## **Telescopic Crawler Crane**

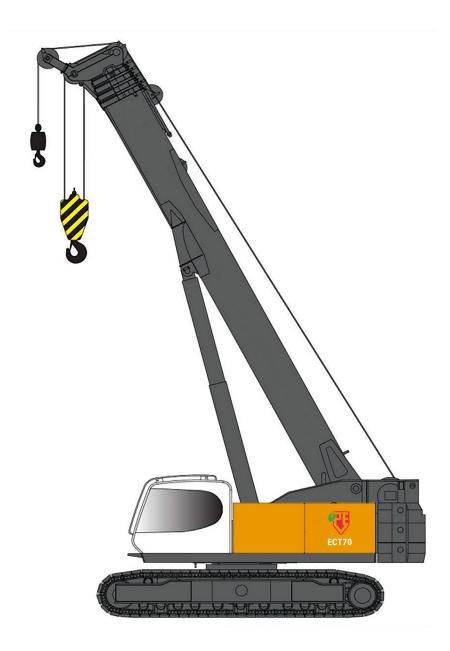
# **MODEL ECT80**













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## FEATURES & TECHNICAL DATA



#### **Power system**

150-200kW Elektromotor 260kWh/650 volt battery pack (2 x 130kWh interchangeable) Lithium-iron-phosphate (LiFeP04) 100% maintenance free and recycleble Work hours: 8 hours Fully recharged: 6 hour (63A) Active cooling system



#### **Hydraulic system**

The hydraulic system is load sensor valve control system, the main pump is double variable pump, and main valve is 5 series M7 valve. The hoist mechanism, undercarriage adopt the variable system, and can realize stepless shift gears. Hydraulic oil tank capacity: 1350L.



#### **Boom device**

Use the imported high strength steel plate, the U-type section lifting boom with fine designed and manufactured, the dynamics performance is much better. The telescopic mechanism is composed of cylinder and rope blocks, with better telescopic performance



#### **Self-assembly device**

The superstructure is equipped with self-assembly cylinder and undercarriage is equipped with outrigger cylinder; The counterweight, track and extension frame can be realized with self-assembly function; High efficiency, safety and fast self-assembly function can fulfill the quick assembly/disassembly of whole crane.

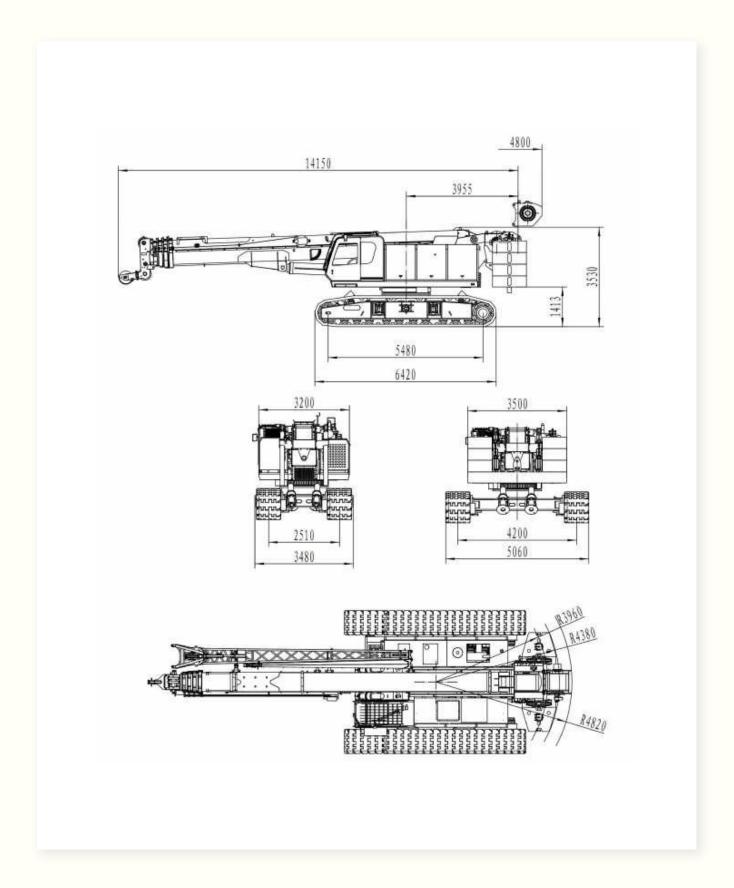


## **TECHNICAL DATA**

Items	Unit	Data
Max. rated lifting capacity	t	80t
Boom length	m	11,68~44
Boom dericking angle	0	-2~80
Jib length	m	8/14
Angle between jib and boom	0	5/15/30
Rope speed	m/min	110
Slewing speed	r/min	0~1,8
Travel speed	Km/h	0~1,96
Rope diameter	mm	22
Main/aux.winch rope length	m/m	240/130
Rated single line pull	T(kN)	7,5(73,5)
Gradeabillity (boom retract, cabin at rear)	%	30
Crane mass	t	88t
Overall dimension	mm	15355 X 6050 X 3500
Ground bearing pressure	Мра	0,09



## **OVERALL DIMENSIONS**





## **MACHINE CONFIGURATION**



Short runner	Long runner	Fixed jib
Max. lifting capacity: 80t x 3m	Max. lifting capacity: 7.5t x 3m	Max. lifting capacity: 7.5t x 3m
Max. boom combination:	Max. boom combination: 44 + 0.68m	Max. boom combination: 44 + 14m



#### **NOTES FOR LOAD CHART**

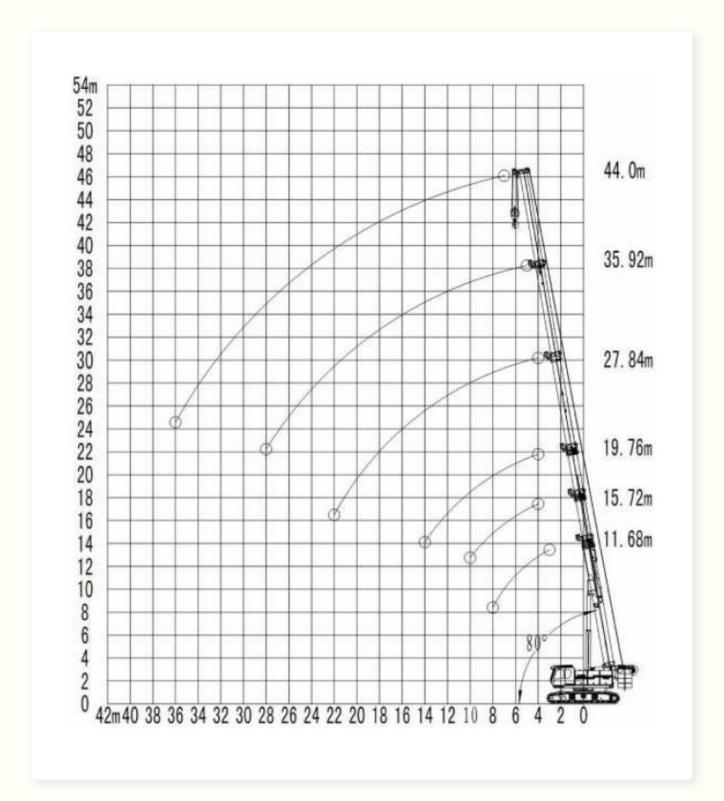
- This crane is calculated according to EN13000 standard;
- The lifting capacities are for reference only. For actual lifting capacities please refer to the load chart in the cabin or operation manual. The lifting capacities as stated are only valid for lifting activities.
- The unit in the load chart is (t), working radius is (m), the calue in the load chart should be deduct the self-weight of hooks, slings, etc.;
- 4 Only installed with boom, the max. allowed working wpeed is 13.8m/s, other working conditions max. allowed working wind speed <9.8m/s;
- 5 Only installed with boom, wind speed >21m/s (other working conditions>15m/s), and the boom should be placed flatly;

- 6 Use the auxilliary pulley block when the lifting capacity is more than 74.3t;
- The value in load chart is calculated based on balance load, not including impact load under suddon stop, ground conditions, wind force load, operation speed and other effect, uf under such conditions, and the operator must reduce the load;
- 8 Counterweight combination, hook selection, crane operation please refer to Operation Manuel strictly;
- **9** When the undercarriage width is less than 4600mm, and it needs to slew, please operate according to Operation Manual.

Load	No. of sheaves	No. lines	Weight
80t	6	12	1180kg
9t	0	1	250kg



## **WORKING RANGE-BOOM**





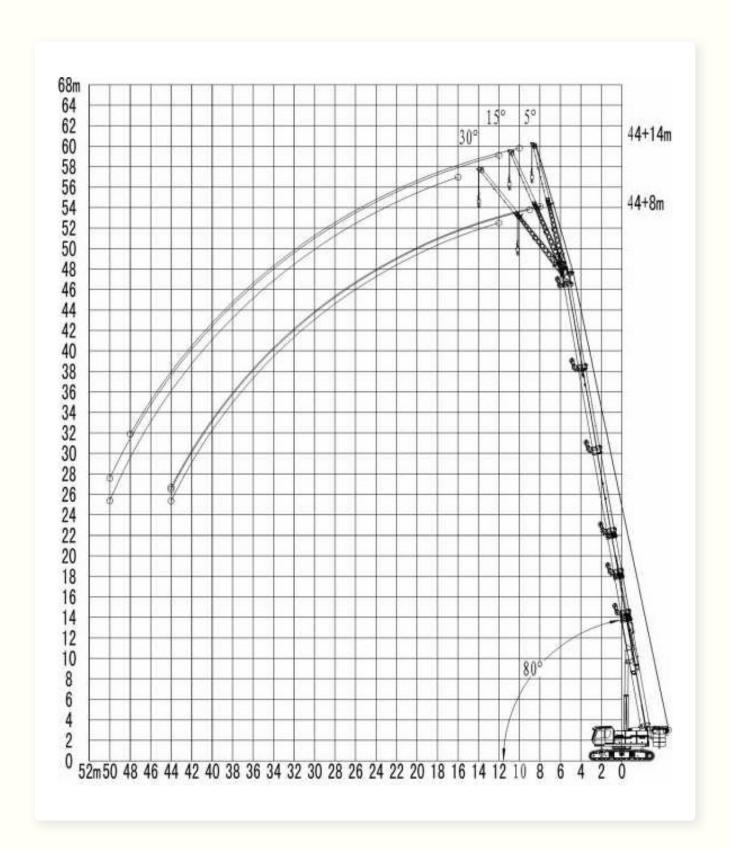
## **BOOM LOAD CHART**

Mainboom	Counter	weights	]			
	24,5 ton					
Lengte/radius	11,68 m	15,72 m	19,76 m	27,84 m	35,92 m	44 m
3 m	80,00					
4 m	73,70	60,10	39,50	24,30		
5 m	62,50	54,10	35,10	24,30	18,60	
6 m	51,20	48,20	31,10	24,30	18,60	
7 m	39,60	37,50	27,70	22,60	18,60	10,50
8 m	31,90	30,50	24,60	20,90	17,10	10,50
9 m		25,60	21,80	19,30	15,70	10,50
10 m		21,90	19,40	17,80	14,50	10,50
12 m			15,30	14,90	12,50	9,80
14 m			12,20	12,30	10,90	9,50
16 m				9,80	9,60	9,20
18 m				8,20	8,00	7,70
20 m				7,00	6,80	6,50
22 m				6,10	5,80	5,60
24 m					5,10	4,80
26 m					4,40	4,20
28 m					4,00	3,70
30 m						3,30
32 m						2,90
34 m						2,60
36 m						2,40



<sup>\*</sup> Preliminary lifting table, may deviate after calculations / adjustments

# **WORKING RANGE-FIXED FLY JIB**





# **FIXED FLY JIB LOAD CHART**

Fixed JI	В	Cou	nterweig	hts											
8 m			24,5 ton												
engte/radius	e/radius 11,68 m				19,76 m 27,84 m						35,92 m			44 m	
	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°
3 m	7,5														
4 m	7,5	7,5		7,5											
5 m	7,5	7,0		7,5	7,5		7,5								
6 m	7,0	6,4	5,4	7,5	7,5		7,5								
7 m	6,3	5,9	5,1	7,5	7,0	5,6	7,5	7,5		4,8					
8 m	5,7	5,5	4,8	7,5	6,6	5,3	7,5	7,4	5,7	4,8	4,8		4,8		
9 m	5,3	5,1	4,6	7,0	6,2	5,1	7,5	7,0	5,5	4,7	4,8		4,8	4,8	
10 m	4,9	4,8	4,4	6,5	5,9	4,9	6,9	6,7	5,3	4,7	4,8	4,8	4,8	4,8	
12 m	4,2	4,3	4,1	5,7	5,3	4,6	6,2	6,1	5,0	4,7	4,7	4,8	4,7	4,8	4,8
14 m	3,7	3,9	3,8	5,0	4,8	4,3	5,6	5,6	4,7	4,7	4,7	4,7	4,7	4,8	4,8
16 m	3,4	3,6	3,7	4,5	4,5	4,1	5,1	5,2	4,5	4,6	4,7	4,7	4,7	4,8	4,8
18 m				4,1	4,2	3,9	4,7	4,9	4,3	4,6	4,7	4,6	4,7	4,8	4,7
20 m				3,8	3,9	3,8	4,3	4,6	4,1	4,6	4,6	4,4	4,7	4,7	4,7
22 m	5			3,5	3,7	3,7	4,0	4,3	4,0	4,6	4,6	4,3	4,7	4,7	4,5
24 m	5						3,8	4,1	3,9	4,5	4,6	4,2	4,6	4,7	4,4
26 m							3,6	3,9	3,8	4,5	4,4	4,0	4,6	4,7	4,3
28 m							3,4	3,7	3,7	4,2	4,2	3,9	4,6	4,7	4,2
30 m	r							3,6	3,7	3,8	3,9	3,8	3,9	4,1	4,1
32 m										3,3	3,3	3,4	3,4	3,5	3,6
34 m										2,8	2,9	2,9	2,9	3,0	3,1
35 m										2,4	2,4	2,5	2,5	2,6	2,7
38 m													2,2	2,2	2,3
40 m													1,8	1,9	1,9
42 m													1,5	1,6	1,6
													1,3	1,3	1,3



<sup>\*</sup> Preliminary lifting table, may deviate after calculations / adjustments

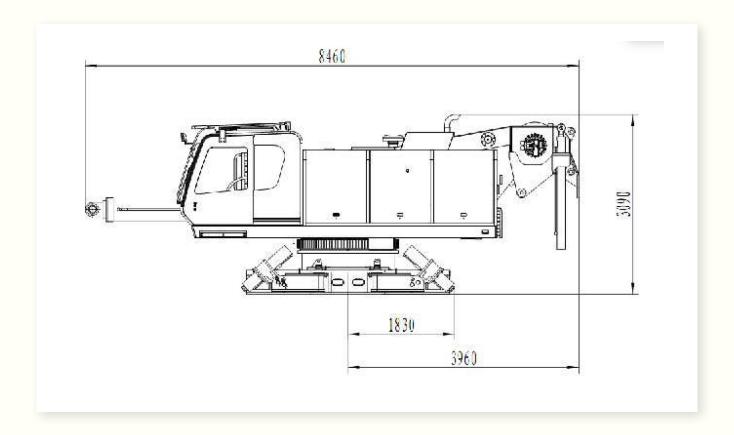
# **FIXED FLY JIB LOAD CHART**

Fixed JI	В	Cou	nterweig	hts											
14 m			24,5 ton							22					
Lengte/radius	us 11,68 m			19,76 m 27,84 m						35,92 m	ı		44 m		
	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°
3 m															
4 m	6,1														
5 m	5,3			6,5											
6 m	4,7	4,3		5,8											
7 m	4,2	3,9		5,3			6,2								
8 m	3,8	3,6		4,8	4,1		5,7			4,8					
9 m	3,5	3,4	2,9	4,4	3,9		5,2	4,3		4,7					
10 m	3,2	3,1	2,7	4,1	3,6		4,9	4,0		4,6	4,4		4,8		
12 m	2,8	2,7	2,5	3,5	3,3	2,7]	4,2	3,7	2,9	4,5	4,0		4,7	4,3	
14 m	2,4	2,4	2,3	3,1	2,9	2,5	3,8	3,3	2,7	4,4	3,7	2,8	4,5	3,9	
16 m	2,1	2,2	2,1	2,8	2,7	2,3	3,4	3,1	2,5	3,9	3,4	2,7	4,4	3,7	2,8
18 m	1,9	2,0	1,9	2,5	2,5	2,2	3,0	2,6	2,4	3,6	3,2	2,6	4,1	3,4	2,7
20 m	1,7	1,8	1,8	2,2	2,3	2,1	2,8	2,6	2,3	3,3	2,9	2,4	3,7	3,2	2,6
22 m		1,7	1,8	2,0	2,1	2,0	2,5	2,5	2,2	3,0	2,8	2,3	3,4	3,0	2,5
24 m				1,9	2,0	1,9	2,3	2,3	2,1	2,8	2,6	2,2	3,2	2,9	2,4
26 m				1,7	1,8	1,8	2,2	2,2	2,0	2,6	2,5	2,2	3,0	2,7	2,3
28 m				1,6	1,7	1,8	2,0	2,0	1,9	2,4	2,3	2,1	2,8	2,6	2,2
30 m							1,9	1,9	1,9	2,2	2,2	2,0	2,6	2,5	2,1
32 m							1,8	1,8	1,8	2,1	2,1	1,9	2,4	2,3	2,1
34 m							1,6	1,8	1,8	2,0	2,0	1,9	2,3	2,2	2,0
35 m								1,7	1,7	1,9	1,9	1,8	2,2	2,2	2,0
38 m										1,8	1,8	1,8	2,1	2,1	1,9
40 m										1,7	1,8	1,8	1,9	2,0	1,9
42 m										1,5	1,6	1,6	1,6	1,7	1,8
44 m													1,3	1,4	1,5
46 m													1,1	1,1	1,2
48 m													0,8	0,9	1,0
50 m														0,7	0,7

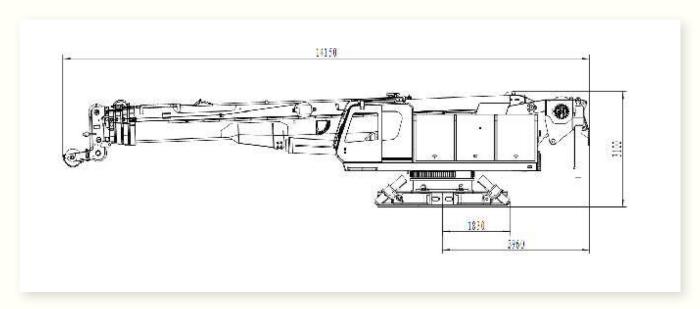


<sup>\*</sup> Preliminary lifting table, may deviate after calculations / adjustments

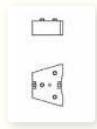
## Without counterweight, track frame, winch 2, main boom



## Without counterweight, track frame, winch 2

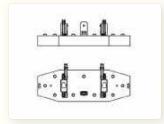






#### Part A

Length: 880mm Width: 1200mm Height: 470mm Weight: 2,3t



#### Part B

Length: 3500mm Width: 1440mm Height: 1000mm Weight: 10,7t



#### Winch 2

Length: 1050mm Width: 1360mm Height: 900mm Weight: 1,6t

	Part A	Part B
0	0х	0x
24,5	6х	1x



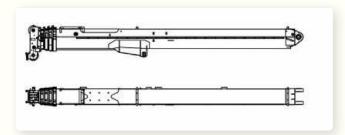
#### **Short runner**

Length: 690mm Width: 540mm Height: 480mm Weight: 0,1t



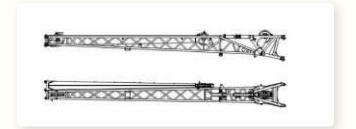
#### Crawler

Length: 6420mm Width: 1270mm Height: 1105mm Weight: 11t



#### **Main boom**

Length: 12220mm Width: 840mm Height: 1570mm Weight: 10,8t



#### Fixed jib

Length: 8510mm Width: 920mm Height: 1100mm Weight: 1,2t





#### 80t Hock

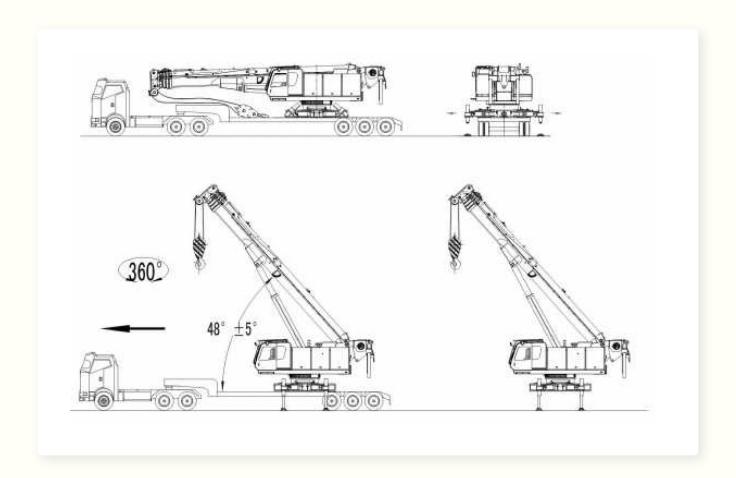
Length: 3500mm Width: 1440mm Height: 1000mm Weight: 10,7t



#### 9t Hock

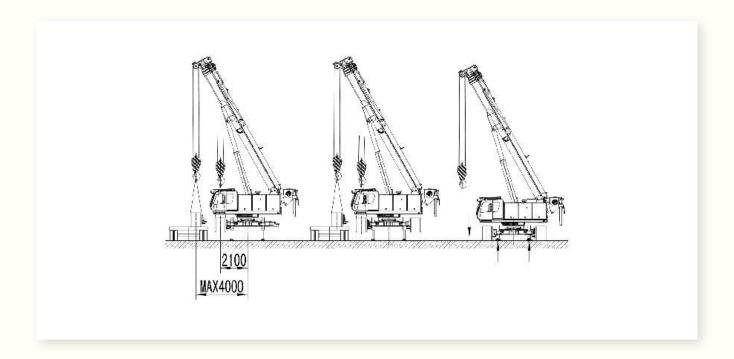
Length: 3500mm Width: 1440mm Height: 1000mm Weight: 10,7t

Under the trailer, transportation width: 3200mm, transportation weight: 40.5t. Width: 3200mm, Weight: 40.5t

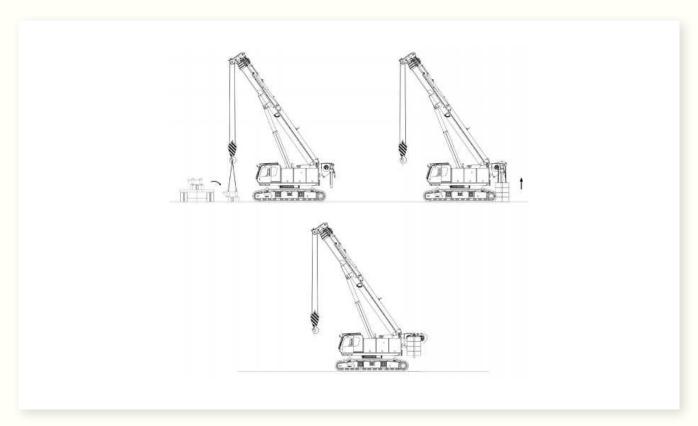




## **Crane assembly**



## **Counterweight Assembly**







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