Application scenarios

- Municipal water affairs

Pump station sump/sedimentation well
Pumping station front pool/grid channel/collection pool
Sedimentation tank of sewage treatment plant
Storage tank/accident tank
Combined rainwater and sewage box culvert/culvert
River channel/riverbed/reservoir
Inverted rainbow

- Food factory

Sewage treatment station (regulating tank, sedimentation tank,anaerobic tank, etc.)
Large raw material storage tanks/fermentation tanks
Cooling water pool/circulating water system
Rainwater/sewage pipe network in the factory area

- Chemical and Metallurgical Industrial Park

Chemical wastewater regulating tank/sedimentation tank
Accident pool/Emergency pool
Circulating water pool/cooling water return water pool

- Livestock breeding

Septic tank/sewage tank
Grit chamber/sedimentation tank
Fishpond/pond

- Electric power and energy park

Cooling tower rapid water pool/sedimentation tank
Fire water tank/sedimentation tank/grid tank
Cooling water pool of nuclear power plant

Application Case



SROD ROBOTICS

D800F

Dredging robot system

- *Electric-hydraulic drive*
- *The silt removal efficiency is 200m³/h*
- *The traction force can reach 5000N*
- *The maximum head is 40 meters*



Product Introduction

SROD D800F Desilting Robot works in DN800 and above. Full-scenario, high-mobility, high-efficiency confined space operation.

Applications: Sewage tanks, inverted siphons, tanks, hazardous wastewater tanks, river/lake sediment, pump stations, underground rivers, cooling towers (non-explosion-proof; explosion-proof customizable).

Professional desilting, risk removal & emergency repair. Work without water shutdown. Stable operation in water up to 20m.

Equipped with high-head sewage pump: flow 200m³/h, head 40m. High & stable performance in sandy, heavy silt conditions.

Highly integrated, flexible & fast to transfer. Standard electric hydraulic power unit; optional diesel hydraulic unit (off-grid, suitable for remote/emergency/low-power sites).



High-pressure hydraulic output, Traction up to 5000N

Supports simultaneous actions: suction, travel and swing.Other products lack sufficient hydraulic power for multi-action synchronization.

High head & large flow, Max. flow rate 200 m³/h, head 40 m

Dredge pump with centrifugal + screw dual technology, stable performance, meets high-intensity conveying needs in special fields.

Military-grade deepwater protection, IP68 · 20m underwater

Suitable for submerged environments such as pump station deep wells and sedimentation tanks, with key components adopting military-grade waterproof sealing.

Passability & Adaptability,Particles ⩽40mm, -20~60°C

Wear-resistant chamber & optimized flow path, strong anti-clogging performance for sandy & impurity-laden media.

Visual remote control, Automatic lifting lighting & camera system

Automatic lifting lighting unit with adjustable view, real-time front/rear video transmission, prevents clogging and rework.

Front-integrated electro-hydraulic proportional valve, Lower load, longer dredging range

Equipped with a front integrated electro-hydraulic proportional valve, it reduces hydraulic return lines to 3, greatly lowering the load. It allows towing longer hoses (optional 80/100 meters) and extends the dredging distance.

Integrated delivery | Power station+ hose reel+electric control integrated

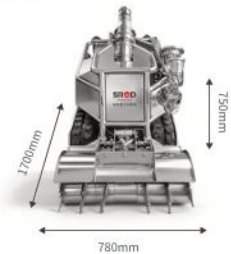
Standardized modules, ready on arrival. Compact, transportable, fast deployment with less assembly & lower risks.

Engineering-grade protection, Real-time status monitoring + warning + emergency stop

Real-time monitoring of oil level, temperature, main pump and heat dissipation, with abnormal warning and emergency stop, ensuring stable and continuous operation.

Component parameters

Robot body



Basic Parameters	Walking system	Suction System	Visual Lighting
Weight 650kg	Traction force 5000N	Pump Type Stainless steel high-lift pump	Installation 1 fixed at front and 1 at rear
Driving speed 0-0.8km/h	Track Natural RubberTrack	Pump flow rate Up to 200 m³/h	Camera pixel 2 million pixels
Wading depth 20m	Driving mode Hydraulically driven tracks, differential travel	Pump head Max. up to 40 m	Illuminance of lighting 600Lx
Applicable environment -20~60°C	Obstacle Crossing Within 300mm	Max. passable particle 40 mm	**Stirring system**
Body Material 304 Stainless Steel	Gradeability 0-45°	Sewage suction port diameter 75 mm	Material 304 stainless steel
Hoisting/Safety Lifting ring + anti-fall steel wire			Rotational speed Max. 18 rpm
Protection grade IP68,Military-grade waterproof sealing			

Electric Integrated Hydraulic Power Station

(Power station + electronic control + built-in reel)



Structure and Transport	Power Supply & Motor	Hydraulic system	Pipe reel
Total weight Approx. 2600KG	Input power supply 380V / 50Hz	System pressure ⩾31.5Mpa	Retracting Mode Remote Control Variable Speed + Manual
Hoisting/handling Top lifting ring + forklift hole	Motor power 45kW	Output flow 70L/min	Pipeline Length 60m (80/100m optional)
		Total Hydraulic Oil ⩽400L	

If no power supply is available, a diesel-powered split hydraulic power station can be selected.

Wireless control terminal



Display
7" HD industrial control screen

Control mode
Physical buttons: travel, auger reverse/forward, lift, pump flow adjustment, emergency stop

Wireless signal transmission
Effective distance up to 500m

Video Return
Real-time video return from front & rear cameras

Power Supply Mode
Powered by lithium battery, working time ⩾ 12h

Optional Parts



High-pressure water jet system
Fixed three nozzles
power 15kW
pressure 20MPa
water tank volume 1m³
electric or diesel drive



Mud-water Separator
Overall dimensions:
⩽ 2300×1500×1700 mm
Feed rate: 50–200 m³/h
Screening capacity: 20 t/h
Weight ⩽ 1800 kg