

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

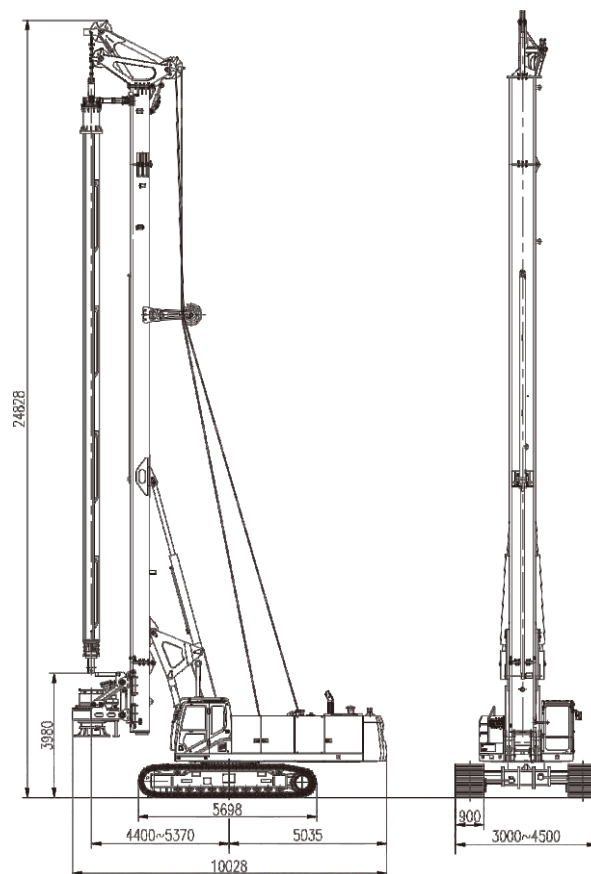
Alarms are sent out by the failure self-diagnosis system; the operation parameters are displayed in real-time; The solenoid handle controls the drilling in fixed speed; the drill mast is erected and lowered by one-key pressing. Bottom protection is equipped for the Kelly, making the operation easy; Sunward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



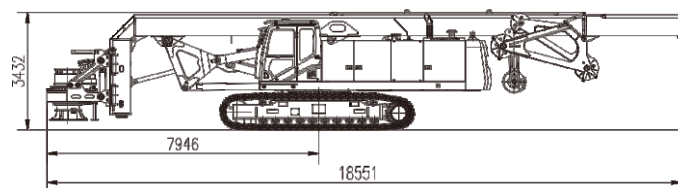
▶ Technical parameters

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.

Operation & Maintenance Manual should be read carefully before the machine is put into service. Sunward improves products continuously, and reserves the right to make any modification or amendment of that without any notice. This sample is only for reference.

