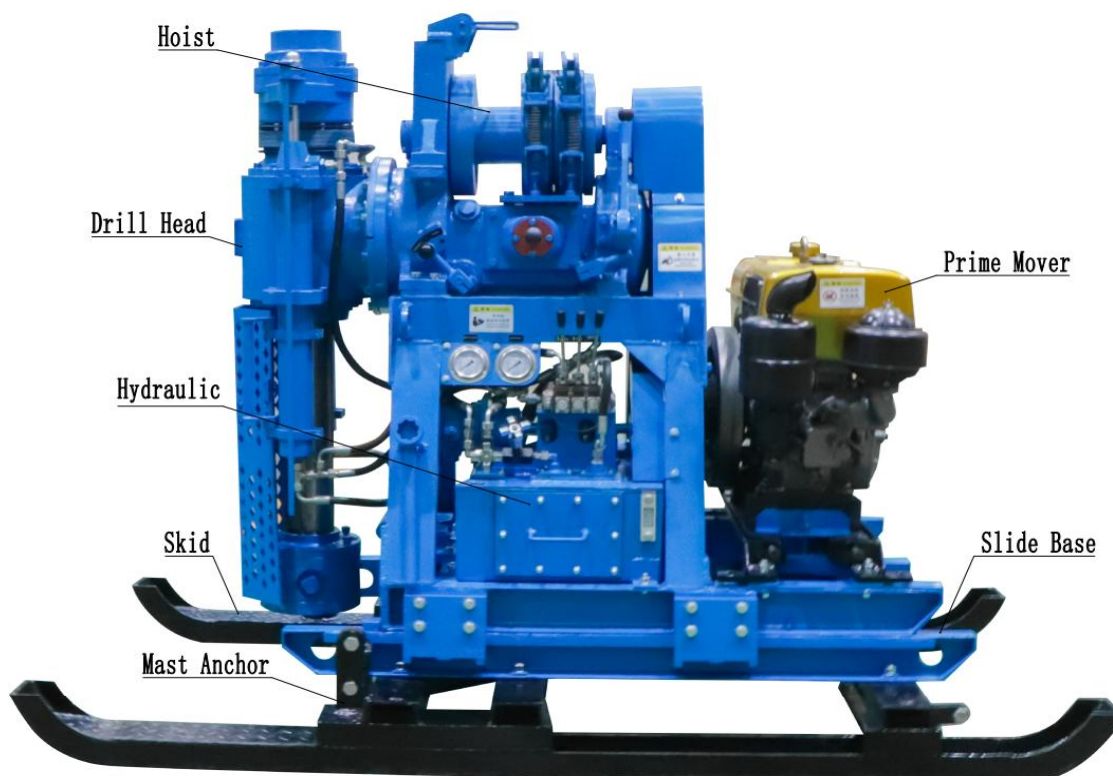
A hydraulic power activated slide base provides a 370mm drill movement on or off the bore hole. A drag skid and three (3) drag pulleys are provided to facilitate movements between boreholes.

The standard mast is a four (4)-pole type, with its legs anchored onto the drag skid. Bracing is provided at three (3) levels. Lifting height is about 5.6 metres.

◆ Two Power Options



◆ Product Feature



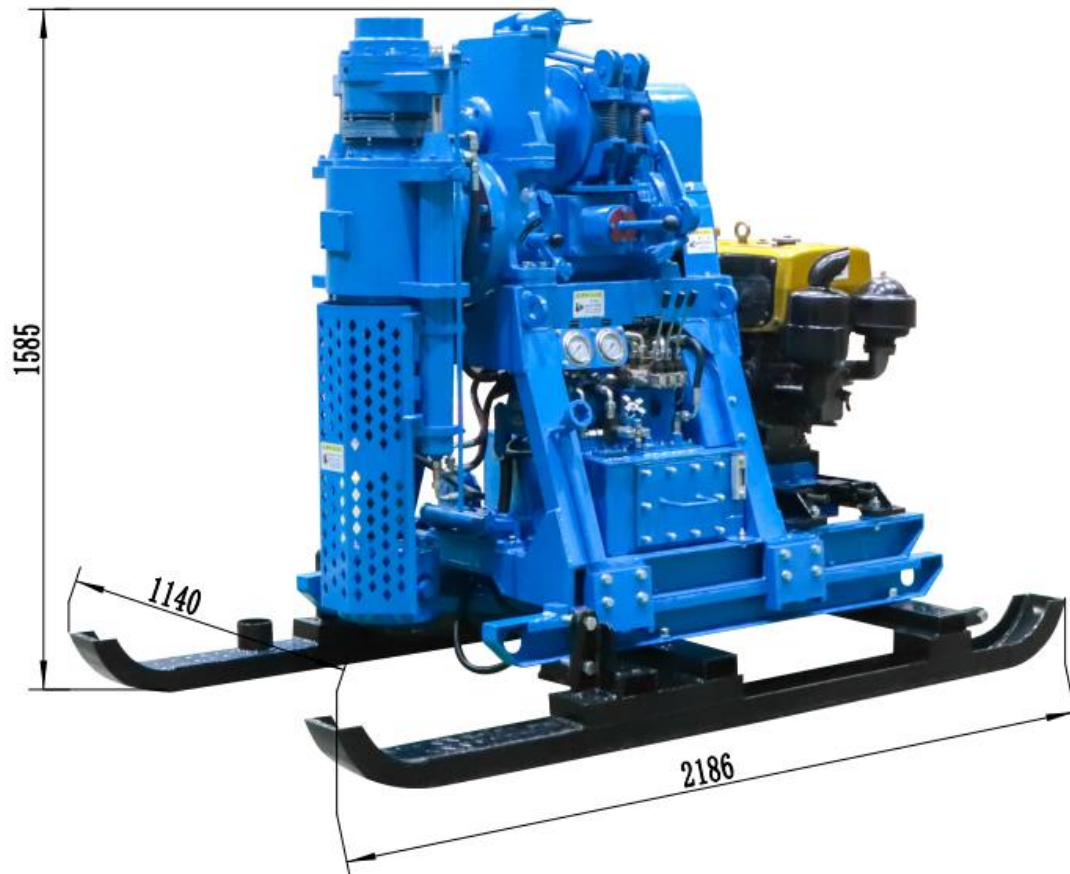
◆ Product Technical Sheet

Technical data		
Drill Head	Drilling Capacity	100m (NW Casing)
	Type	Spindle type, hydraulic feed
	Drilling Angle	360°
	Operation Side	(R) Right-Standard, (L) Left-Optional
	Spindle Bore	92mm(NW Casing)
	Feed Stroke	500mm
	Spindle Speed	91/340/524rpm, 77rpm (reverse)
	Spindle Torque	79/21/14kgf-m, 93kgf-m (reverse)
	Thrust	5,580kgf (at hydraulic pressure 105kg/cm ²)
	Chuck	Manual, 3-jaw type
	Main Clutch	Single plate, dry disc type

	Transmission	Sliding gear, 3 forward & 1 reverse
Hydraulics	Pump	Vane type, variable volume
	Delivery Capacity	25 litre/min. at 1,500 rpm
	Maximum Pressure	105kg/cm ²
Hoist	Type	Planetary gear, operated by over-centre cam hand lever
	Hoisting Capacity	1,500kg
	Rope Speed	17/65/101m/min. (average)
	Drum Capacity	Dia.10mm wire rope x 35m long (or Dia.12mm x 25m)
Retraction	Hydraulic	Slide 370mm
Power Unit	Condensing Diesel Engine	15HP at 2,400 rpm
	Motor	AC380V, 15kW
Mast	Type	4-pole, mounted on skid, with bracing at 3 levels
	Construction	Steel pipes Dia.60mm (front) and Dia.48mm (rear)
	Sheave Size	Dia. 280mm
	Weight (mast)	170kg
	Dimension (mast)	1,250mm W x 1,260mm L x 5,750mm H (Height taken from the ground to top of crown sheave)
Weight	With Skid & Engine H16	1300kg
Machine Dimension	W x L x H	1,140mm x 2,186mm x 1,585mm

◆ Dimension





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