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Your satisfaction is our eternal pursuit !

# Professional Leading supplier of
# Air compressors
# Drilling rigs



## KEREX GROUP CO., LTD

# ABOUT US

KEREX GROUP CO., LTD. is a leading professional equipment manufacturer specializing in various air compressors, drilling machines, generators, and other related products.

Having experienced significant growth, KEREX has become one of China's premier large-scale manufacturers of air compressors, drilling machinery, and generator sets. Our products are exported to America, the Middle East, Africa, and Asia, earning KEREX a high reputation both domestically and internationally.

KEREX consistently adheres to the business philosophy of "creating brand credibility through high quality and professional service." We always focus on customer requirements, continuously incorporate valuable feedback from users, and actively promote innovation to achieve excellent performance. All our products have obtained ISO9001 certification and have passed domestic quality evaluations.

KEREX aims to become a globally recognized brand.

# WORKSHOP









Kerex

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# WORKSHOP









# WORKSITE



GCXU 100550 3

HUAWEI Mate 20
LEICA TRIPLE CAMERA | AI














KC726D



KG510-13

SL600S



KC726
Kerex




# KB1
## INTEGRATED DTH DRILLING RIG

**Recommended hole range:80-115mm**

The KB1 Integrated DTH Rig is a compact and mobile air compressor that combines a down-the-hole drill rig and a mobile air compressor. Flexible , easy to shift and transition . The drilling rig is equipped with two-stage dry dust removal , which has excellent effect on resisting dust emissions . It is mainly used in open-pit projects such as ore and limestone mining and road engineering construction .

On the basis of KB1 , the KB1C propelled beam is upgraded from rigid material to aluminum alloy and the guide rail is equipped with an automatic rod change system . Realize single-person operation , greatly reduce labor intensity, become straighter, and increase the comprehensive perforation rate by about 15%

## KB1 Main Technical Specifications

| | |
|---|---|
| **Drilling Range** | |
| Hole Depth | 30m |
| Drill Rod | 60x3000 mm |
| Hole Diameter Range | 80-115mm |
| **Diesel Engine** | |
| Diesel Engine Brand | Yuchai |
| Engine Model | YC6J190-T303 |
| Engine Rated Power | 140kw |
| **Air Compressor** | |
| Free Air Delivery | 13.5 $m^3$/min |
| Working Pressure | 16 bar |
| **Rotary Head** | |
| Rotary Torque | 1500 Nm |
| Electrical Voltage | 24 V |

| | |
|---|---|
| **Feed Beam** | |
| Feed Type | Cylinder/Chain |
| Feed Travel Length | 3700mm |
| Feed Extension | 1000 mm |
| Max . Feed Force | 12 kN |
| Max . Pull Up Force | 18 kN |
| **Tramming Mechanism** | |
| Tramming Speed | 1.6 - 2.9 km/h |
| Gradient | 25 ° |
| Track Oscillation | ±10° |
| **Dimensions and Weight** | |
| Weight | 8500kg |
| Dimensions ( L*W* H ) | 5200×1800×2800mm |



### Feed Beam Unit

With the cooperation of oil .cylinder and chain,the propulsion is more stable and powerful

### Tramming Mechanism

- The dual-speed detachable hydraulic tramming mechanism is adopted to be braked detachably and move the whole machine in case of emergency.
- Track oscillation for better tramming and cross terrain performance

### Boom and Feed Beam

The drilling boom and bracket adopt high-strength connectors,which is firm and reliable

### Rotary Unit

Equipped with powerful rotary head, large torque,fast rotation speed,more stable and reliable,capable to all kinds of working condition .

### Hydraulic Dust Collector

- Standard two-stage dry dust collector with high speed fan for larger filter area .
- Movable dust hood for convenient observation

### Power System

- Yuchai diesel engine is equipped to meet the EU stage IIIA emission standard.
- Air compressor of high air pressure and large displacement is equipped , high energy efficient

### Operation Console

- Dirtect-control hydraulic system design ,simple and practical , low failure rate .
- High integration of instrument display real-time monitoring of instrument display.
- With a number of fault alarms,intuitive and simple





### KB1C Parameter Upgrade

**Aluminum alloy guide rails**

- Automatic rod change system
- Operate too torsion action to complete the mechanical rod operation

Drill range

Automatic rod changer driling depth ····· 18m

Push beams

Propulsion beam material ····· Aluminum alloy

Advance the stroke ····· 3200mma

Dimensions and Weight

Weight ····· 9000kg

Dimensions ( L*W* H ) ····· 7800×2400×2800

# KB2C
## INTEGRATED DTH DRILLING RIG

**Recommended hole range:80-115mm**

KB2C integrated surface drilling rig integrates DTH drilling rig and portable air compressor, with compact structure , flexible mobility, convenient displacement and transfer. The drilling rigs equipped with two-stage dry dust collecting system with high-speed fan , large filter area for excellent dust removal effect. At the same time , it is equipped with automatic rod-handling system, very convenient operation by single operator, higher work efficiency and lower drilling cost and safer. The feed beam is upgraded from steel to aluminum alloy, which ensures the straightness of the drilling hole , increases the efficiency by 15% , and greatly improves the operation safety. The drilling rig is widely applied in ore , limestone mining , road engineering construction and other open-pit projects

### KB2C Main Technical Specifications

| Drilling Range | |
|---|---|
| Hole Depth | 21m |
| Drill Rod | 60x3000 mm |
| Hole Diameter Range | 80-115mm |
| **Diesel Engine** | |
| Diesel Engine Brand | Yuchai |
| Engine Model | YC6J220-H300 |
| Engine Rated Power | 162 kW |
| **Air Compressor** | |
| Free Air Delivery | 14 $m^3$/min |
| Working Pressure | 18 bar |
| **Rotary Head** | |
| Rotary Torque | 1500 Nm |
| Electrical Voltage | 24 V |

| Feed Beam | |
|---|---|
| Feed Type | Cylinder/Chain |
| Feed Travel Length | 3400mm |
| Feed Extension | 1100mm |
| Max . Feed Force | 20kN |
| Max . Pull Up Force | 30kN |
| **Tramming Mechanism** | |
| Tramming Speed | 1.6 - 2.9 km/h |
| Gradient | 25 ° |
| Track Oscillation | ±10° |
| **Dimensions and Weight** | |
| Weight | 9500kg |
| Dimensions ( L*W* H ) | 7600x2400x2800mm |



### Feed Beam Unit

With the cooperation of oil .cylinder and chain ,the propulsion is more stable and powerful

### Tramming Mechanism

- The dual-speed detachable hydraulic tramming mechanism is adopted to be braked detachably and move the whole machine in case of emergency.
- Track oscillation for better tramming and cross terrain performance

### Boom and Feed Beam

The drilling boom and bracket adopt high-strength connectors ,which is firm and reliable

### Rotary Unit

Equipped with powerful rotary head ,large torque ,fast rotation speed ,more stable and reliable ,capable to all kinds of working condition .

### Hydraulic Dust Collector

- Standard two-stage dry dust collector with high speed fan for larger filter area .
- Movable dust hood for convenient observation

### Power System

- Yuchai diesel engine is equipped to meet the EU stage IIIA emission standard.
- Air compressor of high air pressure and large displacement is equipped , high energy efficient

### Operation Console

- Direct-control hydraulic system design ,simple and practical , low failure rate .
- High integration of instrument display real-time monitoring of instrument display.
- With a number of fault alarms,intuitive and simple




### KB2C Parameter Upgrade

**Aluminum alloy guide rails**

- Automatic rod change system
- Operate too torsion action to complete the mechanical rod operation

# KB3A & KB3C
## INTEGRATED DTH DRILLING RIG

**Recommended hole range: 90~130mm**

The KB3A and KB3C added automatic lever-changing system on the basis of KB3 to realize single-person operation and reduce labor intensity, and B3C propulsion beam was upgraded from rigid material to aluminum alloy, ensuring drilling straightness and increasing perforation rate by about 15%

### KB3A Main Technical Specifications

| Drilling Range | |
|---|---|
| Hole Depth | 21m |
| Drill Rod | 76×3000 mm |
| Hole Diameter Range | 90-130mm |
| **Diesel Engine** | |
| Diesel Engine Brand | CUMMINS |
| Engine Model | QSB5.9-C210 |
| Engine Rated Power | 154kW |
| **Air Compressor** | |
| Free Air Delivery | 13.5 m³/min |
| Working Pressure | 16 bar |
| **Rotary Head** | |
| Rotary Torque | 2000 Nm |
| Electrical Voltage | 24 V |

| Feed Beam | |
|---|---|
| Feed Type | Cylinder/Chain |
| Feed Travel Length | 3500mm |
| Feed Extension | 1100mm |
| Max.Feed Force | 20kN |
| Max.Pull Up Force | 30kN |
| **Trammlng Mechanism** | |
| Tramming Speed | 1.5-3.0 km/h |
| Gradient | 25° |
| Track Oscillation | ±10° |
| **Dimenslons and Weight** | |
| Weight | 10500kg |
| Dimensions(L*W*H) | 7800x2400x2900mm |

### KB3C Main Technical Specifications

| **Feed Beam** | |
|---|---|
| Material of Feed Beam | Aluminium Alloy |
| Feed Type | Cylinder/Chain |

| **Dimensions and Weight** | |
|---|---|
| Weight | 10500kg |
| Dimensions ( L*W* H ) | 7800×2400×2900mm |



### Feed Beam Unit

With the cooperation of oil .cylinder and chain ,the propulsion is more stable and powerful

### Tramming Mechanism

- The dual-speed detachable hydraulic tramming mechanism is adopted to be braked detachably and move the whole machine in case of emergency.
- Track oscillation for better tramming and cross terrain performance

### Boom and Feed Beam

The drilling boom and bracket adopt high-strength connectors ,which is firm and reliable

### Rotary Unit

Equipped with powerful rotary head ,large torque ,fast rotation speed ,more stable and reliable ,capable to all kinds of working condition .

### Hydraulic Dust Collector

- Standard two-stage dry dust collector with high speed fan for larger filter area .
- Movable dust hood for convenient observation

### Power System

- Yuchai diesel engine is equipped to meet the EU stage IIIA emission standard.
- Air compressor of high air pressure and large displacement is equipped , high energy efficient

### Operation Console

- Direct-control hydraulic system design ,simple and practical , low failure rate .
- High integration of instrument display real-time monitoring of instrument display.
- With a number of fault alarms,intuitive and simple




### KB3A Upgrade Configuration

- The operator realizes connecting rod and unloading rod operation through the knob
- Automatic lever change system

### KB3C Upgrade Configuration

- Console dial
- Automatic lever change system
- Aluminum alloy propulsion beam

# KB4
## INTEGRATED DTH DRILLING RIG

**Recommended hole range:90~138mm**

The KB4 adheres to the leading technology and mature down the hole drilling method of Sweden Epiroc Rock Drills Aktiebolag ( formerly Atlas Copco Group) . KB4 integrated surface drilling rig integrates DTH drilling rig and portable air compressor, with compact structure, flexible mobility, convenient displacement and transfer. It is equipped with two-stage dry dust collecting system with high-speed fan, large filter area for excellent dust removal effect. At the same time, it is equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer. It is widely applied in ore, limestone mining, road engineering construction and other open-pit projects. KB4 is equipped with air-conditioned cab, the operating environment is more comfortable and the safety is greatly improved.

**KB4 Main Technical Specifications**

| | |
|---|---|
| **Drilling Range** | |
| Hole Depth | 24m |
| Drill Rod | 76x3000mm |
| Hole Diameter Range | 90~138mm |
| **Diesel Engine** | |
| Diesel Engine Brand | Yuchai |
| Engine Model | YCA07240-T300 |
| Engine Rated Power | 176 kW |
| **Air Compressor** | |
| Free Air Delivery | 15 $m^3$/min |
| Working Pressure | 18 bar |
| **Rotary Head** | |
| Max . Feed Force | 20kN |
| Max . Pull Up Force | 25kN |
| Rotary Torque | 2000Nm |

| | |
|---|---|
| **Feed Beam** | |
| Feed Travel Length | 3500mm |
| Feed Extension | 1100 mm |
| Feed Type | Motor driven chain |
| **Tramming Mechanism** | |
| Tramming Speed | 1.5- 3.0 km/h |
| Gradient | 25 ° |
| Track Oscillation | ±10° |
| **Dimensions and Weight** | |
| Weight | 10500kg |
| Dimensions ( L*W* H ) | 8010×2400×2900mm |



### Feed Beam Unit

- The feed type is cylinder and chain, with replaceable wear resistant slides. Simple structure, convenient for maintenance. It can effectively prolong the service life of feed beam
- Equipped with rotary tube follower, it can greatly reduce the wear of rubber tube in the process of movement

### Power System

- Equipped with Cummins diesel engine, meet the EU stage IIIA emission standard. It has sufficient power reserve and strong adaptability to alpine regions.
- Equipped with high air pressure and large displacement screw air end, high drilling efficiency and low energy consumption.
- Equipped with famous brand gear pump, continuously and stably to provide hydraulic power.

### Tramming Mechanism

- The dual-speed detachable hydraulic tramming mechanism is adopted to be braked detachably and move the whole machine in case of emergency.
- The heavy duty tramming mechanism with oscillation for various working conditions.

### Operation Console

- Direct-control hydraulic system design ,simple and practical, low failure rate .
- High integration of instrument display real-time monitoring of instrument display.
- With a number of fault alarms,intuitive and simple




### Rotary Unit

Equipped with powerful rotary head, large torque, fast rotation speed, more stable and reliable, capable to all kinds of working condition.

### Hydraulic Dust Collector

- Standard two-stage dry dust collector with high speed fan for larger filter area .
- Movable dust hood for convenient observation

### HyAutomatic Rod-handing System

Equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer.

# KB6
## INTEGRATED DTH DRILLING RIG

**Recommended hole range:90~138mm**

The KB6 adheres to the leading technology and mature down the hole drilling method of Sweden Epiroc Rock Drills Aktiebolag ( formerly Atlas Copco Group) . KB6 integrated surface drilling rig integrates DTH drilling rig and portable air compressor, with compact structure, flexible mobility, convenient displacement and transfer. It is equipped with two-stage dry dust collecting system with high-speed fan, large filter area for excellent dust removal effect. At the same time, it is equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer. It is widely applied in ore, limestone mining, road engineering construction and other open-pit projects.

KB6 is equipped with air-conditioned cab on the basis of KB5, the operating environment is more comfortable and the safety is greatly improved.

### KB6 Main Technical Specifications

| | |
|---|---|
| **Drilling Range** | |
| Hole Depth | 21m |
| Drill Rod | 76x3000 mm |
| Drill Rod Capacity | 6+1 |
| Hole Diameter Range | 90~138mm |
| **Diesel Engine** | |
| Diesel Engine Brand | Cummins |
| Engine Model | QSC8.3-C260-30 |
| Engine Rated Power | 194KW@2200r/ min |
| **Air Compressor** | |
| Free Air Delivery | 18 $m^3$/min |
| Working Pressure | 20 bar |
| Compression Type | Two-stage screw |
| **Rotary Head** | |
| Max . Rotary Torque | 2000Nm |

| | |
|---|---|
| Max . Feed Force | 12kN |
| Max . Pull Up Force | 18 kN |
| Rotary Torque | 1500Nm |
| **Feed Beam** | |
| Feed Travel Length | 3700mm |
| Feed Extension | 1100 mm |
| Feed Type | Hydraulic motor driven chain propulsion beam double lifter |
| **Tramming Mechanism** | |
| Tramming Speed | 1.5- 3.0 km/h |
| Gradient | 25 ° |
| Track Oscillation | ±10° |
| **Dimensions and Weight** | |
| Weight | 11000kg |
| Dimensions ( L*W* H ) | 8200×2400×3200mm |



### Feed Beam Unit

- The feed type is cylinder and chain, with replaceable wear resistant slides. Simple structure, convenient for maintenance. It can effectively prolong the service life of feed beam
- Equipped with rotary tube follower, it can greatly reduce the wear of rubber tube in the process of movement

### Power System

- Equipped with Cummins diesel engine, meet the EU stage IIIA emission standard. It has sufficient power reserve and strong adaptability to alpine regions.
- Equipped with high air pressure and large displacement screw air end, high drilling efficiency and low energy consumption.
- Equipped with famous brand gear pump, continuously and stably to provide hydraulic power.

### Tramming Mechanism

- The dual-speed detachable hydraulic tramming mechanism is adopted to be braked detachably and move the whole machine in case of emergency.
- The heavy duty tramming mechanism with oscillation for various working conditions.

### Operation Console

- Direct-control hydraulic system design ,simple and practical, low failure rate .
- High integration of instrument display real-time monitoring of instrument display.
- With a number of fault alarms,intuitive and simple




### Rotary Unit

Equipped with powerful rotary head, large torque, fast rotation speed, more stable and reliable, capable to all kinds of working condition.

### Hydraulic Dust Collector

- Standard two-stage dry dust collector with high speed fan for larger filter area .
- Movable dust hood for convenient observation

### HyAutomatic Rod-handing System

Equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer.

# KB8
## INTEGRATED DTH DRILLING RIG

### Recommended hole range:115~152mm

The KB8 adheres to the leading technology and mature down the hole drilling method of Sweden Epiroc Rock Drills Aktiebolag ( formerly Atlas Copco Group) . KB8 integrated surface drilling rig integrates DTH drilling rig and portable air compressor, with compact structure, flexible mobility, convenient displacement and transfer. It is equipped with two-stage dry dust collecting system with high-speed fan, large filter area for excellent dust removal effect. At the same time, it is equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer. It is widely applied in ore, limestone mining, road engineering construction and other open-pit projects.

### KB8 Main Technical Specifications

| | |
|---|---|
| **Drilling Range** | |
| Hole Depth | 32m |
| Drill Rod | 89x4000 mm |
| Drill Rod Capacity | 7+1 |
| Hole Diameter Range | 115~152mm |
| DTH Hammer | 3" , 4" |
| **Diesel Engine** | |
| Diesel Engine Brand | Cummins |
| Engine Model | CumminsQSL8.9-C360 |
| Engine Rated Power | 294KW@2200r/ min |
| Max . Rotary Torque | 1480Nm@Speed 1400rpm |
| Ambient Temperature | -20—-50℃ |
| Emission Standard | stage IIIA |
| **Air Compressor** | |
| Model | Ingersoll Rand IR2 .0 |
| Max .Working Pressure | 20 bar |
| Free Air Delivery | 20 m³/min |
| **Rotary Head** | |
| Max . Rotary Torque | 2000Nm |
| Max .Speed | 120 rpm |
| **Feed Beam** | |
| Feed Extension | 4330mm |
| Max . Pull Up Force | 18 kN |
| Max . Feed Force | 12kN |
| Compensation length | 1000mm |
| **Drill Boom** | |
| Boom Pitch Angle | ↓28 °/↑33 ° |
| Boom Left and Right Swing Angle | ← 25 °/ → 25 ° |
| Carriage Left and Right Swing Angle | ←23 °/ → 92 ° |
| Height of Drillable Horizontal Hole | 800-3700mm |
| **Dust Collector System** | |
| Filter Area | 19 ㎡ |
| No . Of Filter Elements | 18 |
| **Tramming Mechanism** | |
| Speed | 1 .8 km/ h — 3.6 km/ h |
| Traction Force | 100kN |
| Gradient | 20 ° |
| Ground Clearance of Chassis | 380mm |
| Track Oscillation | ±10 ° |
| **Dimensions and Weight** | |
| Weight | 15700kg |
| Dimensions ( L*W* H ) | 9200×2500×3200mm |



### Electrical System

- SIEMENS LOGO bare controller, clear wiring, both ends of the cable with marker ring, easy to identify less electrical components, easy to maintain.
- Equipped with rotary tube follower, it can greatly reduce the wear of rubber tube in the process of movement

### Tramming Mechanism

- The dual-speed detachable hydraulic tramming mechanism is adopted to be braked detachably and move the whole machine in case of emergency.
- The heavy duty tramming mechanism with oscillation for various working conditions.

### Hydraulic Dust Collector

- Standard B9.16.1 dry dust collector with high speed fan for larger filter area.
- Movable dust hood for convenient observation

### Power System

- Equipped with Cummins diesel engine, meet the EU stage IIIA emission standard. It has sufficient power reserve and strong adaptability to alpine regions.
- Equipped with high air pressure and large displacement screw air end, high drilling efficiency and low energy consumption.
- Equipped with famous brand gear pump, continuously and stably to provide hydraulic power.

### Operation Console

- Direct-control hydraulic system design ,simple and practical, low failure rate .
- High integration of instrument display, real-time monitoring of various parameters , intuitive and simple
- With a number of fault alarms, convenient for maintenance

### HyAutomatic Rod-handing System

Equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer.

### Operation Cab

- Equipped with heating and cooling air conditioning
- Noise level less than 85dB (A)

### Rotary Unit

Equipped with powerful rotary head, large torque, fast rotation speed, more stable and reliable, capable to all kinds of working condition.



# KB10
## INTEGRATED DTH DRILLING RIG

### Recommended hole range:138~165mm

The KB10 adheres to the leading technology and mature down the hole drilling method of Sweden Epiroc Rock Drills Aktiebolag ( formerly Atlas Copco Group) . KB10 integrated surface drilling rig integrates DTH drilling rig and portable air compressor, with compact structure, flexible mobility, convenient displacement and transfer. It is equipped with two-stage dry dust collecting system with high-speed fan, large filter area for excellent dust removal effect. At the same time, it is equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer. It is widely applied in ore, limestone mining, road engineering construction and other open-pit projects.

### KB10 Main Technical Specifications

| **Drilling Range** | |
|---|---|
| Hole Depth | 32m |
| Drill Rod | 89x4000mm |
| Drill Rod Capacity | 7+1 |
| Hole Diameter Range | 110~165mm |
| DTH Hammer | 5" 6" |
| **Diesel Engine** | |
| Diesel Engine Brand | Cummins |
| Engine Model | CumminsQSL8.9-C360 |
| Engine Rated Power | 264kw |
| Max . Rotary Torque | 1480Nm@Speed 1400rpm |
| Ambient Temperature | -20—-50℃ |
| Emission Standard | stage IIIA |
| **Air Compressor** | |
| Model | Ingersoll Rand IR2.0 or Boss |
| Max .Working Pressure | 21bar |
| Free Air Delivery | 23 m³/min |

| **Rotary Head** | |
|---|---|
| Max . Rotary Torque | 3200Nm |
| Max .Speed | 120 rpm |
| **Feed Beam** | |
| Feed Extension | 4330/3330mm |
| Max . Pull Up Force | 35kN |
| Max . Feed Force | 25kN |
| Compensation length | 1000mm |
| **Drill Boom** | |
| Boom Pitch Angle | ↓28 °/↑33 ° |
| Boom Left and Right Swing Angle | ← 25 °/ → 25 ° |
| Carriage Left and Right Swing Angle | ←23 °/ → 92 ° |
| Height of Drillable Horizontal Hole | 800-3700mm |

| **Dust Collector System** | |
|---|---|
| Filter Area | 19 ㎡ |
| No . Of Filter Elements | 18 |
| **Tramming Mechanism** | |
| Speed | 1 .8 km/ h — 3.6 km/ h |
| Traction Force | 100kN |
| Gradient | 20 ° |

| | |
|---|---|
| Ground Clearance of Chassis | 380mm |
| Track Oscillation | ±10 ° |
| **Dimensions and Weight** | |
| Weight | 16000kg |
| Dimensions ( L*W* H ) | 9300×2400×3300mm |



### Electrical System

- SIEMENS LOGO bare controller, clear wiring, both ends of the cable with marker ring, easy to identify less electrical components, easy to maintain.
- Equipped with rotary tube follower, it can greatly reduce the wear of rubber tube in the process of movement

### Power System

- Equipped with Cummins diesel engine, meet the EU stage IIIA emission standard. It has sufficient power reserve and strong adaptability to alpine regions.
- Equipped with high air pressure and large displacement screw air end, high drilling efficiency and low energy consumption.
- Equipped with famous brand gear pump, continuously and stably to provide hydraulic power.

### Tramming Mechanism

- The dual-speed detachable hydraulic tramming mechanism is adopted to be braked detachably and move the whole machine in case of emergency.
- The heavy duty tramming mechanism with oscillation for various working conditions.

### Operation Cab

- Equipped with heating and cooling air conditioning
- Noise level less than 85dB (A)

### Hydraulic Dust Collector

- Standard B9.16.1 dry dust collector with high speed fan for larger filter area.
- Movable dust hood for convenient observation

### HyAutomatic Rod-handing System

Equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer.

### Rotary Unit

Equipped with powerful rotary head, large torque, fast rotation speed, more stable and reliable, capable to all kinds of working condition.

### Operation Console

- Direct-control hydraulic system design ,simple and practical , low failure rate .
- High integration of instrument display, real-time monitoring of various parameters , intuitive and simple
- With a number of fault alarms, convenient for maintenance



# KB16
## INTEGRATED DTH DRILLING RIG

### Recommended hole range:140~225mm

The KB16 adheres to the leading technology and mature down the hole drilling method of Sweden Epiroc Rock Drills Aktiebolag ( formerly Atlas Copco Group) . KB16 integrated surface drilling rig integrates DTH drilling rig and portable air compressor, with compact structure, flexible mobility, convenient displacement and transfer. It is equipped with two-stage dry dust collecting system with high-speed fan, large filter area for excellent dust removal effect. At the same time, it is equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer. It is widely applied in ore, limestone mining, road engineering construction and other open-pit projects.

### KB16 Main Technical Specifications

| Drilling Range | |
|---|---|
| Hole Depth | 35m |
| Drill Rod | 114x5000 mm |
| Drill Rod Capacity | 7+1 |
| Hole Diameter Range | 140~225mm |
| DTH Hammer | 5" 6" |
| **Diesel Engine** | |
| Engine Model | CumminsQSL13 |
| Engine Rated Power | 410kw |
| Max . Rotary Torque | 1480Nm@Speed 1400rpm |
| Ambient Temperature | -20—-50℃ |
| Emission Standard | stage IIIA |

| Air Compressor | |
|---|---|
| Model | Hanbell |
| Max .Working Pressure | 25bar |
| Free Air Delivery | 30m$^3$/min |
| **Rotary Head** | |
| Max . Rotary Torque | 6500Nm |
| Max .Speed | 90 rpm |
| **Feed Beam** | |
| Max . Pull Up Force | 50kN |
| Max . Feed Force | 40kN |
| Compensation length | 1000mm |

| Dust Collector System | |
|---|---|
| Filter Area | 19 ㎡ |
| No . Of Filter Elements | 18 |
| **Tramming Mechanism** | |
| Speed | 1 .8 km/ h — 3.6 km/ h |
| Traction Force | 100kN |

| | |
|---|---|
| Gradient | 20 ° |
| Ground Clearance of Chassis | 380mm |
| Track Oscillation | ±10 ° |
| **Dimensions and Weight** | |
| Weight | 22500kg |
| Dimensions ( L*W* H ) | 10800×2510×3800mm |



### Electrical System

- SIEMENS LOGO bare controller, clear wiring, both ends of the cable with marker ring, easy to identify less electrical components, easy to maintain.
- Equipped with rotary tube follower, it can greatly reduce the wear of rubber tube in the process of movement

### Power System

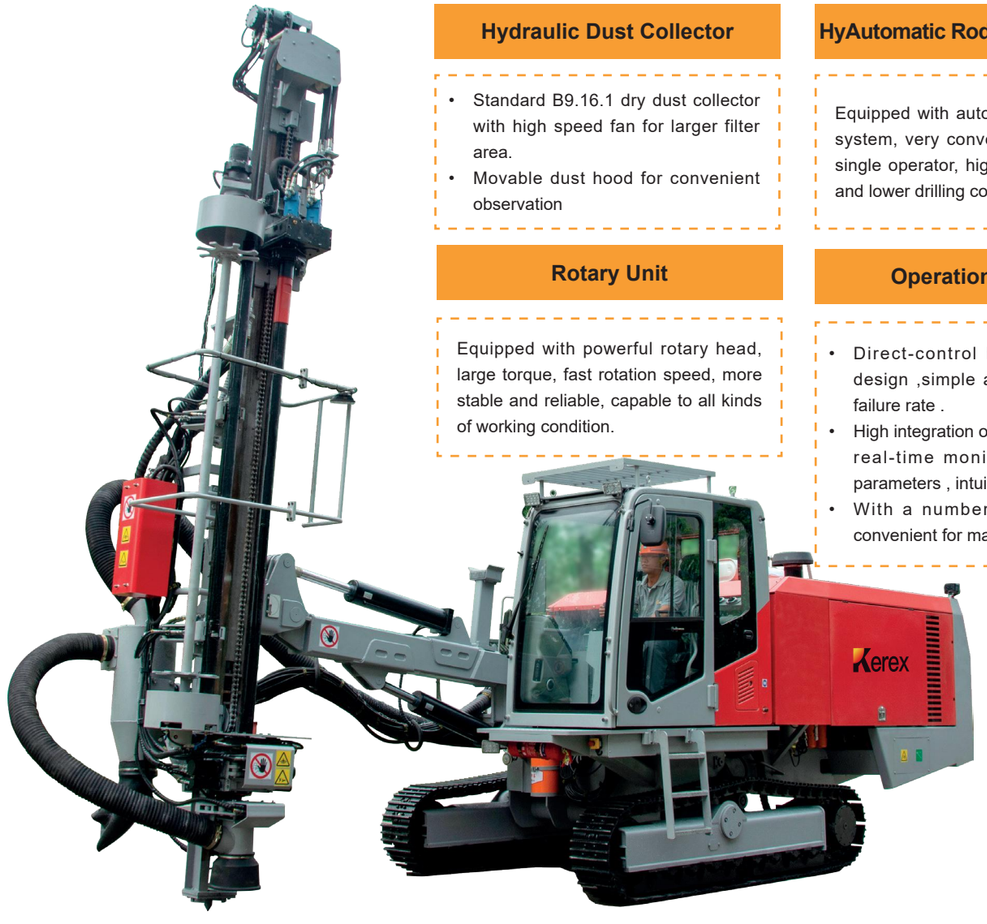
- Equipped with Cummins diesel engine, meet the EU stage IIIA emission standard. It has sufficient power reserve and strong adaptability to alpine regions.
- Equipped with high air pressure and large displacement screw air end, high drilling efficiency and low energy consumption.
- Equipped with famous brand gear pump, continuously and stably to provide hydraulic power.

### Tramming Mechanism

- The dual-speed detachable hydraulic tramming mechanism is adopted to be braked detachably and move the whole machine in case of emergency.
- The heavy duty tramming mechanism with oscillation for various working conditions.

### Operation Cab

- Equipped with heating and cooling air conditioning
- Noise level less than 85dB (A)




### Hydraulic Dust Collector

- Standard B9.16.1 dry dust collector with high speed fan for larger filter area.
- Movable dust hood for convenient observation

### HyAutomatic Rod-handing System

Equipped with automatic rod-handling system, very convenient operated by single operator, higher work efficiency and lower drilling cost and safer.

### Rotary Unit

Equipped with powerful rotary head, large torque, fast rotation speed, more stable and reliable, capable to all kinds of working condition.

### Operation Console

- Direct-control hydraulic system design ,simple and practical , low failure rate .
- High integration of instrument display, real-time monitoring of various parameters , intuitive and simple
- With a number of fault alarms, convenient for maintenance

# KG5
## TOP HAMMER DRILLING RIG

**Recommended hole range:45~90mm**

The KG5 all hydraulic anvil , equipped with National III engine , imported brand variable pump system, Amberto high-power rock drill , high perforation efficiency, ultra-low energy consumption, complex terrain off-road capability. The folding arm structure ensures a wider drilling range and greater adaptability to the operation of complex terrain. The product is widely used in open-pit mining and municipal engineering of Earth and rock excavation , quarries and other drilling operations .

## KG5 Main Technical Specifications

| | |
|---|---|
| **Drilling Range** | |
| Hole Diameter Range | 45-90mm |
| Hole Depth | 25 m |
| Drill Rod | T38/T45 |
| **Diesel Engine** | |
| Diesel Engine Brand | Cummins |
| Engine Rated Power | 134KW@2200rpm |
| **Air Compressor** | |
| Free Air Delivery | 6m$^3$/min |
| Max .Working Pressure | 8 bar |
| **Electrical System** | |
| Battery | 2x12v ， 120Ah |
| Work Lights | 8x30W |
| **Rock Drill** | |
| Diesel Engine Brand | Epiroc |
| Model | YYG14L |
| Rated Power | 14KW |

| | |
|---|---|
| Impact Pressure | 145bar |
| Max . Rotary Torque | 1217Nm |
| Max . Feed Force | 20kN |
| Max . Pull Up Force | 30kN |
| **Feed Beam** | |
| Feed Beam Length | 6030mm |
| Feed stroke | 3500mm |
| Feed Extension | 1400mm |
| Feed Type | Hydraulic motor driven chain propulsion beam double lifter |
| **Tramming Mechanism** | |
| Tramming Speed | 1.5-3. 1 km/ h |
| Gradient | 20 ° |
| Track Oscillation | ±10 ° |
| **Dimensions and Weight** | |
| Weight | 13500kg |
| Dimensions (L*W* H ) | 10800X2350X3000mm |



### Feed Beam System

- The aluminum alloy beam driven by oil cylinder and steel wire rope has higher strength and better bending resistance, and can achieve ideal drilling straightness. Drilling is more smooth.
- The driving beam is equipped with a mechanical lever changing system , and the operator can complete the lever connecting and unloading action in the cab.

### Operation Cab

Configuration of high-power air-conditioning system , handle control mode operation;Good working environment, away from dust pollution.

### Operation Console

The programmable logic controller (plc) system has the advantages of high reliability, simple installation, convenient maintenance, powerful function expansion space and easy fault diagnosis




### Power System

The high-power turbocharged diesel engine of the National III standard is used to provide enough power reserve for the whole vehicle, which makes it more adaptable to the harsh working environment of high altitude and extreme cold.

### Chassis System

It is equipped with high-power two-speed pressure night drive traction system, hydraulic swing adjustment system, and small body width design

### Drill Boom System

Using the folding arm structure with rectangular section, 0.3-5.6 m vertical holes and horizontal holes can be drilled in the facade , and the drilling area in the plane can reach 13

### Security System

Integrated display of engine oil temperature and pressure, coolant temperature and water level, Compressed air temperature and pressure alarm data, also equipped with emergency shutdown and battery charging instructions and other safety devices

### Hydraulic Rock Drill

The high-power drill designed by Amberto Group has high perforating efficiency, high and low impact, automatic anti-jamming function, and is more adaptable to different rock conditions.

### Hydraulic Dust Collector

The two-stage dry dust collecting system can be self-cleaning on-line, and the dust collecting effect is good, which can meet the requirements of national dust emission.

# KG7
## TOP HAMMER DRILLING RIG

**Recommended hole range:76~115mm**

The KG7 the all-hydraulic open-air hammer rig is powered by a powerful diesel engine, capable of easily responding to the power requirements of harsh operating conditions at high altitude, extreme cold and other Atlas (mythology), Kopko high-power high-pressure rock drill, with high perforation efficiency. The product is widely used in open-pit mining and construction of Earth and rock excavation, quarry material and slope treatment of drilling operations.

## KG7 Main Technical Specifications

| Drilling Range | |
|---|---|
| Hole Diameter Range | 76- 115 mm |
| Hole Depth | 25 m |
| Drill Rod | T51 |
| **Diesel Engine** | |
| Diesel Engine Brand | DCEC |
| Engine Rated Power | 194KW@2200r/ min |
| Engine Model | QSC8.3-C260 |
| **Air Compressor** | |
| Free Air Delivery | 105L/s |
| Max .Working Pressure | 9 bar |
| **Electrical System** | |
| Battery | 2x12v, 165Ah |
| Work Lights | 3x70W |
| **Rock Drill** | |
| Model | RD18S |
| Rated Power | 18 KW |
| Impact Pressure | 200bar |

| Feed Beam | |
|---|---|
| Feed speed | 0.9 m/s |
| Feed Extension | 1400mm |
| Max . Feed Force | 20 kN |
| **Tramming Mechanism** | |
| Tramming Speed | 1 .5-3. 1 km/ h |
| Traction Force | 115 kN |
| Gradient | 20 ° |
| Track Oscillation | ±6 ° |
| Ground Clearance of Chassis | 455mm |
| **Dust Collector System** | |
| Filter Area | 11 ㎡ |
| No . Of Filter Elements | 11 |
| **Lever Changeover system** | |
| Rotating cylinder | 270° |



### Feed Beam System

- The aluminum alloy beam driven by oil cylinder and steel wire rope has higher strength and better bending resistance, and can achieve ideal drilling straightness. Drilling is more smooth.
- The driving beam is equipped with a mechanical lever changing system , and the operator can complete the lever connecting and unloading action in the cab.

### Operation Cab

Configuration of high-power air-conditioning system , handle control mode operation;Good working environment, away from dust pollution.

### Hydraulic Dust Collector

The two-stage dry dust collecting system can be self-cleaning on-line, and the dust collecting effect is good, which can meet the requirements of national dust emission.

### Power System

The high-power turbocharged diesel engine of the National III standard is used to provide enough power reserve for the whole vehicle, which makes it more adaptable to the harsh working environment of high altitude and extreme cold.

### Chassis System

It is equipped with high-power two-speed pressure night drive traction system, hydraulic swing adjustment system, and small body width design

### Drill Boom System

The folding boom structure with rectangular section is used to drive the boom action by hydraulic cylinder, which ensures the flexibility and stability of the drilling arm system. At the same time, the ingenious design of steering seat and driving beam bracket makes it possible to drill 0.3-7.6 m vertical and horizontal holes in the facade and 17 ㎡ in the plane

### Security System

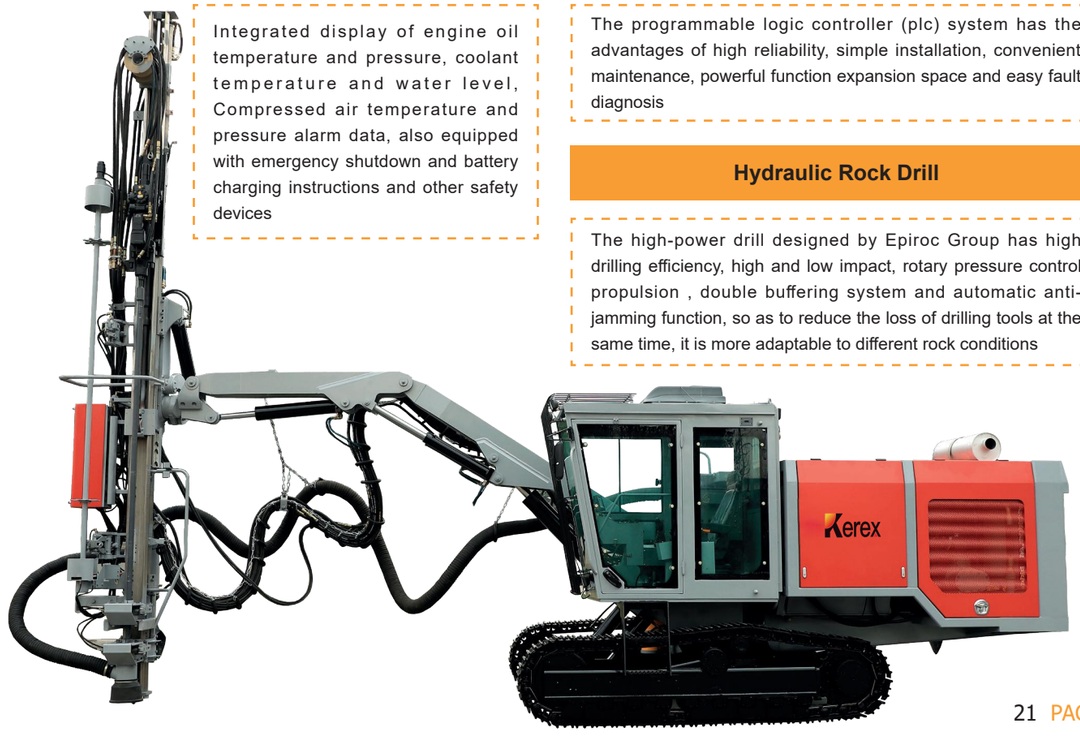
Integrated display of engine oil temperature and pressure, coolant temperature and water level, Compressed air temperature and pressure alarm data, also equipped with emergency shutdown and battery charging instructions and other safety devices

### Operation Console

The programmable logic controller (plc) system has the advantages of high reliability, simple installation, convenient maintenance, powerful function expansion space and easy fault diagnosis

### Hydraulic Rock Drill

The high-power drill designed by Epiroc Group has high drilling efficiency, high and low impact, rotary pressure control propulsion , double buffering system and automatic anti-jamming function, so as to reduce the loss of drilling tools at the same time, it is more adaptable to different rock conditions



# KC680
## SEPARATED DTH DRILLING RIG

**Diesel Engine**
Power: 73.5kw

**Supporting Air Compressor Parameter**
Pressure：1-2.4Mpa
Air Delivery：14-35m³/min

The KC680 Red Ring a new series of drilling rigs on the basis of the original upgrading of drilling equipment. This series of drilling rigs has been fully optimized design, compact structure, better overall performance , easy to move and operate , energy-saving and efficient, safe and environmentally friendly, stable performance, easy maintenance and so on. It is mainly suitable for drilling and blasting holes in mining, road construction, water conservancy and electric power construction sites, national defense projects and other open-pit projects.

### KC680 Main Technical Specifications

| | |
|---|---|
| **Drilling Range** | |
| Hole Diameter Range | 90-165mm |
| Hole Depth | 30m |
| **Tramming Mechanism** | |
| Tramming Speed | 3 km/ h |
| Gradient | 30 ° |
| **Rotary Head** | |
| Rotary Torque | 3400N. m |
| Rotary Speed | 120 rpm |
| **Drill Rod and Hammer** | |
| Drill Rod | 76*3000 |
| Supporting Hammer | 4″ , 5″ ,6″ |

| | |
|---|---|
| **Feed Beam** | |
| Feed Stroke | 3700mm |
| **Rated Power** | |
| Power | 73.5kw |
| **Ground Clearance of Chassis** | |
| Ground Clearance of Chassis | 380mm |
| **Dimensions and Weight** | |
| Weight | 6200Kg |
| Dimensions (L*W* H ) | 6800 × 2200 × 2600mm |



### Rotary Unit

- Double motor structure, large torque, simple structure, easy maintenance;
- Equipped with buffer, can effectively absorb reverse impact, protect the internal bearing, extend service life;
- According to the working conditions, the selection of larger torque

### Power System

- Equipped with Yuchai four-cylinder country three diesel engine, meet the national emission standards.
- Power reserve foot, add antifreeze, high altitude, cold zone adaptability
- Maintenance-free battery, easy to use, long life, excellent performance;
- The cover adopts two-side doors, which has large space and is convenient for maintenance

### Tramming Mechanism

- Use Engineering excavator with four wheels and a belt, and equipped with leveling cylinder, climbing ability is strong, low failure rate;
- The chassis adopts the structure of integral hollow shaft plus adjusting flat cylinder, with fast and slow gears, good off-road performance, reliable and durable;
- Adopt plunger type walking motor, walking stability.

### Hydraulic Dust Collector

- High-efficient dry dust collector, dust removal effect is good, to ensure environmental protection requirements;
- Protect the health of operators, reduce the occupational hazards .

### Operation Console

- The hydraulic operation table adopts the double-layer structure, the position is reasonable and the operation is convenient;
- The instrument display is highly integrated and can monitor the parameters in real time. It can switch working mode intelligently according to the environment and operating conditions, and has self-diagnosis and alarm functions;
- Add Horn to improve the safety of operation;



# KC420
## SEPARATED DTH DRILLING RIG

**Diesel Engine**
Power: 73.5kw

**Supporting Air Compressor Parameter**
Pressure：1-2.4Mpa
Air Delivery：14-35m³/min

The KC420 Red Ring a new series of drilling rigs on the basis of the original upgrading of drilling equipment. This series of drilling rigs has been fully optimized design, compact structure, better overall performance , easy to move and operate , energy-saving and efficient, safe and environmentally friendly, stable performance, easy maintenance and so on. It is mainly suitable for drilling and blasting holes in mining, road construction, water conservancy and electric power construction sites, national defense projects and other open-pit projects.

## KC420 Main Technical Specifications

| | |
|---|---|
| **Drilling Range** | |
| Hole Diameter Range | 90-140mm |
| Hole Depth | 30m |
| **Tramming Mechanism** | |
| Tramming Speed | 2.5 km/ h |
| Gradient | 30 ° |
| **Rotary Head** | |
| Rotary Torque | 2200N. m |
| Rotary Speed | 130 rpm |
| **Drill Rod and Hammer** | |
| Drill Rod | 76*3000 |
| Supporting Hammer | 3″ , 4″ , 5″ |

| | |
|---|---|
| **Feed Beam** | |
| Feed Stroke | 3700mm |
| **Rated Power** | |
| Power | 73.5kw |
| **Ground Clearance of Chassis** | |
| Ground Clearance of Chassis | 410mm |
| **Supporting Air Compressor Parameter** | |
| Pressure | 0.8-1.6 Mpa |
| Free Air Delivery | 10-15 m³/min |
| **Dimensions and Weight** | |
| Weight | 5400Kg |
| Dimensions ( L*W* H ) | 6400 × 2250 × 2500mm |



### Hydraulic Dust Collector

- High-efficient dry dust collector, dust removal effect is good, to ensure environmental protection requirements;
- Protect the health of operators, reduce the occupational hazards .

### Tramming Mechanism

- Use Engineering excavator with four wheels and a belt, and equipped with leveling cylinder, climbing ability is strong, low failure rate;
- The chassis adopts the structure of integral hollow shaft plus adjusting flat cylinder, with fast and slow gears, good off-road performance, reliable and durable;
- Adopt plunger type walking motor, walking stability.




### Rotary Unit

- Double motor structure, large torque, simple structure, easy maintenance;
- Equipped with buffer, can effectively absorb reverse impact, protect the internal bearing, extend service life;
- According to the working conditions, the selection of larger torque

### Operation Console

- The hydraulic operation table adopts the double-layer structure, the position is reasonable and the operation is convenient;
- The instrument display is highly integrated and can monitor the parameters in real time. It can switch working mode intelligently according to the environment and operating conditions, and has self-diagnosis and alarm functions;
- Add Horn to improve the safety of operation;

### Power System

- Equipped with Yuchai four-cylinder country three diesel engine, meet the national emission standards.
- Power reserve foot, add antifreeze, high altitude, cold zone adaptability
- Maintenance-free battery, easy to use, long life, excellent performance;
- The cover adopts two-side doors, which has large space and is convenient for maintenance

# KC726
## SEPARATED DTH DRILLING RIG

**Diesel Engine**
Power: 58kw

**Supporting Air Compressor Parameter**
Pressure：0.8-1.6Mpa
Air Delivery：10-15m³/min

The KC726 is the red rig in the basis of the original products, upgraded and optimized the product console, propulsion beam, rotary head, housing components, drill arm components, dust collection components, chassis, propulsion beam, drill arm, power and electrical systems, the aim is to maximize the performance of the rig.

The machine has simple structure and high cost performance, and is especially suitable for various open-pit mines in Northwest China. Meet the requirements of single operation. Dust collection components, chassis, propulsion beams, boom, power and electrical. Systems are designed to maximize rig performance. The machine has simple structure and high cost performance, and is especially suitable for various open-pit mines in Northwest China . Meet the requirements of single operation.

## KC726 Main Technical Specifications

| | |
|---|---|
| **Drilling Range** | |
| Hole Diameter Range | 80-105mm |
| Hole Depth | 25m |
| **Tramming Mechanism** | |
| Tramming Speed | 2.5 km/ h |
| Gradient | 25 ° |
| **Rotary Head** | |
| Rotary Torque | 1500N. m |
| Rotary Speed | 160 rpm |
| **Drill Rod and Hammer** | |
| Drill Rod | 60*2000 |
| Supporting Hammer | 3″ |

| | |
|---|---|
| **Feed Beam** | |
| Feed Stroke | 2600mm |
| **Rated Power** | |
| Power | 58kw |
| **Ground Clearance of Chassis** | |
| Ground Clearance of Chassis | 320mm |
| **Supporting Air Compressor Parameter** | |
| Pressure | 0.8-1.6 Mpa |
| Free Air Delivery | 10-15 m³/min |
| **Dimensions and Weight** | |
| Weight | 3800Kg |
| Dimensions ( L*W* H ) | 4500 × 2000 × 2400mm |



### Power Components

- Equipped with Yuchai four-cylinder country three diesel engine, meet the national emission standards.
- Power reserve foot, add antifreeze, high altitude, cold zone adaptability
- Maintenance-free battery, easy to use, long life, excellent performance;
- Open Design, easy maintenance and maintenance;

### Power System

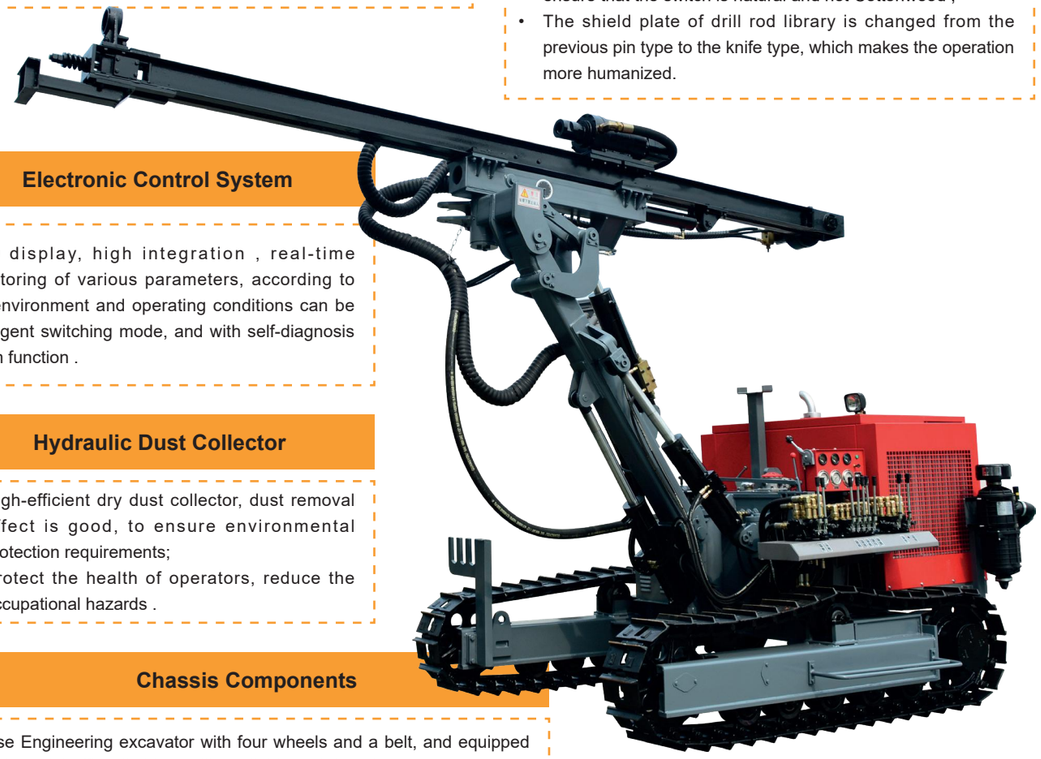
- Equipped with Yuchai four-cylinder country three diesel engine, meet the national emission standards.
- Power reserve foot, add antifreeze, high altitude, cold zone adaptability
- Maintenance-free battery, easy to use, long life, excellent performance;
- The cover adopts two-side doors, which has large space and is convenient for maintenance

### Rotary Unit

- Direct Motor Connection, rotary speed has the advantage of eliminating the high failure rate of the reducer, rotary head more durable, meet the needs of most users;
- The drill arm component moves forward, greatly increasing the drilling range of the guide rail;
- In view of the market quality feedback , the guide plate is added in the inner side of the propulsion beam to ensure that the pulley frame will not deviate when the propulsion is lifted;

### Console

- The operating table is directly propositioned, and the rotary table is cancelled, so that the operating space is increased, and the drill pipe is more convenient to be changed ;
- Each control handle is adjusted by a professional quality inspector before the whole machine leaves the factory to ensure that the switch is natural and not Cottonwood ;
- The shield plate of drill rod library is changed from the previous pin type to the knife type, which makes the operation more humanized.



### Electronic Control System

LCD display, high integration , real-time monitoring of various parameters, according to the environment and operating conditions can be intelligent switching mode, and with self-diagnosis alarm function .

### Hydraulic Dust Collector

- High-efficient dry dust collector, dust removal effect is good, to ensure environmental protection requirements;
- Protect the health of operators, reduce the occupational hazards .

### Chassis Components

- Use Engineering excavator with four wheels and a belt, and equipped with track baffle, climbing ability, reliable and durable.
- Adopt plunger type walking motor, walking stability and reliability.

# K421T
## INTEGRATED DTH DRILLING RIG

**Recommended hole range:80-115mm**

K421T integrated surface drilling rig integrates DTH drilling rig and portable air compressor, with compact structure , flexible mobility, convenient displacement and transfer. The drilling rigs equipped with two-stage dry dust collecting system with high-speed fan , large filter area for excellent dust removal effect. At the same time , it is equipped with automatic rod-handling system, very convenient operation by single operator, higher work efficiency and lower drilling cost and safer. The feed beam is upgraded from steel to aluminum alloy, which ensures the straightness of the drilling hole , increases the efficiency by 15% , and greatly improves the operation safety. The drilling rig is widely applied in ore , limestone mining , road engineering construction and other open-pit projects

**K421T Main Technical Specifications**

| | |
|---|---|
| Model | K421T |
| Hole diameter | 80-115mm |
| Drill rod length | 3m |
| Maximum hole depth | 20m |
| Rotation speed | 0-110 rpm |
| Maximum working torque | 1,650 N.m |
| Engine | Yuchai 162KW |
| Working pressure | 14.5bar |

| | |
|---|---|
| Air consumption | 12m3/min |
| Climbing ability | 30º |
| Leveling angle | ±10º |
| Emission Class | Tier III |
| Fuel tank capacity | 400L |
| Air compressor | GHH |
| Weigh | 6,800kg |
| L*W*H(mm) | 6,000x2,800x2,750mm |

## APPLICATIONS:

- Mining, constructions, marines
- Road, municipal constructions
- Drilling rigs, crusher machines
- Pneumatic source for equipments
- Slope anchorage, planting.



## STRUCTURE FEATURE

A.The drilling rig is equipped with Yuchai yc6j190 and 12 / 14.5 screw air compressor. Meet 80-115mm aperture, standard with dry dust collector;

B.By using its single power to simultaneously drive screw air compressor and drilling machine hydraulic system, compared with the split drilling machine, the comprehensive oil consumption is 35% energy saving, and the maintenance cost is reduced by 50%;

C.The core hydraulic components are imported from Europe. The reliable hydraulic system greatly reduces the workload of system maintenance, which is convenient and practical;

D.Powerful two speed hydraulic walking mechanism, strong off-road ability, large torque rotary motor can easily deal with the sticking;

E.The two-stage dry dust collection device is not only environmentally friendly, but also helpful to improve production efficiency; the integrated technology solves the problems of engineering, mine air compressor movement and long-distance management.



# FRAME TYPE DRILLING RIGS

## Product Introduction

High efficiency and energy saving: hydraulic technology, reasonable configuration, low overall price, fuel consumption. The bracket adopts locating tooth disc, which has novel structure and is stable and reliable .

Mobile flexible, simple operation: the whole machine can be disassembled, suitable for the original landscape operations.

Patent technology: the split hydraulic pump station is the product of the national patent, the power part is separated from the control part, when operating, it only needs to move the control table alone along with the drilling rig to achieve multi-point operation, the labor intensity is low, long life of the whole machine.



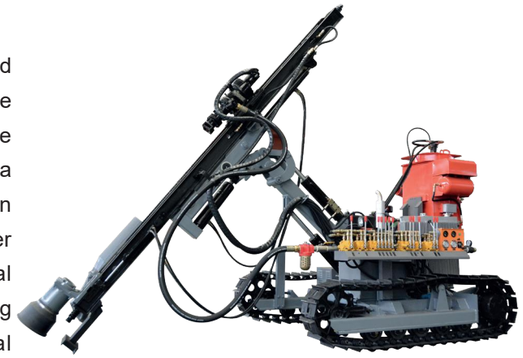
| | Model Unit | HQD70 | HQD70J | HQD100A | HQD100AJ | HQF100 | HQJ100A (Electric) | HQJ100A (Diesel) |
|---|---|---|---|---|---|---|---|---|
| Rock Hardness | | F=6~20 | F=6~20 | F=6~20 | F=6~20 | F=6~20 | F=6~20 | F=6~20 |
| Hole Diameter | mm | 50~80 | 50~80 | 68~130 | 68~130 | 68~130 | 68~100 | 68~100 |
| Hole Depth | m | ≥15 | ≥15 | ≥20 | ≥20 | ≥20 | ≥20 | ≥20 |
| Feed Length Each | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Rotation Speed | rpm | 90 | 90 | 90 | 90 | 110~160 | 0~70 | 0~70 |
| Air Delivery | m³/min | ≥3.5 | ≥3.5 | ≥7 | ≥7 | ≥12 | ≥7 | ≥7 |
| Working Pressure | Mpa | 0.5~0.7 | 0.5~0.7 | 0.5~0.7 | 0.5~0.7 | 0.5~0.7 | 0.5~0.7 | 0.5~0.7 |
| Piston Diameter | mm | 90 | 90 | 140 | 140 | 140 | 50 | 50 |
| Max.Pull Out Force | N | 4200 | 4200 | 7000 | 7000 | 7000 | 15000 | 15000 |
| Max.Feed Force | N | 3500 | 3500 | 5000 | 5000 | 5000 | 4500 | 4500 |
| Weight | kg | 175 | 175 | 260 | 260 | 260 | 260 | 260 |
| Power | kW | 3 | 3 | 4 | 4 | 4 | 7.5 | 7.5 |
| Hydraulic Pump Station | kg | I | / | / | / | / | 165 | 261 |



# DRILLING RIG KC725

## Product Introduction

KC725 series tracked submersible drilling developed to meet the market demand of the new submersible drilling , the product has excellent performance, flexible operation, complete functions, wider adaptability, has a high cost performance. This product can be widely used in open pit mining, construction foundation excavation, water conservancy, power station, transportation and national defense construction and other projects in the rock drilling operations, but also can drill anchor hole, geological pressure.



| model | | KC725 |
|---|---|---|
| MODEL | Adapt to rock hardness | 6~20 |
| | Borehole diameter(mm) | 83~105(90) |
| | Economic drilling deep(m) | 25 |
| | Single climbing ability(°) | 25 |
| | Push way | Cylinder chain |
| | Push the trip(mm) | 2000 |
| | Maximum lifting force(kN) | 12 |
| | Rotary torque(N ·m) | 1200 |
| | Rotation speed(r/min) | 0~100 |
| | Workwind pressure(MPa) | 0.6~1.6 |
| | Blast consumption(m3/min) | 7-12 |
| | Host power(kw) | 40 |
| | Horizontal angle of the drill arm(°) | Left :32 Right:17 |
| | Speed of travel (km/h) | 2 |
| | Ground clearance (mm) | 300 |
| | Dimension(mm) | 4250×1980×2260 |
| | Weight(kg) | 3000 |

# ROCK DRILL



## Rock drill

It is a tool used for directly mining stone materials . It drills holes in the rock layers in order to insert explosives to blast open the rocks, thus completing the mining of stone materials or other stone works. In addition, rock drills can also be converted into crushers to break hard layers such as concrete.

## Purpose of rock drill

Mining and construction operations - The application scope includes building demolition operations, geological exploration drilling and foundation engineering, as well as various functions such as splitting, crushing, compacting, chiseling, and fire rescue for cement and asphalt pavements, making it suitable for drilling, splitting, blasting, and mining in various mines .

## Characteristics of Rock Drill

The weight is relatively light , generally below 25kg, and can be operated with hands during operation. It can drill various small diameter and shallow boreholes. Generally, only downward and nearly horizontal holes are drilled.

| Item | Weight kg | Length mm | Brazing Tail Specification mm | Hole Diameter Range mm | Piston Diameter mm | Piston Stroke mm | Air Consumption L/S |
|---|---|---|---|---|---|---|---|
| HY18 | 18 | 556 | B22*108 | 30~42 | 58 | 50 | 24 |
| HY19 | 19 | 600 | B22×108 | 30~42 | 65 | 54 | 43 |
| HY20 | 20 | 556 | B22×108 | 30~42 | 64 | 52 | 29 |
| YT24 | 24 | 678 | B22×108 | 30~42 | 70 | 70 | 50 |
| YT27 | 27 | 668 | H22×108±1 | 34~42 | 80 | 60 | 57 |
| YT28 | 26 | 661 | H22×108±1 | 34~42 | 80 | 60 | 58 |
| YT29A | 27 | 659 | H22×108±1 | 34~45 | 82 | 60 | 65 |
| Gasoline Rock Drill | | | | | | | |
| YN27 | 27 | 746 | H22×108±1 | 34~45 | 58 | 70 | Gasoline |



# PNEUMATIC BREAKER

## Application area

Gas picks and are mainly used for crushing concrete, permafrost, and ice; Road repair, pit digging, and trenching; Mining soft rocks, coal, etc., replacing accessories can be used for construction operations that require impact, such as loading and unloading track pins.
Product Characteristics
The gas picks is durable, lightweight, and have good performance, with simple operation.



| Pneumatic Pick | | | |
|---|---|---|---|
| | B87C | B67C | B47C |
| Impact Frequency | 18 HZ | 24HZ | 21.6HZ |
| Air Consumption | 55 L/s max | 42L/s max | 23L/s max |
| Working Pressure | 0.63 Mpa | 0.63 Mpa | 0.63 Mpa |
| Air Hose Inner Diameter | 19 mm | 19MM | 19MM |
| Length | 686 mm | 615mm | 550mm |
| Weight | 39 KG | 30KG | 21.5KG |
| Diameter Of Tail Pick | 32 mm | 25mm | 25mm |
| Length Of Tail Pick | 152 mm | 108mm | 108mm |
| Bit Fixation Style | Lock /Unlock | Lock /Unlock | Lock /Unlock |

| Item | G7 | G10 | G15 | G20 | G40 |
|---|---|---|---|---|---|
| Lenght | 530mm | 530mm | 530mm | 600mm | 600mm |
| Piston Stroke | 155mm | 155mm | 155mm | 185mm | 185mm |
| Air Comsumption | ≤20L/s | ≤26L/s | ≤26L/s | ≤30L/s | ≤35L/s |
| Cylider Diameter | 15KG | 38mm | 38mm | 39mm | 45mm |
| Work Pressure | 0.4-0.63Mpa | 0.4-0.63Mpa | 0.4-0.63Mpa | 0.4-0.63Mpa | 0.4-0.63Mpa |
| Impact Frequency | ≥16Hz | ≥16Hz | ≥16Hz | ≥16Hz | ≥16Hz |
| Drill rod diameter | ∅ 25*75mm | ∅ 25*75mm | ∅ 25*75mm | ∅ 25*75mm | ∅ 25*75mm |
| Size (L*W*H) mm | 530*150*90 | 530*150*90 | 530*150*90 | 600*150*90 | 600*150*90 |
| Weight | 15Kg | 15Kg | 15Kg | 20Kg | 30Kg |

# WATER WELL DRILLING

# KY180 KY200 KY260





## Water well drilling rig features:

1. Engine: well-known brand Guangxi Yuchai turbocharged engine;
2. Traveling device: equipped with new traveling motor and reducer, with long service life;
3. Hydraulic oil pump: imported from the United States, parallel gearbox design, independent oil pump, providing sufficient and reasonable power distribution. The advanced hydraulic system has unique design, simple maintenance and low cost;
4. Power head device; the box is integrally formed, and the dual motors provide greater power, greater torque, more durability, and lower maintenance costs;
5. Drilling rig chassis; professional excavator chassis, classic and durable, load-bearing, wide chain plate width, Less damage to hard pavement;
6. Lifting force: The designed composite boom is used, which is small in size, long in stroke, double-cylinder lifting force, and large in lifting tonnage of the drilling rig;
The boom configured with the rig body is provided with a limit device to protect the safety of the oil cylinder and ensure work safety;
7. Each hydraulic oil pipe is covered with a thick protective sleeve, so that the oil pipe has a longer service life;
8. Dual systems can be installed: 1. Air power system with air compressor 2. Mud pump system with mud pump

| Main technical specifications | KY180 | KY200 | KY260 |
|---|---|---|---|
| The weight（T） | 5.2 | 5 | 6.5 |
| The hole diameter（mm） | 140-254 | 140-254 | 140-305 |
| Drilling depth（m） | 180 | 200 | 260 |
| One-time advance length（m） | 3.3 | 3.3 | 3.3 |
| Walking speed（km/h） | 2.5 | 2.5 | 2.5 |
| Climbing angles（Max.） | 30 | 30 | 30 |
| Equipped capacitor（kw） | 60 | 65 | 70 |
| Using air pressure（MPA） | 1.7-2.5 | 1.7-2.5 | 1.7-3.0 |
| Air consumption（$m^3$/min） | 17-31 | 17-31 | 17-31 |
| Swing speed（rpm） | 45-70 | 45-70 | 45-70 |
| The penetration efficiency（m/h） | 10-35 | 10-35 | 10-35 |
| Drill pipe diameter（mm） | Φ76 Φ89 | Φ76 Φ89 | Φ76 Φ89 |
| Drill pipe length（m） | 1.5m 2.0m 3.0m | 1.5m 2.0m 3.0m | 1.5m 2.0m 3.0m |
| Rig lifting force（T） | 12 | 13 | 15 |
| Rapid rise speed（m/min） | 20 | 30 | 24 |
| Fast feeding speed（m/min） | 40 | 60 | 28 |
| Width of loading（m） | 2.4 | 2.6 | 2.73 |
| Hoisting force of winch（T） | ---- | 1.5 | 1.5 |
| Swing torque（N.m） | 3200-4600 | 3400-4700 | 4000-5300 |
| Dimension（mm） | 4000×1630×2250 | 3950*1750*2250 | 4000*1850*2300 |
| Equipped with hammer | Medium and high wind pressure series | Medium and high wind pressure series | Medium and high wind pressure series |
| High leg stroke（m） | 1.4 | 1.4 | 1.4 |
| The engine brand | yuchai or cummins | | |

# WATER WELL DRILLING



## Water well drilling rig features:

1. The chassis of the drilling rig adopts a professional traveling motor with a gearbox, which has a longer service life;
2. The gearbox is integrally formed, double motors, stronger power, larger torque, more durable, and low maintenance cost;
3. It adopts professional excavator chassis, which is sturdy and durable, bears heavy load, wide chain plate, and has little damage to hard road surface;
4. Each hydraulic oil pipe is covered with a thick protective sleeve, which makes the oil pipe have a longer service life;
5. Dual systems can be installed: 1. Air power system with air compressor 2. Mud pump system with mud pump



# KY300 KY350 KY400

| Main technical specifications | KY300 | KY350 | KY400 |
|---|---|---|---|
| The weight(T) | 7.2 | 8.6 | 9.2 |
| The hole diameter(mm) | 140-325 | 140-325 | 140-325 |
| Drilling depth(m) | 300 | 350 | 400 |
| One-time advance length(m) | 3.3/4.8 | 6.6 | 6.6 |
| Walking speed(km/h) | 2.5 | 2.5 | 2.5 |
| Climbing angles(Max.) | 30 | 30 | 30 |
| Equipped capacitor(kw) | 85 | 92 | 96 |
| Using air pressure(MPA) | 1.7-3.0 | 1.7-3.4 | 1.7-3.4 |
| Air consumption($m^3$/min) | 17-36 | 17-36 | 17-36 |
| Swing speed(rpm) | 40-70 | 66-135 | 66-135 |
| The penetration efficiency(m/h) | 15-35 | 15-35 | 15-35 |
| Drill pipe diameter(mm) | Φ76 Φ89 Φ102 | Φ89 Φ102 | Φ89 Φ102 |
| Drill pipe length(m) | 1.5m 2.0m 3.0m | 1.5m 2.0m 3.0m 6.0m | 1.5m 2.0m 3.0m 6.0m |
| Rig lifting force(T) | 18 | 22 | 24 |
| Rapid rise speed(m/min) | 22 | 18 | 20 |
| Fast feeding speed(m/min) | 40 | 33 | 40 |
| Width of loading(m) | 2.7 | 2.7 | 2.8 |
| Hoisting force of winch(T) | 2 | 2 | 2 |
| Swing torque(N.m) | 5700-7500 | 6200-8500 | 6500-9000 |
| Dimension(mm) | 4100×2000×2260 | 6000×2000×2550 | 5900×2100×2550 |
| Equipped with hammer | Medium and high wind pressure series | Medium and high wind pressure series | Medium and high wind pressure series |
| High leg stroke(m) | 1.4 | 1.4 | 1.4 |
| The engine brand | yuchai or cummins | | |

# WATER WELL DRILLING

# KY450 KY500 KY600



## KY450 type water well drilling rig features:

1. It is an efficient and multifunctional groundwater drilling equipment, which can be used for drilling water wells, agricultural irrigation wells, geothermal wells and other wells. It is especially suitable for water intake projects in mountainous areas and rock formations.
2. The machine can drill holes in different strata (rock layer, mud layer, sand layer), and the maximum diameter can reach 450mm.
3. This machine adopts high-torque hydraulic motor power head and brand diesel oil, and the hydraulic control system adopts large-diameter hydraulic cylinder. The brand diesel is protected by a two-stage air filtration system, and the clean air from the air compressor can also be used directly.
4. Unique bump design and centralized control operating system are easy to maintain and operate.
5. This machine adopts excavator crawler chassis, which has high off-road performance and can also be installed on trucks, with stronger mobility.
6. Two gear rotation and feed speed to make it work in soil and rock layers.
7. The independent heat dissipation dual system adopts hydraulic oil temperature cooling and is equipped with traditional air cooling. long engine life
8. Engine brand: Weichai (Deutz brand technology) 103KW Euro III emission standard
9. Dual systems can be installed: 1. Air power system with air compressor 2. Mud pump system with mud pump

| Main technical specifications | KY450 | KY500 | KY600 |
|---|---|---|---|
| The weight(T) | 9.4 | 11.5 | 12 |
| The hole diameter(mm) | 140-350 | 140-350 | 140-350 |
| Drilling depth(m) | 450 | 500 | 600 |
| One-time advance length(m) | 6.6 | 6.6 | 6.6 |
| Walking speed(km/h) | 2.5 | 2.5 | 2.5 |
| Climbing angles(Max.) | 30 | 30 | 30 |
| Equipped capacitor(kw) | 103 | 118 | 132 |
| Using air pressure(MPA) | 1.7-3.5 | 1.7-3.5 | 1.7-3.5 |
| Air consumption($m^3$/min) | 17-36 | 17-42 | 17-42 |
| Swing speed(rpm) | 50-135 | 40-130 | 45-140 |
| The penetration efficiency(m/h) | 15-35 | 15-35 | 15-35 |
| Drill pipe diameter(mm) | Φ89 Φ102 | Φ102 Φ108 Φ114 | Φ102 Φ108 Φ114 |
| Drill pipe length(m) | 1.5m 2.0m 3.0m 6.0m | 1.5m 2.0m 3.0m 6.0m | 1.5m 2.0m 3.0m 6.0m |
| Rig lifting force(T) | 25 | 26 | 28 |
| Rapid rise speed(m/min) | 20 | 20 | 20 |
| Fast feeding speed(m/min) | 40 | 40 | 40 |
| Width of loading(m) | 2.8 | 2.85 | 2.85 |
| Hoisting force of winch(T) | 2 | 2 | 2 |
| Swing torque(N.m) | 7000-9500 | 7500-10000 | 8500-11000 |
| Dimension(mm) | 5950*2100*2600 | 6150×2200×2600 | 6300×2200×2650 |
| Equipped with hammer | Medium and high wind pressure series | Medium and high wind pressure series | Medium and high wind pressure series |
| High leg stroke(m) | 1.6 | 1.6 | 1.7 |
| The engine brand | yuchai or cummins | | |

# WATER WELL DRILLING



**KY800 water well drilling rig features: water and gas dual-purpose crawler type 800 meters deep water drilling features:**

1. Equipped with a 194KW Cummins brand 6-cylinder turbo engine with strong power and long service life;
2. Patented design compound boom, double oil cylinder lift, strengthen the tower;
3. (Italy imported oil pump) 3 oil pumps, equipped with foam pump, winch, multi-function generator, front outrigger swing arm oil cylinder;
4. Each drilling rig is equipped with a baffle on the main arm to protect the oil cylinder;
5. The diameter of the hole is large, the hole is deep, and the advancing speed is fast.
6. Drilling rig chassis: Reinforced steel crawler, large chassis, strong and durable, heavy bearing, wide chain plate, large tonnage.
7. Parallel transmission design, sufficient power, reasonable distribution, unique hydraulic system design, simple maintenance and low cost.
8. The independent heat dissipation dual system adopts hydraulic oil temperature cooling and is equipped with traditional air cooling. long engine life
9. Equipped with dual systems: 1. Air power system with air compressor 2. Mud pump system with mud pump



# KY700 KY800 KY1000

| Main technical specifications | KY700 | KY800 | KY1000 |
|---|---|---|---|
| The weight(T) | 13 | 13 | 13 |
| The hole diameter(mm) | 140-400 | 140-400 | 140-520 |
| Drilling depth(m) | 700 | 800 | 1000 |
| One-time advance length(m) | 6.6 | 6.6 | 7 |
| Walking speed(km/h) | 2.5 | 2.5 | 3 |
| Climbing angles(Max.) | 30 | 30 | 30 |
| Equipped capacitor(kw) | 153 | 194 | 194 |
| Using air pressure(MPA) | 1.7-3.5 | 1.7-3.5 | 1.7-3.5 |
| Air consumption($m^3$/min) | 17-42 | 17-42 | 17-42 |
| Swing speed(rpm) | 45-140 | 45-140 | 45-140 |
| The penetration efficiency(m/h) | 15-35 | 15-35 | 15-35 |
| Drill pipe diameter(mm) | Φ102 Φ108 Φ114 | Φ102 Φ108 Φ114 Φ117 | Φ102 Φ108 Φ114 Φ117 |
| Drill pipe length(m) | 1.5m 2.0m 3.0m 6.0m | 1.5m 2.0m 3.0m 6.0m | 1.5m 2.0m 3.0m 6.0m |
| Rig lifting force(T) | 28 | 36 | 50 |
| Rapid rise speed(m/min) | 20 | 20 | 20 |
| Fast feeding speed(m/min) | 40 | 40 | 40 |
| Width of loading(m) | 2.95 | 2.95 | 2.95 |
| Hoisting force of winch(T) | 2 | 2 | 5 |
| Swing torque(N.m) | 8850-13150 | 9000-14000 | 9000-20000 |
| Dimension(mm) | 6300×2300×2650 | 6300×2300×2650 | 6300×2300×2950 |
| Equipped with hammer | Medium and high wind pressure series | Medium and high wind pressure series | Medium and high wind pressure series |
| High leg stroke(m) | 1.7 | 1.7 | 1.7 |
| The engine brand | yuchai or cummins | | |

# TRUCK MOUNTED WATER WELL DRILLING

# KYC280 KYC350 KYC450




## Truck-mounted water well drilling rig

Description: It is multi-functional truck mounted top head drilling  rig with the air compressor,mud pump are on the same truck chassis.Drilling technology can be mud positive circulation, DTH-hammer, air lift reverse circulation,Mud DTH-hammer.

1.Multi function truck mounted water well riling rig is a new type, high efficiency and multi-function full hydraulic driig rig, which ismainly used for dirilig water wells, monitoring wells, geothermal alr-conditioning holes, grouting holes for hydropower cofferdams,anti-seepagegrouting holes for dams, groutig holes for foundation reinforcement, open-pit mining, anchoring, national defense engineering and other deep holedrilling processes.
2.The rig is equipped with high-power hydraulic motor, hydraulic boom, DTH hammer drilling, and large flow mud pump, which can realize mud driling
3. The mud pump and air compressor are all on the same car chassis, which is convenient and efficient, and the overall erformance is higher thanother types of drilling rigs.KYC280 and above with foam pump.According to customers' requirements, independent diesel engine can be equipped as drilling power.customers' requirements, independent dieseengine can be equipped.

| | KYC280 | KYC350 | KYC450 |
|---|---|---|---|
| The hole diameter (mm) | 140-305 | 140-325 | 140-350 |
| Drilling depth (m) | 280 | 350 | 450 |
| Equipped capacitor (KW) | 75Kw or truck engine direct connection | Yuchai 92Kw or truck engine direct connection | Weichai 103Kw or truck engine link |
| Drill pipe diameter (mm) | 76/89 | 89/102/114 | 89/102/114 |
| Hoisting force of winch (T) | 1.5 | 1.5 | 1.5 |
| The penetration efficiency (m/h) | 15-35 | 15-35 | 15-35 |
| One-tine advance length (m) | 6.6 | 6.6 | 6.6 |
| Rig lifting force(T) | 17 | 22 | 25 |
| Swing torque (N.m) | 4500-6000 | 6200-8500 | 7000-9500 |
| Swing speed (rpm) | 40-70 | 66-135 | 50-135 |
| Using air pressure (MAP) | 1.7-3.0 | 1.7-3.4 | 1.7-3.5 |
| Air consumption ($m^3$/min) | 17-31 | 17-36 | 17-36 |
| Air compressor (optional) | | | |
| Discharge pressure (Bar) | 25 | 25 | 25 |
| Engine displacement (m/min) | 31 | 31 | 31 |
| Other Optional Parts | | | |
| Foam pump （m3/min） | 14.5 | | |
| Mud pump | BW250/450 | | |
| Truck | Dong feng/HOWO | | |
| Multifunctional generator | Can generate electricity and can be welded (convenient casing) | | |

# WATER WELL DRILLING



**water well drilling rig Features: Water and gas dual-purpose vehicle-mounted (tricycle) 200 meters deep water drilling Features:**

1. Equipped with a 65KW Yuchai brand turbocharged engine with strong power;
2. Patented design compound boom, double cylinder lifting;
3. Each drilling rig is equipped with a baffle on the main arm to protect the oil cylinder;
4. It has high flexibility, is sturdy and durable, has little damage to the road surface, and is easy to move;
5. Parallel transmission design, independent oil pump, sufficient power, reasonable distribution, unique hydraulic system design, simple maintenance and low cost.
6. The whole machine uses a three-wheeled tractor with high horsepower and low torque, which can cope with more complex road conditions and is easy to move.
7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump



# KY130 KYL200 KQZ200

| | KY130 | KYL 200 | KQZ200D |
|---|---|---|---|
| The weight(T) | 3 | 4.7 | 1.8 |
| The hole diameter(mm) | 100-219 | 140-254 | 100-254 |
| Drilling depth(m) | 130 | 200 | 200 |
| One-time advance length(m) | 2.3 | 3.3 | 1.8 |
| Walking speed(km/h) | 3 | 20-40 | _ |
| Climbing angles(Max.) | 30 | 30 | _ |
| Equipped capacitor(kw) | 23 | 65 | 11 |
| Using air pressure(MPA) | 1.45-2.5 | 1.7-2.5 | 1.45-2.5 |
| Air consumption(m3/min) | 15-29 | 17-31 | 15-27 |
| The penetration efficiency(m/h) | 10-35 | 10-35 | 10-35 |
| Drill pipe diameter(mm) | Φ76 Φ89 | Φ76 Φ89 | Φ76 Φ89 |
| Drill pipe length(m) | l.5m 2.0m | 1.5m 2.0m 3.0m | 1.5 |
| Rig lifting force(T) | 6 | 13 | 13 |
| Rapid rise speed(m/min) | 15 | 20 | 20 |
| Fast feeding speed (m/min) | 23 | 40 | 40 |
| Swing speed(rpm) | 40-65 | 45-65 | 52 |
| Swing torque(N.m) | 2200-3000 | 3400-4700 | 2000-3000 |
| Dimension(mm) | 3850x1560x2050 | 4350×1600×2450 | 2350×16200×1550 |
| High leg stroke(m) | 0.6 | 1.4 | _ |
| The engine brand | Changchai engine | Quanchai engine | Electrical |

# CORE DRILLING RIG

# KDL-280 KDL-350



KDL-280 mechanical top drive drilling rig is a kind of drilling equipment independently developed by the company that integrates the functions of water diling and air drilling.The drilling rig adopts a 5-speed manual automobile gearbox and a mechanical top drive power head.It has a wide speed range,convenient forward and reverse switching,high mechanical transmission efficiency,and greatly reduced power energy consumption.It is more efficient and energy-saving,which solves the problems of ifficult air DTH hammer drilling in soil layers and low construction efficiency of rotary drilling rigs in hard rock layers,gravel and pebble layers.

| Rig type | KDL-280 | KDL-350 |
|---|---|---|
| Weight | 3800kg | 6000kg |
| Dimension (transport) | 4600*1900*2540mm | 6300*2000*2600mm |
| Dimension(working) | 3800*2200*5700mm | 3800*2400*7600mm |
| Dilling angle | 90° | 90° |
| Drilling depth for water well | 200m | 350m |
| Wireline coring N size | 350m | 600m |
| Borehole (Drill it)dia | φ75-220mm | φ75-220mm |
| Drill head lifting force | 100kN | 120kN |
| Drill head feeding force | 50kN | 85kN |
| Rotary speed RPM | Forward:33-1120rpm Reverse:37-180rpm | Forward:27-901rpm Reverse:48-219rpm |
| Max.Torque | 9800N.m | 10500N.m |
| Drillhead feed stroke | 2300mm | 3500mm |
| Drill pipe dia. | φ60、φ76、φ89mm NQ/HQ/PQ | |
| Engine Model | | |
| Rated power/speed | 42kW/2400rpm | 58kW/2400rpm |
| Walking speed | 0-2km/h | |
| Climbing angle | 25-30° | |
| Mechanical winch capacity | 30kN | |
| Mud pump | BW160/BW200/BW250(Optional) | |
| Crawler chassis | Rubber 350mm*56 | Steel 300mm*38 |
| Crawler load | 5000kg | 6000kg |

# CORE DRILLING RIG

# KDL-600 KDL-800

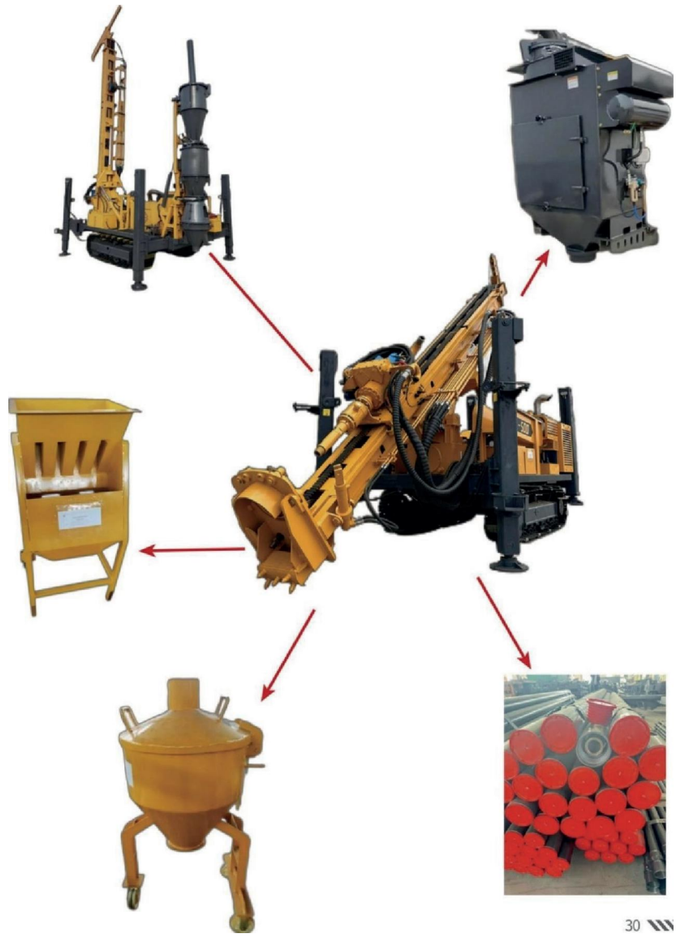


Crawler type full hydraulic core dilling rig is a new type of full hydraulic core drilling rig designed by our company after careful optimization and innovative design based on extensive reference to advanced technologies of similar drilling rigs at home and abroad.This drilling rig is for diamond wireline coring drilling process,with excellent performance,high drilling speed,stable operation,easy operation,safe and reliable,and highly integrated design,making the whole machine compact and functional,with low failure rate and simple maintenance,which significantly improves drilling efficiency and drilling quality.

| Rig type | KDL-600 | KDL-800 |
|---|---|---|
| Weight | 4500kg | 6500kg |
| Dimension (transport) | 4500*1900*2650mm | 4400*2200*2800mm |
| Dimension (working) | 4500*2500*6100mm | 4000*2700*6500mm |
| Dilling angle | 45-90° | 45-90° |
| Drilling depth BTW | 650m | 1000m |
| Drilling depth NTW | 600m | 800m |
| Diling depth HTW | 400m | 600m |
| Drillhead lift force | 240kN | 300kN |
| Drillhead feed force | 120kN | 150kN |
| Rotary speed RPM | 0-1100rpm | 0-1100rpm |
| Max.Torque | 1400N.m | 1800N.m |
| Drillhead feed stroke | 1800mm | 1800mm |
| Drill mast slide stroke | 800mm | 1200mm |
| Hydraulic pumps | 95ml/r.32MPa(Primary pump)<br>80ml/r.25MPa(Auxiliary pump) | 95ml/r.32MPa(Primary pump) 80ml/r.25MPa(Auxiliary pump) |
| Hydraulic cooling system | Water cooling | Water cooling+Air cooling |
| Power unit | 91kW/2200rpm<br>Yuchai 4-cylinder engine | 92kW/2200<br>Yuchai 6-cylinder engine |
| Hydraulic winch capacity | 600m | 800m |
| Mechanical winch capacity | 15kN | 20kN |
| Winch lifting speed | 110m/min 110m/min | |
| Mud pump | BW100/BW160(Optional) | |
| Crawler | 300mm | 300m/8t |
| Crawler climbing angle | 25° | 25° |
| Crawler walking speed | 2-3km/h | 2-3km/h |

# REVERSE CIRCULATION DRILLING RIG/ RC DRILLING RIG

Reverse Circulation Drilling/RC driling, is a drilling method that uses a double-walled drill pipe consisting of an outer drill pipe and an inner pipe. These hollow inner tubes allow the cuttings to flow continuously and steadily back to the surface. Unlike the wireline coring method, the RC drill obtains a cuttings sample rather than a core. The drilling principle is to break the rock layer by driving a tungsten steel drill bit with a pneumatic drill hammer, which is used to break up hard rock. When compressed air is blown out, the pressure shift creates a reverse circulation, allowing cuttings to move up into the inner tube. When the cuttings reach the surface, the sample is shrunk through a hose connected to the cyclone, and then the sample is dropped into the sample bag through the bottom opening.







# YGL-180RC YGL-220RC YGL-300RC YGL-500RC

Circular drilling, or RC drilling, is a drilling method that uses a double-walled drill pipe consisting of an outer drill pipe and an inner pipe. These hollow inner tubes allow the cuttings to flow continuously and steadily back to the surface. Unlike the wireline coring method, the RC drill obtains a cuttings sample rather than a core. The drilling principle is to break the rock layer by driving a tungsten steel drill bit with a pneumatic drill hammer, which is used to break up hard rock. When compressed air is blown out, the pressure shift creates a reverse circulation, allowing cuttings to move up into the inner tube. When the cuttings reach the surface, the sample is shrunk through a hose connected to the cyclone, and then the sample is dropped into the sample bag through the bottom opening.

## Technical specification

| Model | | YGL-180RC | YGL-220RC | YGL-300RC | YGL-500RC |
|---|---|---|---|---|---|
| Drill rig weight(crawler mounted) | kg | 9500 | 9800 | 10000 | 12000 |
| Length × Width × Height (normal) | mm | 6350×2200×2950 | 6300×2000×2500 | 6750×2300×2800 | 7650x2250x3217 |
| Nominal Drill Depth | m | 180 | 250 | 300 | 500 |
| Drill Diameter | mm | φ100~φ350 | φ100~φ350 | φ100~φ350 | φ100~φ350 |
| Drill head output | | | | | |
| Output Rotation Speed | rpm | 40/80 70/140 | 40/80 70/140 | 55/110 | 30/60 52/104 |
| Max Output Torque | N.m | 8500 | 8500 | 10000 | 12000 |
| Stroke of power head | | | | | |
| Feeding | mm | 3500 | 3500 | 3500 | 7000 |
| Thrust Force | Kn | 45 | 60 | 100 | 100 |
| Lifting Capacity | Kn | 65 | 85 | 150 | 160 |

| Model | | CUMMINS | CUMMINS | CUMMINS | CUMMINS |
|---|---|---|---|---|---|
| power | | 6BT-C180/ 132KW | 6BT-C180/ 132KW | 6BT-C180/ 132KW | 6BT-C190/ 142KW |
| Rotary Speed (Max.) | rpm | 2200 | 2200 | 2200 | 2200 |
| Optional electric power | m | 55+37Kw | 55+37Kw | - | - |
| Track Chassis Base | | | | | |
| Width of Pedrail | mm | 400 | 400 | 400 | 400 |
| Walk Speed | Km/h | 2 | 2 | 2 | 2 |
| Climb Ability | | ≤ 20 | ≤ 20 | ≤ 20 | ≤ 20 |

# PORTABLE DIESEL ENGINE SCREW AIR COMPRESSOR

| Project Parameters | Unit | KG-18/18 | KG-24/22 | KG-31/25 | KG-32/28 | KG-36/30 | KG-40/25 |
|---|---|---|---|---|---|---|---|
| Air Delivery | m3/min | 18 | 24 | 31 | 32 | 36 | 40 |
| Rated Work Pressure | bar | 18 | 22 | 25 | 28 | 30 | 25 |
| Air End | | Two Stage | Two Stage | Two Stage | Two Stage | Two Stage | Two Stage |
| Gas Tank Capacity | L | 127 | 130 | 210 | 210 | 260 | 260 |
| Compressor oil capacity | L | 80 | 90 | 137 | 137 | 145 | 145 |
| Fuel Tank Volume<br>Engine Parameters | L | 270 | 300 | 450 | 450 | 550 | 550 |
| Manufacturers | | Cummins | YuChai | Cummins | YuChai | Cummins | Cummins |
| Number Of Cylinders | | 6 | 6 | 6 | 6 | 6 | 6 |
| Engine power | kW | 157 | 228 | 264 | 295 | 410 | 410 |
| Max .Speed | rpm | 2200 | 2000 | 1900 | 1900 | 1900 | 1900 |
| No-load speed | rpm | 1400 | 1400 | 1400 | 1300 | 1300 | 1300 |
| Lubricating oil | L | 24 | 28 | 30 | 32 | 35 | 35 |
| Coolant Volume | L | 60 | 70 | 70 | 75 | 80 | 80 |
| Motor Battery | | 6-QW-165MF(x2) | | 6-QW-220 MF(x2) | | | |
| External Dimensions | Unit | Length x Width x Height | | | | | |
| Size | mm | 3400x1980x2210 | 3650x1900x2100 | 3480x1960x1950 | 3900x1960x2250 | 4050x2100x2350 | |
| Weight | kg | 3280 | 4200 | 4600 | 4800 | 5300 | |
| Outlet Valve | | 1xG2" +1xG1" | | 2xG2" +1xG1" | 2xG2" | | |









# PORTABLE DIESEL ENGINE SCREW AIR COMPRESSOR

| Model | KG185-8 | KG250-8 | KG330-8 | KG300-10 | KG400-13 | KG550-13 |
|---|---|---|---|---|---|---|
| Air Delivery( m3/min) | 5 | 7 | 10 | 8 | 10 | 15 |
| Pressure(bar) | 8 | 8 | 8 | 10 | 13 | 13 |
| Gas Tank Capacity( L) | 80 | 100 | 100 | 100 | 120 | 130 |
| Screw Oil Quantity(L) | 40 | 48 | 48 | 48 | 54 | 65 |
| Engine Manufacturer | FAW | Yuchai | Yuchai | Yuchai | Cummins | Cummins |
| Number of Cylinders | 4 | 6 | 6 | 6 | 6 | 6 |
| Rated Power( kw) | 36.8 | 50 | 85 | 85 | 110 | 132 |
| Rated Speed(rpm) | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| Idling Speed(rmp) | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 |
| Diesel Engine | 9 | 9 | 9 | 9 | 24 | 24 |
| Coolant Volume( L) | 20 | 20 | 20 | 20 | 60 | 60 |
| Fuel Tank Volume(L) | 80 | 115 | 115 | 115 | 150 | 200 |
| Battery | 6-QW-165MFx2 | 6-QW-105MF | 6-QW-105MF | 6-QW-105MF | 6-QW-135MF | 6-QW-165MF |
| Size Of Outlet Exhaust Valve | G3/4" | 1-G1.5" 1-G1" | 1-G1.5" 1-G1" | 1-G1.5" 1-G1" | 1-G2" 1-G1" | 1-G2" 1-G1" |
| Size(mm) | 1940x1200x1240 | 2880x1740x1760 | 2880x1740x1760 | 2880x1740x1760 | 3860x1900x1960 | 4600x2050x2410 |
| Weight( kg) | 750 | 1950 | 1950 | 1950 | 2450 | 3280 |
| Unit Travel Mode | Two wheeled movement | | | | | Four wheeled movement |






# PORTABLE ELECTRICAL SCREW AIR COMPRESSOR

| Name | KGD110-14 | KGD110-18 | KGD132-14 | KGD132-18 |
|---|---|---|---|---|
| Air Delivery(m³/min) | 18.5 | 15 | 22 | 18.3 |
| Pressure(bar) | 14 | 18 | 14 | 18 |
| Air End | Two stage | Two stage | Two stage | Two stage |
| Gas Tank Capacity(L) | 130 | 130 | 130 | 130 |
| Screw Oil Quantity(L) | 100 | 100 | 100 | 100 |
| Engine Model | YE2-280M-4-B35 | YYES-280M-4-B35 | YE2-315 L-4-B35 | YE2-315 L-4-B35 |
| Motor Power(kw) | 110 | 110 | 132 | 132 |
| Motor Speed(rpm) | 1490 | 1490 | 1490 | 1490 |
| Power Supply(v/p/hz) | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 |
| Start Up Mode | Y- △ | Y- △ | Y- △ | Y- △ |
| Transmission Mode | Direct Connection | | | |
| Interface Size | G2"/G1" | G2"/G1" | G2"/G1" | G2"/G1" |
| Length(mm) | 3855 | 3855 | 3855 | 3855 |
| Width(mm) | 1880 | 1880 | 1880 | 1880 |
| Height(mm) | 2350 | 2350 | 2350 | 2350 |
| Weight(kg) | 3200 | 3200 | 3200 | 3200 |
| Unit Travel Mode | Four wheeled movement | | | |






# PORTABLE ELECTRICAL SCREW AIR COMPRESSOR

| Name | KGD55-8Z | kGD55-13Z | KGD75-8Z | KGD75-13Z | KGD90-8Z | KGD90-14Z |
|---|---|---|---|---|---|---|
| Air Delivery(m³/min) | 10.5 | 7 .5 | 12 .5 | 10.5 | 15.5 | 12 .5 |
| Pressure(bar) | 8 | 13 | 8 | 13 | 8 | 14 |
| Air End | Single | Single | Single | Single | Single | Single |
| Gas Tank Capacity(L) | 80 | 80 | 80 | 80 | 100 | 100 |
| Screw Oil Quantity(L) | 20 | 20 | 20 | 20 | 30 | 30 |
| Engine Model | Y2-225 M-2/55KW | | Y2-250M-2/75 KW | | YJT-250M3-2/90KW | |
| Motor Power(kw) | 55 | 55 | 75 | 75 | 90 | 90 |
| Motor Speed(rpm) | 2970 | 2970 | 2970 | 2970 | 2970 | 2970 |
| Power Supply(v/p/hz) | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 |
| Start Up Mode | Y- △ | | | | | |
| Transmission Mode | Direct Connection | | | | | |
| Interface Size | G1"/G1 .5" | | | | | |
| Length(mm) | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |
| Width(mm) | 1850 | 1850 | 1850 | 1850 | 1850 | 1850 |
| Height(mm) | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 |
| Weight(kg) | 1369 | 1359 | 1650 | 1585 | 1867 | 1802 |
| Unit Travel Mode | Two wheeled movement | | | | Four wheeled movement | |



# DIESEL PISTON AIR COMPRESSOR

| Model | Air delivery | Outlet pressure | RPM | Diesel Engine | Piston displacement | Tank size | Dimension | Weight |
|---|---|---|---|---|---|---|---|---|
| | m³/min | Mpa | r/min | | mm | L | L×W×H(mm) | kg |
| W1.8/5 | 1.8 | 0.5 | 1180 | S1100 | 80 | 130 | 1630×750×1150 | 299 |
| W2.85/5 | 2.85 | 0.5 | 1070 | S1110 | 100 | 200 | 1570×940×1290 | 400 |
| W3.0/5 | 3.0 | 0.5 | 1070 | S1115 | 100 | 200 | 1750×940×1290 | 410 |
| W3.5/5 | 3.5 | 0.5 | 1070 | S1125 | 100 | 200 | 1750×940×1290 | 350 |
| W3108 | 2.0 | 0.7 | 1150 | S1105 | 80 | 130 | 1630x750×1150 | 320 |
| W3118 | 3.0 | 0.7 | 1080 | S1115 | 100 | 200 | 1750×940×1290 | 435 |
| W3128 | 3.5 | 0.7 | 990 | S1125 | 110 | 230 | 1800×940×1290 | 450 |
| HV-4.0/5 | 4 | 0.5 | 970 | L32 | 100 | 230 | 1900×1070×1260 | 540 |
| 2V-4.0/5 | 4 | 0.5 | 980 | QC490G/35KW | 100 | 230 | 1900×930x1235 | 580 |
| HS-4.5/6 | 4.5 | 0.6 | 980 | QC490G/35KW | 112 | 200 | 1460X924×1210 | 550 |









# ELECTRICAL PISTON AIR COMPRESSOR

| Model | Air delivery | Outlet pressure | RPM | Power | Piston displacement | Tank size | Dimension | Weight |
|---|---|---|---|---|---|---|---|---|
| | m³/min | Mpa | r/min | kw | mm | L | mm | kg |
| HW10007 | 1.05 | 0.7 | 850 | 7.5 | 72 | 320 | 1690×530×1260 | 335 |
| HW10012 | 0.8 | 1.25 | 950 | 7.5 | 72 | 320 | 1690×530×1260 | 335 |
| HW15007 | 1.5 | 0.7 | 830 | 11 | 80 | 320 | 1740×590×1350 | 487 |
| HW15012 | 1.2 | 1.25 | 850 | 11 | 80 | 320 | 1740×590×1350 | 487 |
| HW20007 | 2.0 | 0.7 | 830 | 15 | 110 | 500 | 1835×635×1460 | 582 |
| HW20012 | 1.65 | 1.25 | 800 | 15 | 110 | 500 | 1740×590×1350 | 582 |
| HW25007 | 3.5 | 0.7 | 980 | 18.5 | 110 | 500 | 1840×640×1460 | 655 |



# ELECTRICAL SCREW AIR COMPRESSOR







| Model | Power kw | Free Air m3/min | Working Pressure bar | Dimension mm | Weight kg |
|---|---|---|---|---|---|
| LG7EZ | 7.5 | 1.0 | 8 | 940x665×825 | 200 |
| LG11EZ | 11 | 1.7 | 8 | 1170x690×940 | 300 |
| LG15EZ | 15 | 2.0 | 8 | 1170x690×940 | 350 |
| LG22EZ | 22 | 3.4 | 8 | 1250x770x1120 | 500 |
| LG37EZ | 37 | 6.1 | 8 | 1300x880x1250 | 600 |
| LG55EZ | 55 | 10.0 | 8 | 1600×970x1450 | 1200 |
| LG75EZ | 75 | 12.0 | 8 | 1750x1030×1450 | 1600 |
| LG90G-8 | 90 | 16.6 | 8 | 2050*1430*1500 | 2000 |
| LG110G-8 | 110 | 20 | 8 | 2600*1600*1825 | 2350 |
| LG132G-8 | 132 | 24 | 8 | 2600*1600*1825 | 2550 |
| LG160G-8 | 160 | 28 | 8 | 3160*1680*1945 | 3100 |
| LG185G-8 | 185 | 32 | 8 | 3160*1680*1945 | 3250 |
| LG250G-8 | 250 | 42 | 8 | 3510*1980*2100 | 5400 |
| LG315G-8 | 315 | 53 | 8 | 4220*2020*2450 | 6200 |



## Connector



## Drill tools



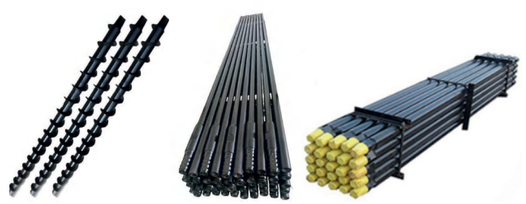
## Drill bit



## Drill hammer



## Drill rod



## Hydraulic hammer



## Water detector-mineral detector

