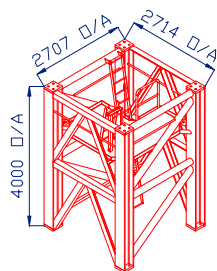
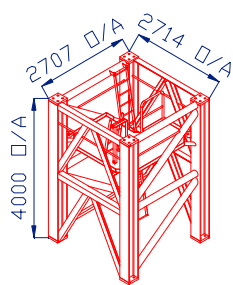


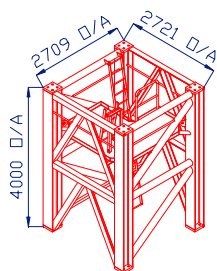
TOWER TYPE  
392



TOWER TYPE  
393



TOWER TYPE  
441



TOWER TYPE  
442

# M600D TOWER CRANE

TYPICAL LOADS	
LOAD (T)	RADIUS (m)
50.0	15.0
25.0	27.5
2.7	71.6
8.8	55.0

## Technical Data Sheet



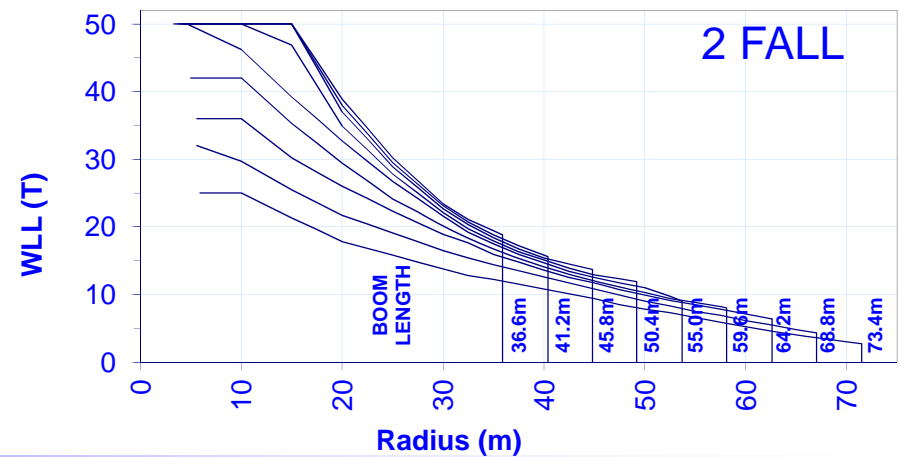
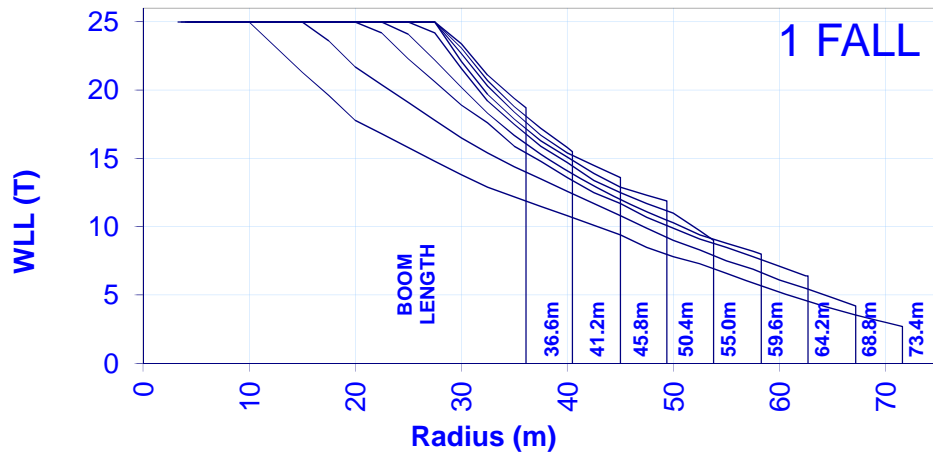
**M600D RADIUS AND CAPACITY**



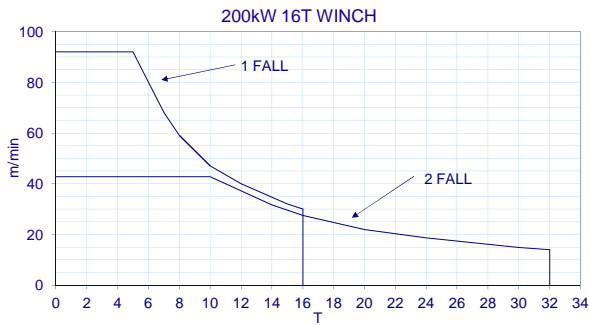
Boom Length (m)	Max Rad. for Max WLL (m)	Min Rad. (m)	WLL at Min Rad. (T)	1 FALL																			Max Rad. (m)	WLL at Max Rad. (T)
				Radius (metres) & Capacity (tonnes)																				
				10.0	15.0	20.0	25.0	30.0	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	70.0		
73.4	10.0	5.8	25.0	25.0	21.3	17.8	15.8	13.8	12.2	11.5	10.8	10.1	9.4	8.5	7.8	7.3	6.6	5.9	5.2	4.6	4.0	3.0	71.6	2.7
68.8	15.0	5.5	25.0	25.0	25.0	21.7	19.1	16.5	14.4	13.5	12.6	11.7	10.8	9.9	9.0	8.3	7.5	6.9	6.1	5.5	4.8	-	67.2	4.2
64.2	20.0	5.2	25.0	25.0	25.0	25.0	22.3	18.9	15.9	14.8	13.6	12.5	11.7	10.7	9.9	9.1	8.5	7.8	7.1	6.4	-	-	62.7	6.4
59.6	22.5	4.9	25.0	25.0	25.0	25.0	24.1	20.2	16.7	15.3	14.1	13.0	12.0	11.1	10.3	9.4	8.8	8.2	-	-	-	-	58.3	8.0
55.0	25.0	4.6	25.0	25.0	25.0	25.0	25.0	21.6	17.5	15.9	14.7	13.4	12.5	11.7	11.0	9.7	-	-	-	-	-	-	53.8	9.0
50.4	27.5	4.2	25.0	25.0	25.0	25.0	25.0	22.1	17.9	16.3	15.1	13.9	12.9	12.3	-	-	-	-	-	-	-	-	49.4	11.9
45.8	27.5	4.0	25.0	25.0	25.0	25.0	25.0	22.7	18.4	16.7	15.4	14.5	13.6	-	-	-	-	-	-	-	-	-	45.0	13.6
41.2	27.5	3.6	25.0	25.0	25.0	25.0	25.0	23.1	18.8	17.2	15.8	-	-	-	-	-	-	-	-	-	-	-	40.5	15.5
36.6	27.5	3.3	25.0	25.0	25.0	25.0	23.4	19.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.1	18.7

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)																				
				10.0	15.0	20.0	25.0	30.0	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	70.0		
73.4	-	5.9	25.0	25.0	21.3	17.8	15.8	13.8	12.2	11.5	10.8	10.1	9.4	8.5	7.8	7.3	6.6	5.9	5.2	4.6	4.0	3.0	71.5	2.7
68.8	-	5.6	32.0	29.7	25.5	21.7	19.1	16.5	14.4	13.5	12.6	11.7	10.8	9.9	9.0	8.3	7.5	6.9	6.1	5.5	4.8	-	67.0	4.3
64.2	-	5.6	36.0	36.0	30.2	26.0	22.3	18.9	15.9	14.8	13.6	12.5	11.7	10.7	9.9	9.1	8.5	7.8	7.1	6.4	-	-	62.6	6.4
59.6	-	5.0	42.0	42.0	35.3	29.4	24.1	20.2	16.7	15.3	14.1	13.0	12.0	11.1	10.3	9.4	8.8	8.2	-	-	-	-	58.1	8.0
55.0	4.6	4.6	50.0	46.2	39.2	32.7	26.7	21.6	17.5	15.9	14.7	13.4	12.5	11.7	11.0	9.7	-	-	-	-	-	-	53.7	9.0
50.4	13.8	4.3	50.0	50.0	46.9	34.9	27.8	22.1	17.9	16.3	15.1	13.9	12.9	12.3	-	-	-	-	-	-	-	-	49.2	11.9
45.8	15.0	4.0	50.0	50.0	50.0	37.0	28.9	22.7	18.4	16.7	15.4	14.5	-	-	-	-	-	-	-	-	-	-	44.8	13.7
41.2	15.5	3.7	50.0	50.0	50.0	38.0	29.5	23.1	18.8	17.2	15.8	-	-	-	-	-	-	-	-	-	-	-	40.4	15.6
36.6	16.0	3.3	50.0	50.0	50.0	38.9	30.2	23.4	19.4	-	-	-	-	-	-	-	-	-	-	-	-	-	35.9	18.8

**LOAD CHARTS**

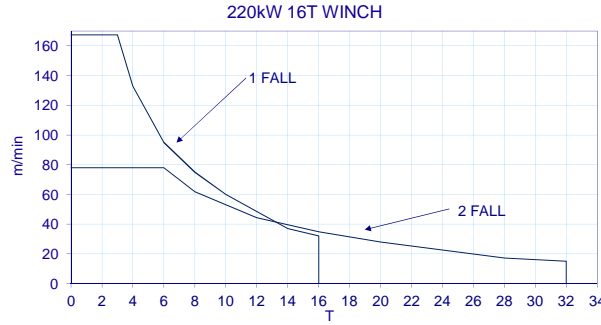


HOIST SPEEDS



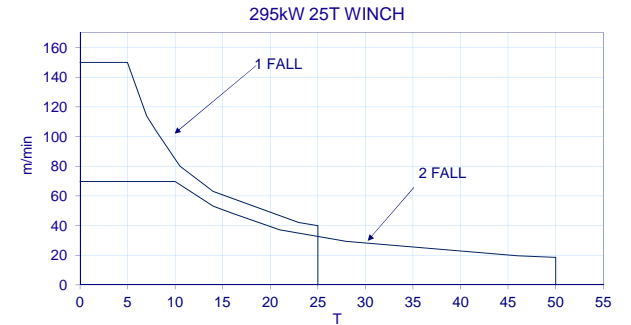
1 FALL	
TONNE	SPEED (m/s)
5	92
7	68
8	59
10	47
12	40
15	32
16	30

2 FALLS	
TONNE	SPEED (m/s)
10	43
14	32
16	27
20	22
24	19
30	15
32	14



1 FALL	
TONNE	SPEED (m/s)
3	167.4
4	133
6	95
8	75
10	60
14	37
16	32

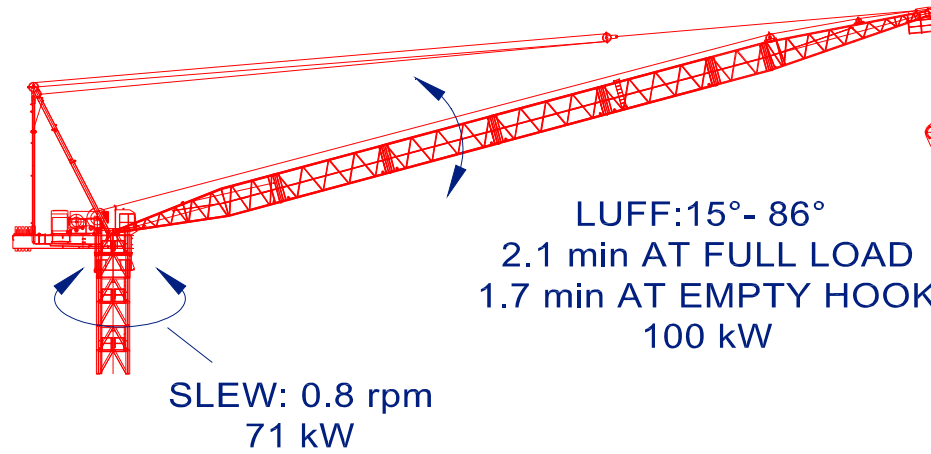
2 FALLS	
TONNE	SPEED (m/s)
6	78
8	62
12	44
16	35
20	28
28	17
32	15



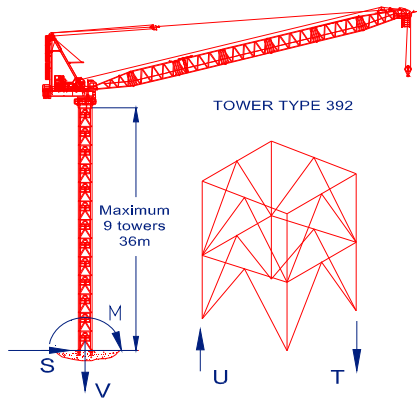
1 FALL	
TONNE	SPEED (m/s)
5	150
7	114
8	104
11	80
14	63
23	42
25	40

2 FALLS	
TONNE	SPEED (m/s)
10	70
14	53
16	48
21	37
28	29
46	20
50	19

LUFF AND SLEW SPEEDS

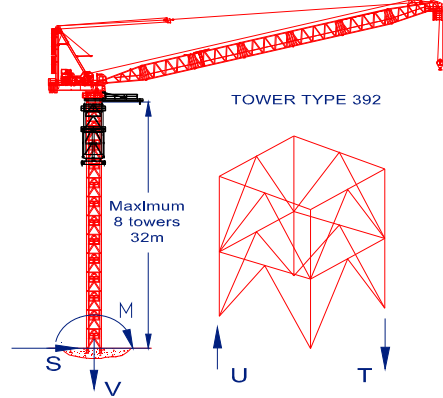


**CRANE FREE-STANDING WITHOUT EXTERNAL CLIMBER**



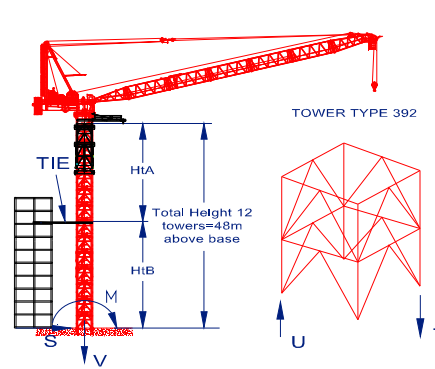
BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	9	9	-
M	864	747	mT
V	194	165	T
S	6	27	T
T	341	294	T
U	244	211	T
Ht <sub>Total</sub>	36	36	m

**CRANE FREE-STANDING WITH EXTERNAL CLIMBER**



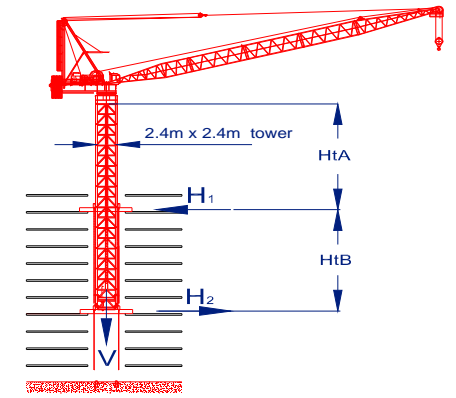
BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	8	8	-
M	856	742	mT
V	205	175	T
S	7	30	T
T	341	295	T
U	238	207	T
Ht <sub>Total</sub>	32	32	m

**WITH CLIMBER- ONE TIE ABOVE THE BASE**



BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	12	12	-
TIE	78	89	T
M	424	345	mT
V	226	196	T
S	70	54	T
T	200	166	T
U	87	67	T
Ht <sub>A</sub>	30	30	m
Ht <sub>B</sub>	18	18	m
Ht <sub>Total</sub>	48	48	m

**INTERNAL CLIMBER ON COLLARS**



BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	9	9	-
V	200	171	T
H <sub>1</sub>	81	70	T
H <sub>2</sub>	74	43	T
Ht <sub>A</sub>	25.1	25.1	m
Ht <sub>B</sub>	10.4	10.4	m

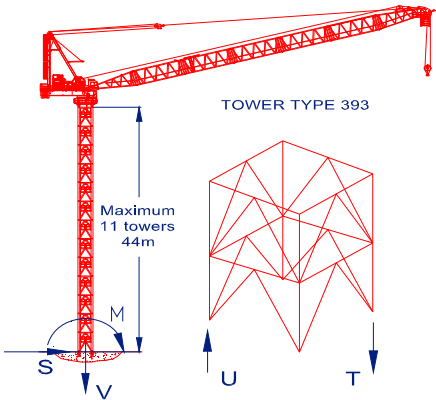
\*:IN SERVICE WIND=20 m/s

†:OUT OF SERVICE WIND= 42 m/s

Notes:

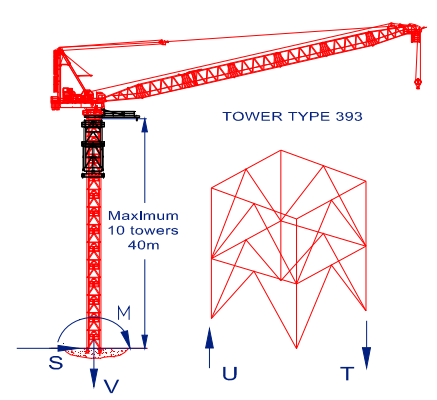
1. Structure is designed using permissible stress method. These loads will vary by change of boom length, height and type of tower, actual site wind conditions, no of falls and change of wind speed.
2. To calculate alternative options for M600D refer to Favelle Favco Design Sheet named "Crane Weight Wind Chart"

**CRANE FREE-STANDING WITHOUT EXTERNAL CLIMBER**



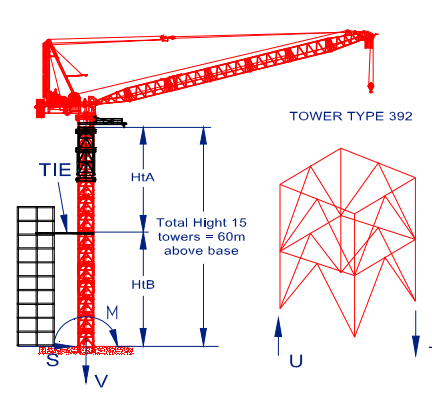
BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	11	11	-
M	936	986	mT
V	208	178	T
S	7	30	T
T	369	378	T
U	265	289	T
Ht <sub>Total</sub>	44	44	m

**CRANE FREE-STANDING WITH EXTERNAL CLIMBER**



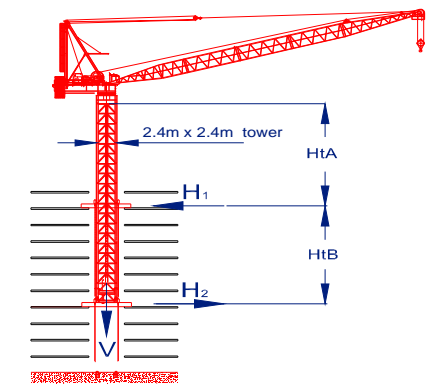
BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	10	10	-
M	933	1001	mT
V	219	190	T
S	8	32	T
T	371	386	T
U	261	291	T
Ht <sub>Total</sub>	40	40	m

**WITH CLIMBER- ONE TIE ABOVE THE BASE**



BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	15	15	-
TIE	59	82	T
M	443	409	mT
V	247	218	T
S	50	43	T
T	212	193	T
U	88	84	T
Ht <sub>A</sub>	34	34	m
Ht <sub>B</sub>	26	26	m
Ht <sub>Total</sub>	60	60	m

**INTERNAL CLIMBER ON COLLARS**



BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	11	11	-
V	214	185	T
H <sub>1</sub>	91	96	T
H <sub>2</sub>	84	67	T
Ht <sub>A</sub>	33.5	33.5	m
Ht <sub>B</sub>	10	10	m

\*:IN SERVICE WIND=20 m/s

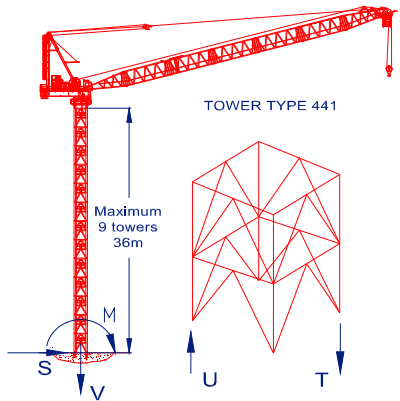
†:OUT OF SERVICE WIND= 42 m/s

Notes:

1. Structure is designed using permissible stress method. These loads will vary by change of boom length, height and type of tower, actual site wind conditions, no of falls and change of wind speed.

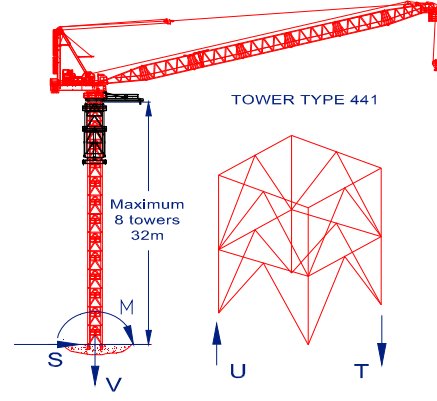
2. To calculate alternative options for M600D refer to Favelle Favco Design Sheet named 'Crane Weight Wind Chart'

**CRANE FREE-STANDING WITHOUT EXTERNAL CLIMBER**



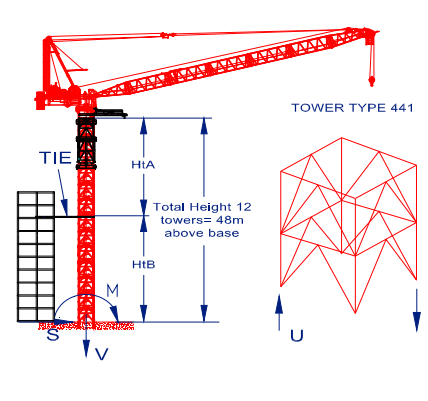
BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	9	9	-
M	859	749	mT
V	189	159	T
S	7	27	T
T	300	261	T
U	206	181	T
Ht <sub>Total</sub>	36	36	m

**CRANE FREE-STANDING WITH EXTERNAL CLIMBER**



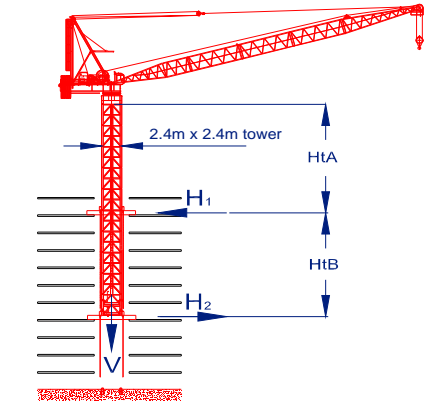
BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	8	8	-
M	852	746	mT
V	198	169	T
S	7	30	T
T	300	262	T
U	201	178	T
Ht <sub>Total</sub>	32	32	m

**WITH CLIMBER- ONE TIE ABOVE THE BASE**



BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	12	12	-
TIE	78	90	T
M	421	346	mT
V	217	187	T
S	70	55	T
T	178	149	T
U	70	55	T
Ht <sub>A</sub>	30	30	m
Ht <sub>B</sub>	18	18	m
Ht <sub>Total</sub>	48	48	m

**INTERNAL CLIMBER ON COLLARS**



BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	9	9	-
V	195	166	T
H <sub>1</sub>	74	65	T
H <sub>2</sub>	68	38	T
Ht <sub>A</sub>	24.2	24.2	m
Ht <sub>B</sub>	11.3	11.3	m

\*:IN SERVICE WIND=20 m/s

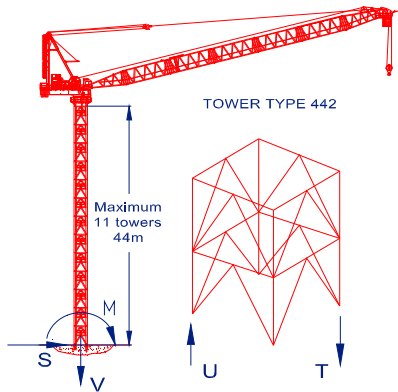
†:OUT OF SERVICE WIND= 42 m/s

Notes:

1. Structure is designed using permissible stress method. These loads will vary by change of boom length, height and type of tower, actual site wind conditions, no of falls and change of wind speed.

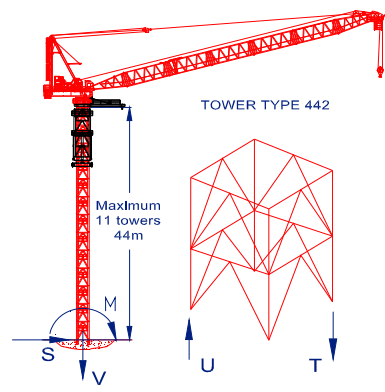
2. To calculate alternative options for M600D refer to Favelle Favco Design Sheet named "Crane Weight Wind Chart"

**CRANE FREE-STANDING WITHOUT EXTERNAL CLIMBER**



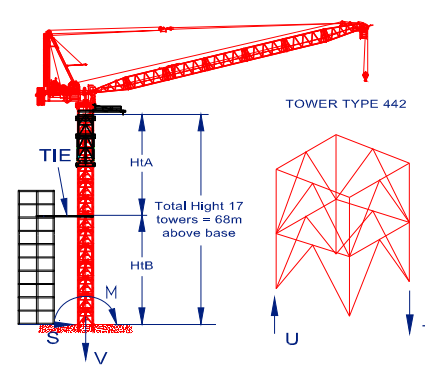
BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	11	11	-
M	928	989	mT
V	201	172	T
S	7	30	T
T	324	334	T
U	223	248	T
Ht <sub>Total</sub>	44	44	m

**CRANE FREE-STANDING WITH EXTERNAL CLIMBER**



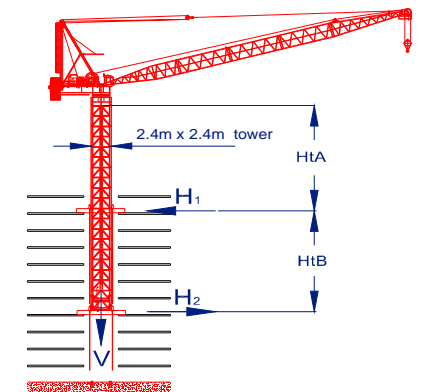
BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	11	11	-
M	971	1146	mT
V	216	187	T
S	8	34	T
T	340	384	T
U	232	291	T
Ht <sub>Total</sub>	44	44	m

**WITH CLIMBER- ONE TIE ABOVE THE BASE**



BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	17	17	-
TIE	55	85	T
M	462	478	mT
V	246	217	T
S	45	43	T
T	198	195	T
U	75	87	T
Ht <sub>A</sub>	38	38	m
Ht <sub>B</sub>	30	30	m
Ht <sub>Total</sub>	68	68	m

**INTERNAL CLIMBER ON COLLARS**



BUILDING REACTION			
Design Load	I/S*	O/S†	Unit
NO. of Towers	12	12	-
V	213	183	T
H <sub>1</sub>	83	97	T
H <sub>2</sub>	76	65	T
Ht <sub>A</sub>	36.2	36.2	m
Ht <sub>B</sub>	11.3	11.3	m

\*:IN SERVICE WIND=20 m/s

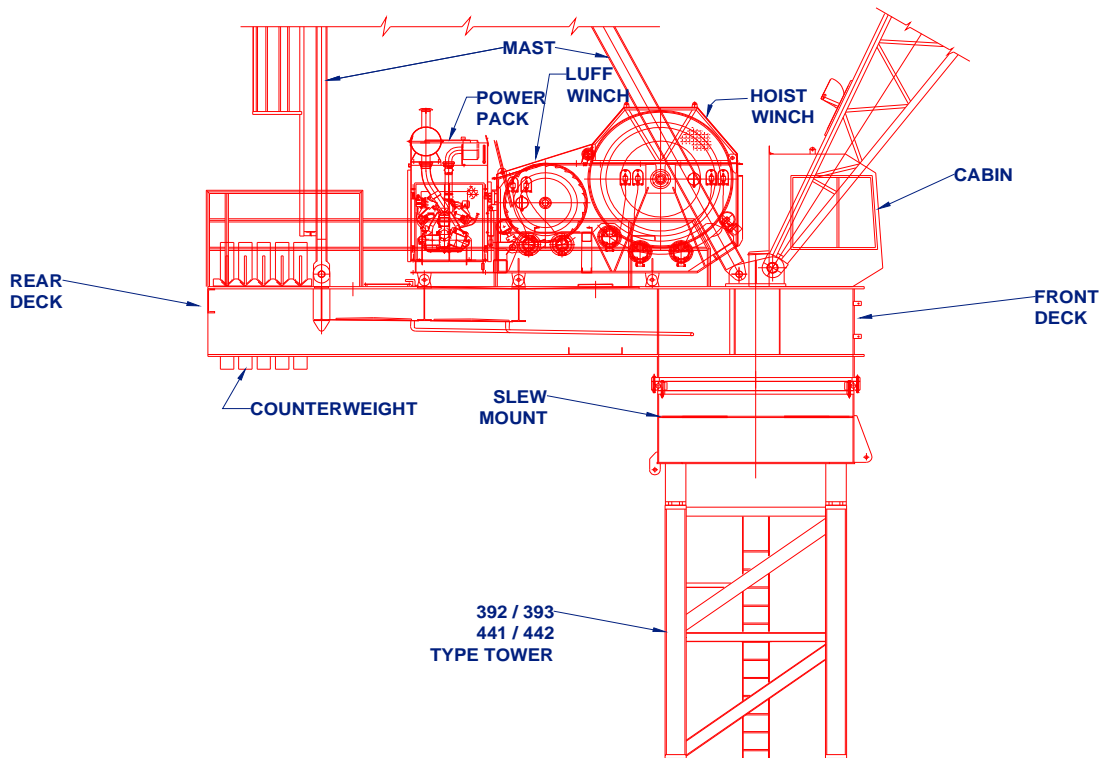
†:OUT OF SERVICE WIND= 42 m/s

Notes:

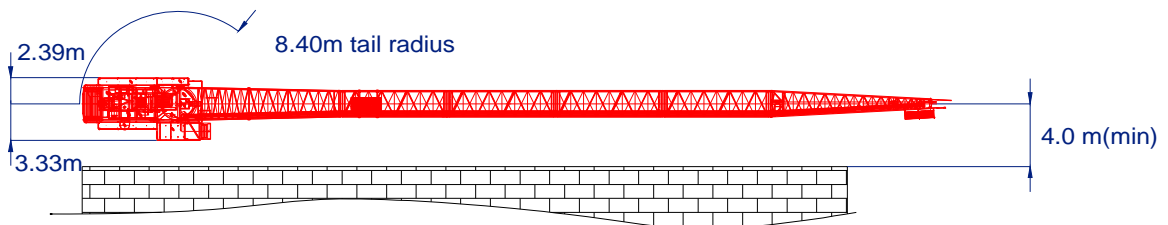
1. Structure is designed using permissible stress method. These loads will vary by change of boom length, height and type of tower, actual site wind conditions, no of falls and change of wind speed.

2. To calculate alternative options for M600D refer to Favelle Favco Design Sheet named "Crane Weight Wind Chart"

MACHINERY DECK ASSEMBLY



EXTERNAL CLIMBING  
INSTALLATION CLEARANCE

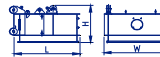
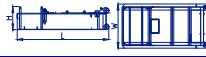

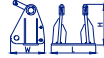



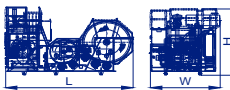

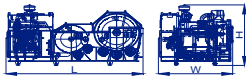


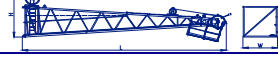

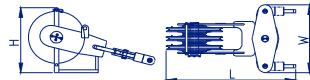

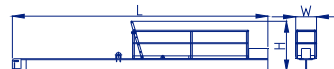
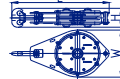
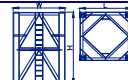
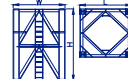




OUT OF SERVICE CONFIGURATION

Boom Length (m)	RECCOMENDED OUT OF SERVICE PARKED RADIUS	
	Radius (m)	Angle (°)
73.4	19.8	74.6
68.8	20.8	72.6
64.2	22.0	70.2
59.6	23.4	67.1
55.0	24.9	63.4
50.4	25.6	59.8
45.8	22.9	60.4
41.2	20.0	61.4
36.6	17.2	62.4

\*:MAX OUT OF SERVICE WIND SPEED = 42 m/s



ITEM	QTY	DESCRIPTION	LENGTH L (mm)	HEIGHT H (mm)	WIDTH W (mm)	WEIGHT PER ITEM (kg)
1	1	SPLIT DECK-FRONT (INCL. SLEW DRIVE, PINS, PLATFORMS & HANDRAILS)	 3615	1819	3340	7767
2	1	SPLIT DECK-REAR (INCL. PLATFORMS & HANDRAILS)	 6525	1430	3340	8155
3	2	MAST FRONT LEG	 12685	490	307	1527EA
	1	MAST HEAD	 1118	1170	910	865
	2	MAST BACK LEG	 11520	377	200	402EA
	1	BUFFER	 3596	203	2835	388
		MAST ASSEMBLY (INC. SHEAVES, HEAD PIN, LADDERS,BUFFER AND PLATFORMS)				7724
4	1	CABIN & PLATFORM ASSEMBLY	 4639	2278	2180	1610
5	1	25T POWER PACK HOIST AND LUFF ASSY (NO ROPE) (INCL 1125L OF OIL)	 5709	3851	3130	15334 (16270)
6	1	25T DRUM (NO ROPE)	 1560	2170		4937
7	1	16T POWER PACK HOIST AND LUFF ASSY (NO ROPE) (INCL 750L OF OIL)	 5085	2704	2753	12920 (13544)
8	1	16T DRUM (NO ROPE)	 1468	1710		3522
9	1	BOOM BOTTOM 13.7m (INC. WALKWAY&PINS)	 13913	2414	3052	2493
10	1	BOOM TOP 13.7m (INC. DEFLECTOR, SHEAVES & PINS) (PENDANT & PLATFORM)	 14455	3805	2416	2949
11	5	BOOM EXTENSION 9.2m (BRIDLE PLATFORM 203 kg)	 9316	2590	2406	1508 (1719)
12	1	BRIDLE	 1750	1095	1160	660
13	1	SLEW MOUNT (INCL. PLATFORMS 563Kg)	 3502	1817	3309	6628
	1	SLEW RING (INCL. BOLTS)	3120 DIA.	230		2348
		Total				8976
14	1	EXTERNAL CLIMBER	14343	4435	4435	17680
15	1	MONORAIL	 7430	1271	600	1839
16	7	COUNTER WEIGHT	3100	2466	200	7736
17	1	HOOK - 2/1 FALL (50/25T)	 2505	505	1242	1102
18	1	TOWER SECTION 392 (INC.LADDER,HAND RAIL,PLATFORM)	 2400	4000	2411	5136
18	1	TOWER SECTION 393 (INC.LADDER,HAND RAIL,PLATFORM)	 2401	4000	2417	5089
19	1	TOWER SECTION 441 (INC.LADDER,HAND RAIL,PLATFORM)	 2707	4000	2714	4680
20	1	TOWER SECTION 442 (INC.LADDER,HAND RAIL,PLATFORM)	 2709	4000	2721	5152
21	1	HOIST ROPE 25T (36mm) @ 6.5kg/m	400m			2704
22	1	HOIST ROPE 16T (32mm) @ 5.01kg/m	400m			2084
23	1	LUFF ROPE (32mm) @ 4.9kg/m	150m			764
24	1	PENDANT ROPE (44mm) @ 9.4kg/m	108m			1056