

HXY-42T CORE DRILLING RIG

I . Application Scope

The HXY-42T core drill rig, integrated rig with tower into one unit, consists of XY-42 drill rig and mast-type drill tower, with the function of hydraulic lifting and lowering of tower. The rig is simple in structure, reasonable in design, light in weight, easy to operate; it is in a wide range adjusting angle. It is especially suitable for drilling of hole with great slope angle. The tower body of HXY-42T Drill Rig is used as lifting drill tools for drilling vertical as well as inclined holes. The range of adjusting angles (in clock-wise direction) for drilling inclined holes is 0°-90°.



II . Main Sizes

The Nominal Height of Tower	10 m (32.8 feet)
The Nominal Area of Base	4×4 m (13.1×13.1 feet)
The Number of Pulleys	3 or 5 pcs
Max. Load of Mast	100 KN(22480 lbf)
The Load of Movable Work	80Kg (176.4 lb)

Platform	
Adjusted Angles of Drill Tower	45°—90°

III. Main Components

The drill tower consists of base, tower body, crown block (pulley mechanism), platform and auxiliary support.

IV. Main Characteristics

The drill tower is pyramid-mast type. Being light in overall weight, single component being light and limited in disassembly quantity, the tower is convenient for transportation and installation. The tower has its own crown block convenient for ground installation. When the rig is moved back during operation, the tower can be inclined to make up the moved-back distance so as to guarantee the central line between the centers of the hole and pulley. The tower can be adjusted in clock-wise direction for drilling inclined holes. The adjustment is convenient for making and wide in adjusting range. It is suitable for drilling large-angle hole.

V. Specifications

Drilling Depth	700—1100 m (2296-3608 feet)
Max. Torque	3.2 KN·m(2358 lbf·ft)
Spindle Stroke	600 mm (23.62 inch)
I.D of Spindle	92 mm(3.62 inch)

Max. Lifting Capacity of Spindle	80 KN(17984 lbf)
Max. Pressure Force of Spindle	60 KN(13488 lbf)
Max. Hoisting Force	30 KN(6744 lbf)
Engine Power	30 KW(40HP)