

Large multi-functional rotary drilling rig - rock entry expert



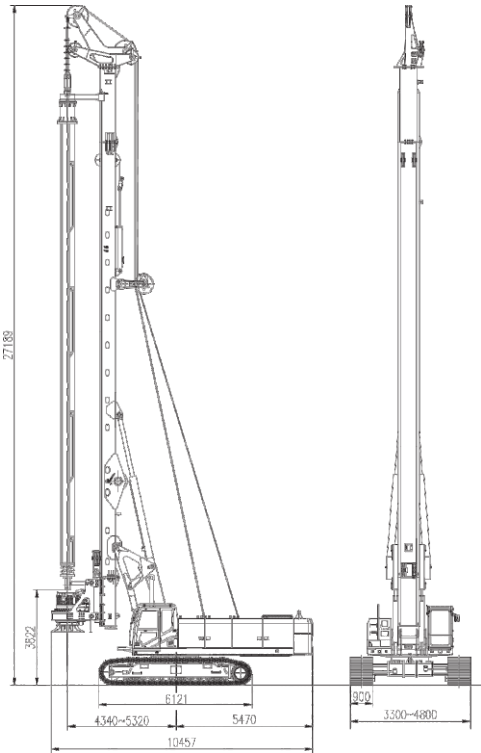
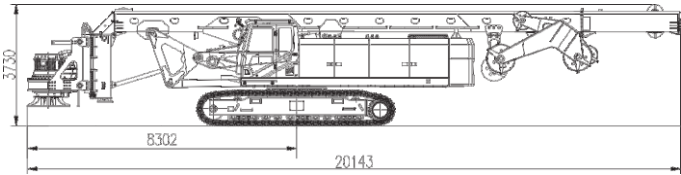
SWDM 360HSA

Comprehensive Technical Parameters

| Parameters | | Model | SWDM360H3 |
|-----------------|----------------------------|--------|------------|
| Drill hole | Max. pile diameter | mm | 2500(3000) |
| | Max. pile depth | m | 102/66 |
| Engine | Brand | | cummins |
| | Model | | QSX15-C550 |
| | Rated Power | kW@rpm | 410@2100 |
| Rotary head | Maximum torque | kN.m | 418 |
| | Rotor speed | rpm | 6~25 |
| Main winch | Maximum lifting force | kN | 390 |
| | Maximum lifting speed | m/min | 76 |
| | Wire rope diameter | mm | 40 |
| Crowd system | Max. crowd force | kN | 340 |
| | Maximum lifting force | kN | 380 |
| | Maximum stroke | mm | 13000 |
| Auxiliary winch | Maximum lifting force | kN | 110 |
| | Maximum lifting speed | m/min | 65 |
| | Wire rope diameter | mm | 24 |
| Drilling mast | Lateral inclination | ° | ±4 |
| | Front and rear inclination | ° | 5/90 |
| Chassis | Track width | mm | 900 |
| | Telescopic width of track | mm | 3300~4800 |
| | Chassis length | mm | 6120 |
| Whole machine | Working height | mm | 27200 |
| | Operating weight | t | 134 |

- ◆ Characterized by strong power, ultra-large torque, and ultra-strong rock entry capability, it has set an example for rock-entry models in the industry.
- ◆ The vertical pins of the rotary head are connected, ensuring more reasonable stress and easiness in removing pin shafts. The power box is subjected to 6 seals to effectively prevent sediment from entering.
- ◆ QSX15-C550 high-power imported Cummins engine is used, featuring strong power, low fuel consumption, and low noise.
- ◆ The hydraulic system is provided with load sensing technology plus total power and limiting power control technology, rendering higher efficiency and saving more energy. A large-flow pump valve is adopted so that the main winch is lifted and lowered rapidly, with high construction efficiency.
- ◆ The newly designed pressurized steel wire rope drill mast is of back-down type, which is convenient and fast without removing the pressurized steel wire rope during transportation.
- ◆ Concealed auxiliary outriggers at the bottom of the mast can assist in the placement of the hole casing and facilitate the maintenance of the chassis.
- ◆ The newly optimized pipeline layout reduces pressure loss, enlarges the space, and facilitates maintenance. The drilling mast transition pipeline is arranged in a single row to prevent wear between oil pipes.
- ◆ Dedicated anti-vibration technology applied for rock entry working conditions, in conjunction with drilling masts made of high-strength materials, wide and large double-boom luffing mechanism, and new reinforced special extendable chassis, enables high fatigue resistance and long service life.
- ◆ A large-diameter roller is used to realize single-layer winding of steel wire rope under full drilling depth, increasing the service life by 50%. A centralized lubricating system is provided, facilitating more convenient maintenance and prolonging the service life of the rig.
- ◆ Fault self-diagnosis alarm, real-time display of control parameters, and dedicated one-key locking of the electromagnetic handle save worry and efforts of operation; Sunward Cloud mobile APP realizes synchronous transmission of construction data and real-time monitoring of equipment status.
- ◆ It can be equipped with the industry's pioneering wireless remote control device to realize remote control traveling, luffing, and other functions. Under special working conditions, it is placed "outdoors", so the field of vision is wider to ensure safety.
- ◆ It has wide functional extension and strong technical practicability and can realize multiple functions of one machine. It can be used for the construction of CFA long spiral drilled press-grouting pile, visible and controllable enlarged bottom cast-in-place pile, and large-diameter non-uniform piles. It can be modified into DTH hammer for construction and equipped with slewing joint device, which can realize the reverse circulation and efficient rock entry of extra-large-diameter and ultra-deep hole DTH.
- ◆ This model won the Golden Public Praise Award of the top 50 china construction machinery annual products.

Transportation status (unit: mm)



Working state (unit: mm)

Drill pipe parameters

| Model | Drill pipe specification | Drilling depth (m) | Drill pipe weight (kg) | Configuration | Model | Drill pipe specification | Drilling depth (m) | Drill pipe weight (kg) | Configuration |
|-----------|---------------------------|--------------------|------------------------|---------------|-----------|--------------------------|--------------------|------------------------|---------------|
| SWDM360H3 | Friction kelly580-6X18.4m | 102 | 21000 | ○ | SWDM360H3 | Locking kelly580-4X18.4m | 66 | 19900 | Standard |
| | Friction kelly580-6X14.5m | 78 | 17177 | ☆ | | Locking kelly580-4X13.5m | 47 | 15183 | ☆ |
| | Friction kelly580-6X12.5m | 66 | 15216 | ★ | | Locking kelly580-4X12.5m | 43 | 14220 | ★ |

○ Optional ☆ Longest drill pipe that can be provided for placing the 6m casing. ★ Longest drill pipe that can be provided for placing the 8m casing.