

TY-550

Double Stage Energy-saving Screw Air Compressor

1



Diesel engine

■ Cummins diesel engine, power 132kW, displacement5.9L; Yuchai diesel engine, 140KW power, displacement 6.5L; The whole series of engines meet the China national Stage-III emission standards, with reliable and stable quality and convenient maintenance.

2



Double stage screw main engine

■ KAPP-RX-120 screw grinder imported from Germany

■ Large rotor, low speed

■ Low pressure ratio, high efficiency

■ Energy saving and reliable

7



Air filter

With safety filter element, more effective protection of the main engine and engine in dusty environment.

8



Oil-gas separator

Adopt the best flow rate and structure design, small oil content, easy maintenance.

3



High pressure filter

Large flow, small volume, automatic drainage is more convenient.  
Effectively filter condensate water in control pipeline, more efficient and sensitive control.

4



Radiator

The structure of side entry and exit is more convenient for installation and maintenance.  
The aluminum plate fin increases the heat exchange area with the air and effectively improves the cooling effect.

5



Fuel filter

The full series comes standard with dual fuel filters, which effectively reduces the occurrence of high-pressure fuel pump failures and prolongs the service life of the engine.

6



Microcomputer controller

Push-button operation, large screen display, simple and clear, accurate detection and display of diesel engine speed, oil pressure, water temperature, tank level, exhaust pressure, temperature, etc., at the same time with automatic alarm, stop function.

9



Flexible coupling

High elasticity, strong ability to absorb shock and vibration  
Compact structure, easy installation, maintenance - free  
In axial transmission, axial and angular direction have good compensation ability.

11



Concentrated Exhaust

All liquid is concentrated in the tail of the machine to discharge, adding ball valve, saving the time of daily maintenance.

10



Control panel

The operation panel is simple, the operation status of each instrument fault alarm lamp is clear.

12



Intake valve

Integrate the functions of reverse check and proportional adjustment, no consumable parts, more energy saving and reliable.



Elaborate design for customers, to achieve more engenry-saving effect, fuel saving up to 30%!!

TY-550 technical parameters

Model		TY-550C	TY-550Y	
Main compressor	Brand	BOSS two-stage		
Volume flow	m³/min	13		
Exhaust pressure	bar	17	18	
Engine	Brand	Cummins	Yuchai	
Gas displacement	L	5.9	6.5	
Emission standard	Standard	National Stage-III		
Diesel engine rated power	KW/HP	132/180	140/190	
Diesel engine rated rotary speed	rpm	2200		
System voltage	V	24		
Fuel tank capacity	L	180		
Diesel engine coolant temperature	℃	<104		
Discharge temperature of compressor	℃	<120		
Thread connection	Inch	1-G1" 1-G11/2"		
Weight	Kg	2700		
Dimension	Length	mm	3505	3500
	Width	mm	1950	2060
	Height	mm	2190	2200
Walking system	Speed limit	Two-wheeled Speed limit 20 km/h		

TAIYE-360-DTH technical parameters

Model	TAIYE-360/360A-DTH	Pushing/Pulling force (N)	20000
Economic hole diameter (mm)	90-120	Pushing/Pulling speed (m/s)	0.4-0.81
Hole diameter range (mm)	90-152	Walking speed (Km/h)	1.5-3
Hole depth (m)	40	Carriage swing (On right side) (°)	Right 4 / Left 92
Drill rod size (mm)	76X3000/60X3000	Carriage swing (On left side) (°)	Right 35 / Left 53
Recommended impactor configuration	3.5" /4"	Carriage pitching (°)	180
Usable impactor	3.5" /4" /5"	Boom swing (°)	Right/Left 45
Working pressure (Mpa)	1.38-2.46	Boom pitching (°)	Up 60 / Down 25
Feed stroke (mm)	3860	Body floating (°)	± 7.5
Feed (mm)	3550	Gradeability (°)	35
Min height of horizontal hole (mm)	528	Ground clearance (mm)	435
Max height of horizontal hole (mm)	3565	Engine manufacturer	Guangxi Yuchai Co., Ltd
Length of carriage (mm)	5850	Engine power (kw)	56
Compensation Length (mm)	1000	Engine power (L)	200
Dust cover stroke (mm)	300	Dust removal type	Dry(12 filter/16 filter) or Wet optional
Rotary torque (N.M)	1970	Dimension (mm)	6900X2186X2300 (Without dust removal)
Rotary speed (RPM)	0-110	Weight (KG)	6500





# TAIYE DRILL

## TAIYE-360/360A-DTH

### Crawler hydraulic down-the-hole drilling rig

TAIYE-360 is an economical drill produced by TAIYE DRILL. It is suitable for drilling holes in open pit mines and quarries, as well as projects of hydropower, building materials, metallurgy and earthwork. This machine uses diesel engine to drive the hydraulic system to realize the movement of the drill and dust removal functions. The air compressor supplies the impactor with high air pressure to complete the perforation and drilling.

This machine adopts the 56KW engine of Yuchai. When the drill is started and the dust removal is turned on, the peak torque is reached at the rotational speed of 1500rpm, which can reduce the loss of energy consumption and complete the drilling operation with both fuel saving and high efficiency.

TAIYE-360 follows the excellent process quality of TAIYE-370, which is solid and durable. It should be the best choice of customer for drilling with low investment and high efficiency.



#### ● Dust removal system

Dust collector adopts pulse jet dust removal technology, strong dust removal ability, high dust removal efficiency, low emission concentration, low air leakage rate, less energy consumption, stable and reliable operation, protect the health of operators. With high quality filter material, ensure the efficiency and service life of dust removal.



● *Economic hole range 90-120mm*

● *Cover hole range 90-152mm*

● *Optional ultra-low horizontal drilling*

● *Reduce overall project cost*



#### ● Carriage and Boom

The carriage is inclined 20° , which is convenient for operators to observe the drilling situation, improve the drilling accuracy, and prevent accidental injury when connecting and unloading the rod. Strong manipulator and cylinder are connected by locking pin shaft, which can prevent rotation and axial movement of the pin shaft in the connection of components.



#### ● Walking system

The machine has low center of gravity, single machine climbing ability up to 35° . Walking motor output is stable, with brake valve and mechanical brake, braking sensitivity is high. The ground clearance of chassis is 435mm, perform well in the face of rugged ground.



#### ● Hydraulic pump

The power system matches the cast iron gear pump for sustainable operation. The compressive strength is 25Mpa, which ensures that the actuator of the drill is powerful and provides stable oil pressure for each actuator. With pressure adjustable system to improve efficiency and ensure reliable work performance.

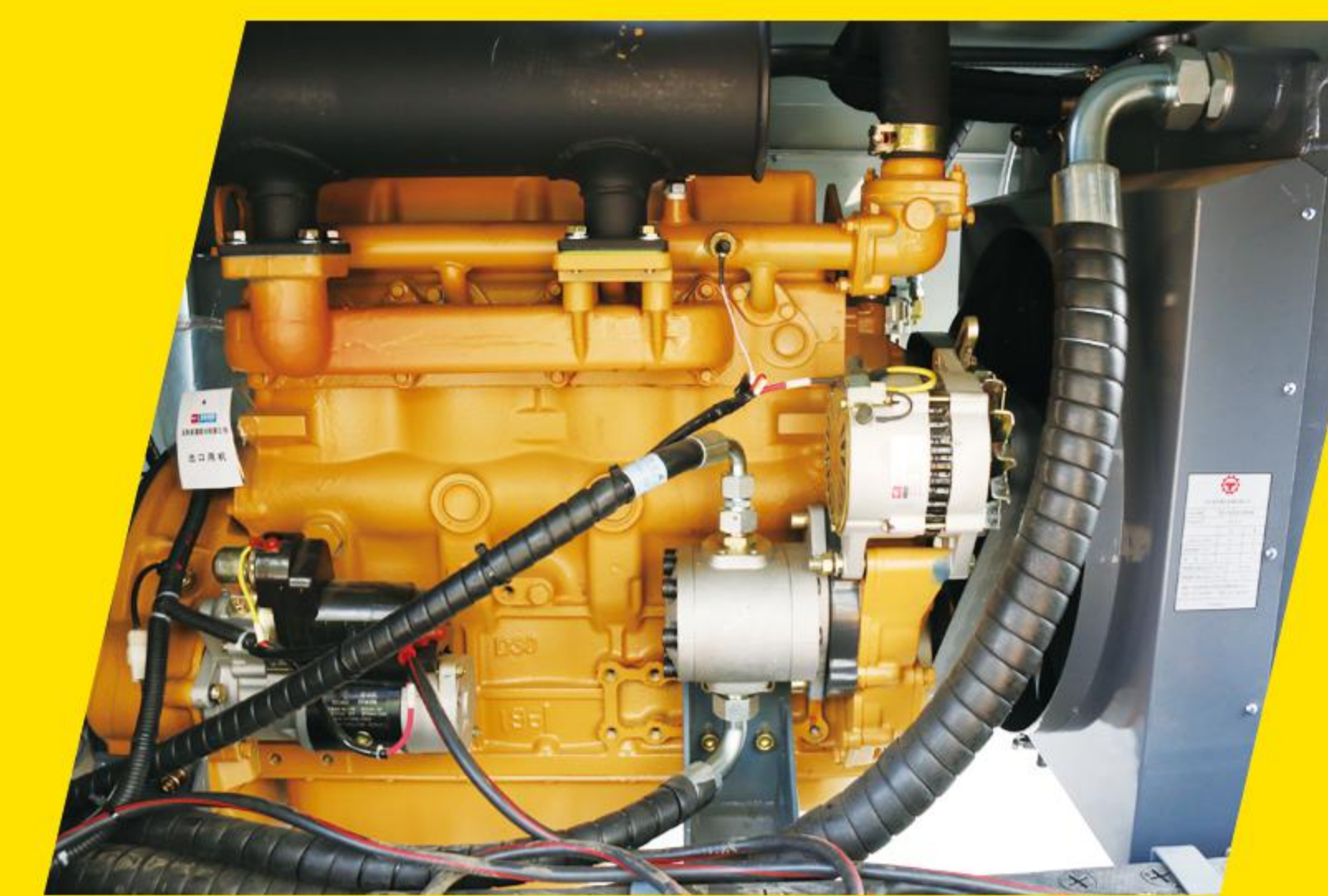


#### ● Rotary reducer

Straight gear reducer, low temperature, high load, long service life; Rotation speed can be adjusted according to rock hardness; Rotating head with Eaton hydraulic motor, work stability; It is standard to install a reinforced shock absorbing joint to reduce the impact reaction force of drilling to damage the rotary reducer.

#### ● Engine

Standard configuration of Yuchai engine, durable, simple maintenance and low cost, Yuchai customer service center has a quick response and active tracking service; The cooling system adopts oil-water composite radiator, which can guarantee the engine and hydraulic system to work normally under all kinds of bad working conditions.



#### ● Air intake system

The maintenance-free automatic air filter of the engine intake system can automatically spray dust when the power of the rig is turned off, so as to ensure the engine has clean air at all times to improve the service life of the engine and save manual cleaning of the filter element.



#### ● Console

The working height of the machine is 1600mm, the machine is safe to move. The walking valve can swing between 0-90° , in order to clearly observe the moving state, according to the working condition to choose the operating angle, to prevent traction accident; Comfortable and ergonomic layout of the operation platform, can realize the centralized control of multiple execution structures, operation valve is sensitive and accurate.



#### ● Lifting reducer

Adopt advanced end face hydraulic motor with flow distribution, shaft seal design, superior high backside bearing capacity to ensure strong short-term overload capacity, large output torque, reliable braking, fast lifting speed, and reduce rod changing time.

