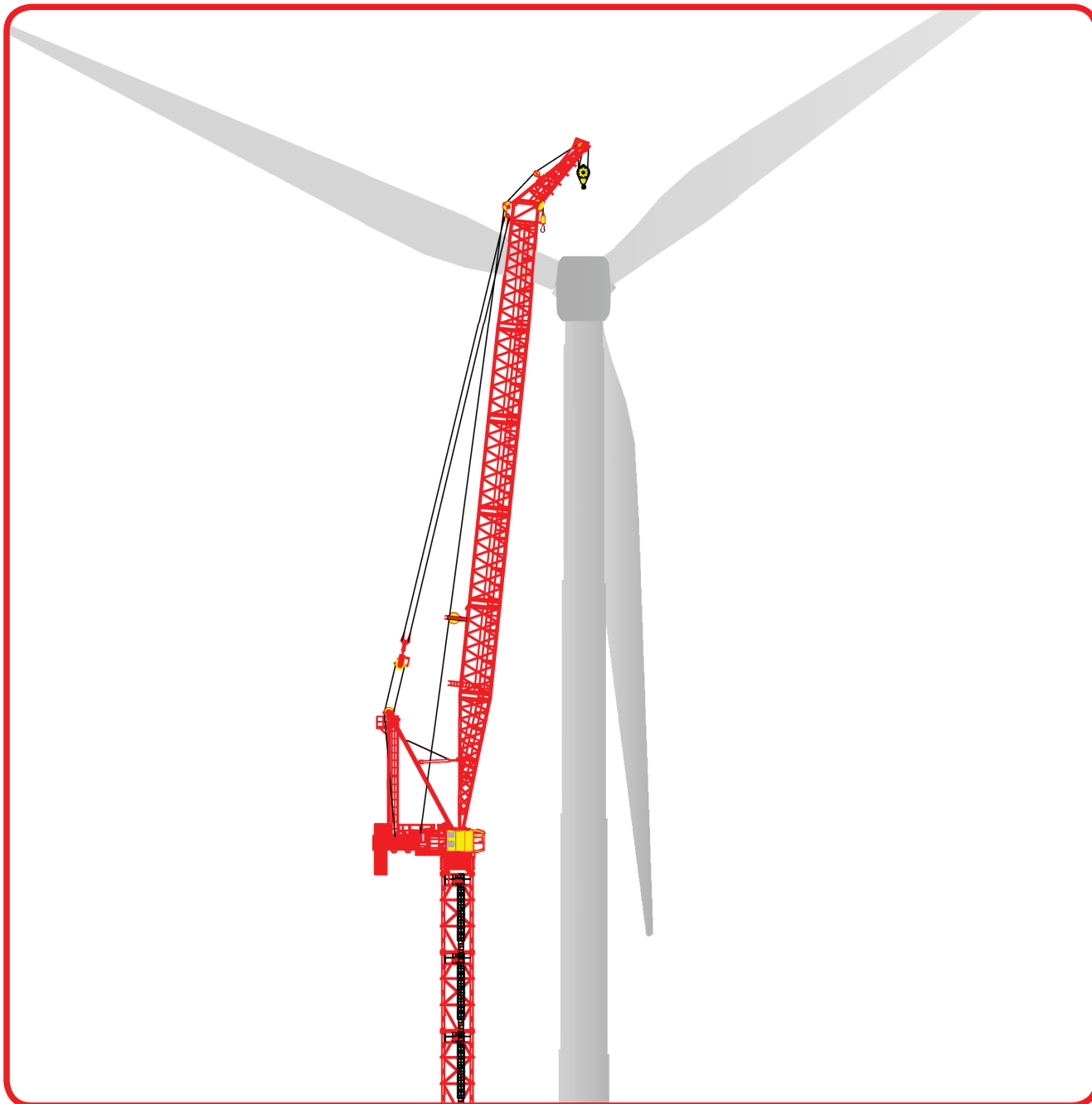




KRØLL CRANES



F.E.M 1.001-HC1/A3/E3



**LUFFING BOOM
TOWER CRANE**

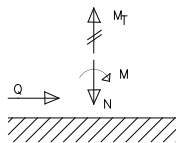
K1650L

135 tonnes Max

ERECTED DIMENSIONS

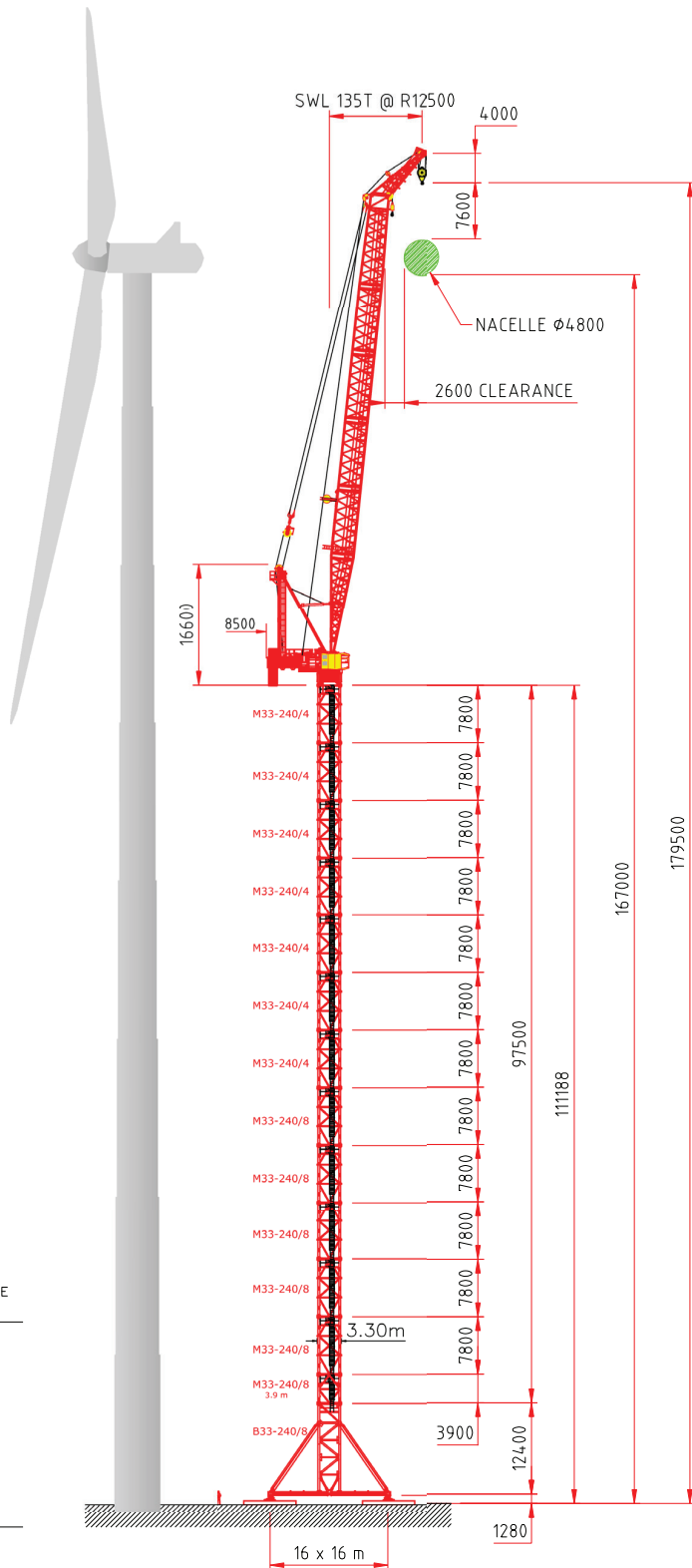
Lifts above 60 tonnes are limited to 15 m/s wind speed

FORCES AT GROUND LEVEL




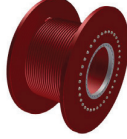
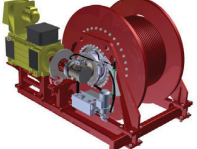
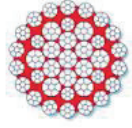

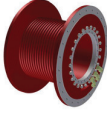
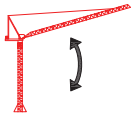





BASE FORCES, 167.0 m (111.2 m mast)

Wind speed	IN SERVICE	OUT OF SERVICE
	15 m/s	40 m/s
M (kNm)	31000	28000
N (kN)	7200	5700
Q (kN)	1.30	4.30
M _T (kNm)	800	0
Deflection, masth. (m)	1.700	0.900
Tilt, masth. (degrees)	1.300	0.500
Corner load (kN) 16x16m BX	3100	2600



LOAD CHARTS

Radius	Boom Length	
	69.0 m	
	Boom Angle	4 parts
[m]	[Degrees]	[Kg]
9.0	87.0	135,000
10.0	86.2	135,000
12.5	84.1	135,000
15.0	82.0	108,800
17.5	79.9	89,100
20.0	77.7	74,300
22.5	75.5	62,800
25.0	73.4	53,600
27.5	71.1	46,100
30.0	68.9	39,800
32.5	66.6	34,500
35.0	64.2	30,000
37.5	61.8	26,100
40.0	59.3	22,700
42.5	56.7	19,700
45.0	54.1	17,100
47.5	51.3	14,700
50.0	48.4	12,600
52.5	45.4	10,700
55.0	42.2	9,000
57.5	38.7	7,400
60.0	34.8	5,900
62.5	30.5	4,600
65.0	25.4	3,400
67.5	18.6	2,400
68.5	15.0	2,000

HOIST WINCH MOTOR 154 kW	4-PARTS 			HOIST DRUM CAPACITY 720 m / 7 layers	
		Load 0 - 10 t 10 - 60 t 60 - 135 t		Max. Speed 21 m/min 11 m/min 6 m/min	
	LUFFING WINCH MOTOR 90 kW			LUFFING DRUM CAPACITY 242 m / 5 Layer	
LUFFING SPEEDS 			LUFFING WIRE Diameter 32 mm Safety Factor 4.7 MBL 930 kN		
Average	4:00 min				
AUXILIARY WINCH MOTOR 85 kW	1-PART 			SLEW DRIVE Motor 2 x 11 kW	
	Load 0 - 2 t 2 - 6 t 6 - 16 t	Max. Speed 100 m/min 60 m/min 28 m/min	SLEW SPEEDS 		
9 - 68.5 m	0 - 0.5 rpm				
	POWER SUPPLY 400 - 480 V, 50/60 Hz			SUPPLY CABLE	
Consumption	320 kVA		Cable Length	Cable Type	
Main Fuse	400 A		0 - 120 m	4 x 185 mm ²	
Recommended Generator Size	400 kVA				

All motion controls are completely stepless ensuring smooth and jerk-free operation.
Creeping speed down to 0.5% of maximum speed.

All specifications shown in the tables are for the standard version. For special requirements regarding load charts or drive speeds, please contact Krøll Cranes A/S.