

UTT360-18 Topless Crane

Standards and technical specifications

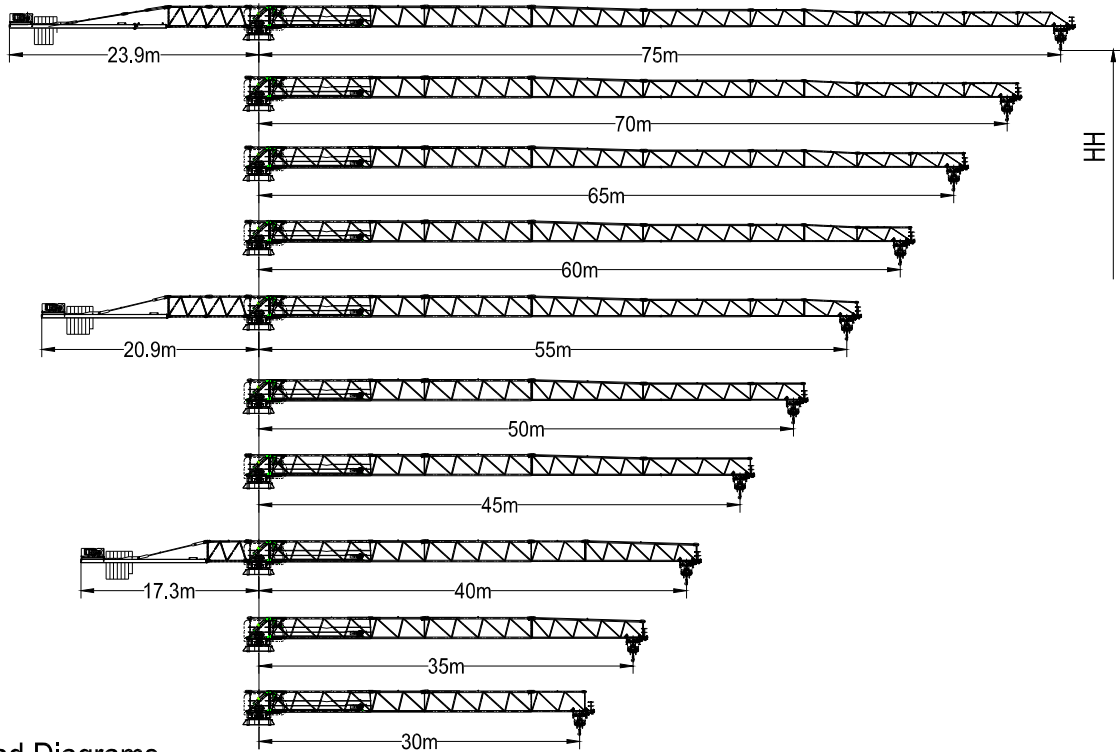
- EN 14439
- EN 60204
- FEM1.001/1.005
- ISO9001:2008

Tested By TUV

Type Approved By Singapore
No:TCA12004



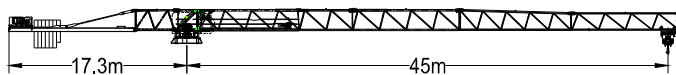
Jib and Counter Jib



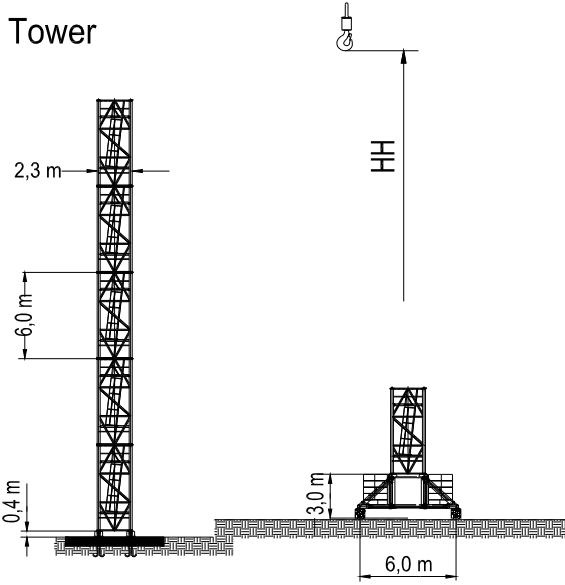
Load Diagrams

JIB	Max.load		Jib Reach														
	t	m	16	18	20	25	30	35	40	45	50	55	60	65	70	75	
75m		9.00	31.96	9.00	9.00	9.00	9.00	9.00	8.05	6.81	5.86	5.11	4.50	4.00	3.57	3.21	2.90
		18.00	17.55	18.00	17.46	15.42	11.83	9.50	7.87	6.66	5.73	4.99	4.39	3.89	3.47	3.11	2.80
70m		9.00	33.85	9.00	9.00	9.00	9.00	9.00	8.64	7.33	6.32	5.52	4.87	4.34	3.88	3.50	
		18.00	18.57	18.00	18.00	16.49	12.68	10.20	8.46	7.18	6.18	5.40	4.76	4.23	3.78	3.40	
65m		9.00	34.55	9.00	9.00	9.00	9.00	9.00	8.86	7.52	6.49	5.67	5.01	4.46	4.00		
		18.00	18.95	18.00	18.00	16.90	13.00	10.46	8.69	7.37	6.36	5.55	4.90	4.36	3.90		
60m		9.00	35.89	9.00	9.00	9.00	9.00	9.00	9.00	7.88	6.81	5.96	5.27	4.70			
		18.00	19.69	18.00	18.00	17.67	13.60	10.96	9.11	7.74	6.68	5.85	5.16	4.60			
55m		9.00	38.09	9.00	9.00	9.00	9.00	9.00	9.00	8.48	7.34	6.43	5.70				
		18.00	20.88	18.00	18.00	18.00	14.59	11.78	9.81	8.34	7.22	6.33	5.60				
50m		9.00	39.33	9.00	9.00	9.00	9.00	9.00	9.00	8.82	7.64	6.70					
		18.00	21.57	18.00	18.00	18.00	15.16	12.25	10.20	8.69	7.52	6.60					
45m		9.00	39.60	9.00	9.00	9.00	9.00	9.00	9.00	8.89	7.70						
		18.00	21.73	18.00	18.00	18.00	15.30	12.36	10.30	8.77	7.60						
40m		9.00	40.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00							
		18.00	22.18	18.00	18.00	18.00	15.67	12.66	10.56	9.00							
35m		9.00	35.00	9.00	9.00	9.00	9.00	9.00	9.00								
		18.00	22.60	18.00	18.00	18.00	16.01	12.95	10.80								
30m		9.00	30.00	9.00	9.00	9.00	9.00	9.00									
		18.00	22.82	18.00	18.00	18.00	16.19	13.10									

45m Jib and 17.3m Counter Jib



JIB	Max.load		Jib Reach								
	t	m	16	18	20	25	30	35	40	45	
45m		9.00	30.87	9.00	9.00	9.00	9.00	9.00	7.70	6.51	5.60
		18.00	17.04	18.00	16.86	14.89	11.41	9.16	7.57	6.40	5.50



Tower (UTS20.18)	
Undercarriage	
NO.	HH
1	7.58
2	13.58
3	19.58
4	25.58
5	31.58
6	37.58
7	43.58
8	49.58

Tower (UTS20.18)	
NO.	HH
1	4.0
2	10.0
3	16.0
4	22.0
5	28.0
6	34.0
7	40.0
8	46.0
9	52.0
10	58.0

all dimensions in (m)

UTS20.18 / UTS20.18P

Fixing Anchor

No.	Fixing angle
1	UTS20FAR
2	UTS20FA

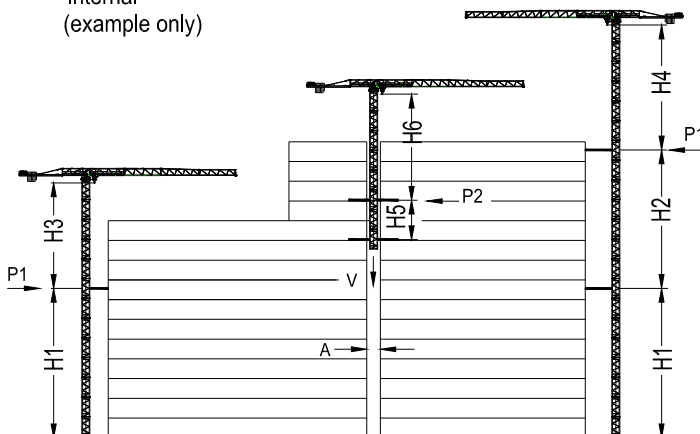
Tower configuration

No.	Tower	Mast	HH (m)	Jib reach (m)
1	UTS20.18	10	58.0	30-75
2	UTS20.18P	10	58.0	30-75

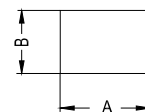
Note: TH20.3/TH20.3P is equivalent to UTS20.18/UTS20.18P.

Climbing

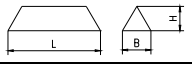
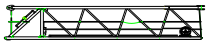
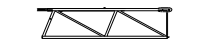
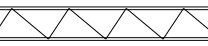
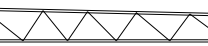
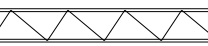
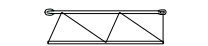
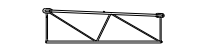
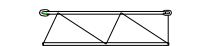







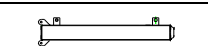
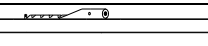



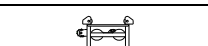

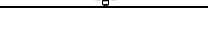




External
Internal
(example only)



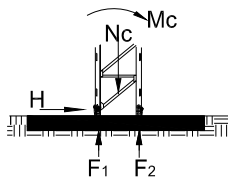
Tower	UTS20.18 / UTS20.18P		
	m	In service t	Out of service t
H1	47,2	—	—
H2	36,0	—	—
H3	51,8	—	—
H4	45,8	—	—
H5	14,0	—	—
H6	32,8	—	—
P1	—	24.2	27.3
P2	—	23.2	26.3
V	—	105.0	94.5
A	2,6		
B	2,6		



Main Parts List

Part	Piece	Description		L (m)	B (m)	H (m)	Kg*
UPPORT PART	1	Jib section TM13 + trolley winch		11.99	1.61	2.41	7500
	1	Jib section TM14		5.42	1.45	2.26	2055
	1	Jib section TM15		10.36	1.45	2.31	2915
	1	Jib section TM16		10.83	1.45	2.24	2445
	1	Jib section TM17		10.29	1.45	1.90	1870
	1	Jib section TM18		5.27	1.45	1.84	765
	1	Jib section TM19		5.25	1.45	1.82	665
	1	Jib section TM20		5.22	1.45	1.57	590
	1	Jib section TM21		5.19	1.45	1.56	500
	1	Jib section TM22		5.17	1.45	1.55	405
	1	Jib section TM23		5.17	1.45	1.55	302
	1	Jib section TM24		5.35	1.45	2.24	1240
	1	Jib end		0.61	1.57	1.27	100
	1	Counter jib TM04+Electric-panel		4.10	1.49	2.32	1740
	1	Counter jib TM05+Electric-panel		4.37	1.86	2.31	2230
	1	Counter jib TM 02+Suspension		3.25	1.97	0.68	1405
	1	Counter jib TM 03+Suspension		11.96	1.97	0.77	4270
	1	Hoist winch+rope		3.90	2.16	1.31	4625
	1	Slewing Table+Slewing Support		2.96	2.30	1.50	6900
	1	Cabin+Platform		3.70	2.15	2.25	1800
	1	Trolley		1.73	1.70	1.10	345
	1	Hook Block		1.01	0.50	1.97	890
	1	Counter Weight		3.0	1.58	0.35	3900
	1			2.63	1.58	0.35	3400
1	1.925			1.58	0.35	2500	
TOWER PART	1	Telescoping Cage		3.264	3.0	11.875	11221
	1	Fixing Anchor		0.61	0.61	2.31	410
	1	TH20.3/UTS20.18		6.00	2.20	2.25	3840
	1	TH20.3B/UTB20.18		6.00	2.20	2.25	3930

Foundation



Static Crane

Tower	HH (m)	Jib reach (m)	Foundation loading			Corner forces	
			Mc (kN.m)	Nc (kN)	H (kN)	F ₁ (kN)	F ₂ (kN)
UTS20.18	58.0	75	7415	1202	223	-2322	2921
UTS20.18P	58.0	75	7415	1202	223	-2322	2921

Mechanisms Specification

Mechanisms Specification													
Hoisting		75LVF45 (SEW/NORD) (50Hz)	m / min	86.0	64.0	43.0	43.0	32.0	21.5	600 m	75kw		
			t	2.25	4.5	9.0	4.5	9.0	18.0				
		75LVF45 (25Hz)	m / min	163	122	81.6	40.8	81.6	61	40.8	20.4	900 m	75kw
			t	1.0	2.1	3.5	9.0	2.0	4.2	7.0	18.0		
Trolleying		6T3V7	m / min	65							185 Nm		
		8DVF7	m / min	74							7.5kw		
Slewing		RZV95x3	r / min	0.67							3x4kw		
Power Supply				415V 50Hz / 440V 60Hz									
Necessary Electric Power				95kw (112kVA) / 204A									
Generator Recommendation				224 kVA									

Shipping

Tower	HH (m)	Container QTY			
		FR	40'OP	40'HQ	20'GP
UTS20.18	58.0			13	
UTS20.18P	58.0			13	

*Relative parameter might be adjusted. Final parameter is subject to its instruction manual.

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