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SDC120



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# SDC120

## 2022 Double Wheel Trench Cutter

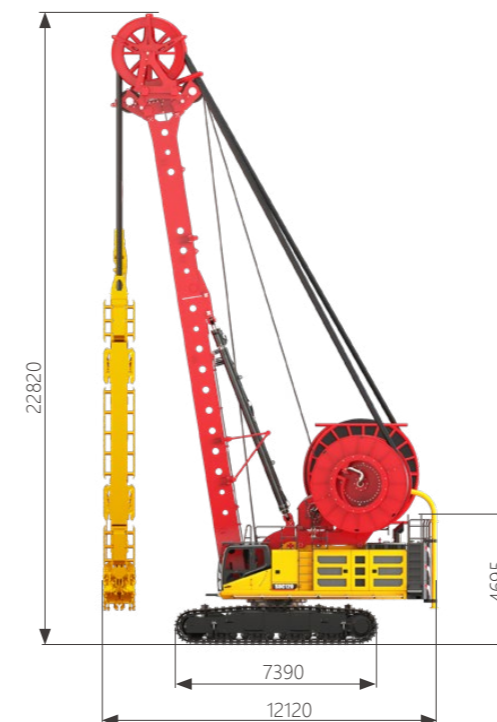


- Max grooving thickness 1800mm
- Max grooving depth 120m
- Milling wheel gearbox torque 2 x 100kN·m
- Engine power 570.5kW/1800rpm



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Main performances	Unit	Parameter	Remark
Engine power	kW	570.5	
Engine speed	rpm	1800	
Winch lifting force	kN	2x390	
Max lifting speed	cm/min	0.5	
Wire rope diameter	mm	Φ36	
Max grooving depth	m	120	
Grooving thickness	mm	800-1800	
Grooving depth of single hole	mm	2800	
Milling wheel gearbox torque	kN·m	2x100	
Max speed of milling wheel	rpm	25	
Height of milling cutter holder	m	12.7	
Weight of milling cutter holder	t	36-43	
Mud pipe diameter	mm	Φ152	
Mud pump	m <sup>3</sup> /h	450	
Number of deviation correction devices	/	12	
Max walking speed	km/h	1.17	
Max walking traction	kN	1235	
Slewing speed	rpm	1.5	
Track shoe width	mm	960	
Width of outer edge of track shoe	mm	3900-5500	
Track grounding length	mm	6110	
Working radius	mm	4450-6300	
Working dimension of the whole machine	m	12.1x5.8x22.8	
Overall quality	t	210	



### EXPERT AT HARD ROCK AND MILLING

Trench cutter is used for hard stratum wall forming underground construction, also used for square pile construction. It is suitable for continuous wall construction of rail transit stations, deep foundation pit support of high-rise buildings, water conservancy and hydropower projects, etc.

**High rock breaking efficiency:** strong power, large torque, high speed and fully arranged teeth working with movable teeth to achieve hard rock and no dead angle milling with high efficiency.

**High slag discharge efficiency:** the first pump and air combined slag discharge system in the industry, which can discharge slag easily even in deep trench; accelerating speed and improving efficiency, and reducing the chances of pipe blocking at the same time.

**High quality of grooving:** vertical rotation device of frame ensures that the cutting wheel frame is vertical, 12 sets of deviation correction devices are equipped to ensure high quality grooving.

**Steady micro feed:** steady continuous micro feed speeds up to millimeter level, which can perfectly meet the needs of slow feed in hard rock construction.

**Strong rectifying ability:** correction cylinder with large diameter and long stroke enables large thrust, which can meet the needs of hard stratum and large deviation rectifying.

**Intelligent construction:** cutting wheel speed, torque, winch load and milling speed are self-adaptive to maximize construction efficiency. Drilling power and mud pump discharge power can be automatically adjusted to maximize the utilization of power.

**Automatic pipe draining:** the mud capstan is automatically deflected to ensure that the capstan direction is consistent with the pipe inlet angle to avoid mud pipe wear and prolong the service life of the mud pipe.

**Comfortable operation:** flexible design of mast cylinder can effectively prevent vibration from being transmitted to the cab during the construction of working device, making driving smooth.

**Convenient construction:** in corner construction, the rotating function of the working device ensures that the working device is convenient to enter the groove.

**Convenient disassembly and assembly:** when disassembling and transferring, mud pipe and oil pipe can be completely retracted to the capstan and transported together with the capstan on a special transport rack.

**Long service life of worn parts:** steel ring structure mud pipe is explosion-resistant and wear-resistant with long service life. The fixed end of the wire rope is equipped with a torque release device to ensure stable internal structure and long service life.