

Technical Parameters and Dimensions

ITEM		UNIT	PARAMETERS	UNIT	PARAMETERS
Main performance parameters	Max rated lifting capacity	t	10	sh ton	11.03
	Min rated range	m	2.5	ft	8.20
	Turntable tail swing radius	mm	2750	in	108.3
	Maximum load moment	KN.m	333	ft.lbf	245753
		KN.m	156	ft.lbf	115128
	Lifting height	m	7	ft	23
		m	21.5	ft	70.5
		m	26	ft	85.3
	Boom length	m	6.8	ft	22.3
		m	21.2	ft	69.6
		m	21.2+5	ft	69.6+16.4
	Installation angle of jib	°	0、15、30、45		0, 15, 30,45
Dimensions	Overall length	mm	9073	in	357
	Overall width (extension/retraction)	mm	2800	in	110.2
	Overall height	mm	3070	in	120.9
Machine weight		t	20.5	sh ton	20.5
Travel	Speed	km/h	2.7/4.1	mile/h	2.7/4.4
	Minimum ground clearance of frame	mm	478	in	18.8
	Max gradeability	%	40	%	40
	Ground pressure	Mpa	0.05	bar	0.5
Operating speed	Maximum speed of hoisting single rope (no load)	m/min	115	ft/min	393.7
	Boom telescopic time (extension/retraction)	S	20/33	s	25/25
	Boom luffing time (up/down)	S	12/16	s	12
	Swing speed	r/min	3	rpm	4
Engine	Brand	/	Cummins	/	Cummins
	Models	/	QSB6.7	/	QSB6.7
	Type	/	Direct injection, four-stroke, turbocharged, inter-cooling	/	Direct injection, four-stroke, turbocharged, inter-cooling
	Displacement	L	6.7	gal	1.8
	Power	Kw	129	hp	175.5
	Rotation speed	r/min	2200	rpm	2200
Capacity of hydraulic oil tank		L	280	gal	74.0
Capacity of fuel tank		L	380	gal	100.4



Main Technical Characteristics

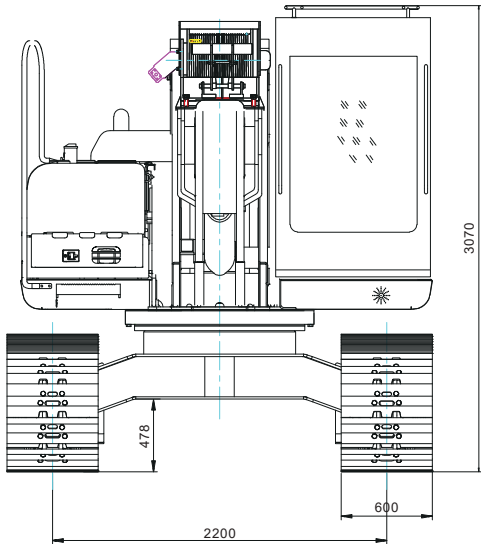
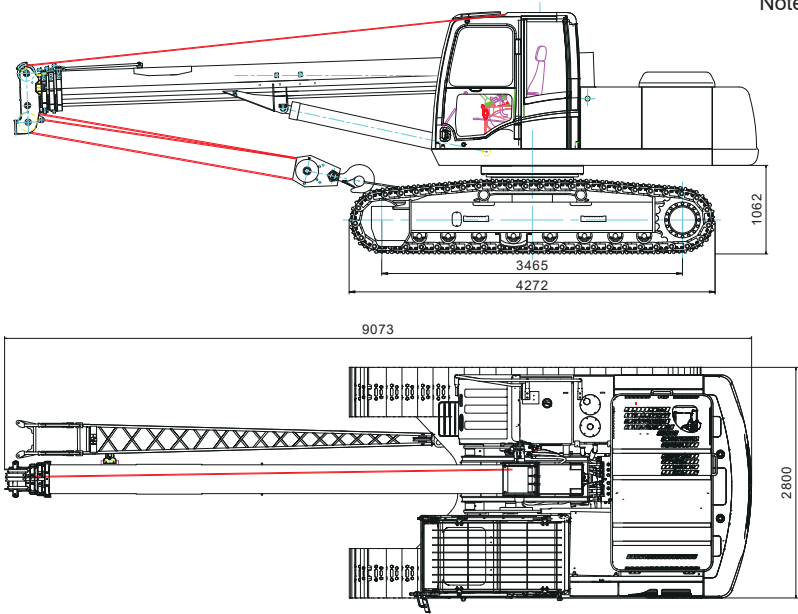
Main Technical Features of SWTC10 Track Crane:

- Cummins engines, meet the Euro V emission standards;
- Lightweight high-strength steel with decagonal section, four telescopic main arms and one truss jib;
- Standard Hirschmann force limiter system, CAN bus control, overload lifting, overwinding and overwinding protection, real-time monitoring of operation status to ensure operation safety;

- Constant power load-sensitive hydraulic control system is adopted, which is stable and reliable, with imported key components, centralized layout and easy maintenance;
- The diameter of the raceway of the slewing bearing is increased and the performance is improved. The flange seat ring adopts an integral ring forging structure to avoid stress concentration and improve durability;
- Equipped with grease - lubricated sealed track chain with long service life and no maintenance.And the truck frame is designed with double bevels to prevent accumulation of foreign matters.



Note: The parameters above are subject to the data after the type test



SWTC10 Rated Total Lifting Weight for Telescopic Boom Track Crane (Unit: sh.ton/kg)

Working range (unit: ft/m)		Length of main arm (unit: ft/m)												Working angle (°)	Main arm + jib (unit: ft/m)							
															69.55+16.4(21.2+5)							
		22.3	6.8	31.8	9.68	41.2	12.56	50.66	15.44	60.1	18.32	69.55	21.2									
8.2	2.5	11.03	10000	8.82	8000	6.62	6000							78	1.16	1050	0.94	850	0.66	600	0.53	480
9.84	3	11.03	10000	8.82	8000	6.62	6000	4.63	4200					76	1.10	1000	0.88	800	0.65	590	0.52	470
11.5	3.5	9.92	9000	8.82	8000	6.39	5800	4.63	4200	3.86	3500			74	1.07	970	0.86	780	0.63	570	0.50	450
13.1	4	8.82	8000	7.72	7000	6.28	5700	4.41	4000	3.86	3500	3.31	3000	72	1.05	950	0.83	750	0.61	550	0.47	430
14.8	4.5	8.16	7400	7.17	6500	5.51	5000	4.19	3800	3.75	3400	3.31	3000	70	1.01	920	0.79	720	0.57	520	0.45	410
16.4	5	6.62	6000	6.06	5500	4.96	4500	3.86	3500	3.42	3100	3.20	2900	68	0.99	900	0.75	680	0.54	490	0.43	390
18	5.5	5.51	5000	4.96	4500	4.08	3700	3.42	3100	3.09	2800	2.98	2700	66	0.95	860	0.72	650	0.51	460	0.41	370
19.7	6	4.41	4000	4.41	4000	3.86	3500	3.09	2800	2.76	2500	2.59	2350	64	0.89	810	0.68	620	0.47	430	0.39	350
21.3	6.5			3.86	3500	3.31	3000	2.76	2500	2.54	2300	2.37	2150	62	0.84	760	0.65	590	0.44	400	0.36	330
23	7			3.31	3000	3.09	2800	2.54	2300	2.32	2100	2.18	1980	60	0.77	700	0.62	560	0.41	370	0.33	300
24.6	7.5			2.87	2600	2.76	2500	2.37	2150	2.09	1900	2.02	1830	58	0.72	650	0.57	520	0.37	340	0.31	280
26.2	8			2.70	2450	2.48	2250	2.21	2000	1.93	1750	1.87	1700	56	0.67	610	0.54	490	0.34	310	0.26	240
29.5	9					2.21	2000	1.96	1780	1.72	1560	1.66	1510	54	0.63	570	0.50	450	0.30	270	0.23	210
32.8	10					2.04	1850	1.76	1600	1.55	1410	1.49	1350	52	0.57	520	0.45	410	0.25	230	0.19	170
36.1	11					1.82	1650	1.54	1400	1.41	1280	1.36	1230	50	0.52	470	0.41	370	0.21	190	0.14	130
39.4	12							1.41	1280	1.28	1160	1.22	1110	48	0.46	420	0.35	320	0.17	150		
42.7	13							1.27	1150	1.17	1060	1.12	1020	46	0.40	360	0.29	260				
45.9	14							1.16	1050	1.09	990	1.03	930	44	0.32	290	0.22	200				
49.2	15									0.99	900	0.95	860	42	0.23	210						
52.5	16									0.88	800	0.86	780									
55.8	17									0.77	700	0.75	680									
59.1	18											0.66	600									
62.3	19											0.55	500									
Parts of line		7		6		5		4		3		2		Parts of line	1							
Traveling on load		75%		65%				50%				Not allowed		Traveling on load	Not allowed							
Weight of lifting hook		0.13 sh.ton(116kg)												Weight of lifting hook	0.05 sh.ton(48kg)							

Notes:

- 1.The value given in the table is the rated lifting weight of the crane, including the weight of the hook, under the condition of solid and smooth ground;
- 2.The actual lifting weight is the rated lifting weight 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 arm is retracted and placed at the minimum angle, and the counterweight is placed in the uphill direction.

SWTC10 crane lifting height and working range

