

Specialist in underground engineering equipment

Leading enterprise in comprehensive field of underground engineering

Supplier of complete underground engineering solutions



SWDM130S

MULTIFUNCTIONAL ROTARY DRILLING RIG

- ◆ Max. Drilling Diameter : 51 in/ 1300 mm
- ◆ Operating Weight: 81,571 lb / 37 ton
- ◆ Engine Power : 175 HP / 129 kW @ 2200 rpm

▶ Performances and Features

◆ High Flexibility and Multiple Purposes

It's a special construction machine for electric tower pile. After the disassembly of lower drill mast, the construction of 2m hole diameter can be satisfied; High and low configuration of drill mast enables the arbitrary shifting of machine height between 13.6 m and 11.6m; When Kelly is installed, auxiliary winch is able to lower 1.4m steel reinforcement cages without the assistant of a crane, doubling the working efficiency.

◆ Special Chassis

Powerful driving force for travelling, 40% gradeability is applicable for the working condition of mountain areas.

◆ Powerful Drilling

Rotary head is equipped with dual-motor dual reduction gearbox. It also can be installed with high-speed soil throwing device of 70r/min as optional configuration. Large torque and high speed rotation ensures high construction efficiency.

◆ Easy Transport

It's not beyond the transport limit even if transported with Kelly.

◆ Intelligent Control

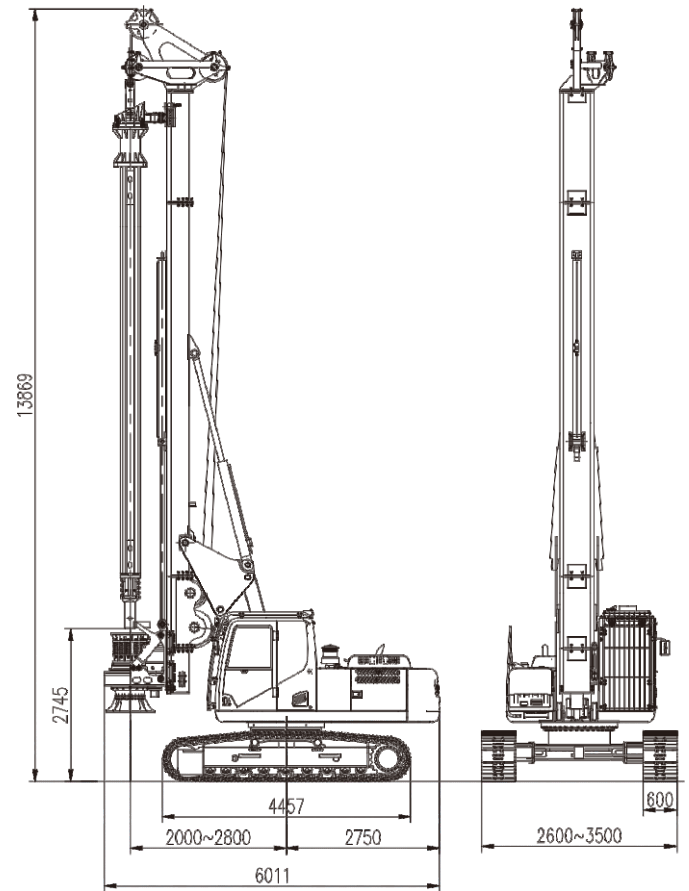
Alarms are sent out by the failure self-diagnosis system; the operation parameters are displayed in real-time; The solenoid handle controls automatic drilling; the drill mast is erected and lowered by one-key pressing. Bottom protection is equipped for the Kelly, making the operation simple; Sunward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



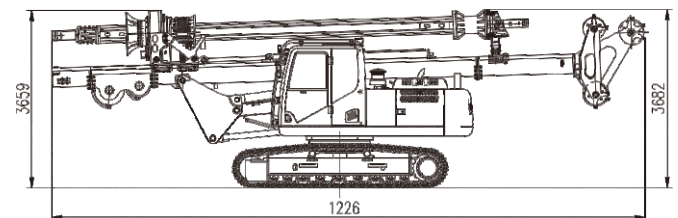
► Technical parameters

ITEM		UNIT	SWDM130S
Drill hole	Max. Drilling Diameter	in/mm	51/1300
	Max. Drilling Depth	ft/m	114.8 / 35
Rotary Head	Max. Torque	lbf.ft/kN.m	95,883/130
	Rotating Speed	rpm	6~32
	high speed (optional)	rpm	70
Engine	Brand		Cummins
	Model		B6.7
	Power	HP/kW@rpm	175/129 @2200
	engine emission		Stage V
Main Winch	Lifting Force	lbf/kN	30,349/135
	Max. rope speed	ft/min (m/min)	255.9(78)
	Rope Diameter	in/mm	0.87/22
Crowd system	Compression Force	lbf/kN	26,977/120
	Max.Lifting Force	lbf/kN	29,225/130
	Max. Stroke	in/mm	118/3000
Additional Wintch	Lifting Force	lbf/kN	11,240/50
	Lifting Speed	ft/min(m/min)	164(50)
	Diameter of Rope	in/mm	0.63/16
Drilling Mast	Lateral inclination	°	±3
	Inclination Angle(front and back)	°	4/89
Chassis	Track Width	in/mm	23.6/600
	chassis extend&retract width	in/mm	102.4-137.8/2600-3500
	Chassis Length	in/mm	175.2/4450
Whole machine	working height	in/mm	546/13869
	Operating Weight	lb/ton	81,571/37
Kelly Bar	Friction Kelly Bar	m	D355-5X8(Standard)
	Interlocking Kelly Bar	m	D355-4X8m

Working state (unit: mm)



Transportation status (unit: mm)



Be sure to read the operation and maintenance manual carefully before using the equipment. Adhering to the principle of continuous improvement, Sunward's products are subject to changes without prior notice. This sample is for reference only, and Sunward reserves the final right to interpret.

