



GIA Q6

Fully hydraulic down-the-hole
open-pit drilling rig
Hole diameter range: 90-165mm



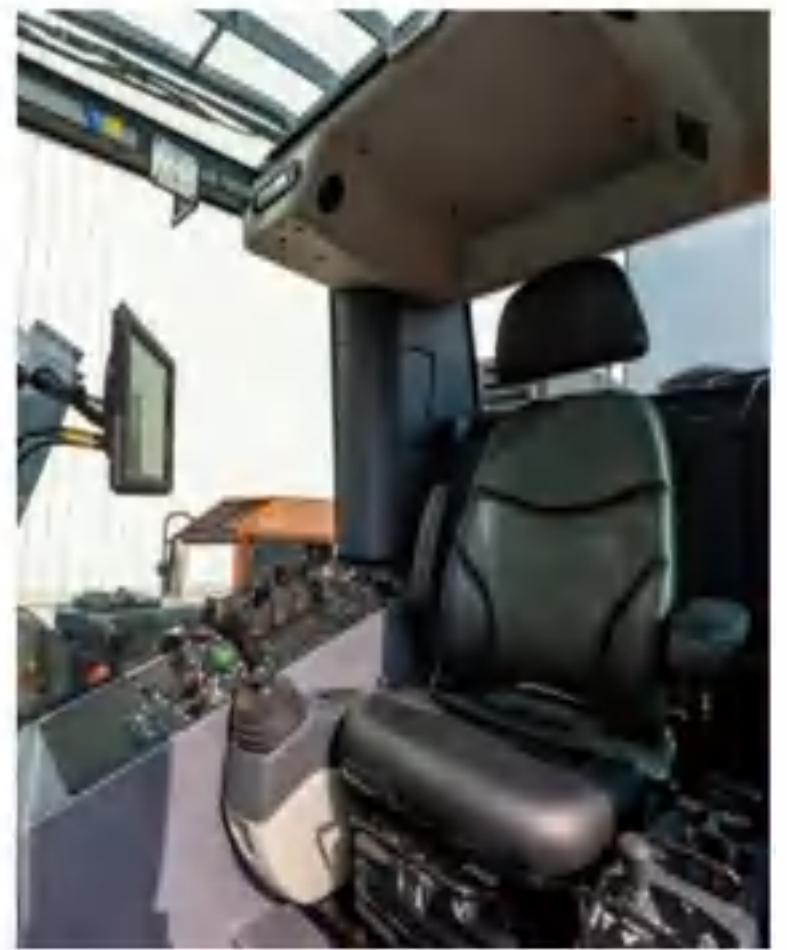
A stable, reliable, powerful, efficient rock drilling tool with a quick return on investment.



+Stable and Reliable

The GIA Q6 fully hydraulic open-pit down-the-hole drill rig inherits Epiroc's advanced rock drilling technology and, combined with the needs of the Chinese customer market, has been further improved and upgraded based on Epiroc's stable, classic, and time-tested design.

- The proven Epiroc technology shared platform design concept delivers consistently stable performance.
- The proven enhanced structural platform provides a longer service life.



+Powerful and Efficient

The Q6 prioritizes cost-effectiveness in its design, ensuring high drilling efficiency while maintaining high safety and low fuel consumption.

Equipped with a powerful engine, a two-stage screw air compressor, and a high-torque dual-motor rotary head, this drill is a powerful tool for rock drilling in hole diameters of 90mm-165mm.

- Equipped with a 307KW National IV engine
- Equipped with a 197m³/min@25bar two-stage screw air compressor
- Utilizes a high-torque dual-motor rotary head
- Employs an energy-saving variable pump hydraulic system



+Safety and Environmental Protection

- Rollover-proof and rockfall-proof certified cab provides a safe operating environment for operators.
- Excellent visibility for the cobalt-hole controls and a well-designed layout of the control handles enhance ease and comfort of operation.
- Movable dust hood with a steel-sleeved dust sealing ring provides excellent dust suppression, creating a clean operating environment for operators and effectively protecting the surrounding environment.



+Convenient Maintenance

- Centralized maintenance and repair platforms are located on both sides of the drilling rig, allowing service personnel to easily access almost all maintenance and repair points from the ground.
- The screen integrates circuit diagnostic functions, and the pipeline layout is clear and neat, facilitating fault diagnosis and troubleshooting.

Aperture range and method

Drilling method	Downhole
Hole diameter range	90mm-152mm
Optimal suitable hole diameter	165mm
Impactor	Suitable for 3.5"-6" impactors
Drill rod size	89mm

Hydraulic system

Hydraulic oil tank capacity	350L
Hydraulic system total volume	450L
oil filter accuracy	10 µm
hydraulic oil filling	Manual
air compressor oil level	63L
air circuit heating element	Optional
hole depth/cobalt hole angle	Standard drilling angle display
lubricating oil tank volume	20L

Slewing system

Rotary head	DRU5
Maximum torque of rotary head	3400Nm
Maximum speed of rotary head	128rpm

Detailed Configuration and Parameters of Powertrain System

Engine Brand	Yck11
Engine Power	3074kW@1900 rpm
Emission Standard	National IV
Fuel Tank Capacity (L)	500L
Refueling System	Manual
Urea Tank Capacity	38.5L
Urea Tank Type	plastic
Engine Oil Capacity	35L
Engine Coolant Capacity	60L
Engine Preheating	Optional
Air Compressor Brand	Jiuyi
Air Compressor Model	GE810AVII
Pressure and Airflow	19.7m ³ /min @ 25 bar
Air Compressor Filter	Two-stage filter

Dust removal system

Dust removal pressure	7bar
Water mist system	Optional (2×150L unpressurized type)
Infinitely adjustable water	Standard
Dust collection system filtration area	28m ²
Number of filter elements	20
suction	850L / s

Shipping dimensions

Shipping dimensions	H3450×L9250×W2500mm
Weight	16600 kg



Technical parameters

Optional

Propulsion system

Propulsion beam material	High-strength steel beams
Driver type	Propulsion motor and chain drive
Drill pipe magazine	RHS89
Helper stroke	60mm
Thrust force	24kN
Pull-out force	30kN
Thrust beam extension stroke	1400mm
Thrust speed	0.95m/s
Total thrust beam length	7560
Thrust stroke	4684
Initial maximum drill pipe length	4.3m
Single rod drilling depth	4.3m
Drill pipe type	D89
Maximum number of drill pipes	6
Maximum hole depth	28.3m
Boom type	High-intensity single arm
Boom left and right swing angle	22(left)/30(right)
Thrust beam left and right swing angle (standard)	-17-92
Thrust beam left and right swing angle (adjustable)	-1-90
Vertical opening range	710mm(Above ground)/2398mm(Below ground)
Horizontal opening range	245mm/3725mm

driver's cab

Seats	Position and height adjustable
Air conditioning system	Hot and cold type
Cabin vibration control	<0.5m /s ²
Cabin noise reduction	<80dB(A)
Rollover protection	Standard
Falling object protection	Standard
Work lights	Standard
Interior lights	Standard
Emergency escape hatches	Standard
Fire extinguishers	Standard
Drill rig tilt indicator	Standard
Drive system type	track
Track type	Standard three-tooth
Gear oil level	2.2L
Hood type	Fully enclosed
Hood material	steel
Vehicle voltage	24 VDC
Battery	2 x 12V, 180 Ah 28 V.
Generator	120 Ah
Front work lights	3 x 70W
Rear work lights	1 x 70 W
Propeller beam work lights	2 x 70 W
Ground clearance	350mm
Travel speed	1.6/4.3km/h
Traction force	90.5kN
Front and rear climbing ability	20
Lateral climbing ability	(20 in CE)



Drilling Applications

- Coal Scraper Applications
- 115mm Diameter Drill Rod Processing System with 76mm Drill
- Rod Storage System 41.5m 89mm Drill Rod

Safety Features

- Reversing camera
- Audio and visual alarm

Operational optimization

- Centralized lubrication
- Hydraulic oils of grades 32, 46, and 68

Environmentally friendly features:

- Water mist system, equipped with a water pump and a 150L/150L water tank

Desert Applications

- Cab 90-degree door closing buffer and door opening power cut-off for air conditioning

Applications in cold climates

- Low-temperature cold start devices (engine heating and air compressor control air circuit heating)

Additional battery

- Backflush fan

Digital Automation

- TigData Management Platform
- Refined Cobalt Pore System

