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Characteristics and advantages of XCT80 product

XCT80 Truck Crane is an efficient, economic and applicable product newly developed by XuZhou Construction Machinery Group. It uses 4-axle special purpose vehicle chassis, 10-speed transmission, full coverage table design, 5-section U-shaped boom, 2-section truss-type jib, combined counterweight, front swinging outrigger and rear telescopic outrigger, which can realize 360° full circle swinging operations. It adopts pilot liquid proportional control, and has good micro operation characteristics. The crane has wide operating range and strong lifting performance, which makes it more convenient, reliable and safer to use.

Main highlights of the product

Strong lifting performance and excellent travelling performance

It uses 5-section U-shaped main boom, has strong lifting performance and runs ahead of the products of the same tonnage in the same industry. It is configured with 4-axle special purpose vehicle chassis, 10-speed gear and full-bridge suspension, and has excellent travelling performance as well as strong pass ability and maneuverability.

High working efficiency and convenient switch of different conditions

It adopts dual independent winch design where both the main winch and the auxiliary winch can work independently. The rigging adopts quick-plug pocket type rope head with more convenient ratio change and high working efficiency. It uses self-removable combined counterweight, and hydraulic ram for hitching. Hitching of both swing mechanism and counterweight is equipped with remote-control box for control so as to facilitate replacement of different working conditions.

Brand-new power platform with strong power flow and economic fuel consumption

It takes low-speed large-torque engine as the core, combines with the high speed ratio transmission with over gear and takes account of the vehicle's slope performance at low speed and turnaround performance at high speed as well, which has merged the high dynamic property and low fuel consumption together in a perfect way. The engine has two available configuration choices, Weichai and Sinotruk.

K-shaped outrigger arrangement with good working stability

It adopts front swinging outrigger and rear telescopic K-shaped outrigger arrangement, which promotes the outrigger span effectively. It can realize 360° full circle swinging operations with no need of the front fifth outrigger, and has good working stability.

Smooth control and good micro operation characteristics

It adopts high-performance hydraulic-control load-sensitive main valve with a smoother linear gradient of the throttling opening, accurate flow control, smooth operation and good micro operation characteristics. Application of swing cushion technology for unique construction structures enables the swing system to operate smoothly with no shaking.

Comprehensive security protection design and high safety

The front axle adopts pneumatic disc brake, which brakes smoothly and reliably, and makes the driving safer. The crane uses load-limiter multiple loading condition real time monitoring, and is equipped with height limiting and overwinding protection devices as well as combined control, which can prevent misoperation and make the manipulation safer.

Brand-new appearance modeling and all-round personalized design

The crane has a brand-new appearance modeling developed by a special team, having a novel and smooth overall appearance. It adopts full-head luxurious driving cab with spacious cabin space, complete vehicle access ways, sliding door control room and pneumatic pedal design, which gives convenience to the operators to get on and off. Also, it is equipped with independent air conditioner with three-dimensional duct design, which makes the operating environment more comfortable.

Main technical data

(Subject to technical improvement)

Category		ltem	Unit	Paran	eter		
	Overall le	ength	mm	14770			
	Overall w	ridth	mm	2800			
Dimensional parameters	Overall h	eight	mm	3890			
		Axle base between axle 1 and axle 2	mm	1470			
	Axle base	Axle base between axle 2 and axle 3	mm	4000			
		Axle base between axle 3 and axle 4	mm	1350			
	Dead weig	int in travelling state	kg	50000			
Weight parameters	Axle load	Axle 1 and axle 2	kg	24000			
	Axie load	Axle 3 and axle 4	kg	26000			
	Engine n	nodel		WP12,375E40	MC11.40-40		
Power parameter	Engine ra	ated output	kW/(r/min)	276/1900	297/1900		
	Engine r	ated torque	N.m/(r/min)	1800/1009-1400	1900/1000-140		
	Maximum	Maximum travelling speed	km/h	km/h 80			
	travelling speed	Minimum stable travelling speed	km/h	3			
	Turning	Minimum turning diameter	m	24			
	rurning	Boom head turning diameter	m	29			
Travelling paramete	Minimum	ground clearance	mm				
	Approach	angle	*				
	Departure	e angle		15.5			
	Braking d	istance (speed is 30km/h)	m	≤10	≤ 10		
	Maximum	gradeability	%	40			
	Fuel cons	sumption per hundred kilometers	1	1 45			



(Subject to technical improvement)

Category			Ite	m	Unit	Parameter		
	Minimum	rated i	ifting	load	t	80		
	Minimum	rated v	vorki	ng radius	m	3		
	Turning ra (auxiliary			ng table tail ion)	mm	4670		
	Maximum)	Base	boom	kN.m	3000		
	load mon	nent	Full-	extend boom	kN.m	1411		
fain performance	-		Long	itudinal	m	8.075		
arameters	Outrigger span		Hariz	rontal	m	7.9		
			Base	boom	m	12.8		
	Lifting heig	ht	Full-	extend boom	m	47.5		
			Full-	extend boom+jib	m	64		
			Base	boom	m	12.4		
	Boom leng	th	Full-	extend boom	m	47.5		
			Full-	extend boom+jib	m	65		
	Offset angl	e of fly j	b		4	0.15.30		
	Boom telesa	copic	Fulle	dend	s	150		
	Maximum s	slewing	speed	i	r/min	2.0		
		Horizonta		One-sided simultaneous extension	5	20		
Vorking speed parameters	Outrigger telescopic time	outrigg	ger One-sided simultaneous retract		S	20		
	11.710	Vertica	al	Simultaneous extension	s	50		
		outrigger		Simultaneous retract	S	40		
		Horizontal		Full load	m/min	85		
	Lifting speed	autrigg	jer	Empty load	m/min	130		
	(single rape)	Vertica	a)	Full load	m/min	85		
		outrigg	le.	Empty load	m/min	110		
	External rad	liation no	oise		dB (A)	≤ 122		
	Noise in the	operatir	ng cat	5	dB (A)	≤ 90		

Lifting performance table

Boom lifting performance table (full-extend outrigger 7.9m, counterweight 11.5t) (In the table, lifting load is in Kg while boom length and radius is in meter)

Full-extend outrigger 7.9m, counterweight 11.5t, in units of t, "and m

福度 Radius		12.4			16.79			21.1	7		25.5	6	1	29.98	1		34.3	á		38.7	2		43.1	1	47.5		
	EBB	18 E	AN (r)	EES (4))	18 17	48 70	100 PM	28 [7]	A1 (H)	EIII	99 [7]	AR (c)	EBB Figure	08 [77]	RE No.	EBR (Pg)	08 	88 (m)	EIII (Pa)	88	AN (m)	EBS District	88 [**]	\$8 (x)	EEE NO.	88 [7]	## 100
3	80		12.8			17.5										_									_		
3.5	75	65.2	12.5	63	72.6	17.3	45	77.	22																		
4	68	62,5	12,2	61	70,7	17.1	45	75.3	21.8																		
5	58	56.9	11.5	54	67	16.7	43	72.5	21.5	38	76.1	26.1	32	78.7	30.7												
6	51	50.8	10.7	47	63.1	16,1	38	69.5	21	35	73.7	25.8	30	76.7	30.4	24.5	78.9	35									
7	43.5	44.1	9.6	42	59	15.5	34.5	66.6	20.6	32	71.3	25.4	28	74.7	30.1	22.5	77.2	34.7									
8	37	36.2	8.2	36.8	54.8	14.7	31.6	63.5	20	28	68.9	25	25.5	72.6	29.7	20	75.4	34.4	17.9	77.6	39						
9	30.5	25.9	6.2	29.9	50.2	13.9	28.2	60.3	19.4	26.5	66.4	24.5	23.8	70.6	29.3	18.9	73.7	34	16.9	76.1	38.7						
10				24.3	45.3	12.8	24	57	18.7	23.7	63.9	23.9	21.8	68.5	28.9	17.7	71.9	33.7	15.7	74.5	38.3	13.4	76.6	43	12.5	78.3	47.5
12				17.1	33.7	10	16.9	50	17	17,9	58.6	22.7	18.6	64.2	27.9	16.6	68.2	32.8	14.9	71.4	37.2	13	73.8	42,3	11	75.B	47
14							12.4	42	14.9	13.3	52.9	21.1	14	59.7	26.8	14.5	64.5	31.8	12,7	68.1	36.6	11	71	41.5	10	73.3	46.3
16							9,3	32.2	11.9	10.3	46.7	19.3	10.9	55	25.2	11.4	60.6	30.6	11	64.8	35.7	9.5	68.1	40.6	9.0	70.7	45.
18										8	39.8	16.9	8.7	49,9	23.5	9.1	56.6	29.2	9.5	61.4	34.5	8.4	65.1	39.6	8.0	68	44.6
20													7.	44.4	32.4	7.4	52.3	27.6	7.7	57,B	33.2	7,3	62	38.5	7.2	65.3	43.3
22													5.6	38.2	18.8	6	47.7	25.7	6.2	54.1	31.6	6.4	58.9	37.1	6.4	62.5	42,4
24																5	42.7	23.5	5.2	50.1	29.9	5.3	55.6	35.7	5.4	59.7	41.1
26																4.1	37.t	20.8	4.3	45.9	27.8	4.5	52.1	34	4,7	56.7	39.7
28																3.2	30.5	17.3	3.4	41.3	25.5	3.7	48.4	32.1	3.9	53.6	38.1
30																			2.9	36.2	22.6	3.1	44.5	30	3.3	50.4	36.7
32																						2.6	40.3	27.5	2.8	47	34.7
34																						2.1	35.6	24.5	2.3	43.4	32
36	Ξ																								1.8	39.4	29.4
Parts of ine		12			10			8			6			6			5			4			3			2	



Total rated lifting load for jib of XCT80 Truck Crane (Counterweight 11.5t)

Total rated lifting load for jib (counterweight 11.5t, full extend outrigger 7.9m), in t

		47.5m+10.5m	0		47.5m+17.5m						
Boom angle	0	15	30	0	15	30					
	Lifting load										
8	6.3	4.4	4.2	3.7	2	1.6					
5	5.8	4	3.7	3.2	1.6	1.4					
2	5.1	3.7	3.5	2.7	1.4	1.3					
0	4.7	3.5	3.4	2.5	1.3	1.3					
5	3.9	3.2	3	1.9	1.2	1.1					
0	2.8	2.6	2.5	1.7	1.1	1.1					
55	2.1	1.9	1.8	1.4	*	0.9					
60	1.2	1.1	1.1	1.1							
Veight of lifting hook				250kg							

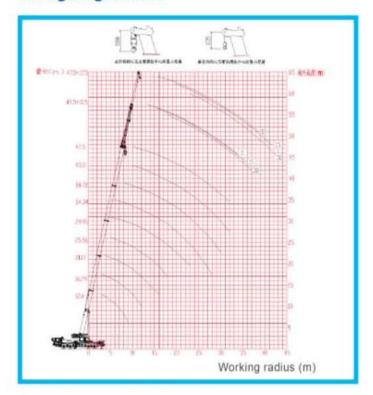
Note 1: The rated lifting load shown in the table means the maximum lifting load that the crane can ensure when it is set on flat and firm ground.

Note 2: The rated lifting load in the table includes the weight of lifting hook and sling.

Instructions

- In the table, the boom length and radius is in meters, and the lifting load is in tons.
- The lifting load shown in the table means the total rated lifting load which includes the lifting hook and sling.
- > The crane is allowed to operate only when the wind is below force five.

Lifting Height Curve



Operation range of Outrigger

Operational area drawing of full-extend outrigger

