

Specialist in underground engineering equipment

Leading enterprise in comprehensive field of underground engineering

Supplier of complete underground engineering solutions



SWDM300H

MULTIFUNCTIONAL ROTARY DRILLING RIG

- ◆ Max. Pile Diameter: 2500mm
- ◆ Operating Weight: 105t
- ◆ Rated Power: 298kW@2000rpm

▶ Performances and Features

◆ Star Product

This model won the Market Performance Gold Award of “TOP50 Products of China Construction Machinery 2020” and the Star Product Award of CMIC 2019.

◆ Robust Power

Equipped with three-set motor reduction gearbox, the rotary head has large torque and strong rock-drilling ability.

◆ Cost-Effective

Adopted with large flow pump valve, main winch lifts and lowers in fast speed, and rotary head has the fast extraction function with pressure, ensuring excellent working efficiency; Laid with one layer on the large-diameter roller in the condition of full drilling depth, the main winch steel rope has long service life.

◆ Easy Maintenance

Standard configuration of centralized lubrication with regular grease injection provides convenient service; With the hidden installation under the mast, outriggers shall be assistant to place the pile casing on the hole mouth and makes the chassis maintenance easier.

◆ Safe Construction

High-strength mast, dual-boom luffing mechanism and special telescopic chassis make the machine durable and reliable, empowering it all-round construction ability. Good working safety is also ensured by multi-angle surveillance cameras and sound and light alarms.

◆ Intelligent Control

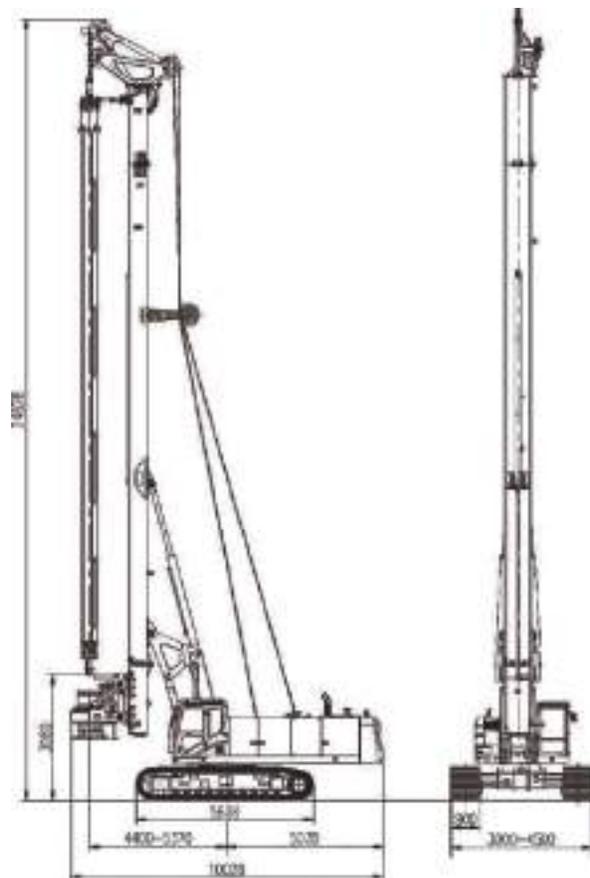
Alarms are sent out by the failure self-diagnosis system; the operation parameters are displayed in real-time; The solenoid handle controls the drilling in fixed speed; the drill mast is erected and lowered by one-key pressing. Bottom protection is equipped for the Kelly, making the operation easy; Sunward Auspicious Cloud APP provides synchronous data transmission and real-time machine monitoring.



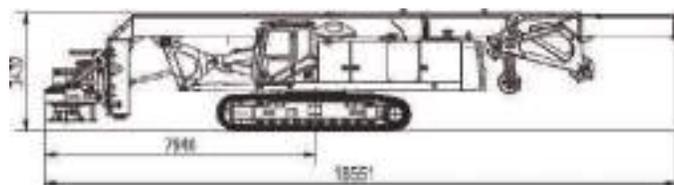
► Technical parameters

| ITEM | | UNIT | SWDM300H |
|-----------------|--------------------------------------|--------|------------|
| Drilling | Max. Pile Diameter | mm | 2500 |
| | Max. Pile Depth | m | 95/62 |
| Engine | Brand | | Cummins |
| | Model | | QSM11-C400 |
| | Rated Power | kW@rpm | 298@2000 |
| Rotary Head | Max. Torque | kN.m | 320 |
| | Rotation Speed | rpm | 6~32 |
| Main Winch | Max. Line Pull | kN | 330 |
| | Max. Line Speed | m/min | 80 |
| | Rope Diameter | mm | 32 |
| Crowd System | Max. Pressure | kN | 260 |
| | Max. Line Pull | kN | 280 |
| | Max. Stroke | mm | 6000 |
| Auxiliary Winch | Max. Line Pull | kN | 110 |
| | Max. Line Speed | m/min | 65 |
| | Rope Diameter | mm | 24 |
| Drill Mast | Lateral Inclination | ° | ±4 |
| | Forward & Rearward Inclination | ° | 5/90 |
| Chassis | Crawler Width | mm | 900 |
| | Track Retraction and Extension Width | mm | 3000~4500 |
| | Chassis Length | mm | 5698 |
| Overall Machine | Working Height | mm | 24828 |
| | Operating Weight | t | 105 |

Working state (unit: mm)



Transportation status(unit:mm)



■ Drill pipe parameters

| Model | Friction Kelly Bar | Hole depth (m) | Drill pipe weight (kg) | Configuration | Model | Interlocking Kelly Bar | Hole depth (m) | Drill pipe weight (kg) | Configuration |
|----------|--------------------|----------------|------------------------|---------------|----------|------------------------|----------------|------------------------|---------------|
| SWDM300H | 508-6X17m | 95 | 17000 | | SWDM300H | 508-4X17m | 62 | 15800 | Standard |
| | 508-6X13m | 71 | 13563 | | | 508-4X13m | 46 | 12456 | |

※Drill pipes of other specifications can be customized.