

Split Down-the-hole Drilling Rig

- ◆SWDQ series crawler hydraulic down-the-hole drilling rig, with comprehensively optimized structure, lower advance cost and more ergonomic design.
- ◆With diesel engine-hydraulic pump unit as power source, the hydraulic motor completes the auxiliary actions such as slewing, propulsion, lifting, traveling and hydraulic oil cylinder swing positioning of the drilling rig. The product is mainly used for drilling and blasting holes in hydropower projects, open-pit mining and road construction.



Off-road capability

- ◆The vehicle body is designed with a gravity shaft device, which reduces the frictional resistance during traveling, enhances the firmness of the connection between the body and the track, so the chassis of the drilling rig is more durable and not easy to deform.
- ◆The passability when crossing a slope and longitudinal gradeability can reach 20° and 35°, respectively.

Slewing power head

- ◆Spur-gear reduction gear, with low temperature rise, high carrying capacity and long service life.
- ◆The slewing speed can be adjusted according to the rock hardness.
- ◆The slewing head is equipped with Eaton hydraulic pump, which works stably.
- ◆The standard configuration is equipped with a reinforced shock-absorbing joint to reduce the damage to the slewing reduction gear caused by the impact reaction force of drill holes.

Dust removal device

- ◆The pulse jet blowing dust removal technology features strong dust removal ability with high efficiency, small air leakage rate, as well as low emission concentration and energy consumption, enabling the dust collector to operate in a stable and reliable manner and protect the health of operators.
- ◆High-quality filter material ensures the dust removal efficiency and service life.

| Item                       |        | SWDQ120             | SWDQ138      |
|----------------------------|--------|---------------------|--------------|
| Main parameters            |        |                     |              |
| Hole diameter              | mm     | 90-152              | 90-178       |
| DTH hammer                 | "      | 3.5、4、5             | 3.5、4、5      |
| Tube diameter              | mm     | 64、76               | 76、89        |
| Tube length                | m      | 3m×7                | 3m×7         |
| Maximum hole depth         | m      | 21                  | 21           |
| Dust collector             | -      | Dry cleaning system |              |
| Air compressor             |        |                     |              |
| Working pressure           | bar    | 17-25               | 17-25        |
| Engine                     |        |                     |              |
| Brand                      | -      | YuChai              | YuChai       |
| Model                      | -      | YC4A100-T302        | YC4A100-T302 |
| Power rating               | kW/rpm | 73.5/2200           | 73.5/2200    |
| Fuel tank volume           | L      | 155                 | 155          |
| Feed system                |        |                     |              |
| Total length               | mm     | 5750                | 5750         |
| Feed extension             | mm     | 1200                | 1200         |
| Feed force                 | kN     | 12.5                | 12.5         |
| Pitch angle                | °      | 135                 | 135          |
| Turning angle              | °      | L30 R90             | L30 R90      |
| Drill boom                 |        |                     |              |
| Lifting angle              | °      | -22-65              | -22-65       |
| Swing angle                | °      | L45 R40             | L45 R40      |
| Carrier                    |        |                     |              |
| Tramming speed             | km/h   | 3.2                 | 3.2          |
| Gradeability               | °      | 35                  | 35           |
| Rotary head                |        |                     |              |
| Rotation speed             | rpm    | 0-110               | 0-85         |
| Torque                     | Nm     | 2300                | 3500         |
| Dimension                  |        |                     |              |
| Weight                     | kg     | 7200                | 7200         |
| L × W × H (work)           | m      | 4.8×2.8×5.8         | 4.8×2.8×5.8  |
| L × W × H (Transportation) | m      | 5.8×2.2×2.3         | 5.8×2.2×2.3  |