

Specialist in underground engineering equipment

Leading enterprise in comprehensive field of underground engineering

Supplier of complete underground engineering solutions



# SWDM80S

## MULTIFUNCTIONAL ROTARY DRILLING RIG

- ◆ Max. Drilling Diameter : 39.4" / 1000 mm
- ◆ Operating Weight: 46,000 lb / 23 ton
- ◆ Engine Power : 122 HP/ 90 kW @ 2200 rpm

### ▶ Performances and Features

#### ◆ High Flexibility and Excellent Efficiency

Applicable for small holes and shallow piles, high rotation speed of rotary head and fast lifting of the main winch provides excellent comprehensive construction efficiency.

#### ◆ Easy Transport

It's not beyond the transport limit even if transported with Kelly. With the total weight of 23 tons, it's freely transported on urban roads.

#### ◆ High Stability

Laid with single layer in the condition of full drilling depth, the main winch steel rope has long service life; With the installation of main and auxiliary winch in the tri-pod, the structure is impact and the machine stability is high.

#### ◆ Intelligent Control

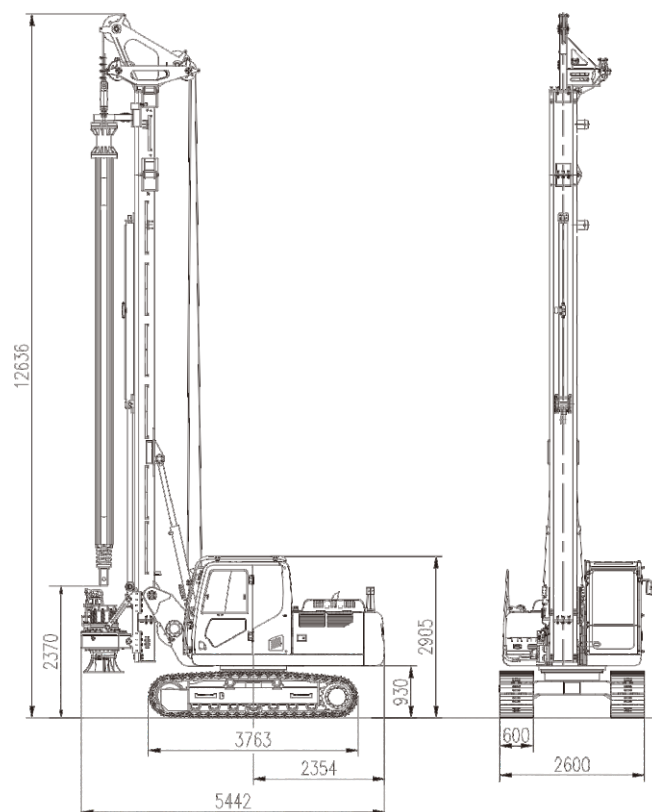
Alarms are sent out by the failure self-diagnosis system; the operation parameters are displayed in real-time; The solenoid handle controls automatic drilling; the drill mast is erected and lowered by one-key pressing. Bottom protection is equipped for the Kelly, making the operation simple; Sunward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



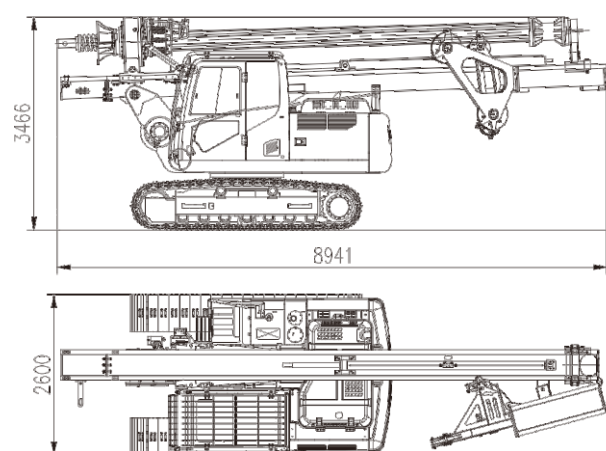
## ► Technical parameters

	ITEM	UNIT	SWDM80S
Drill hole	Max. Drilling Diameter	in/mm	39.4" / 1000
	Max. Drilling Depth	ft in / m	88'58" / 27
Rotary Head	Max. Torque	lbf.ft/kN.m	59,005/ 80
	Rotating Speed	rpm	8~42
	high speed (optional)	rpm	70
Engine	Brand		Cummins
	Model		F3.8
	Power	HP/kW@rpm	122/90 @2200
	engine emission		Tier 4 Final
Main Winch	Lifting Force	lbf/kN	17,985 / 80
	Max. rope speed	ft/min(m/min)	236 (72)
	Rope Diameter	in / mm	0.8 / 20
Crowd system	Compression Force	lbf/kN	22,480/100
	Max.Lifting Force	lbf/kN	29,225/130
	Max. Stroke	in / mm	118 / 3000
Additional Wintch	Lifting Force	lbf/kN	6744/ 30
	Lifting Speed	ft/min(m/min)	164 (50)
	Diameter of Rope	in / mm	0.5/ 13
Drilling Mast	Lateral inclination	°	±3
	Inclination Angle (front and back)	°	5/90
Chassis	Track Width	in/mm	23.6/600
	chassis extend&retract width	in/mm	102.3/2600
	Chassis Length	in/mm	148.2/3765
Whole machine	working height	in/mm	498/12640
	Operating Weight	lb/ton	4600/23
Kelly Bar	Friction Kelly Bar	m	D273-4X7.5(Standard)
	Interlocking Kelly Bar	m	D273-3x7.5m

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.

