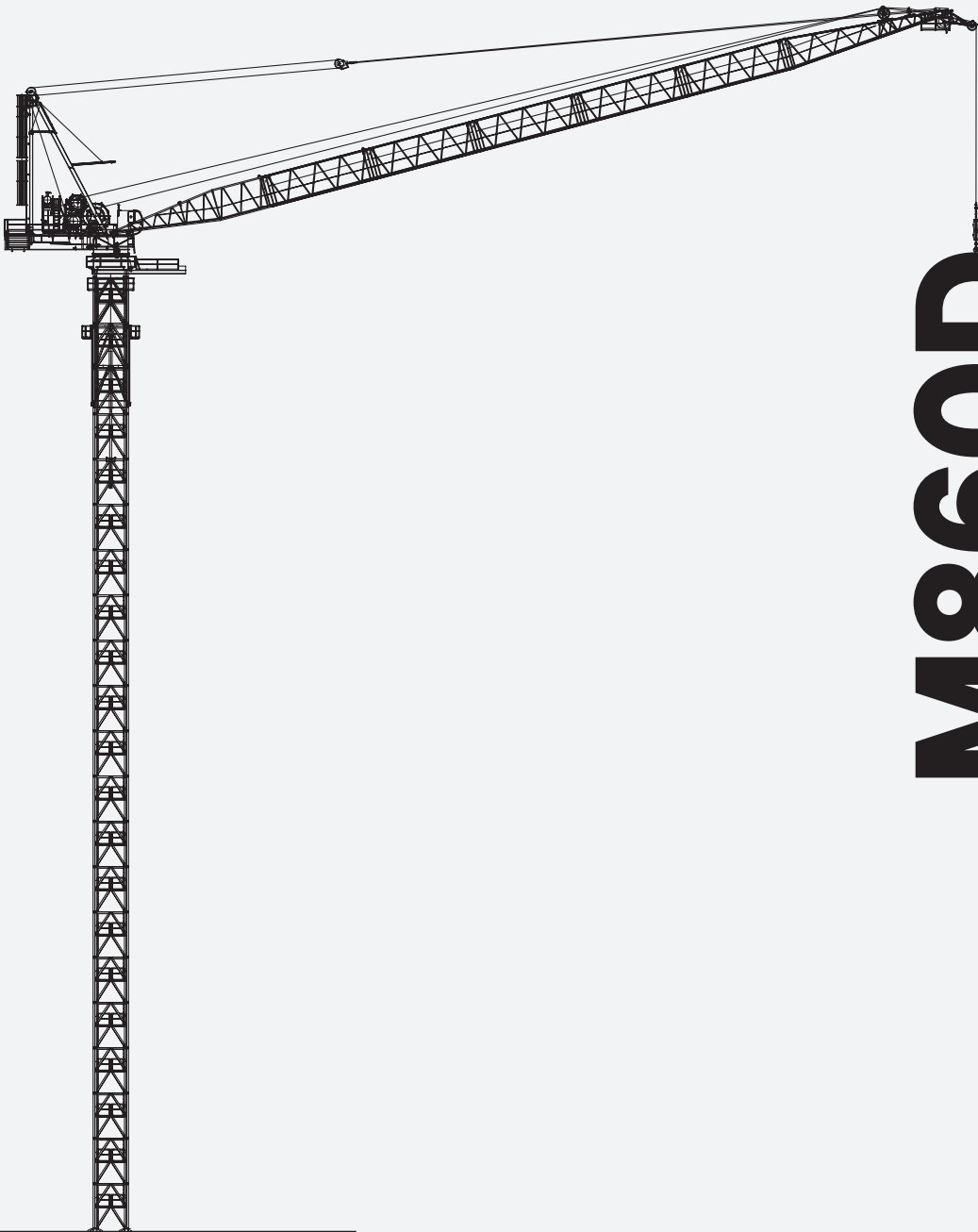




M860D

TECHNICAL DATA SHEET

M860D
TOWER CRANE

TYPICAL LOADS	
LOAD	RADIUS
7T	70.0m
32T	30.0m
64T	15.0m
96T	10.0m
MAXIMUM ALLOWABLE SERVICE WIND SPEED OF 20 m/s	



COMPATIBLE WITH
100% RENEWABLE
DIESEL (HVO100)



M860D RADIUS & CAPACITY (WITHOUT AUXILARY HOIST)

Boom Length	Max Rad. for Max WLL	Min Rad.	WLL at Min Rad.	1 FALL																				Max Rad.	WLL at Max Rad.
				Radius (metres) & Capacity (tonnes)																					
				7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0		
(m)	(m)	(m)	(T)																				(m)	(T)	
73.4	7.5	6.6	32.0	32.0	31.6	28.6	25.2	23.3	21.6	19.9	18.4	17.6	16.9	15.9	14.8	13.6	12.6	11.6	10.8	10.0	9.2	8.4	7.1	71.8	6.0
68.8	20.0	6.3	32.0	32.0	32.0	32.0	32.0	30.1	28.1	25.0	20.7	19.0	17.5	16.1	14.9	13.7	12.8	11.7	10.8	10.0	9.0	-	-	67.4	7.8
64.2	27.5	5.9	32.0	32.0	32.0	32.0	32.0	32.0	30.8	25.7	21.4	19.6	18.1	16.8	15.5	14.4	13.4	12.4	11.4	10.2	-	-	-	62.9	9.8
59.6	27.5	5.7	32.0	32.0	32.0	32.0	32.0	32.0	30.8	26.0	21.7	20.0	18.4	17.0	15.8	14.6	13.3	11.3	-	-	-	-	-	58.5	10.5
55.0	27.5	5.3	32.0	32.0	32.0	32.0	32.0	32.0	31.6	26.5	22.2	20.5	18.9	17.5	16.0	13.1	-	-	-	-	-	-	-	54.0	12.8
50.4	27.5	5.0	32.0	32.0	32.0	32.0	32.0	32.0	31.7	26.7	22.4	20.7	19.1	17.6	-	-	-	-	-	-	-	-	-	49.6	16.3
45.8	30.0	4.7	32.0	32.0	32.0	32.0	32.0	32.0	32.0	27.1	22.9	21.1	19.6	-	-	-	-	-	-	-	-	-	-	45.2	19.4
41.2	30.0	4.3	32.0	32.0	32.0	32.0	32.0	32.0	32.0	27.4	22.7	-	-	-	-	-	-	-	-	-	-	-	-	40.7	22.1
36.6	30.0	4.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	27.7	-	-	-	-	-	-	-	-	-	-	-	-	-	36.3	26.4

Boom Length	Max Rad. for Max WLL	Min Rad.	WLL at Min Rad.	2 FALL																				Max Rad.	WLL at Max Rad.
				Radius (metres) & Capacity (tonnes)																					
				7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0		
(m)	(m)	(m)	(T)																				(m)	(T)	
73.4	-	6.4	36.2	36.2	36.2	35.7	32.4	29.6	27.2	24.7	19.9	17.9	16.1	14.6	13.2	11.9	10.8	9.8	8.8	8.0	7.2	6.5	5.9	71.2	5.7
68.8	-	6.0	46.0	46.0	41.9	35.5	31.4	30.1	28.1	25.2	21.4	19.7	18.1	16.6	15.2	13.9	12.8	11.8	10.8	10.0	9.0	-	-	66.8	7.0
64.2	-	5.7	54.0	51.6	47.5	40.7	37.5	34.6	31.9	26.8	22.3	20.6	18.8	17.4	16.0	14.8	13.6	12.6	11.4	-	-	-	-	62.4	9.7
59.6	5.4	5.4	64.0	56.7	52.4	46.1	42.5	37.6	32.1	27.3	22.9	20.9	19.4	17.9	16.4	15.0	13.3	11.3	-	-	-	-	-	57.9	10.0
55.0	5.1	5.1	64.0	61.5	57.3	51.4	47.8	40.1	32.8	26.8	22.9	21.5	19.8	18.2	16.4	14.0	-	-	-	-	-	-	-	53.5	12.6
50.4	7.5	4.7	64.0	64.0	62.6	56.7	52.3	42.2	34.0	28.0	23.6	21.8	20.2	18.0	-	-	-	-	-	-	-	-	-	49.0	16.0
45.8	10.0	4.4	64.0	64.0	64.0	62.8	55.3	42.9	34.5	28.6	24.0	21.2	-	-	-	-	-	-	-	-	-	-	-	44.6	18.0
41.2	15.0	4.1	64.0	64.0	64.0	64.0	55.8	43.1	34.8	28.7	23.1	-	-	-	-	-	-	-	-	-	-	-	-	40.1	22.9
36.6	15.0	3.8	64.0	64.0	64.0	64.0	56.1	43.6	35.3	26.8	-	-	-	-	-	-	-	-	-	-	-	-	-	35.7	25.6

Boom Length	Max Rad. for Max WLL	Min Rad.	WLL at Min Rad.	3 FALL																				Max Rad.	WLL at Max Rad.
				Radius (metres) & Capacity (tonnes)																					
(m)	(m)	(m)	(T)	7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	(m)	(T)
73.4	-	6.1	37.0	37.0	37.0	36.4	32.9	29.8	27.2	24.8	19.7	17.7	15.8	14.2	12.8	11.5	10.3	9.3	8.3	7.5	6.7	6.0	5.5	71.3	5.2
68.8	-	5.8	48.0	47.6	43.4	36.6	32.6	31.6	29.0	24.4	20.6	19.1	17.5	16.0	14.7	13.5	12.4	11.4	10.5	9.7	8.7	-	-	66.9	6.5
64.2	-	5.5	60.0	55.4	50.2	42.3	38.6	36.9	30.9	25.9	21.9	20.0	18.3	16.8	15.4	14.2	13.2	12.2	11.0	-	-	-	-	62.5	9.2
59.6	-	5.2	69.0	63.5	57.5	48.3	44.2	36.6	30.0	27.0	22.4	20.6	18.8	17.4	15.9	14.4	12.6	10.8	-	-	-	-	-	58.0	9.4
55.0	-	4.8	80.0	70.5	64.9	55.0	48.7	38.6	31.6	26.3	22.0	21.2	19.6	17.8	15.8	13.6	-	-	-	-	-	-	-	53.6	12.1
50.4	-	4.5	85.0	77.3	71.8	63.2	54.3	43.0	34.5	28.2	23.5	21.6	20.0	17.6	-	-	-	-	-	-	-	-	-	49.1	16.1
45.8	4.2	4.2	96.0	85.0	79.6	70.3	53.4	43.9	35.2	29.0	23.5	20.5	-	-	-	-	-	-	-	-	-	-	-	44.7	17.5
41.2	5.0	3.9	96.0	93.2	88.7	77.6	57.2	44.2	35.6	29.3	23.5	-	-	-	-	-	-	-	-	-	-	-	-	40.2	23.2
36.6	10.0	3.6	96.0	96.0	96.0	78.2	57.8	44.7	35.9	25.8	-	-	-	-	-	-	-	-	-	-	-	-	-	35.8	25.5

M860D RADIUS & CAPACITY (WITH AUXILARY HOIST)

Boom Length	Max Rad. for Max WLL	Min Rad.	WLL at Min Rad.	1 FALL																				Max Rad.	WLL at Max Rad.
				Radius (metres) & Capacity (tonnes)																					
				7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0		
(m)	(m)	(m)	(T)																				(m)	(T)	
73.4	7.5	6.6	32.0	32.0	31.6	28.2	24.8	22.9	21.2	19.6	18.0	17.2	16.5	15.6	14.2	13.0	12.0	11.0	10.0	9.1	8.4	7.5	6.2	71.8	5.0
68.8	10.0	6.3	32.0	32.0	32.0	30.7	27.0	24.7	22.9	21.2	19.5	18.5	17.0	15.7	14.4	13.2	12.1	11.1	10.2	9.0	7.7	-	-	67.4	6.9
64.2	15.0	5.9	32.0	32.0	32.0	32.0	31.3	28.5	26.6	24.5	20.9	19.1	17.6	16.2	14.8	13.6	12.7	11.7	10.2	8.2	-	-	-	62.9	7.9
59.6	22.5	5.7	32.0	32.0	32.0	32.0	32.0	31.9	29.5	25.6	21.2	19.5	17.9	16.5	15.1	13.5	11.8	9.8	-	-	-	-	-	58.5	9.4
55.0	27.5	5.3	32.0	32.0	32.0	32.0	32.0	32.0	30.9	25.8	21.3	19.9	18.3	16.8	14.9	12.6	-	-	-	-	-	-	-	54.0	11.8
50.4	27.5	5.0	32.0	32.0	32.0	32.0	32.0	32.0	31.4	26.3	21.9	20.2	18.6	16.5	-	-	-	-	-	-	-	-	-	49.6	15.4
45.8	27.5	4.7	32.0	32.0	32.0	32.0	32.0	32.0	31.8	26.7	22.2	19.7	16.5	-	-	-	-	-	-	-	-	-	-	45.2	16.3
41.2	30.0	4.3	32.0	32.0	32.0	32.0	32.0	32.0	32.0	26.9	22.2	-	-	-	-	-	-	-	-	-	-	-	-	40.7	21.5
36.6	30.0	4.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	25.4	-	-	-	-	-	-	-	-	-	-	-	-	-	36.3	23.3

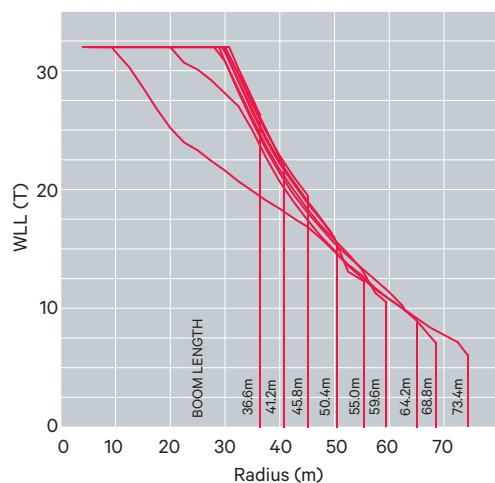
Boom Length	Max Rad. for Max WLL	Min Rad.	WLL at Min Rad.	2 FALL																				Max Rad.	WLL at Max Rad.
				Radius (metres) & Capacity (tonnes)																					
				7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0		
(m)	(m)	(m)	(T)																				(m)	(T)	
73.4	-	6.4	36.0	36.0	36.0	33.3	29.5	26.9	24.8	22.0	18.5	16.9	15.3	13.9	12.6	11.1	10.2	9.1	8.1	7.2	6.3	5.4	4.6	71.2	4.2
68.8	-	6.0	46.0	45.2	41.2	34.8	30.7	29.4	27.8	24.1	20.2	18.5	17.4	16.0	14.6	13.2	12.1	11.1	10.2	9.0	7.7	-	-	66.8	7.2
64.2	-	5.7	54.0	51.6	47.5	40.0	35.9	34.6	30.6	25.5	21.4	19.6	18.0	16.4	15.0	13.7	12.8	11.7	10.2	-	-	-	-	62.4	8.2
59.6	-	5.4	62.0	56.7	52.4	45.5	42.0	36.6	29.7	26.7	22.2	20.4	18.6	16.8	15.2	13.5	11.8	9.8	-	-	-	-	-	57.9	9.6
55.0	5.1	5.1	64.0	61.3	57.3	51.4	47.3	38.6	31.3	25.8	21.5	20.8	18.9	17.0	14.9	12.6	-	-	-	-	-	-	-	53.5	12.2
50.4	7.5	4.7	64.0	64.0	62.6	56.7	52.3	42.2	33.7	27.6	23.0	21.2	19.4	16.8	-	-	-	-	-	-	-	-	-	49.0	16.0
45.8	10.0	4.4	64.0	64.0	64.0	62.8	54.0	42.7	34.2	28.2	22.8	19.6	-	-	-	-	-	-	-	-	-	-	-	44.6	16.6
41.2	15.0	4.1	64.0	64.0	64.0	64.0	55.8	43.0	34.4	28.4	23.1	-	-	-	-	-	-	-	-	-	-	-	-	40.1	22.9
36.6	15.0	3.8	64.0	64.0	64.0	64.0	56.1	43.5	35.0	24.9	-	-	-	-	-	-	-	-	-	-	-	-	-	35.7	24.5

Boom Length	Max Rad. for Max WLL	Min Rad.	WLL at Min Rad.	3 FALL																				Max Rad.	WLL at Max Rad.
				Radius (metres) & Capacity (tonnes)																					
				7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0		
(m)	(m)	(m)	(T)																				(m)	(T)	
73.4	-	6.1	36.0	36.0	36.0	35.7	32.1	28.8	25.9	23.4	18.3	16.2	14.9	13.5	12.1	10.7	9.5	8.5	7.4	6.4	5.2	4.5	4.0	71.3	3.8
68.8	-	5.8	48.0	46.7	42.6	35.9	31.8	30.6	27.7	23.0	19.2	17.6	16.6	15.3	14.0	12.7	11.6	10.6	9.6	8.6	7.2	-	-	66.9	6.0
64.2	-	5.5	60.0	54.6	49.4	41.5	37.7	35.8	29.4	24.4	20.4	18.8	17.2	15.6	14.2	13.0	12.3	11.1	9.6	-	-	-	-	62.5	7.8
59.6	-	5.2	63.2	62.8	56.7	47.5	43.0	35.2	28.6	25.6	21.4	19.5	17.8	16.2	14.6	12.9	11.4	9.4	-	-	-	-	-	58.0	9.0
55.0	-	4.8	75.0	70.5	64.7	54.2	47.3	37.2	30.1	24.8	20.6	20.1	18.2	16.3	14.4	12.0	-	-	-	-	-	-	-	53.6	11.6
50.4	-	4.5	85.0	77.3	71.8	62.4	52.9	41.6	33.8	27.6	22.6	20.9	18.8	16.2	-	-	-	-	-	-	-	-	-	49.1	15.8
45.8	4.2	4.2	96.0	85.0	79.6	68.8	52.0	43.5	34.8	28.1	22.1	19.1	-	-	-	-	-	-	-	-	-	-	-	44.7	16.1
41.2	5.0	3.9	96.0	93.2	88.7	77.0	57.2	44.0	35.2	28.0	23.3	-	-	-	-	-	-	-	-	-	-	-	-	40.2	23.0
36.6	7.5	3.6	96.0	96.0	95.8	76.7	57.8	44.6	34.6	24.8	-	-	-	-	-	-	-	-	-	-	-	-	-	35.8	24.0

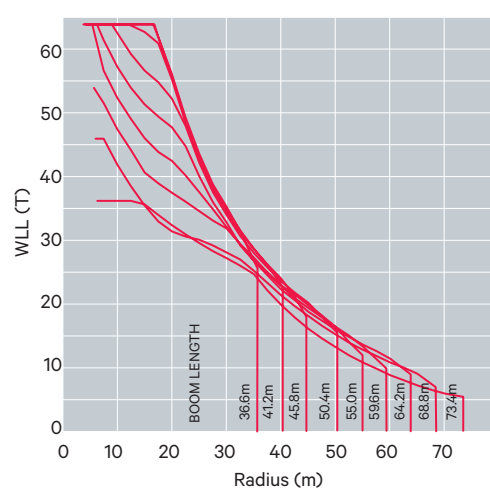
M860D LOAD CHARTS

WITHOUT AUXILIARY HOIST

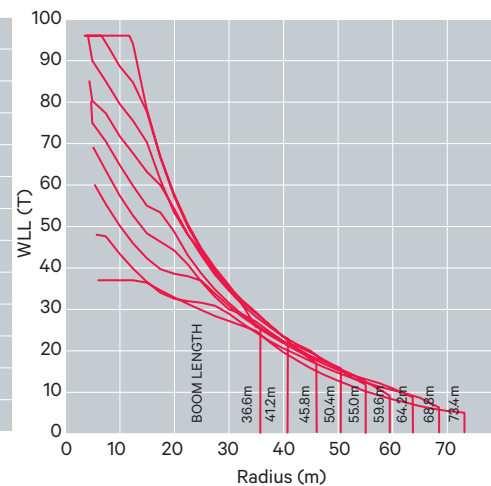
1 FALL



2 FALL

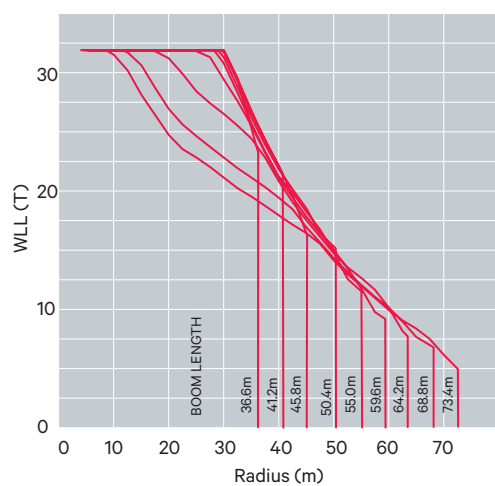


3 FALL

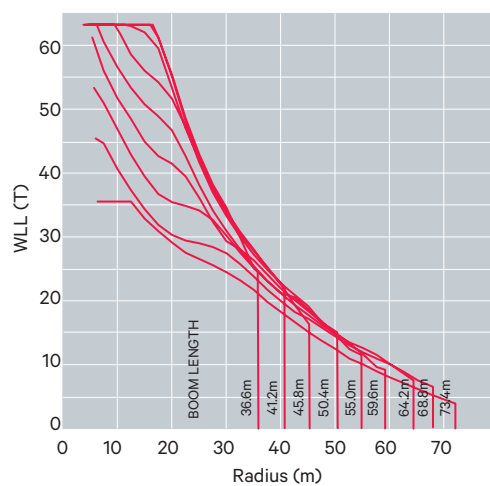


WITH AUXILIARY HOIST

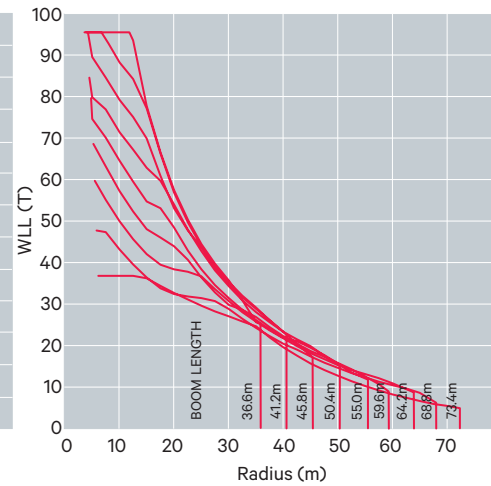
1 FALL



2 FALL



3 FALL

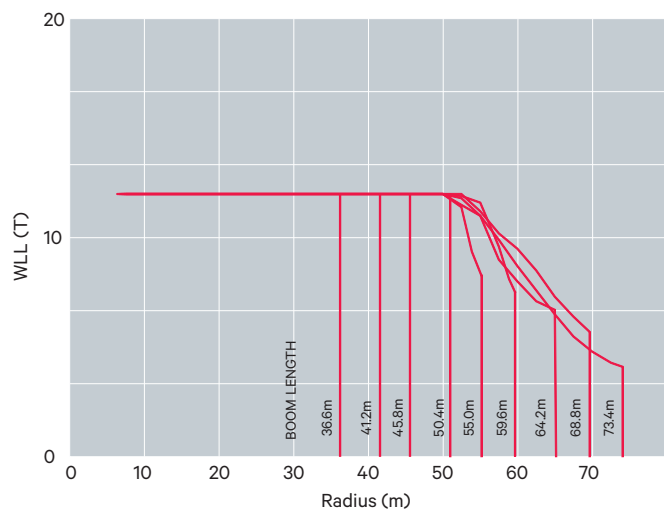


M860D RADIUS, CAPACITY & LOAD CHARTS

AUXILIARY HOIST

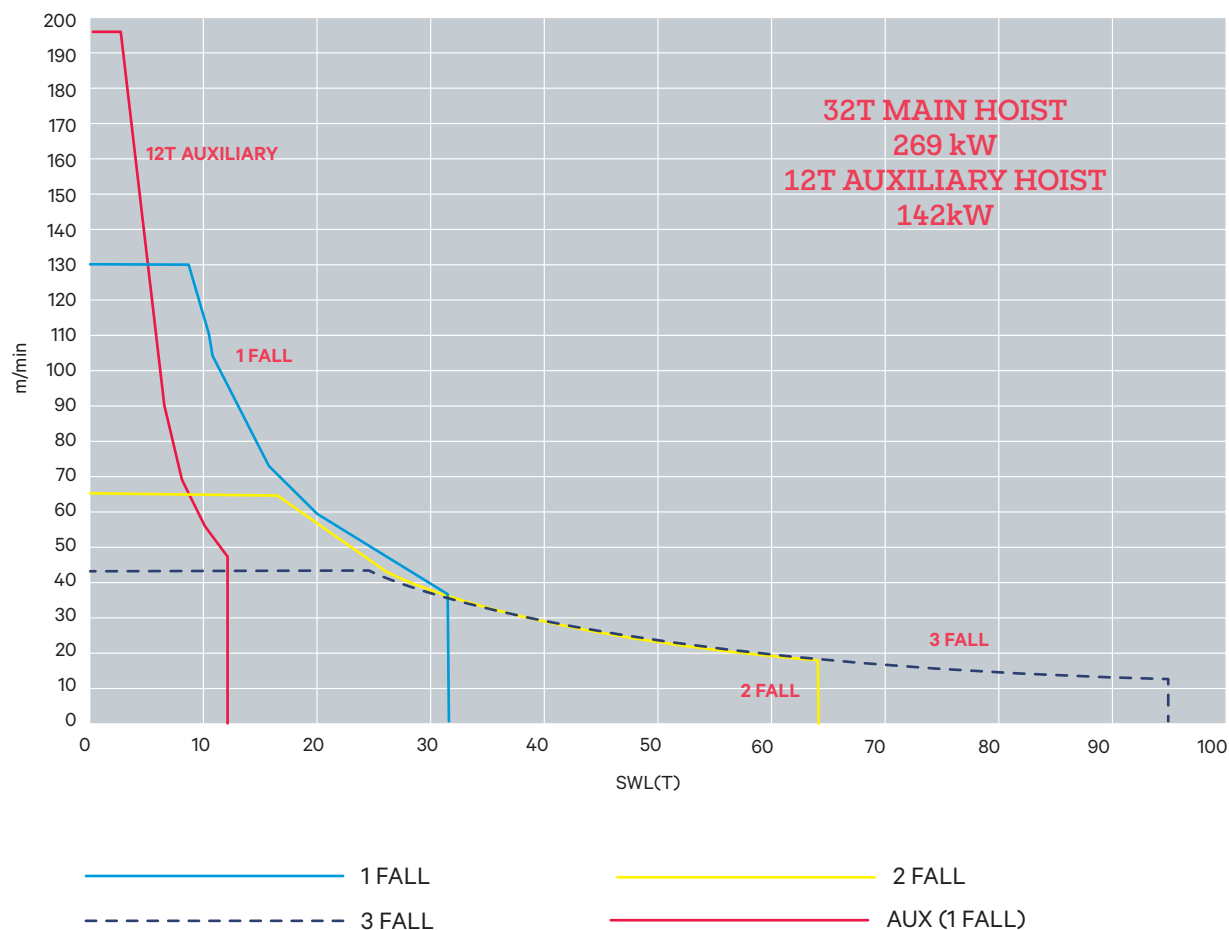
Boom Length	Max Rad. for Max WLL	Min Rad.	AUXILIARY HOIST - 1 FALL								WLL at Min Rad.	Max Rad.	WLL at Max Rad.
			Radius (metres) & Capacity (tonnes)										
(m)	(m)	(m)	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	(T)	(m)	(T)
73.4	50.0	7.6	11.5	11.0	9.9	8.7	7.6	6.5	5.5	4.8	12.0	74.1	4.1
68.8	52.5	7.3	12.0	11.2	10.2	9.5	8.5	7.3	6.4	-	12.0	69.7	5.7
64.2	52.5	7.0	12.0	11.8	11.0	9.0	8.0	7.1	-	-	12.0	65.2	6.7
59.6	52.5	6.7	12.0	11.9	11.6	9.6	8.1	-	-	-	12.0	60.8	7.5
55.0	50.0	6.4	11.4	9.4	-	-	-	-	-	-	12.0	56.3	8.3
50.4	51.9	6.0	-	-	-	-	-	-	-	-	12.0	51.9	12.0
45.8	47.4	5.7	-	-	-	-	-	-	-	-	12.0	47.4	12.0
41.2	43.0	5.4	-	-	-	-	-	-	-	-	12.0	43.0	12.0
36.6	38.6	5.1	-	-	-	-	-	-	-	-	12.0	38.6	12.0

1 FALL



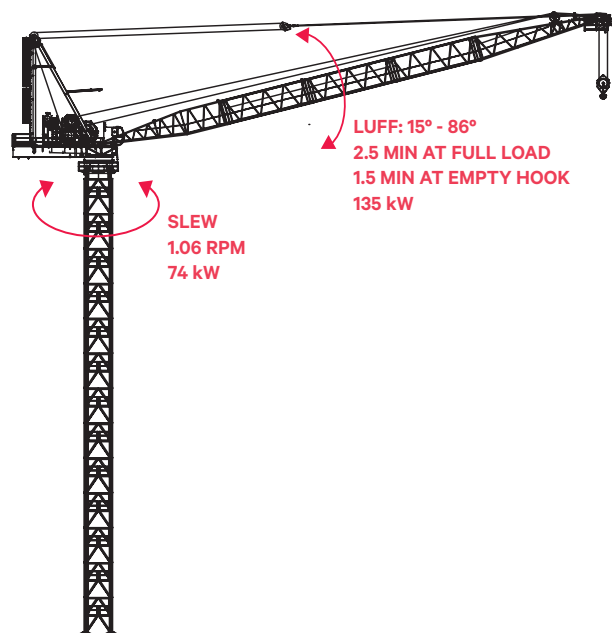
M860D SPEEDS (METRIC UNITS)

HOIST SPEED



	LOAD (T)	SPEED (m/min)
1 FALL	8.7	129.4
	11.0	104.1
	16.0	72.8
	20.0	58.7
	31.0	38.3
	32.0	37.1
2 FALL	16.5	64.7
	26.0	42.8
	35.4	32.0
	44.9	25.5
	54.3	21.3
	64.0	18.1
3 FALL	24.5	43.1
	38.8	28.4
	53.1	21.1
	67.4	16.8
	81.7	14.0
	96.0	12.0
AUX (1 Fall)	2.4	196.6
	6.0	90.1
	8.0	69.1
	9.0	61.9
	10.0	56.1
	12.0	47.2

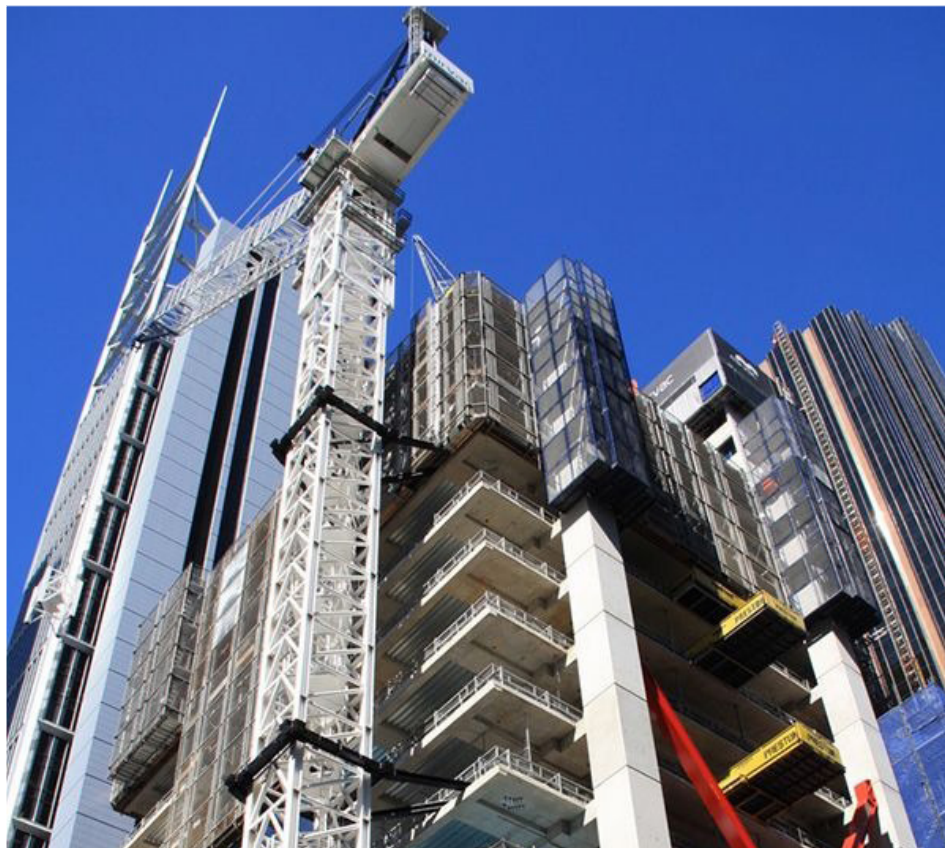
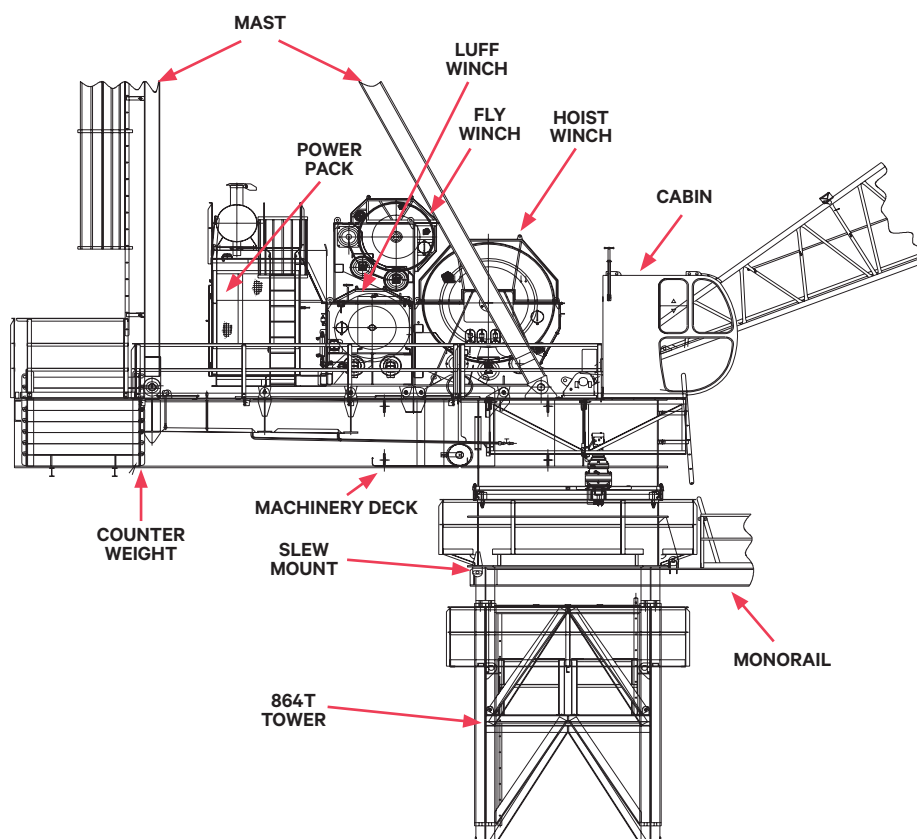
LUFF & SLEW SPEEDS



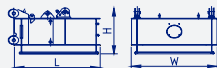
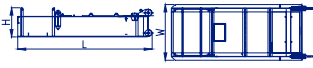
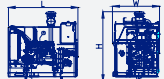
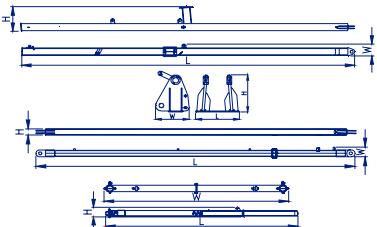
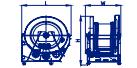
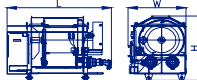
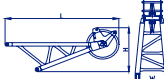
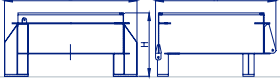
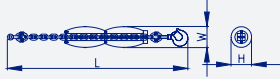
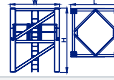
M860D GENERAL DIMENSIONS

MACHINERY DECK ASSEMBLY

M860D



M860D TRANSPORTATION & ERECTION (Indicative for information only*)

ITEM	QTY	DESCRIPTION		LENGTH L (mm)	HEIGHT H (mm)	WIDTH W (mm)	WEIGHT PER ITEM (kg)
1	1	SPLIT DECK-FRONT (INC. SLEW DRIVES, PINS & HANDRAILS)		3370	2127	3390	9675
2	1	SPLIT DECK-REAR		7255	1445	3390	12206
3	1	POWERPACK (INC. OIL 850L)		3008	3207	2024	5020
4	2	MAST FRONT LEG		13250	1099	519	2545EA
	1	MAST HEAD		1120	1152	852	934
	2	MAST BACK LEG		12020	250	390	990A
	1	BUFFER		3740	231	2974	398
		MAST ASSEMBLY (INC. SHEAVES, HEAD PIN, LADDERS, BUFFER AND PLATFORMS)					9716
5	1	CABIN & PLATFORM ASSEMBLY		4607	3286	1660	2470
6	1	MAIN HOIST WINCH ASSY (EMPTY DRUM) (750 m WINCH CAPACITY)		2464	2915	1765	9351
7	1	AUX. HOIST WINCH ASSY (EMPTY DRUM) (500m WINCH CAPACITY)		1771	1937	1730	3708
8	1	LUFF WINCH ASSY (EMPTY DRUM)		2846	1995	1576	3968
9	1	BOOM BOTTOM 13.7m (INC. WALKWAYS & PINS)		13963	3569	2815	2733
10	1	BOOM TOP 13.7m (INC. DEFLECTOR, SHEAVES & PINS) (PENDANT & PLATFORM)		14561	2814	1920	4281
11	5	BOOM EXTENSION 9.2m & PENDANT BARS (BRIDLE PLATFORM 325KG)		9316	2991	2814	2111 (2436)
12	1	BOOM FLY 2.4m		2845	1205	851	451
14	1	BRIDLE		1865	1010	1056	703
15	1	SLEW MOUNT (INC. PLATFORMS 850Kg)		3710	1871	3370	6183
	1	SLEW RING (INC. BOLTS)		3100 DIA	175		2245
		Total					8428
16	1	CLIMBER		11530	1000	3500	16760
17	1	MONORAIL		8000	1697	650	3120
18	8	COUNTERWEIGHT		2750	257	1915	8194
19	1	HOOK - 3/2/1 FALL (96/64/32T)		2760	420	1340	2683
20	1	HOOK - 1 FALL (12T)		2804	320	327	520
20		TOWER SECTION (INC. LADDER, HAND RAIL, PLATFORM)		3050	4003	3031	6235
21	1	HOIST ROPE (42mm) @ 8.56kg/m HOIST ROPE (32mm) @ 5.01kg/m		400m 200m			3561 1042
22	1	LUFF ROPE (32mm) @ 4.87kg/m		220m			1115

*WEIGHTS CAN VARY BY INDIVIDUAL CRANE. PLEASE CONTACT US FOR FURTHER INFORMATION.

Due to continuing product development Favelle Favco reserves the right to alter specifications of its products as appropriate.