

Specialist in underground engineering equipment

Leading enterprise in comprehensive field of underground engineering

Supplier of complete underground engineering solutions



# SWDM160

## MULTIFUNCTIONAL ROTARY DRILLING RIG

- ◆ Max. Pile Diameter: 1500mm
- ◆ Operating Weight: 48t
- ◆ Rated Power: 150kW@2050rpm

### ▶ Performances and Features

#### ◆ Cost-Effective

The hydraulic power system is optimized; Main winch has fast speed, and rotary head rotates highly with the function of soil shaking-off; Laid with single layer in the condition of full drilling depth, the main winch steel rope has long service life.

#### ◆ Good Mobility

Even if transported with Kelly, the transport limit is still not exceeded, providing convenient change of worksites; With the hidden installation under the mast, outriggers help to place the pile casing on the hole mouth and make the chassis maintenance easier.

#### ◆ High Stability

The luffing mechanism with dual boom and dual cylinder offers good stability and excellent pile quality;

#### ◆ Safe Construction

Special chassis with heavy-duty telescopic crawler and reinforced luffing mechanism which consists of dual boom provides reliable structure and excellent stability, empowering all-around construction ability; Good working safety is also ensured by multi-angle surveillance cameras and sound and light alarms.

#### ◆ Intelligent Control

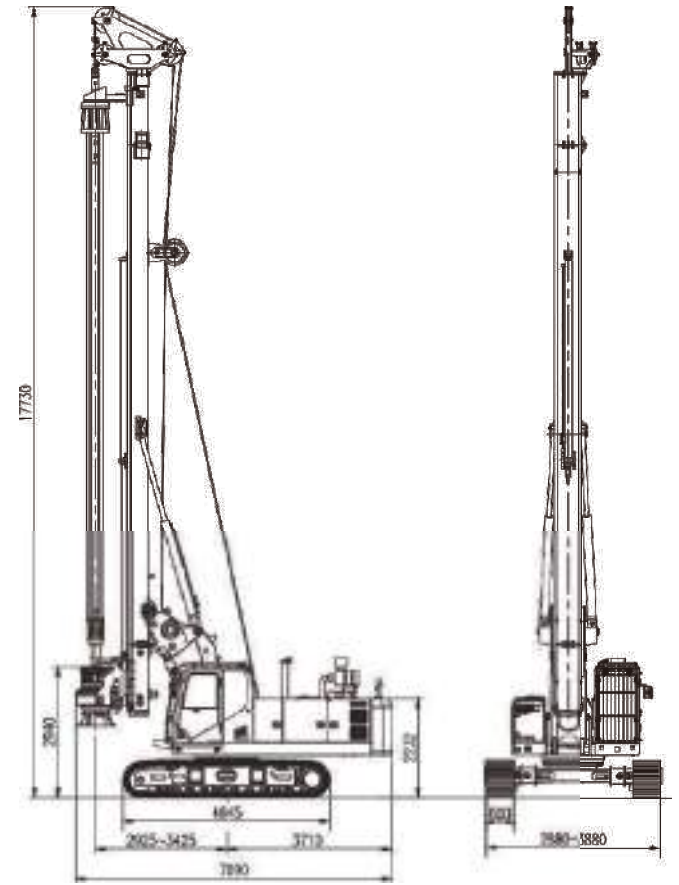
Alarms are sent out by the failure self-diagnosis system; the operation parameters are displayed in real-time; The solenoid handle controls automatic drilling; the drill mast is erected and lowered by one-key pressing. Bottom protection is equipped for the Kelly, making the operation simple; Sunward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



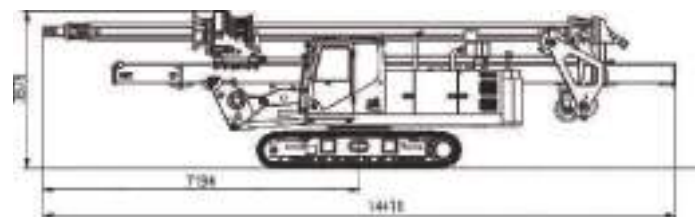
## ► Technical parameters

ITEM		UNIT	SWDM160
Drilling	Max. Pile Diameter	mm	1500
	Max. Pile Depth	m	52/40
Engine	Brand		Cummins
	Model		QSB7-C201
	Rated Power	kW@rpm	150@2050
Rotary Head	Max. Torque	kN.m	160
	Rotation Speed	rpm	6~32
	High-Speed Soil Throwing (optional)	rpm	70
Main Winch	Max. Line Pull	kN	160
	Max. Line Speed	m/min	80
	Rope Diameter	mm	28
Crowd System	Max. Pressure	kN	150
	Max. Line Pull	kN	160
	Max. Stroke	mm	4000
Auxiliary Winch	Max. Line Pull	kN	50
	Max. Line Speed	m/min	50
	Rope Diameter	mm	16
Drill Mast	Lateral Inclination	°	±4
	Forward & Rearward Inclination	°	5/90
Chassis	Crawler Width	mm	600
	Track Retraction and Extension Width	mm	2980~3880
	Chassis Length	mm	4645
Overall Machine	Working Height	mm	17730
	Operating Weight	t	48

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
SWDM160	377-5X11.5m	52	7093	Standard	SWDM160	377-4X11.5m	40	7077	
	377-5X10m	45	6327			377-4X10m	35	6270	

※Drill pipes of other specifications can be customized.