

Advantage

- >> 0-60m depth drilling capacity
- >> 70-165mm hole range
- >> Rotation torque:1500N.M
- >> 16Hp 2Cylinder Engine
- >> 20Hp Electric Motor(Optional)
- >> Eaton hydraulic motor(USA brand)
- >> Imported Hydraulic Valve

AK60

DEPTH HOLE ANCHOR DRILLING RIG 深孔锚固钻机

» INTRODUCTION产品介绍

>> AK60 construction drilling rig is a full hydraulic operated top drive power head drilling machine. It is used to drill soil nail grouting, heavy duty pretension anchor holes at side slope of water power station, railway or highway construction projects, as well as drainage holes. It also used to prevent or solve geologic calamity, such as landslide and rock collapse etc. In addition, it is also used for drilling small size water wells and high-pressure jet grouting holes.

>> AK60 has been already widely export to Russia, Colombia, Chile, Malaysia, Brazil and so on. It has also become the first priority machine for medium-duty anchoring-reinforcing projects in China.

>> It can be used with various drilling method such as carbide bit drilling, anger drilling, DTH hammer drilling, follow-up casing drilling etc.

>> It has great drilling capability, wide range of application, rapid drilling speed and high drilling efficiency, as well as powerful ability of eliminating accident.

» CHARACTERISTICS产品特点

>> AK60' structure is separate unit design, it assures good disassembly, rapid and convenient mount and transport, best working environment and lower labor strength as well as remote control and operation.

>> The drilling angle can be regulate 0-90°. It can increase the hole inclination angle range and drill elevation angle hole, while setting the top drive head and hole top plate toward the opposite direction.

>> A set of front-mounted adjustable columns on drill frame is used for adjusting height of mast front-end, which makes it easy to align with hole site.

>> Mast can be fixed on staging immediately without drill frame with auxiliary parts (horizontal axle and buckles), which makes it possible for greatly reduce the machine weight and fastener transport.

Characteristics

产品特点

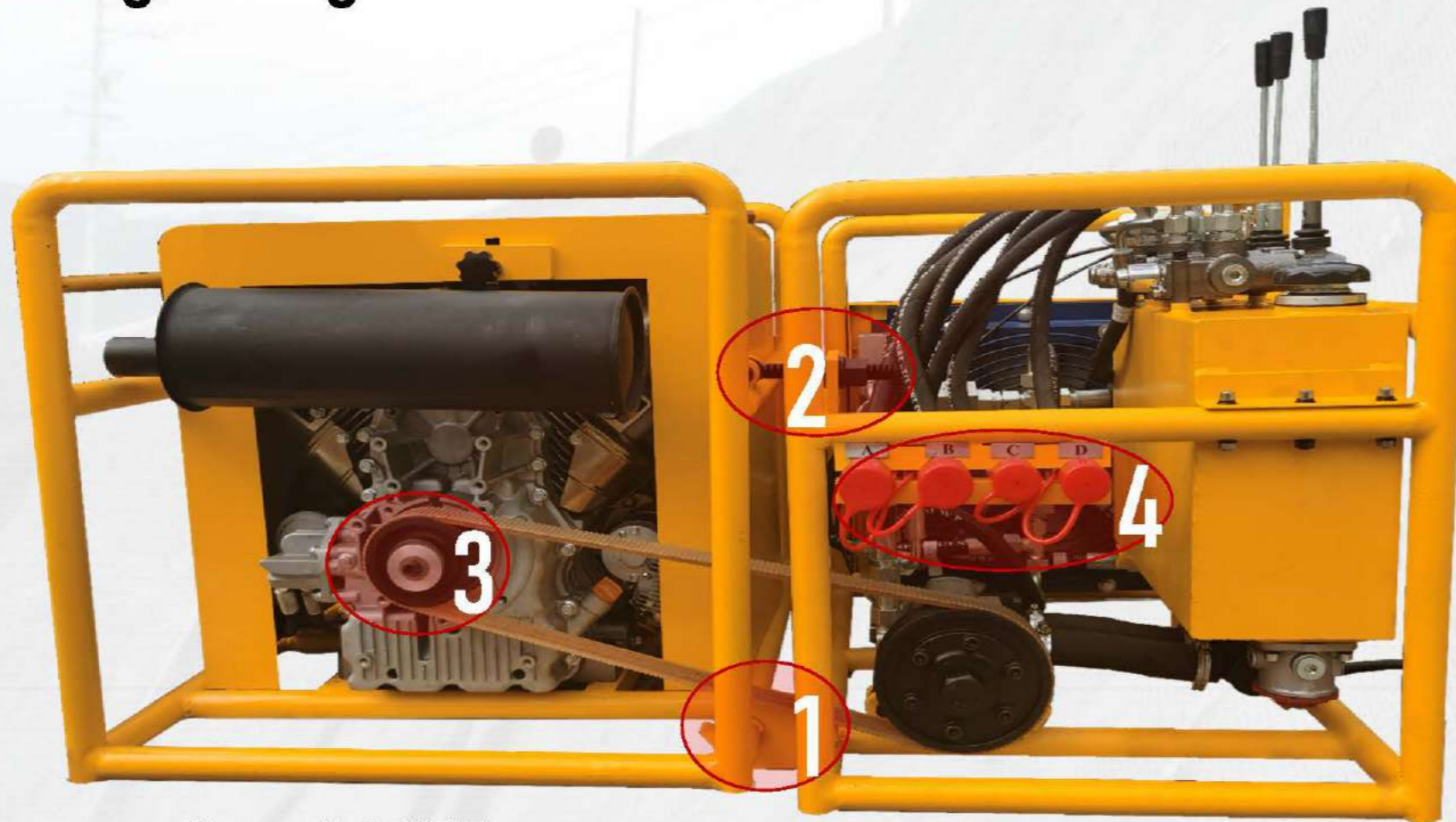
- >> The imported hydraulic Valve, USA Eaton hydraulic motor, other main assembly preferentially selected home made reputed and high quality products ensure its stable running performance, reliable product quality and long service life. It has good interchangeability due to the high grade of standardization and seriesization of wearing parts.
- >> Full hydraulic drive and operation, stepless shift, simple operation, convenient maintenance and few wearing parts.
- >> The mast could working in different angle, guide have a extention system, which ensure the guide could moving toward the drilling surface, to keep the balance of the guide.

Specification 技术参数

Specification	Unit	AK60
Drilling Specification		
Rock Hardness		F=6-20
Operation Type	Hydraulic	
Drilling depth	m	0-60
Drilling diameter	mm	70-165
Drill rod Length	mm	1500
Drill rod diameter		60/76/89
Drilling angle		0 ~ 90 °
Rotary Head		
Rotation Speed	Rpm	5-80
Rotation Torque	Nm	1500
Feeding System		
Feed Stroke	mm	1800
Max. Pull Back Force	Kn	40
Max. Feed Force	Kn	15
Power (Electric motor or Diesel Engine)		
Electric Rated Power	Hp	16
Engine Type		2 Cylinder, air cooling
Engine Brand		KIPOR
Rated Power	Kw	12
Hydraulic pump		
Type		3 Stage, gear pump
Flow rate	KW	16/12/5L/min
Working pressure	Mpa	16
Air Compressor Demand		
Air Consumption	M ³ /min	11.3-21
Working Pressure		1.4-2.4
Compressor Type		Rotary Screw/Movable
Dimension		
Mast Dimension	mm	3400 × 1000 × 1500 (mm)
Power Unit weight	Kgs	120Kg
Hydraulic Unit weight	Kgs	100Kg
Mast Unit Weight	Kgs	57+37+52+60+14=218Kg



>> 4Step Assembly&Disassembly to change weight



Power Unit:120Kgs

Hydraulic Unit:100Kgs



1. Seat Connection

Power unit to Hydraulic unit



2. Top Connection

Power unit to Hydraulic unit

3. Belt Connection

Engine to Hydraulic Pump



4. Hose Connection

Hydraulic unit to feed Cylinder and rotary motor by fast fitting



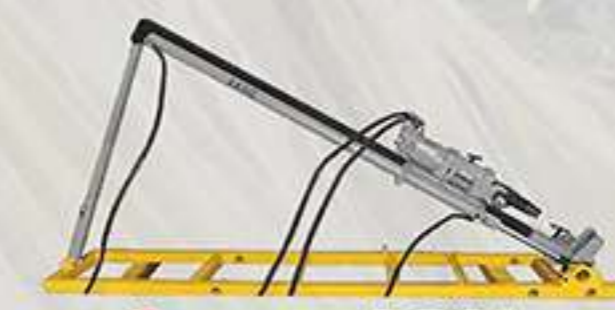


Drilling Angle:0-90°

**Fast Disassembly
to reduce weight**
--Mast Unit



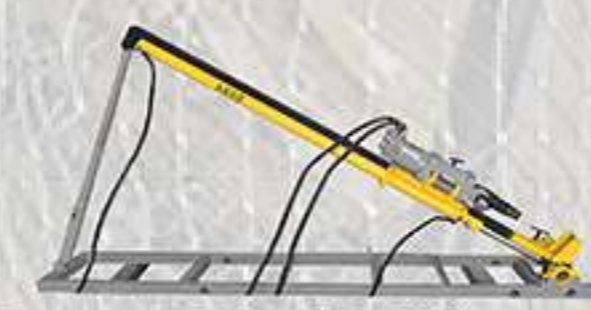
Brace Rod:14Kgs



Frame Seat:60Kgs



Rotray Head:52Kgs



Mast&Cylinder:57+37Kgs

**Assembly Weight
218Kg**

DTH Drilling Know How

Down-the-hole drilling (DTH) essentially involves a drilling hammer at the bottom of a drill string. It relies on three elements for drilling holes: bit loading (weight), rotation and air. These active elements combine to be efficient at crushing rock. As the drill string slowly rotates, the drilling hammer is forced into the rock repeatedly. Striking power is provided by compressed air driving a piston inside the hammer.

Where is it used?

DTH drilling is often used in the mining industry (blast hole drilling), on construction sites, drilling water wells, and in the oil and gas industry.

DTH advantages

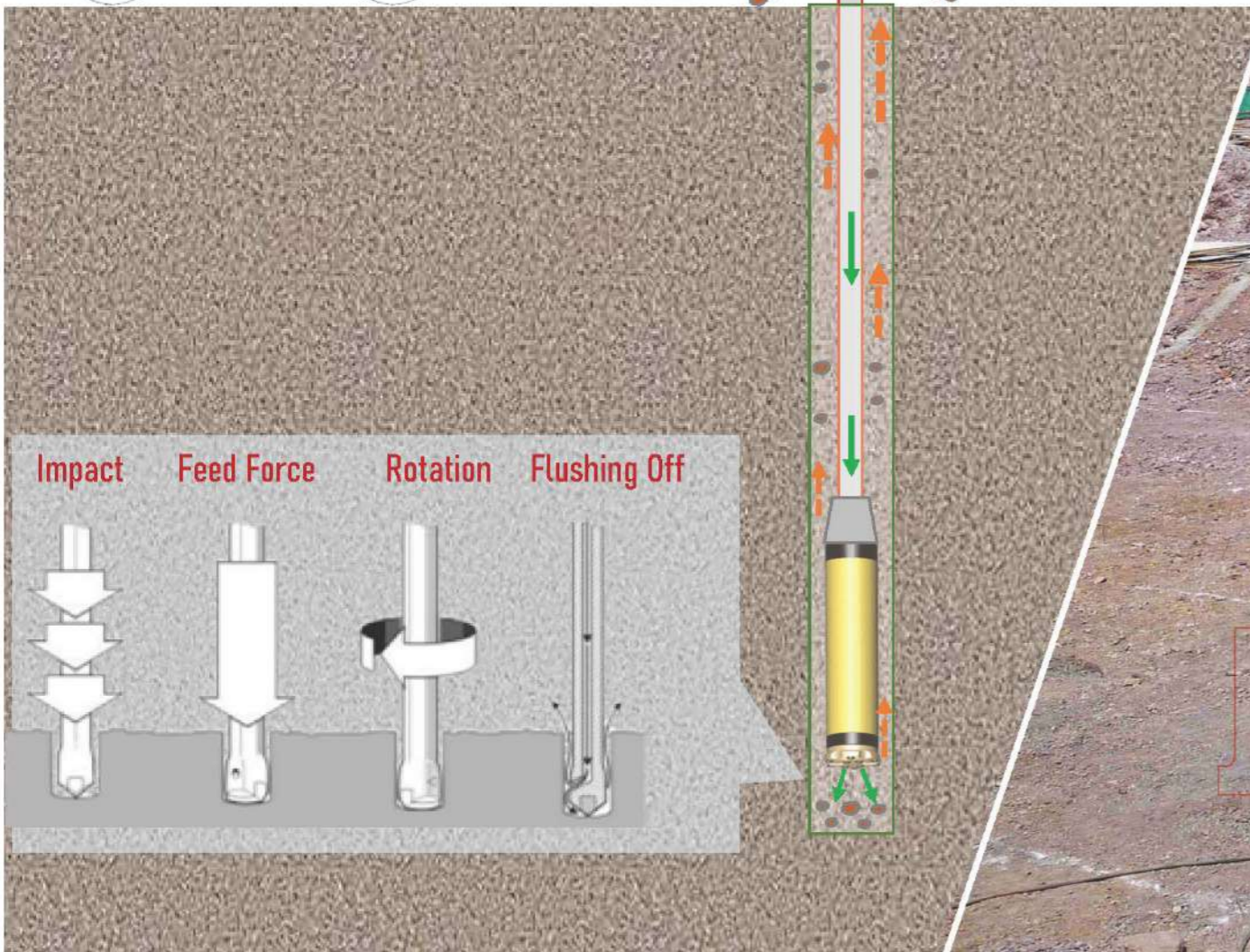
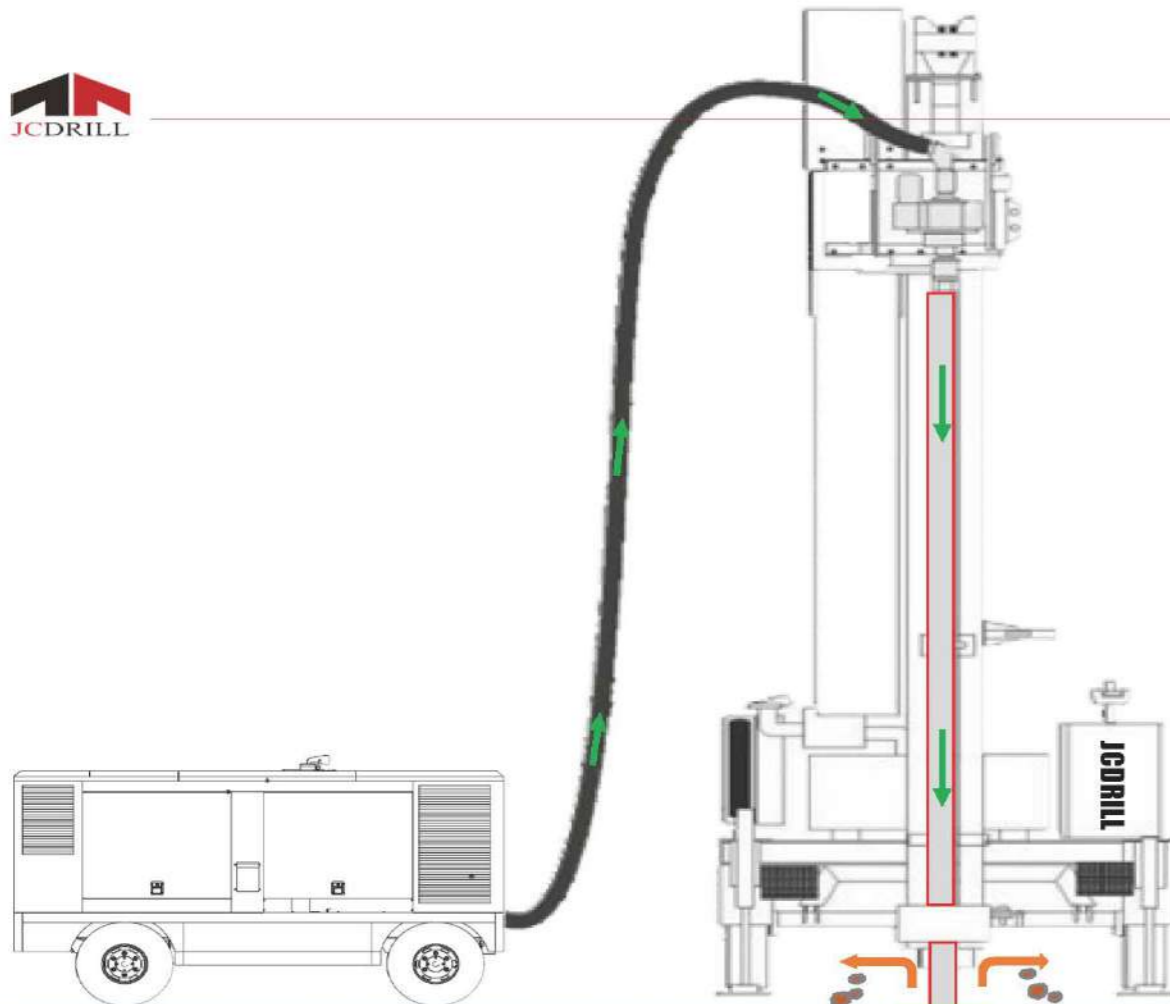
DTH drilling offers several advantages over top-hammer drilling for larger, deeper holes in medium-hard formations. Because the hammer is at the bottom of the hole, power loss is minimal as the hole deepens. That means energy is not lost in the drill string and penetration rates do not markedly decline with depth—provided that back pressure does not rise significantly in the borehole.

Compressed air power

The DTH hammer is pneumatically powered, with the compressed air propelling it forward to impact and fracture rock. Compressed air also travels through the drill bit into the hole (air exhaust), which blows the chips and dust out of the hole.

Quieter drilling

From environmental and social perspectives, DTH is a good option because it produces much less noise and vibration than many other drilling methods.



Hard Formation



JCDRILL



Contact Us 联系我们

BEIJING JINCHENG MINING TECHNOLOGY CO., LTD

Add: Rm1407, Building A, NO. 13 Beiyuan Road, Chaoyang, Beijing, China

Mob: 0086 13810203890

Tel: 0086 10 84673566

Fax: 0086 10 51617069

Email: sales@jcdrill.com

Web: www.jcdrill.com

WhatsApp/Viber/Wechat: +8613810203890



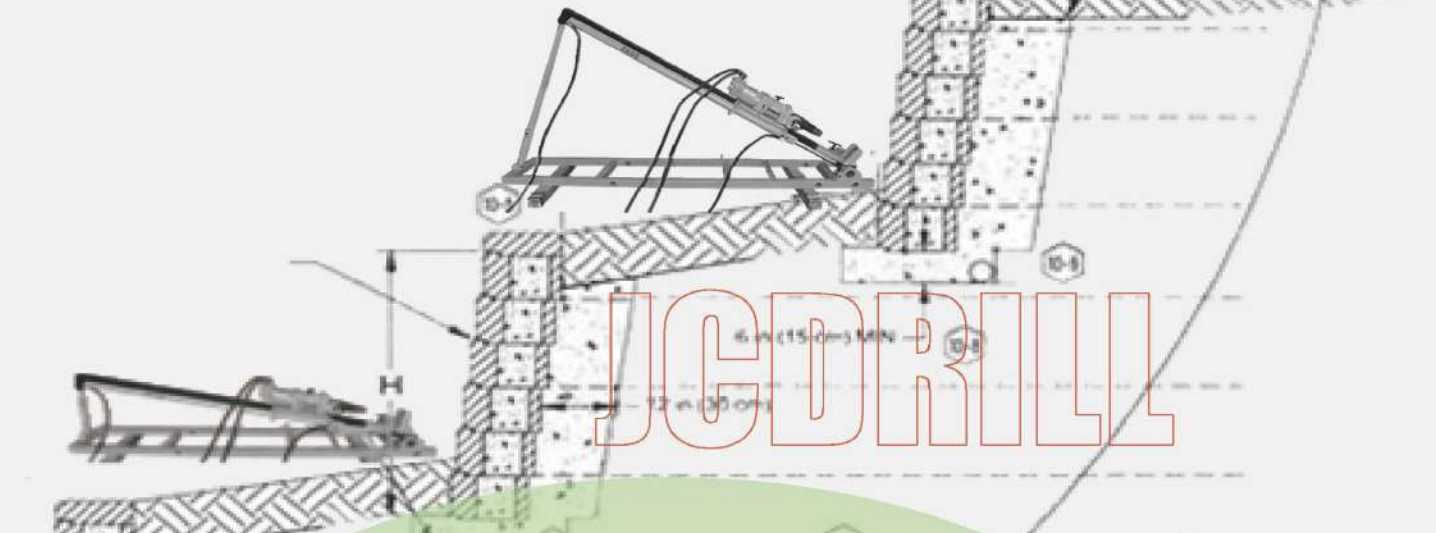
WECHAT



WHATSAPP



You Know? I can assembly and disassembly the drilling unit within 5mins, the heaviest structure only 60kgs!



You Know? With AK60 we didn't need lift the power unit and Hydraulic unit on to 40m hill, just connect by hydraulic hose.

