

Advantage:

- >> Hole range:90-400mm
- >> Yuchai / Cummins engine(Optional)
- >> DTH Hammer & Auger drilling
- >> Large rotation torque
- >> Italy Imported hydraulic valve
- >> **Optional:**
Hydraulic Dry dust collector

SP619

SOLAR PILING DRILLING RIG

光伏钻机

INTRODUCTION产品介绍

- >> Designed for flexible deployment across diverse drilling environments, SP619 is a compact yet powerful down-the-hole drilling rig tailored for shallow large-diameter hole applications. Its optimized structure and high adaptability make it ideal for municipal construction, geothermal drilling, small-scale quarries, and pipeline foundation projects.
- >> SP619 supports a wide hole diameter range from $\phi 90$ to $\phi 400$ mm, making it highly versatile across unconsolidated layers and mixed formations. With a maximum rotary torque of 13000 N·m and adjustable rotary speed up to 80 rpm, it delivers stable torque output for oversized hole drilling while maintaining control and precision.
- >> The feed system uses a motor-driven mechanism with a 5000 mm feed stroke and 900 mm extension. It provides 18 kN of feeding force and 20 kN of lifting force, enabling smooth rod advancement and retraction even under unstable ground conditions. The rig's core motion components are configured for reliable performance with minimal mechanical complexity.
- >> SP619 delivers dependable output while remaining fuel-efficient, supported by a 250-liter onboard fuel tank. It matches seamlessly with external air compressor systems requiring 1.0–2.4 MPa pressure and 15–50 m³/min air volume, ensuring compatibility with a wide range of pneumatic setups.

CHARACTERISTICS产品特点

- >> The whole machine weighs only 6.0 tons, A tramping speed of 0–2 km/h, 30° climbing ability, and 700 mm ground clearance give SP619 strong off-road capability and maneuverability in constrained or rugged job sites. With a design focus on operational efficiency, durability, and large-bore drilling flexibility.
- >> High-torque rotary system delivers up to 13000N·m with variable speed (0–80rpm), ideal for large-diameter hole drilling in complex formations.
- >> Suitable for a wide range of hole diameters from $\phi 90$ to $\phi 400$ mm, providing greater flexibility for different geological and engineering applications.
- >> Equipped with $\phi 76/\phi 89$ mm drill rods in 3-meter lengths, allowing rapid and stable drilling in shallow formation conditions.
- >> Powered by Yuchai 150Hp, featuring strong torque output and low fuel consumption for stable drilling performance.
- >> Air compressor demand ranges from 15 to 50 m³/min and 1.0–2.4MPa, compatible with various air supply systems for both DTH and rotary drilling.
- >> 6.0 ton lightweight structure with compact dimensions (6300×2200×2850mm) ensures easy transport and fast site positioning.
- >> Tramping system supports 25° climbing angle with stable traction, capable of handling uneven terrain without compromising safety.

Characteristics 产品特点

- >> 100L large-capacity fuel tank extends working hours and reduces refueling frequency, enhancing on-site efficiency.
- >> Control Platform: Rear-mounted centralized control system enables streamlined operation. Optimized layout improves operator visibility and access, ensuring smooth workflow in confined work environments.
- >> Power System: Equipped with a 150Hp Yuchai engine, delivering stable output. With air demand up to 50 m³/min and pressure range of 1.0- 2.4 MPa, it adapts easily to a wide range of DTH drilling needs.
- >> Rotary and Feed System: High-torque rotary head delivers up to 13000 N·m with variable speed up to 80rpm. Motor-driven feed system offers 3300 mm stroke and 18 kN thrust, providing reliable penetration in soft medium formations.
- >> Mobility and Structure: Compact structure with 6.0Ton weight and 700 mm ground clearance ensures agility across rugged terrain. Crawler-type drive allows 2 km/h tramming speed and 30° climbing capacity.
- >> Drilling Capability: Supports 90- 400 mm hole diameter with dual rod diameter options, enabling flexible adaptation to various drilling tasks in foundation or shallow water well projects.

Specification 技术参数

Specification	Unit	SP619
General		
Hole Depth	m	30
Hole Diameter	mm	φ90- 400
Drilling Rod Diameter	mm	φ76/ φ89
Drilling Rod Length	mm	3000
Rotation		
Maximum Rotary Torque	N·m	8000
Rotary Speed	rpm	0- 80
Lifting Force	kN	20
Feed System		
Feed Type		Motor
Feed Stroke	mm	5000
Feed Extension	mm	900
Feeding Force	kN	18
Engine		
Engine Brand		Yuchai/Cummins(Optional)
Engine Model		YC6B150Z-K20/4BTAA3.9-C125
Rated Horsepower	Hp	150/125
Fuel Tank Capacity	L	250
Air Compressor Demand		
Working Pressure	MPa	1.0-2.4
Air Consumption	m ³ /min	15-50
Weight & Dimensions		
Weight	Kgs	6000
Transport Dimensions (L×W×H)	mm	6300 × 2200 × 2850
General Specification		
Tramming Speed	km/h	0-2
Climbing Capacity	°	30
Ground Clearance	mm	700



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