

## TST-30B Tractor Drilling Rig



TST-T30B tractor drilling rig is a new kind of prospecting drilling rig. Take-off power from tractor engine to drive drilling rig working. This tractor drilling rig overcomes the deficiency of crawler rig's bulkiness and truck rig's poor adaptability. So it has the advantages of flexibility and adaptability to complicate stratum. Equipped with air compressor group or mud pump with hydraulic driving, the rig can carry out air drilling, hammer drilling, mud drilling and auger drilling many function. With high cost performance, the tractor rig provide complete methods when drilling at field.

Easy operation, flexible action and convenient movement make the rig meet the QHSE standard of domestic and abroad prospecting. It has broad application as jungle, farm, mountain, hill etc. Especially it applies in drilling shallow hole at water shortage area in north of China.

Features:

- Hydraulic ststem uses load induction variable system with high output parameter. It can reduce the heating of system, and system has high efficiency.
- Hydraulic auxiliary system's whole load uses tractor's engine.
- Lifting of mast, rotating of drilling tools, pull-down and pull-up of

drilling and mud pump adopt hydraulic control system. So it easy to operate, save time and save labour. Reliability is high.

- About shallow hole drilling, the displacement of hydraulic driving mud pump is 200L/min, and max lift is 50 meters.
- Using diesel oil piston type air compressor, the rig can drill 40 meters depth.
- Free travel of drilling rig is 2.9 meters, drilling pipe length: 2.5meter. Equiped with patented drilling pipe overturning frame, so it is easy to control.
- Prepared with hydraulic outrigger, the rig can be applied in all kinds of complicate stratum. And the stability is high.
- With suitable structure, tight construction, and safety warning sign and defence device, the rig meet the requirement of QHSE.

一、 Main technique parameters:

Depth	40m	
Method	Mud drilling or air and hammer drilling	
Diameter	75 mm/90mm	
Drilling pipe (Dia*Length)	Drilling pipe: $\phi 60 \times 2500$ mm	
DTH hammer	CIR75,	
Drilling bit	Drilling bit (air, mud): 3",3.5"	
Power swivel	Output torque	915 /1150N.m
	Output rev.	0~285/227r/min
Hydraulic system	Rotate/pull-up/pull-down/Asistant	20/20/16 MPa
Pull-down and pull-up system	Rated pull-up force	18.5kN
	Max lifting speed of drilling pipe	1 m/s
Output power of chassis	29.4kW/2200r/min	
Air compressor group	Power	16.5 kW/ 2200r/min
	Displacement	3 m <sup>3</sup> /min
	Pressure	7 bar
Mud pump	Displacement	200 L/min
	Lift	50 m