



SWTC5D Telescopic Crawler Crane



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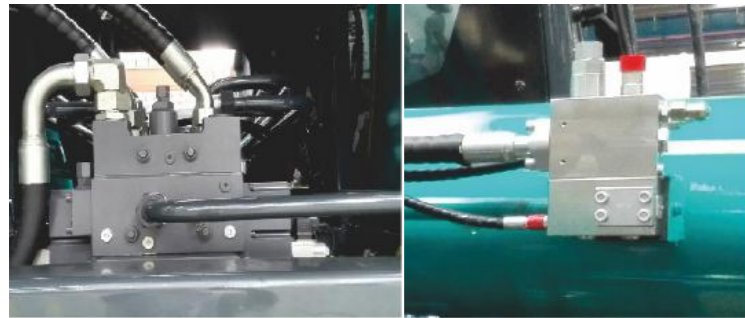
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SWTC5D EN 2020

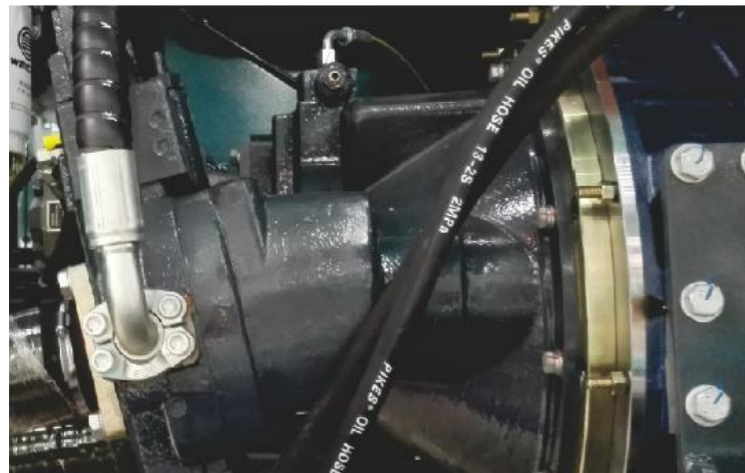
More reliable quality



- ◆ Optimum choosing suppliers in internationalization supporting system to gain higher reliability.



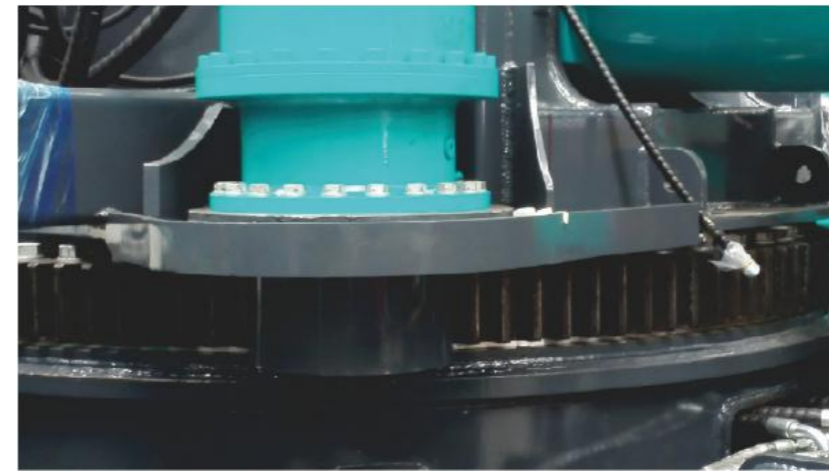
- ◆ Main hydraulic control valve adopts imported brands.



- ◆ Main pump selects the industry well-known brands.



- ◆ Moment limiter selects the international brands .



- ◆ The rotation is designed with the free-sliding and buffer, controls precision.



- ◆ The cab' independent patent pivoting window design, make it has an wide field view, the multi camera video surveillance system has covered all the visual blind area. The cab has air conditioning, capable of being equipped with fuel warm A/C as optional to adapt to the cold region.



- ◆ High and low speed travel mode can be switched, and it can travel at low speed with load, safety and reliable.

SWTC5D Crawler Crane Main Technical Feature

Lightweight design of high strength steel hexagon cross-section, five sections telescopic main boom.



The Hessman force limiter system and CAN control system offer protection on winch's winding procedure and prevent overload lifting. The safety system meets the EN13000 standards.



The tail is short and has a small steering radius, particularly suitable for narrow working areas.



It equipped with YANMAR engine, reach to the Euro IV emission standard.



It has a telescopic support shovel for a higher working stability.



Applicable to the municipal works, the internal construction, uneven worksite and small range shifting site.



The constant-power and load-sense hydraulic system is adopted, all key hydraulic components are world famous, ensure the stability and reliability, the compact-layout make maintenance more convenient.



SWTC5D Main Performance Parameters

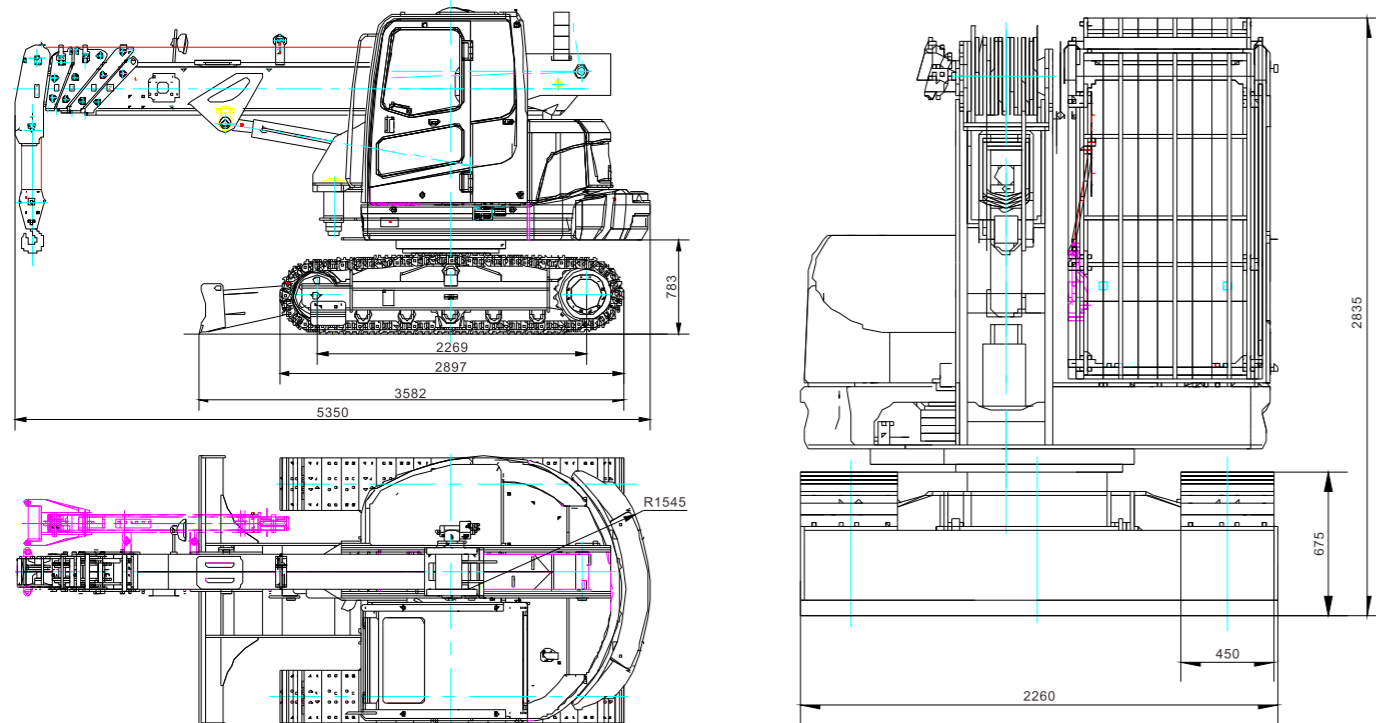
ITEM		UNIT	PARAMETERS
Dimensions	Dimension (L x W x H)		mm 5350×2260×2835
	A	Center distance between driving pulley and the driven pulley	mm 2269
	B	Length of track	mm 2890
	C	Height from platform to ground	mm 780
	D	Slewing motor of platform tail	mm 1740
	E	Chassis width	mm 2250
	F	Width of track	mm 450
	G	Minimum ground clearance	mm 400
	J	Height of track	mm 675
	K	Height from control room top to ground	mm 2835
	Operating speed parameter	Max rated lifting capacity	
Maximum load moment of basic boom		t.m 10.5	
Maximum load moment of fully extended boom		t.m 6	
Length of basic boom		m 4.63	
Length of full extensional main boom		m 15.63	
Maximum lifting height of basic boom		m 5.3	
Main performance parameters	Maximum lifting height of the longest main boom		m 16.5
	Boom luffing time (up/down)		s 11/9
	Boom telescopic time (extension/retraction)		s 17/20
	Swing speed		rpm 4.5
	Speed of hoisting single rope		m/min 110
	Traveling speed		km/h 4.6
Micro-traveling speed		km/h 2.5	
Machine weight		t 10.91	
Max gradeability		% 36.4	
Ground pressure		Mpa 0.05	
Engine	Brand		YANMAR
	Models		4TNV98C-SSU
	Type		Water Cooling/Turbocharging
	Displacement		L 3.319
	Power/rotating speed		kw/rpm 46.2KW/2200rpm
	Capacity of fuel tank		L 125



Main Technical Features of SWTC5D:

1. YANMAR engine, meet Euro V emission standards.
2. Lightweight high-strength steel with hexagonal section and five telescopic main booms.
3. Short tail and small slewing motor, suitable for operation in narrow areas.
4. Equipped with self-lifting support shovel, high stability.

5. Short luffing and telescopic time, fast lifting speed of heavy objects and high operation efficiency.
6. Equipped with Hirschmann force limiter system and CAN bus control. The system conforms to EN13000 standard.
7. Complete safety protection device; equipped with unloading solenoid valve for dangerous actions such as protection on winch's winding procedure, height limit, amplitude limit, etc. Equipped with rotary and traveling alarm devices; According to the user's requirements, the interlocking function of getting on and off, the maximum angle limit of the boom frame, the left and right rotation angle limit, etc. can be added.
8. with micro-traveling function; A micro-traveling switch is provided, which can reduce the pilot pressure to realize tiny actions of each operation.



SWTC5D Lifting Capacity Table

Working radius (m)	Boom length 4.63m Lifting capacity (kg)		Boom length 7.38m Lifting capacity (kg)		Boom length 10.13m Lifting capacity (kg)		Boom length 12.88m Lifting capacity (kg)		Boom length 15.63m Lifting capacity (kg)	
	Static	Traveling	Static	Traveling	Static	Traveling	Static	Traveling	Static	Traveling
2	5000	2000	5000	2000	2600	1300	2000			
2.5	3800	1900	3800	1900	2600	1300	2000		1400	
3	3000	1500	3000	1500	2350	1175	2000		1400	
3.5	2300	1150	2300	1150	2050	1025	1900		1400	
4			2000	1000	1750	875	1650		1400	
4.5			1700	850	1550	775	1450		1320	
5			1400	700	1350	675	1300		1200	
6			1000	500	980	525	950		900	
7					780	390	750		700	
8					580	290	550		520	
9					410	205	400		380	
10							380		350	
11							320		300	
12									280	
13									220	
14									200	
14.53									200	

Notes:

1. The value given in the table is the rated lifting capacity of the crane, including the weight of the hook (70kg), under the condition of solid and smooth ground;
2. The actual lifting capacity is the rated lifting capacity shown in the above table minus the weight of lifting appliances such as lifting hooks;
3. The working range in the table refers to the actual range after lifting;
4. The whole machine shall be horizontal and the working slope shall not be more than 5%. The traveling speed shall not be greater than the minimum speed;
5. When the actual boom length and the working range are both between two values, the weight should be determined according to the larger ones;
6. When climbing the slope, the main boom is retracted and placed at the minimum angle, and the counterweight is placed in the uphill direction.

SWTC5D Jib Lifting Performance Table

Jib 1					Jib 1 + 2				
Angle of main boom (longest boom)	Deflection angle (Deg)				Angle of main boom (longest boom)	Deflection angle (Deg)			
80°	5	20	40	60	80°	5	20	40	60
75°	500	500	350	250	75°	400	400	300	200
70°	480	450	325	225	70°	380	350	250	150
65°	450	350	300	150	65°	350	300	200	100
60°	350	300	250	125	60°	300	200	150	80
55°	250	200			55°	200	150		
50°	150	100			40°	100	75		
40°	50								

