

Specialist in underground engineering equipment

Leading enterprise in comprehensive field of underground engineering

Supplier of complete underground engineering solutions



SWDM160H2

MULTIFUNCTIONAL ROTARY DRILLING RIG

- ◆ Max. Pile Diameter: 1500mm
- ◆ Operating Weight: 49t
- ◆ Rated Power: 194kW@2200rpm

▶ Performances and Features

◆ Star Product

this model won the “TOP50 Products of China Construction Machinery 2021” market performance gold award.

◆ Strong Power

large power engine matches with large displacement motor. Main winch has fast speed. High torque of rotary head vibrates up and down to shake off soil, it's available to drill in soft and hard stratum.

◆ High Stability

The luffing mechanism with dual boom and dual cylinder offers good stability and excellent pile quality; Laid with one 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 shall be assistant to place the pile casing on the hole mouth and makes the chassis maintenance easier.

◆ Safe Working

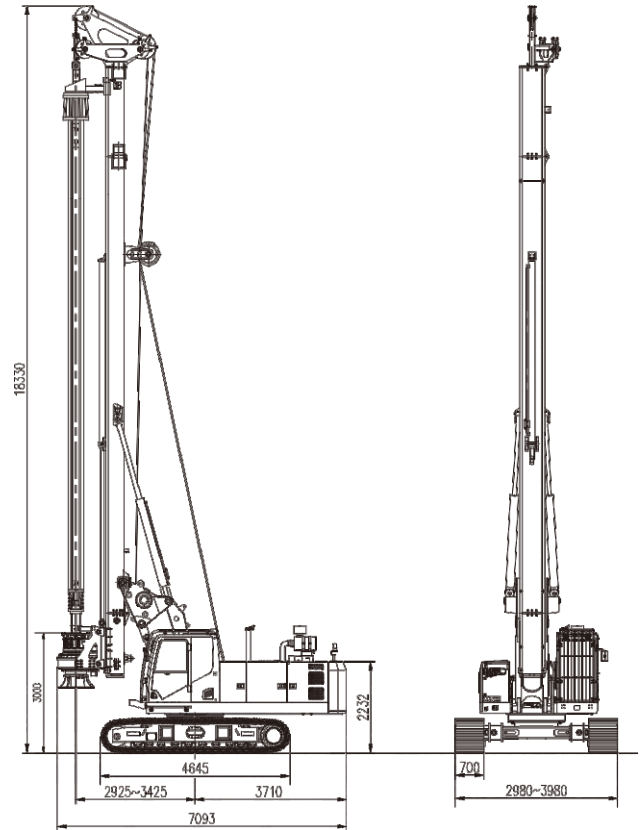
Special chassis with heavy-duty telescopic crawler and reinforced luffing mechanism which consists of dual boom provides reliable structure and excellent stability, empowering all-around construction ability; Good working safety is also ensured by multi-angle surveillance cameras and sound and light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



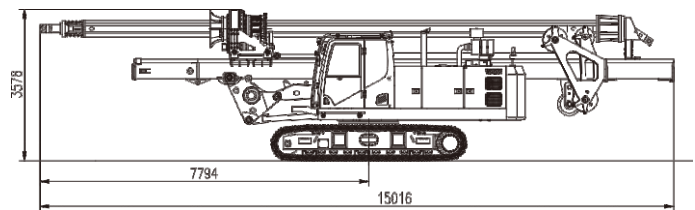
► Technical parameters

ITEM		UNIT	SWDM160H2
Drilling	Max. Pile Diameter	mm	1500
	Max. Pile Depth	m	56/44
Engine	Brand		Cummins
	Model		QSB6.7-C260
	Rated Power	kW@rpm	194@2200
Rotary Head	Max. Torque	kN.m	168
	Rotation Speed	rpm	6~42
	High-Speed Soil Throwing (optional)	rpm	70
Main Winch	Max. Line Pull	kN	165
	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	700
	Track Retraction and Extension Width	mm	2980~3980
	Chassis Length	mm	4645
Overall Machine	Working Height	mm	18330
	Operating Weight	t	49

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
SWDM160H2	377-5X12.1m	56	7400	Standard	SWDM160H2	377-4X12.1m	44	7400	
	377-5X10m	45	6327			377-4X10m	35	6270	

※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.

