

# Portable Screw Air Compressor



The enterprise passes the ISO9001:2000 international quality system certification



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Hongkong Fengguang Industry Ltd  
Dongguan City Qianwei Mechanical Equipment Technology Ltd  
Airstone Screw Air Compressor Manufacturer







**\*Aerial view of the plant**

## Enterprise brief

### introduction

Airstone Group is considered one of the leading manufacturers of air compressor products in Guangdong, China. Airstone has over 500 employees. Our goal is to provide exceptional customer service coupled with quality products and energy saving solutions.

Airstone's primary businesses focus in following key areas: Oil-injected rotary screw compressors (Belt driven and Direct driven. Fixed speed and Variable speed. High, Normal and Low pressure.) Portable air compressors (Diesel-powered and Electric motor powered) Oil free air compressors (Dry type, Scroll type, Piston type and Water-lubricated type) Centrifugal compressors

At Airstone, we earn our customers' trust and satisfaction by manufacturing the superior quality compressed air products for all industries. All of our products are designed for reliable performance, easy maintenance, and maximum energy efficiency. Airstone has been exporting to more than 150 countries across the globe. We have the largest international sales and service team in China compressor industry.

Airstone continuously innovates product development and management to meet customers' demand. The powerful enterprise culture and continuous innovation make Airstone improved rapidly to reach the business principle "Energy Saving First, Mutual Value Shared".

Airstone's vision is to be a world-renowned high-end energy-saving machinery brand, with sustainable development, constantly improving its own value and sharing it with our customers and staff, committed to continuously satisfy the needs of global companies by providing a full range of industrial air compression solutions.



Diesel Engine Portable  
Screw Air Compressor



ASCY15/13



ASCY15/18



ASCY5/8



ASCY6/8

Technicalparameters

| Model number                |              | ASCY5/8                |  | ASCY6/8                |  | ASCY5.5/13    |  | ASCY15/13     |  | ASCY 24/13    |  | ASCY16/16 /ASCY17/13 |  | ASCY10/18           |  | ASCY16/25       |  | ASCY 31/25    |  |
|-----------------------------|--------------|------------------------|--|------------------------|--|---------------|--|---------------|--|---------------|--|----------------------|--|---------------------|--|-----------------|--|---------------|--|
| Machine                     |              |                        |  |                        |  |               |  |               |  |               |  |                      |  |                     |  |                 |  |               |  |
| Free Ar delivery            | m³/min       | 5                      |  | 6                      |  | 5.5           |  | 15            |  | 24            |  | 16/17                |  | 10                  |  | 16.8            |  | 31            |  |
|                             | CFM          | 185                    |  | 215                    |  | 196           |  | 536           |  | 850           |  | 570/607              |  | 350                 |  | 600             |  | 1100          |  |
| Normal orking Pressure      | bar(g)       | 8                      |  | 8                      |  | 13            |  | 13            |  | 13            |  | 16/13                |  | 18                  |  | 25              |  | 25            |  |
|                             | psi(g)       | 116                    |  | 116                    |  | 190           |  | 190           |  | 190           |  | 235/190              |  | 260                 |  | 360             |  | 360           |  |
| Weight                      | KGS          | 700                    |  | 1000                   |  | 1400          |  | 2500          |  | 3508          |  | 2500                 |  | 2700                |  | 3700            |  | 4500          |  |
| Dimension                   | L (mm)       | 1600                   |  | 2300                   |  | 2500          |  | 3000          |  | 3200          |  | 3000                 |  | 3000                |  | 3200            |  | 3442          |  |
|                             | W (mm)       | 1100                   |  | 1460                   |  | 1650          |  | 1776          |  | 2000          |  | 1776                 |  | 1776                |  | 2000            |  | 1956          |  |
|                             | H (mm)       | 1600                   |  | 1550                   |  | 1600          |  | 2420          |  | 2600          |  | 2420                 |  | 2420                |  | 2500            |  | 2220          |  |
| Wheel qty                   |              | 2                      |  | 2                      |  | 2             |  | 4             |  | 4             |  | 4                    |  | 4                   |  | 4               |  | 4             |  |
| Outlet                      |              | G1-1/2"                |  | G1-1/2"                |  | G1-1/2inch    |  | G1* G1-1/2"   |  | G1-1/2" *G2"  |  | G1* G1-1/2"          |  | G1* G1-1/2"         |  | G11/2"          |  | 3 *G2"        |  |
| Diesel Engine               |              |                        |  |                        |  |               |  |               |  |               |  |                      |  |                     |  |                 |  |               |  |
| Engine Manufacturer         |              | Yuchai                 |  | Yuchai                 |  | Yuchai        |  | Cummins       |  | Cummins       |  | Cummins              |  | Yuchai              |  | Cummins         |  | Yuchai        |  |
| Model number                |              | XCD4N12T-55/4BT3.9-C80 |  | XCD4N12T-55/4BT3.9-C80 |  | D7QG7         |  | 6BTA5.9-C180  |  | 6CTA8.3-C260  |  | QSB5.9-C210 30       |  | YC6V150Z-K20        |  | 6CTA8.3-C260-II |  | YC6MK400-H300 |  |
| Cylinder*Diameter*stoke     |              | 4*93*103               |  | 4*93*103               |  | 4*93*103      |  | 6*102.*120    |  | 6*114*135     |  | 6*102*120            |  | 6*105*125           |  | 6*108*135       |  | 6*123*145     |  |
| Rated power                 | KW           | 41                     |  | 41                     |  | 73.5          |  | 132           |  | 194           |  | 154                  |  | 110                 |  | 194             |  | 295           |  |
| Discharge                   | L            | 2.799                  |  | 2.799                  |  | 2.799         |  | 6.494         |  | 8.3           |  | 5.9                  |  | 4.873               |  | 8.3             |  | 10.38         |  |
| Engine speed (Norminal)     | RPM          | 2650                   |  | 2650                   |  | 2000          |  | 2000          |  | 2200          |  | 2200                 |  | 2200                |  | 2200            |  | 2200          |  |
| Engine speed (Full loading) | RPM          | 2400                   |  | 2400                   |  | 1950          |  | 1950          |  | 1800          |  | 1800                 |  | 1600                |  | 1900            |  | 1800          |  |
| Egine speed (Unloading)     | RPM          | 1450                   |  | 1450                   |  | 1450          |  | 1350          |  | 1500          |  | 1420                 |  | 1200                |  | 1500            |  | 1350          |  |
| Engine oil capacity         | L            | 7                      |  | 7                      |  | 10            |  | 17            |  | 22            |  | 17                   |  | 11                  |  | 22              |  | 28            |  |
| Coolant oil capacity        | L            | 12                     |  | 12                     |  | 40            |  | 20            |  | 50            |  | 20                   |  | 20                  |  | 50              |  | 60            |  |
| Fuel tank volume            | L            | 75                     |  | 75                     |  | 50            |  | 230           |  | 360           |  | 230                  |  | 230                 |  | 360             |  | 360           |  |
| Battery                     | Model number | 6-QW-120MF             |  | 6-QW-120MF             |  | 6-QW-120MF    |  | 6QW-165MF     |  | 6QW-165MF     |  | 6QW-165MF            |  | 6-QW-120MF/6-QW-126 |  | 6QW-165MF       |  | 6QW-165MF     |  |
| Compressor                  |              |                        |  |                        |  |               |  |               |  |               |  |                      |  |                     |  |                 |  |               |  |
| Driven method               |              | Direct driven          |  | Direct driven          |  | Direct driven |  | Direct driven |  | Direct driven |  | Direct driven        |  | Direct driven       |  | Direct driven   |  | Direct driven |  |
| Compressor stage            |              | single stage           |  | single stage           |  | single stage  |  | single stage  |  | Two stage     |  | Two stage            |  | Two stage           |  | Two stage       |  | Two stage     |  |
| Lubircant capaicty          | L            | 20                     |  | 32                     |  | 20            |  | 48            |  | 80            |  | 48                   |  | 48                  |  | 78              |  | 90            |  |

| Model number                |              | ASCY10/18       | ASCY13/18     | ASCY15/18      | ASCY17/18     | ASCY19/18     | ASCY11/20       | ASCY 20/20    | ASCY16/30     |
|-----------------------------|--------------|-----------------|---------------|----------------|---------------|---------------|-----------------|---------------|---------------|
| Machine                     |              |                 |               |                |               |               |                 |               |               |
| Free Ar delivery            | m³/min       | 10.6            | 13            | 15             | 17            | 19            | 11.2            | 20            | 16.8          |
|                             | CFM          | 380             | 460           | 536            | 607           | 675           | 400             | 714           | 600           |
| Normal orking Pressure      | bar(g)       | 18              | 18            | 18             | 18            | 18            | 20              | 20            | 30            |
|                             | psi(g)       | 260             | 260           | 260            | 260           | 260           | 294             | 294           | 435           |
| Weight                      | KGS          | 2500            | 2700          | 2500           | 2700          | 3508          | 2500            | 3508          | 3800          |
| Dimension                   | L (mm)       | 3000            | 3000          | 3000           | 3000          | 3200          | 3000            | 3200          | 3300          |
|                             | W (mm)       | 1676            | 1776          | 1776           | 1776          | 2000          | 1676            | 2000          | 2000          |
|                             | H (mm)       | 2100            | 2420          | 2420           | 2420          | 2600          | 2100            | 2600          | 2500          |
| Wheel qty                   |              | 4               | 4             | 4              | 4             | 4             | 4               | 4             | 4             |
| Outlet                      |              | G1-1/2"         | G1* G1-1/2"   | G1* G1-1/2"    | G1* G1-1/2"   | G1-1/2" *G2"  | G1-1/2"         | G1-1/2" *G2"  | G11/2"        |
| Diesel Engine               |              |                 |               |                |               |               |                 |               |               |
| Engine Manufacturer         |              | Cummins         | Yuchai        | Cummins        | Yuchai        | Yuchai        | Cummins         | Cummins       | Cummins       |
| Model number                |              | 6BTA5.9-C180-II | YC6B180Z-T21  | QSB5.9-C210 30 | YCA07240-T300 | YCD6Q33T6-260 | 6BTA5.9-C180-II | 6CTA8.3-C260  | 6LTAA8.9-C360 |
| Cylinder*Diameter*stoke     |              | 6*102*120       | 6*105*125     | 6*102*120      | 6*108*132     | 6*108*135     | 6*102*120       | 6*114*135     | 6*114*145     |
| Rated power                 | KW           | 132             | 140           | 154            | 177           | 191           | 132             | 194           | 264           |
| Discharge                   | L            | 5.9             | 6.494         | 5.9            | 7.255         | 7.42          | 5.9             | 8.3           | 8.9           |
| Engine speed (Norminal)     | RPM          | 2200            | 2200          | 2200           | 2200          | 2200          | 2200            | 2200          | 2200          |
| Engine speed (Full loading) | RPM          | 2000            | 1600          | 2000           | 1800          | 1850          | 1800            | 1800          | 1900          |
| Engine speed (Unloading)    | RPM          | 1420            | 1200          | 1420           | 1420          | 1450          | 1420            | 1500          | 1500          |
| Engine oil capacity         | L            | 17              | 17            | 17             | 22            | 22            | 17              | 22            | 27.4          |
| Coolant oil capacity        | L            | 20              | 20            | 20             | 20            | 50            | 20              | 50            | 60            |
| Fuel tank volume            | L            | 230             | 230           | 230            | 360           | 360           | 230             | 360           | 400           |
| Battery                     | Model number | 6QW-165MF       | 6QW-165MF     | 6QW-165MF      | 6QW-165MF     | 6QW-165MF     | 6QW-165MF       | 6QW-165MF     | 6QW-165MF     |
| Compressor                  |              |                 |               |                |               |               |                 |               |               |
| Driven method               |              | Direct driven   | Direct driven | Direct driven  | Direct driven | Direct driven | Direct driven   | Direct driven | Direct driven |
| Compressor stage            |              | single stage    | Two stage     | Two stage      | Two stage     | Two stage     | Two stage       | Two stage     | Two stage     |
| Lubircant capaicty          | L            | 48              | 48            | 48             | 80            | 80            | 48              | 80            | 78            |



Motor Driven Portable  
Screw Air Compressor

Product Feature:

Adopted stepless air inlet control to make the whole machine efficient and energy-saving  
High efficiency four pole motor, longer service life and more reliable  
More reasonable underframe design makes the fuselage more solid and stable



ASDY21-15



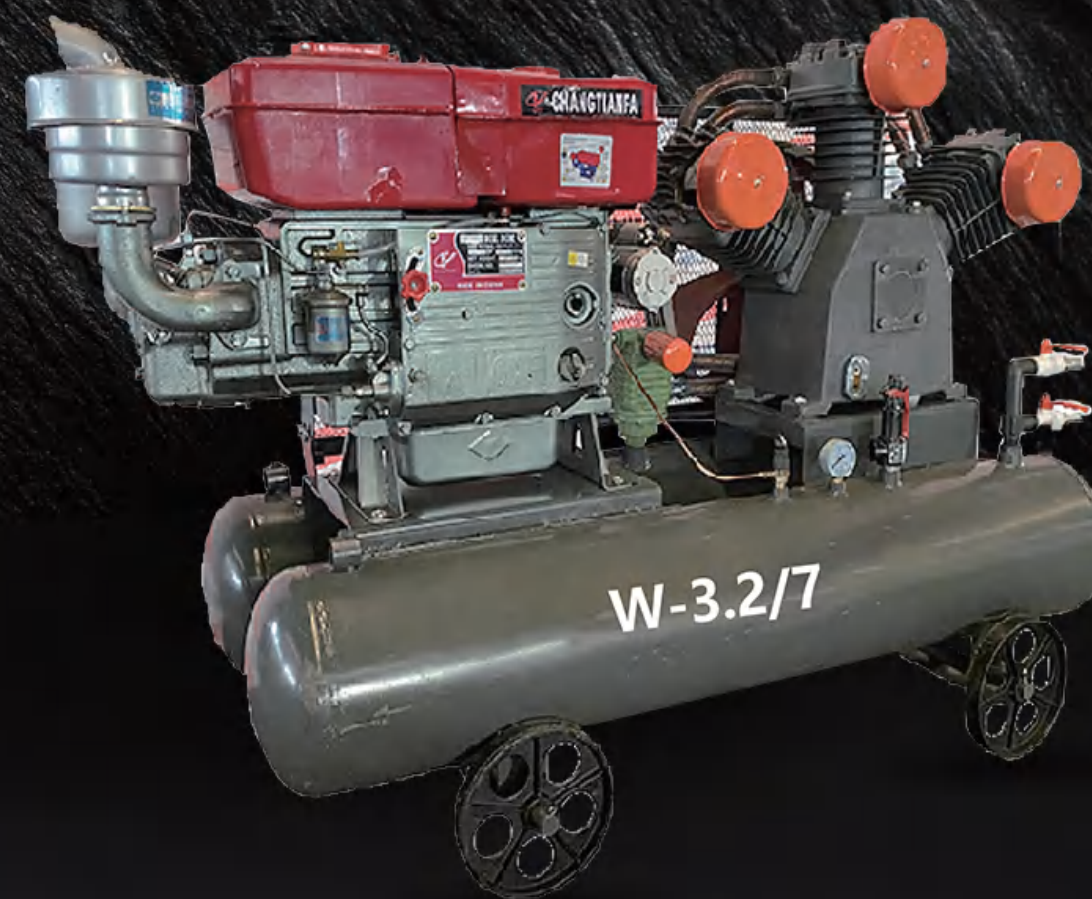
ASDY16-13

Technical parameters

| Model        | Motor  | Motor Power | Air capacity | Pressure | Connector size | Net Weight | Dimension        |
|--------------|--------|-------------|--------------|----------|----------------|------------|------------------|
| ASDY 13.6-8  | Hanson | 75 KW       | 13.6m3/min   | 8 bar    | G1 " G11/2"    | 1700 kg    | 2600*1500*1800mm |
| ASDY 13-14.5 | Hanson | 90 KW       | 13.0m3/min   | 14.5 bar | G1 " G11/2"    | 1700 kg    | 2600*1500*1800mm |
| ASDY 15-17   | Hanson | 132 KW      | 15.0m3/min   | 17 bar   | G11/2 " G2"    | 2850 kg    | 2850*1810*2150mm |
| ASDY 16-13   | Hanson | 110 KW      | 16.0m3/min   | 13 bar   | G11/2 " G2"    | 2850 kg    | 2850*1810*2150mm |
| ASDY 17-18   | Hanson | 132 KW      | 17.0m3/min   | 18 bar   | G11/2 " G2"    | 2850 kg    | 2850*1810*2150mm |
| ASDY 20-18   | Hanson | 185 KW      | 20.0m3/min   | 18 bar   | G11/2 " G2"    | 2966 kg    | 3370*1824*2350mm |
| ASDY 21-16   | Hanson | 175 KW      | 21.0m3/min   | 16 bar   | G11/2 " G2"    | 3350 kg    | 3370*1824*2350mm |
| ASDY 24-14   | Hanson | 185 KW      | 24.0m3/min   | 14 bar   | G11/2 " G2"    | 3350 kg    | 3370*1824*2350mm |



## Diesel Engine Mobile piston compressor







W-1.8/5



W-2.8/5



W-3.2/7



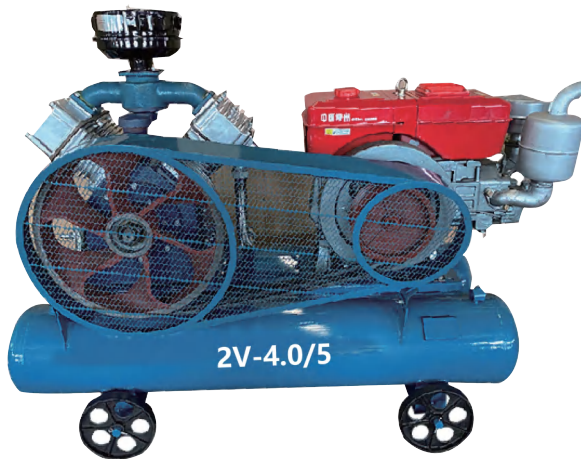
SF-4.0/5



W-3.0/5



W-3.5/5



2V-4.5/5



W-3.5/5J

| Model   | Power        | Cylinders pcs*mm | Rpm r/min | Air capacity M3/min | Pressure Mpa (Kg/cm3) | Weight KG | Dimension L*W*H mm |
|---------|--------------|------------------|-----------|---------------------|-----------------------|-----------|--------------------|
| W-1.8/5 | S1100*11kw   | 3 x φ100         | 1200      | 1.8                 | 0.5 (5)               | 300       | 1500*600*950       |
| W-2.6/5 | S1100*15kw   | 3 x φ115         | 1030      | 2.6                 | 0.5 (5)               | 450       | 1670*820*1150      |
| W-2.8/5 | S1100*15kw   | 3 x φ115         | 1120      | 2.8                 | 0.5 (5)               | 450       | 1670*820*1150      |
| W-3.0/5 | S1115*18.5kw | 3 x φ120         | 1070      | 3.0                 | 0.5 (5)               | 460       | 1880*870*1230      |
| W-3.5/5 | S1115*18.5kw | 3 x φ125         | 1170      | 3.5                 | 0.5 (5)               | 460       | 1880*870*1240      |
| W-3.2/7 | S1125*22kw   | 3 x φ125         | 980       | 3.2                 | 0.7 (7)               | 480       | 1820*740*1520      |

| Model    | Power        | Cylinders pcs*mm | Rpm r/min | Air capacity M3/min | Pressure Mpa (Kg/cm3) | Weight KG | Dimension L*W*H mm |
|----------|--------------|------------------|-----------|---------------------|-----------------------|-----------|--------------------|
| SF-4.0/5 | S1125*22kw   | 4 x φ120         | 1070      | 4.0                 | 0.5 (5)               | 655       | 1960*860*1300      |
| 2V-3.5/5 | S1115*18.5kw | 4 x φ115         | 980       | 3.5                 | 0.5 (5)               | 650       | 1800*950*1300      |
| 2V-4.0/5 | S1100*15kw   | 4 x φ120         | 980       | 4.0                 | 0.5 (5)               | 750       | 1800*950*1300      |



## Crawler type **drilling rig**

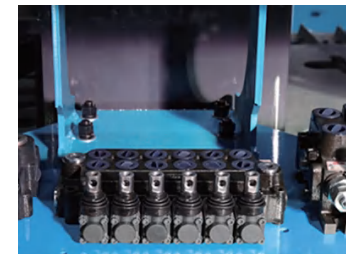




## Product advantage



High efficiency diesel engine, supercharged and intercooled, adopts BDSCH high pressure common rail system. Strong power, low fuel consumption and low noise which can meet national emission requirements.



Newly designed hydraulic system, equipped with well-known hydraulic valve, centrally arranged, easy to operate. Reliable and long service life.

High efficiency air filter assembly is equipped with a large flow rate and safety filter element, which can effectively protect the engine for a long time and prolong the service life of the engine.



Newly designed rotary head, hydraulic four-speed 0-110r/min. Low-speed, high-torque, high-speed and low-torque adapt to various industrial and mining requirements. The rotary spindle never wears out. Lengthened wear plates and lateral rollers for stable perforation. Manganese steel flat iron up and down the guide rail. The propulsion beam moves smoothly.



High efficiency induction motor, extremely low operating temperature and energy conversion losses and stable to ensure long term no fault operation.



Brand-name roller chain has high tensile strength. Equipped with waterproof and dustproof sprockets for long service life.

The controller can control the operation of parts accurately with collecting all operating data to diagnose and indicate the fault, alert to protect the compressor.



Imported German brand host. Fleetguard has two four-stage air intake air filter assemblies, with large flow and high filtration accuracy.



Humanized dashboard design, centralized display, simple and convenient control. Concentrated pressure display, small vibration, accurate pressure measurement, improve the life of the pressure gauge.



IP67 protection level for famous brand engine controller, humanized design, centralized display, stable operation, simple and convenient. Concentrated pressure display, low vibration, accurate oil pressure, and prolong the life of the pressure gauge. The newly designed hydraulic system is equipped with well-known hydraulic valves, which are centrally arranged and easy to operate.



The fuel is equipped with a large capacity oil-water separator, high-efficiency three-stage precision filtration. Cast iron gear pump, high pressure resistance, wear resistance and long service life.



High-efficiency, four-wheeled, high-torque plunger for excavators. Walk-in motor, strong climbing ability. Widened engineering crawler, the whole machine runs smoothly.







AS420

Product Feature:

- Increase the power of engine, use high -power famous brand diesel engines
- Adopt a line motor to improve the life of the system
- Optimize the system to make work efficiency higher
- Extend the advance length of drill to make the speed faster

Technical parameters

| Model                                   | AS420                   |
|-----------------------------------------|-------------------------|
| Working pressure(Mpa)                   | 0.7-1.6                 |
| Capacity(m3/min)                        | 10-20                   |
| Rock drilling hardness                  | F=6-20                  |
| Drilling diameter(mm)                   | 90-145                  |
| Drilling depth(m)                       | 30                      |
| One-time Advance Length of the Drill(m) | 3                       |
| Drilling tube length(mm)                | 3000 (2000mm open hole) |
| Drilling tube specification(mm)         | φ76*3000                |
| Compensation length(mm)                 | 950                     |
| Rotation speed(r/min)                   | 0-70                    |
| Push power(N)                           | 35000                   |
| Boom Down&Up                            | Down&Up70°              |
| Boom Left&Right                         | L45°,R45°90°            |
| Carriage Down&Up                        | Down&Up100°             |
| Carriage Left&Right                     | L91°,R17°               |
| Climbing Angels                         | 30°                     |
| Ground Clearance(mm)                    | 560                     |
| Weight(Ton)                             | 5                       |
| Dimension(mm)                           | 5100*2260*2550          |
| Engine                                  | YuchaiYC4D80(58KW)      |





AS420CD

Product Feature:

Increase the power of engine, use high -power famous brand diesel engines  
Adopt a line motor to improve the life of the system  
Optimize the system to make work efficiency higher

Technical parameters

| Model                                   | AS420CD                    |
|-----------------------------------------|----------------------------|
| Working pressure(Mpa)                   | 0.7-1.6                    |
| Capacity(m3/min)                        | 9-16                       |
| Rock drilling hardness                  | F=6-20                     |
| Drilling diameter(mm)                   | 90-145                     |
| Drilling depth(m)                       | 30                         |
| One-time Advance Length of the Drill(m) | 3                          |
| Drilling tube length(mm)                | 3000 (2000mm open hole)    |
| Drilling tube specification(mm)         | φ60*3000                   |
| Compensation length(mm)                 | 1200                       |
| Rotation speed(r/min)                   | 0-70                       |
| Push power(N)                           | 35000                      |
| Boom Down&Up                            | Down&Up70°                 |
| Boom Left&Right                         | L45°,R45°90°               |
| Carriage Down&Up                        | Down&Up100°                |
| Carriage Left&Right                     | L91°,R17°                  |
| Climbing Angels                         | 30°                        |
| Ground Clearance(mm)                    | 300                        |
| Weight(Ton)                             | 6                          |
| Dimension(mm)                           | 6000*2260*2550             |
| Engine                                  | YuchaiYC4D80(58KW)or(45KW) |





AS425

Product Feature:

Increase the power of engine, use high -power famous brand diesel engines  
Adopt a line motor to improve the life of the system

Technical parameters

| Model                                   | AS425                   |
|-----------------------------------------|-------------------------|
| Working pressure(Mpa)                   | 0.7-2.0                 |
| Capacity(m3/min)                        | 10-20                   |
| Rock drilling hardness                  | F=6-20                  |
| Drilling diameter(mm)                   | 90-145                  |
| Drilling depth(m)                       | 30                      |
| One-time Advance Length of the Drill(m) | 3                       |
| Drilling tube length(mm)                | 3000 (2000mm open hole) |
| Drilling tube specification(mm)         | φ76*3000                |
| Compensation length(mm)                 | 1220                    |
| Rotation speed(r/min)                   | 60-80                   |
| Push power(N)                           | 35000                   |
| Boom Down&Up                            | Down&Up70°              |
| Boom Left&Right                         | L45°,R45°90°            |
| Carriage Down&Up                        | Down&Up100°             |
| Carriage Left&Right                     | L91°,R17°               |
| Climbing Angels                         | 30°                     |
| Ground Clearance(mm)                    | 560                     |
| Weight(Ton)                             | 5                       |
| Dimension(mm)                           | 5100*2260*2550          |
| Engine                                  | 58KW                    |





AS430

Product Feature:

- Diesel engine&Electric engine dual-power, energy saving and efficient, stronger adaptability
- Increase the power of engine, use high -power famous brand diesel engines
- Adopt a line motor to improve the life of the system
- Optimize the system to make work efficiency higher
- Extend the advance length of drill to make the speed faster

Technical parameters

| Model                                   | AS430                   |
|-----------------------------------------|-------------------------|
| Working pressure(Mpa)                   | 0.7-2.0                 |
| Capacity(m3/min)                        | 10-20                   |
| Rock drilling hardness                  | F=6-20                  |
| Drilling diameter(mm)                   | 90-145                  |
| Drilling depth(m)                       | 30                      |
| One-time Advance Length of the Drill(m) | 3                       |
| Drilling tube length(mm)                | 3000 (2000mm open hole) |
| Drilling tube specification(mm)         | φ76*3000                |
| Compensation length(mm)                 | 1220                    |
| Rotation speed(r/min)                   | 60-80                   |
| Push power(N)                           | 35000                   |
| Boom Down&Up                            | Down&Up70°              |
| Boom Left&Right                         | L45°,R45°90°            |
| Carriage Down&Up                        | Down&Up100°             |
| Carriage Left&Right                     | L91°,R17°               |
| Climbing Angels                         | 30°                     |
| Ground Clearance(mm)                    | 560                     |
| Weight(Ton)                             | 6.5                     |
| Dimension(mm)                           | 7370*2360*2560          |
| Engine                                  | 74KW                    |