

MARR

FVELLE
FAVCO



M860DX

TECHNICAL DATA SHEET

M860DX TOWER CRANE

TYPICAL LOADS	
LOAD	RADIUS
8.9T	72.0m
32T	34.2m
64T	19.0m
96T	11.8m

**MAXIMUM ALLOWABLE SERVICE WIND
SPEED OF 20 m/s**



COMPATIBLE WITH
**100% RENEWABLE
DIESEL (HVO100)**



M860DX RADIUS & CAPACITY (WITHOUT AUXILIARY HOIST)

Boom Length (m)	Max Rad. for Max WLL (m)	Min Rad. (m)	WLL at Min Rad. (T)	1 FALL																			Max Rad. (m)	WLL at Max Rad. (T)	
				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		
82.6	-	7.2	27.5	27.5	26.8	24.8	22.9	21.4	20.1	19.0	18.0	17.5	16.8	16.2	15.0	13.8	12.7	11.7	10.8	10.0	9.3	8.6	7.9	80.7	5.7
73.4	15.9	6.1	32.0	32.0	32.0	29.0	26.8	24.8	22.9	21.2	20.2	19.1	17.7	16.4	15.2	14.2	13.2	12.3	11.5	10.8	10.1	9.5	72.0	8.9	
68.8	31.0	5.9	32.0	32.0	32.0	32.0	32.0	32.0	27.5	23.1	21.2	19.6	18.1	16.8	15.7	14.6	13.5	12.4	11.5	10.4	9.0	-	67.6	8.9	
64.2	31.8	5.7	32.0	32.0	32.0	32.0	32.0	32.0	28.2	23.7	21.9	20.2	18.8	17.5	16.3	15.2	14.3	13.4	11.8	-	-	-	-	63.1	11.4
59.6	32.0	5.4	32.0	32.0	32.0	32.0	32.0	32.0	28.7	24.2	22.3	20.7	19.2	17.9	16.7	15.7	14.1	-	-	-	-	-	-	58.7	13.2
55.0	32.8	5.2	32.0	32.0	32.0	32.0	32.0	32.0	29.3	24.8	22.9	21.3	19.8	18.5	17.0	-	-	-	-	-	-	-	-	54.3	15.3
50.4	32.7	4.9	32.0	32.0	32.0	32.0	32.0	32.0	29.7	25.2	23.3	21.7	20.2	-	-	-	-	-	-	-	-	-	-	49.8	17.5
45.8	33.0	4.7	32.0	32.0	32.0	32.0	32.0	32.0	30.4	25.8	24.0	20.6	-	-	-	-	-	-	-	-	-	-	-	45.4	20.3
41.2	30.0	4.5	32.0	32.0	32.0	32.0	32.0	32.0	25.1	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	40.9	22.1
36.6	34.2	4.2	32.0	32.0	32.0	32.0	32.0	32.0	30.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.5	27.1

Boom Length (m)	Max Rad. for Max WLL (m)	Min Rad. (m)	WLL at Min Rad. (T)	2 FALL																			Max Rad. (m)	WLL at Max Rad. (T)	
				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		
73.4	-	6.1	41.6	41.6	41.6	41.0	37.3	34.0	31.2	27.3	22.6	20.7	19.0	17.5	16.1	14.9	13.7	12.7	11.7	10.8	10.1	9.4	8.8	71.9	8.4
68.8	-	5.9	52.9	52.9	48.2	40.8	36.1	34.6	32.3	27.8	23.1	21.2	19.5	18.0	16.6	15.4	14.3	13.3	12.3	11.5	10.4	-	-	67.4	8.1
64.2	-	5.6	59.4	56.8	52.3	44.8	41.3	38.1	34.8	28.6	23.9	22.0	20.2	18.7	17.4	16.1	15.0	14.0	12.8	11.1	-	-	-	63.0	10.8
59.6	8.0	5.4	64.0	64.0	60.3	53.0	48.9	43.2	35.5	29.1	24.4	22.5	20.7	19.2	17.9	16.6	15.4	13.3	-	-	-	-	-	58.5	12.9
55.0	11.3	5.2	64.0	64.0	64.0	59.1	54.4	44.4	36.3	29.9	25.1	23.2	21.5	19.9	18.6	16.2	-	-	-	-	-	-	-	54.1	15.1
50.4	18.3	4.9	64.0	64.0	64.0	59.3	45.8	36.8	30.4	25.6	23.7	22.0	19.5	-	-	-	-	-	-	-	-	-	-	49.6	17.4
45.8	18.6	4.7	64.0	64.0	64.0	60.1	46.5	37.5	31.1	26.3	23.6	20.3	-	-	-	-	-	-	-	-	-	-	-	45.2	20.2
41.2	18.8	4.5	64.0	64.0	64.0	60.6	47.0	37.9	31.5	23.7	-	-	-	-	-	-	-	-	-	-	-	-	-	40.7	23.4
36.6	19.0	4.2	64.0	64.0	64.0	61.4	47.8	38.7	29.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.3	27.3

Boom Length (m)	Max Rad. for Max WLL (m)	Min Rad. (m)	WLL at Min Rad. (T)	3 FALL																			Max Rad. (m)	WLL at Max Rad. (T)	
				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		
73.4	-	5.7	42.6	42.6	42.6	41.9	37.8	34.3	30.1	25.4	21.6	19.6	17.8	16.2	14.8	13.6	12.4	11.4	10.5	9.7	8.9	8.3	7.6	71.6	6.9
68.8	-	5.4	55.2	54.7	49.9	42.1	37.5	36.3	31.7	26.8	22.3	20.3	18.5	16.9	15.5	14.2	13.1	12.1	11.2	10.4	9.6	-	-	67.1	8.4
64.2	-	5.2	65.0	63.7	57.7	48.6	44.4	40.6	33.6	28.0	23.2	21.2	19.4	17.8	16.4	15.1	14.0	13.0	12.0	10.2	-	-	-	62.7	10.1
59.6	-	5.0	79.4	73.0	66.1	55.5	50.8	42.1	34.5	28.5	23.7	21.8	20.0	18.5	17.1	15.8	14.6	12.6	-	-	-	-	-	58.2	12.1
55.0	-	4.7	92.0	81.1	74.6	63.3	56.0	44.9	35.8	29.3	24.5	22.6	20.8	19.3	17.8	15.5	-	-	-	-	-	-	-	53.8	14.3
50.4	11.8	4.5	96.0	96.0	96.0	77.5	58.7	45.5	36.4	29.9	25.1	23.1	21.4	18.8	-	-	-	-	-	-	-	-	-	49.3	16.7
45.8	12.6	4.2	96.0	96.0	96.0	81.8	60.2	46.4	37.2	30.7	25.9	22.9	-	-	-	-	-	-	-	-	-	-	-	44.9	19.6
41.2	12.8	4.0	96.0	96.0	96.0	83.9	60.7	46.9	37.7	31.2	23.2	-	-	-	-	-	-	-	-	-	-	-	-	40.5	22.6
36.6	13.0	3.7	96.0	96.0	96.0	84.8	61.6	47.7	38.5	28.7	-	-	-	-	-	-	-	-	-	-	-	-	-	36.0	26.5

M860DX RADIUS & CAPACITY (WITH AUXILIARY HOIST)

Boom Length (m)	Max Rad. for Max WLL (m)	Min Rad. (m)	WLL at Min Rad. (T)	1 FALL																		Max Rad. (m)	WLL at Max Rad. (T)		
				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		
73.4	15.8	6.1	32.0	32.0	32.0	32.0	28.5	26.3	24.4	22.5	20.7	19.8	18.2	16.7	15.4	14.3	13.2	12.2	11.4	10.5	9.7	8.6	7.1	72.0	5.8
68.8	20.0	5.9	32.0	32.0	32.0	32.0	28.4	26.3	24.4	22.1	20.3	18.6	17.2	15.9	14.7	13.7	12.7	11.7	10.4	8.9	7.9	-	-	67.6	7.8
64.2	26.5	5.7	32.0	32.0	32.0	32.0	32.0	30.6	27.3	22.8	20.9	19.3	17.8	16.5	15.4	14.3	13.3	11.7	9.4	-	-	-	-	63.1	9.1
59.6	31.3	5.4	32.0	32.0	32.0	32.0	32.0	32.0	27.7	23.2	21.4	19.7	18.3	17.0	15.5	13.6	11.3	-	-	-	-	-	-	58.7	10.8
55.0	31.9	5.2	32.0	32.0	32.0	32.0	32.0	32.0	28.4	23.9	22.0	20.4	18.9	17.1	14.5	-	-	-	-	-	-	-	-	54.3	13.6
50.4	32.1	4.9	32.0	32.0	32.0	32.0	32.0	32.0	28.8	24.3	22.4	20.8	19.0	-	-	-	-	-	-	-	-	-	-	49.8	16.6
45.8	32.9	4.7	32.0	32.0	32.0	32.0	32.0	32.0	29.5	24.9	22.7	19.0	-	-	-	-	-	-	-	-	-	-	-	45.4	18.7
41.2	33.1	4.5	32.0	32.0	32.0	32.0	32.0	32.0	29.8	23.9	-	-	-	-	-	-	-	-	-	-	-	-	-	40.9	22.3
36.6	33.5	4.2	32.0	32.0	32.0	32.0	32.0	32.0	29.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.5	26.2

Boom Length (m)	Max Rad. for Max WLL (m)	Min Rad. (m)	WLL at Min Rad. (T)	2 FALL																		Max Rad. (m)	WLL at Max Rad. (T)		
				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		
73.4	-	6.1	41.5	41.5	41.5	38.3	33.9	30.9	28.5	25.3	21.3	19.4	17.6	16.0	14.5	12.8	11.7	10.5	9.3	8.3	7.2	6.2	5.3	71.9	4.8
68.8	-	5.9	53.6	52.0	47.4	40.0	35.3	33.8	31.9	26.8	22.1	20.2	18.5	17.0	15.6	14.3	13.1	12.1	11.1	10.3	8.9	-	-	67.4	8.1
64.2	-	5.7	62.8	60.3	54.6	46.0	41.3	39.9	33.8	27.6	22.9	20.9	19.2	17.7	16.3	15.1	14.0	12.9	11.7	9.5	-	-	-	63.0	9.3
59.6	9.3	5.4	64.0	64.0	62.2	52.3	48.3	42.1	34.5	28.1	23.4	21.5	19.7	18.2	16.9	15.5	13.6	11.3	-	-	-	-	-	58.5	11.0
55.0	12.9	5.2	64.0	64.0	64.0	59.3	54.4	44.3	35.3	28.9	24.1	22.2	20.5	18.9	17.1	14.5	-	-	-	-	-	-	-	54.1	14.0
50.4	18.0	4.9	64.0	64.0	64.0	58.3	44.8	35.8	29.4	24.6	22.7	21.0	18.5	-	-	-	-	-	-	-	-	-	-	49.6	16.4
45.8	18.3	4.7	64.0	64.0	64.0	59.2	45.6	36.5	30.1	25.4	22.5	19.1	-	-	-	-	-	-	-	-	-	-	-	45.2	19.0
41.2	18.7	4.5	64.0	64.0	64.0	59.6	46.0	37.0	30.6	23.8	-	-	-	-	-	-	-	-	-	-	-	-	-	40.7	23.5
36.6	19.0	4.2	64.0	64.0	64.0	60.5	46.8	37.7	28.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.3	26.3

Boom Length (m)	Max Rad. for Max WLL (m)	Min Rad. (m)	WLL at Min Rad. (T)	3 FALL																		Max Rad. (m)	WLL at Max Rad. (T)		
				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		
73.4	-	5.7	41.5	41.5	41.5	38.3	33.9	30.9	28.5	25.3	21.3	19.4	17.6	16.0	14.5	12.8	11.7	10.5	9.3	8.3	7.2	6.2	5.3	71.6	4.8
68.8	-	5.4	55.2	53.7	49.0	41.3	36.6	35.2	31.5	26.0	21.1	19.1	17.3	15.7	14.3	13.0	11.9	10.9	10.0	9.2	8.3	-	-	67.1	6.9
64.2	-	5.2	65.0	62.8	56.8	47.7	43.4	40.4	33.4	26.9	22.0	20.0	18.2	16.6	15.2	14.0	12.8	11.8	11.0	9.0	-	-	-	62.7	8.9
59.6	-	5.0	72.7	72.2	65.2	54.6	49.5	40.5	32.9	27.5	22.7	20.6	18.9	17.3	15.9	14.6	13.1	10.8	-	-	-	-	-	58.2	10.4
55.0	-	4.7	86.3	82.7	74.4	62.3	56.0	43.9	34.8	28.3	23.5	21.6	19.8	18.2	16.8	14.9	-	-	-	-	-	-	-	53.8	13.7
50.4	6.5	4.5	96.0	92.1	84.2	71.8	58.3	44.5	35.4	28.9	24.1	22.1	20.4	18.2	-	-	-	-	-	-	-	-	-	49.3	16.1
45.8	9.6	4.2	96.0	96.0	94.9	79.1	59.2	45.4	36.2	29.7	24.9	22.0	-	-	-	-	-	-	-	-	-	-	-	44.9	18.5
41.2	13.0	4.0	96.0	96.0	96.0	82.9	59.7	45.9	36.7	30.2	23.3	-	-	-	-	-	-	-	-	-	-	-	-	40.5	22.7
36.6	13.5	3.7	96.0	96.0	96.0	83.9	60.6	46.7	37.5	27.7	-	-	-	-	-	-	-	-	-	-	-	-	-	36.0	25.6

M860DX RADIUS, CAPACITY & LOAD CHARTS

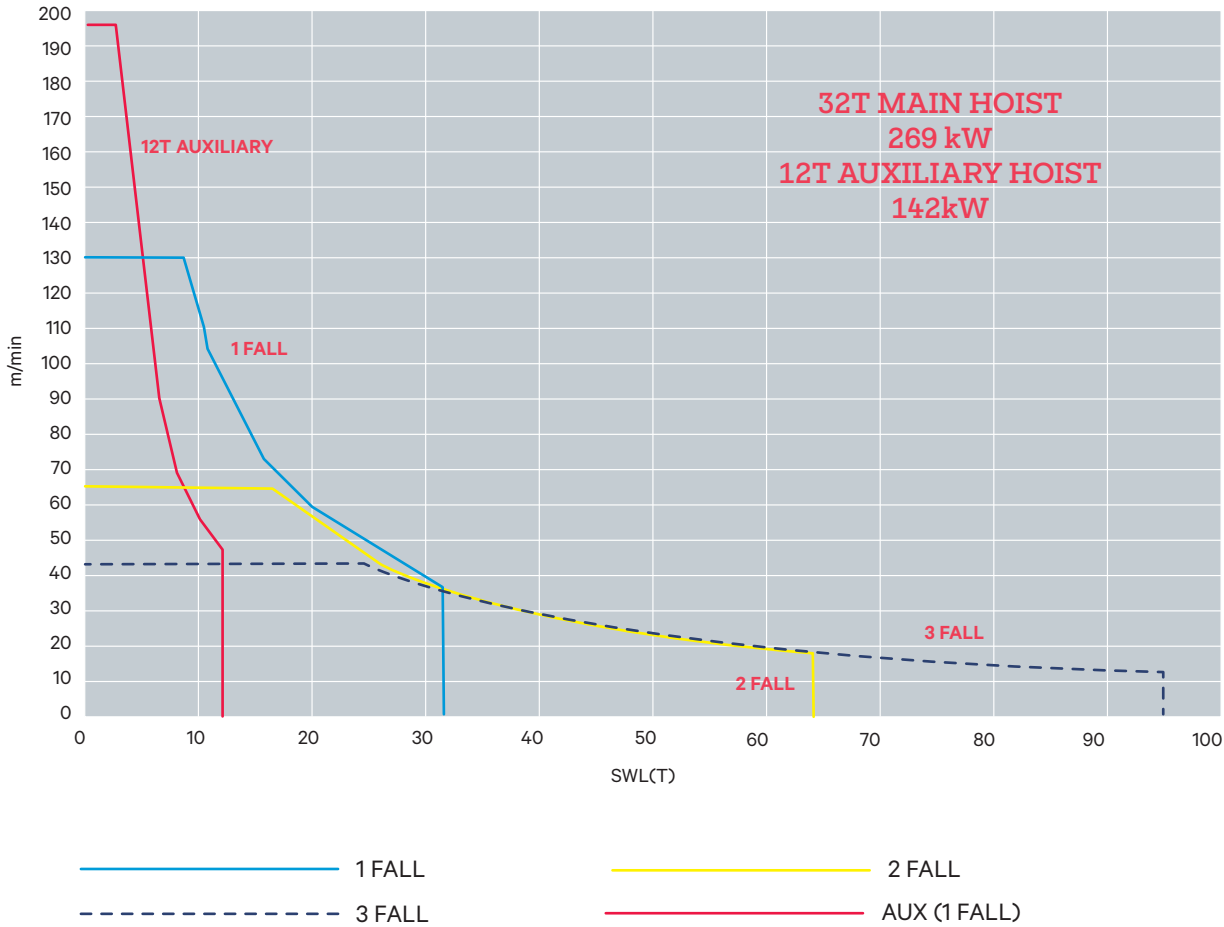
AUXILIARY HOIST

Boom Length (m)	Max Rad. for Max WLL (m)	Min Rad. (m)	AUXILIARY HOIST - 1 FALL								WLL at Min Rad. (T)	Max Rad. (m)	WLL at Max Rad. (T)
			Radius (metres) & Capacity (tonnes)										
			52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0			
73.4	50.0	7.6	12.0	11.6	9.8	9.2	7.4	6.3	5.1	4.7	12.0	74.3	4.7
68.8	52.5	7.3	12.0	12.0	10.4	10.1	9.2	8.1	7.0	-	12.0	69.6	6.6
64.2	52.5	7.0	12.0	12.0	12.0	10.2	9.0	7.9	-	-	12.0	65.4	7.7
59.6	52.5	6.7	12.0	12.0	10.7	9.0	-	-	-	-	12.0	61.0	8.6
55.0	50.0	6.4	12.0	10.5	-	-	-	-	-	-	12.0	56.6	9.5
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



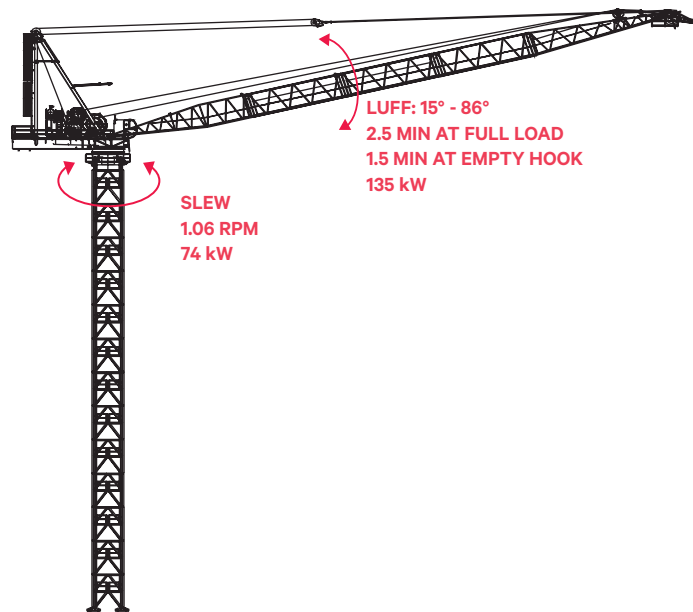
M860DX SPEEDS (METRIC UNITS)

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
2 FALL	32.0	37.1
	16.5	64.7
	26.0	42.8
	35.4	32.0
	44.9	25.5
3 FALL	54.3	21.3
	64.0	18.1
	24.5	43.1
	38.8	28.4
	53.1	21.1
AUX (1 Fall)	67.4	16.8
	81.7	14.0
	96.0	12.0
	2.4	196.6
	6.0	90.1
	8.0	69.1
	9.0	61.9
	10.0	56.1
	12.0	47.2

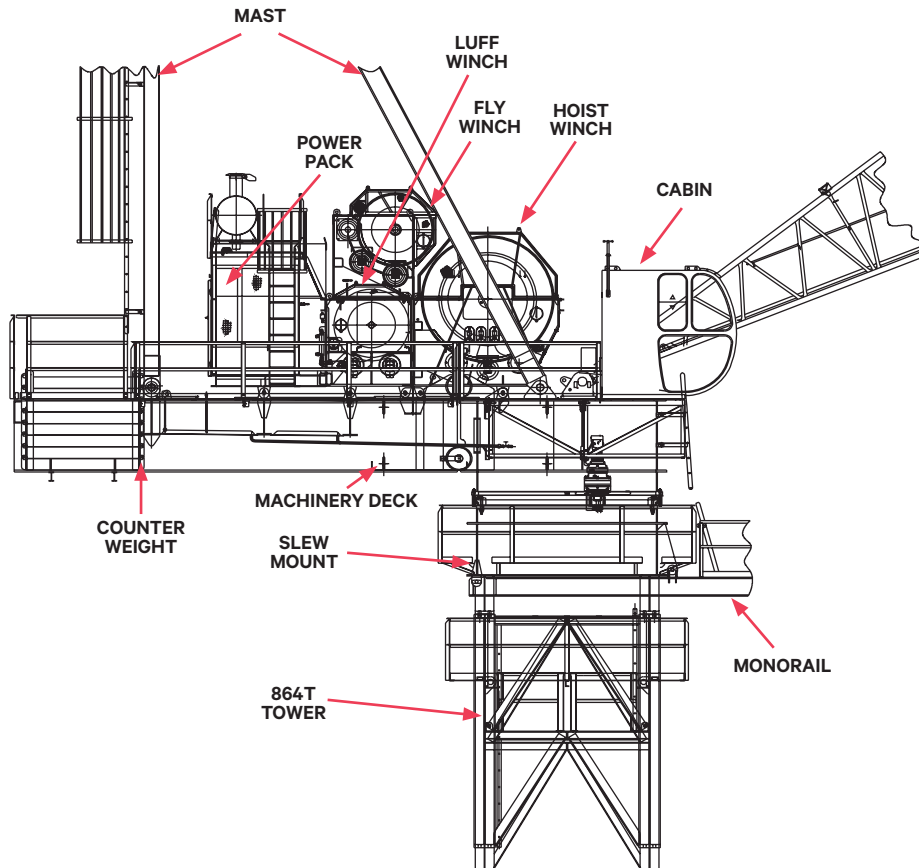
LUFF & SLEW SPEEDS



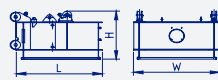
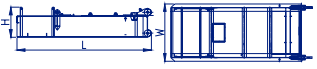
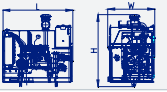
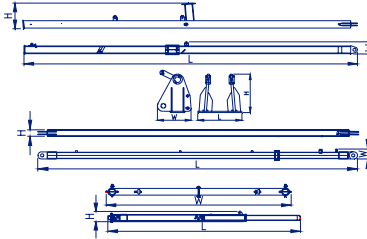
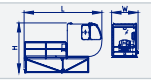


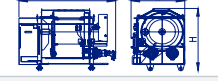



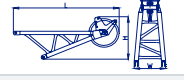
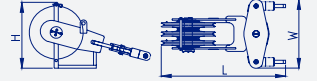
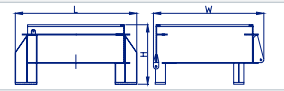

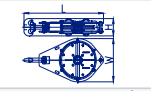
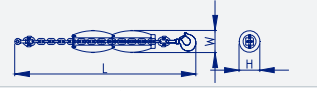
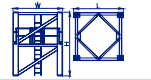
M860DX GENERAL DIMENSIONS

MACHINERY DECK ASSEMBLY

M860DX



M860DX 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	990EA
	1	BUFFER		3740	231	2974	398
		MAST ASSEMBLY (INC. SHEAVES, HEAD PIN, LADDERS,BUFFER AND PLATFORMS)					
5	1	CABIN & PLATFORM ASSEMBLY		4607	3286	1660	2470
6	1	MAIN HOIST WINCH ASSY (EMPTY DRUM) (750m ROPE 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 9.1m (INC. WALKWAYS & PINS)		9360	2814	2815	1985
10	1	BOOM TOP 9.1m (INC. DEFLECTOR, SHEAVES & PINS) (PENDANT & PLATFORM)		9465	2814	1920	3888
11	6	BOOM EXTENSION 9.2m & PENDANT BARS (BRIDLE PLATFORM 462KG)		9316	2991	2814	1877 (2339)
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					
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 Favella Favco reserves the right to alter specifications of its products as appropriate.