

Mast climber

POWERSTON

MC 450

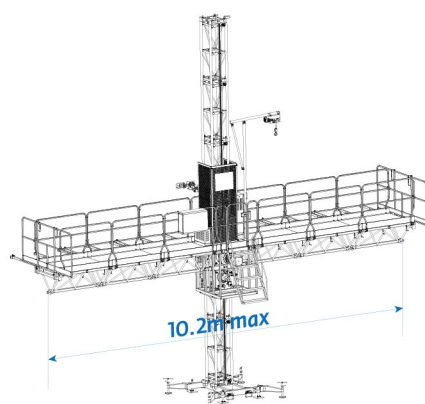
According to the following directive and standards

2006/42/CE Directive on Machinery

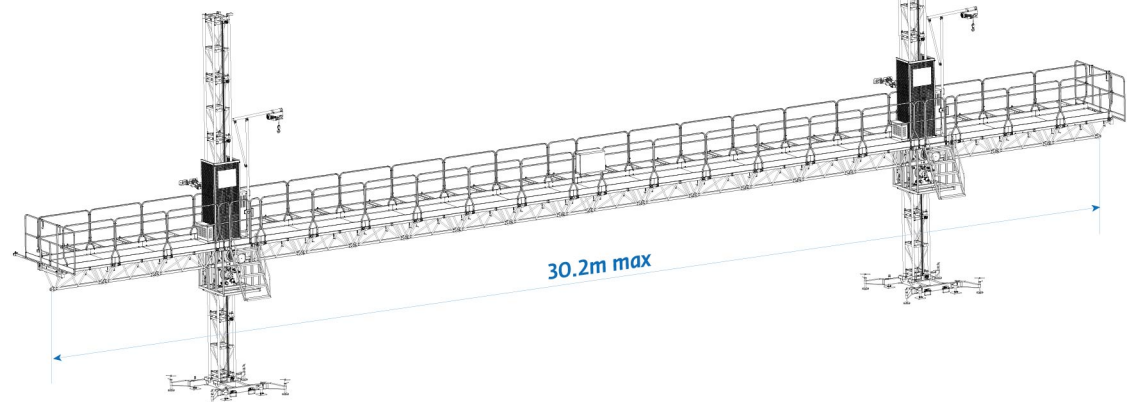
2006/95/CE Low Voltage Directive

2004/108/CE Electromagnetic Compatibility Directive

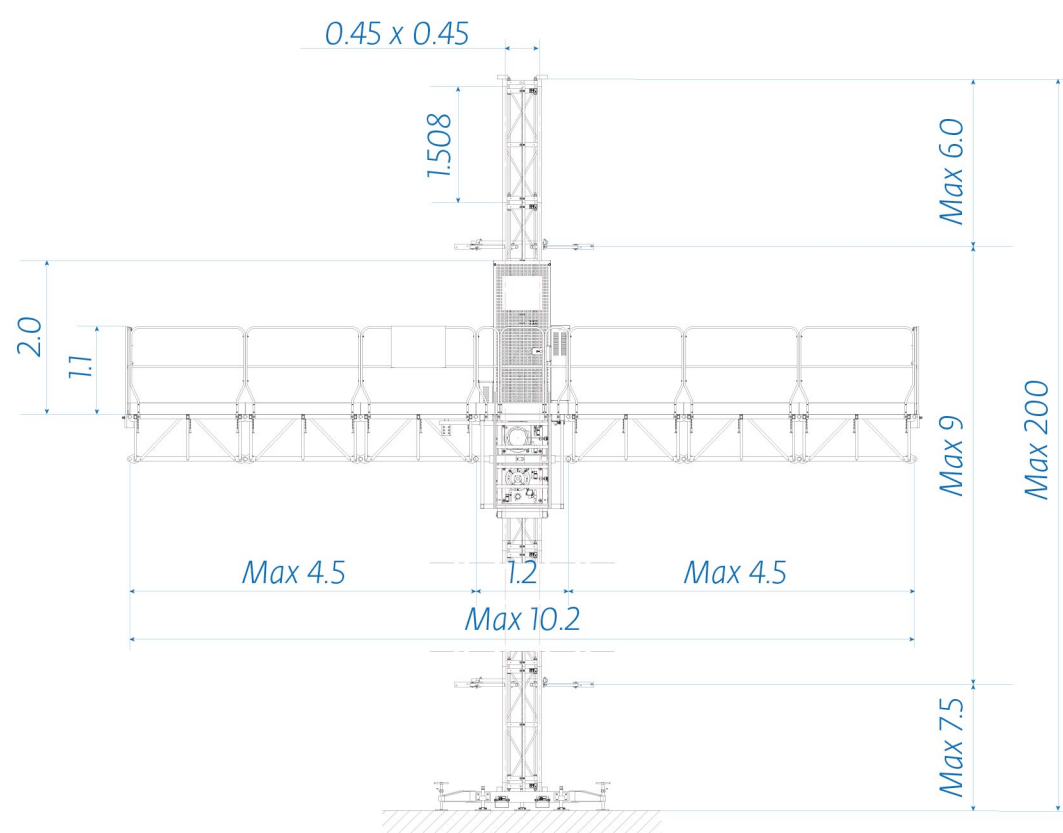
EN 1495 Mast Climbing Work Platforms



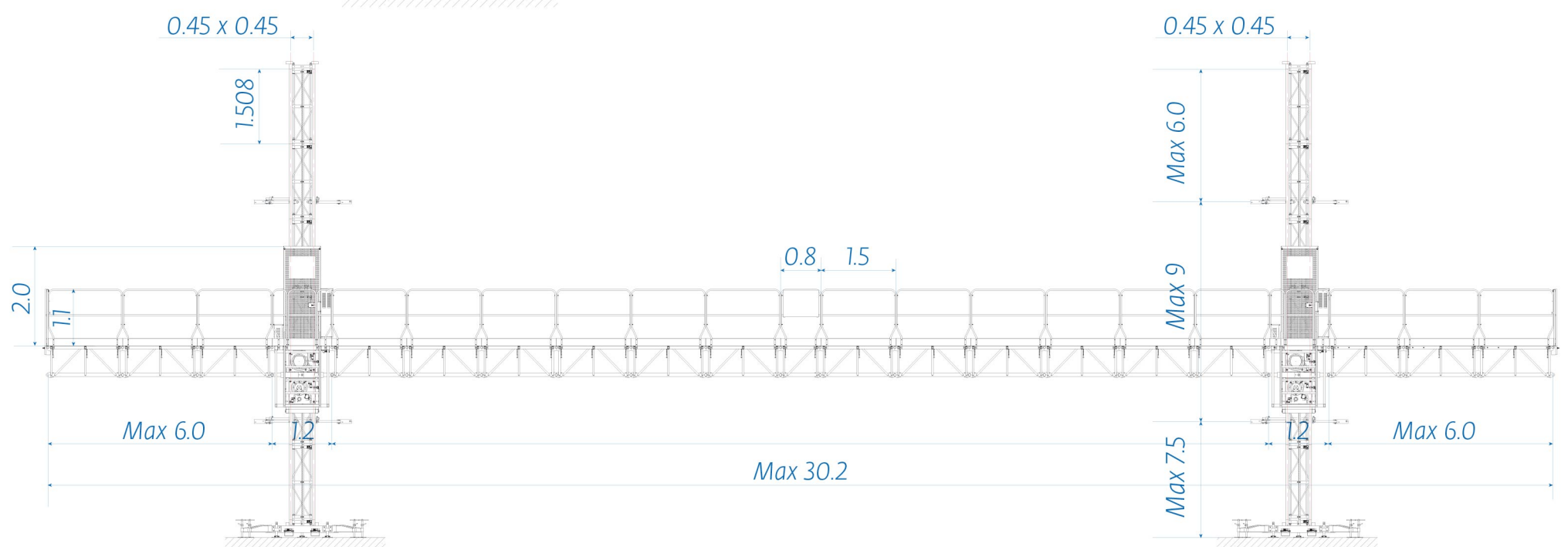
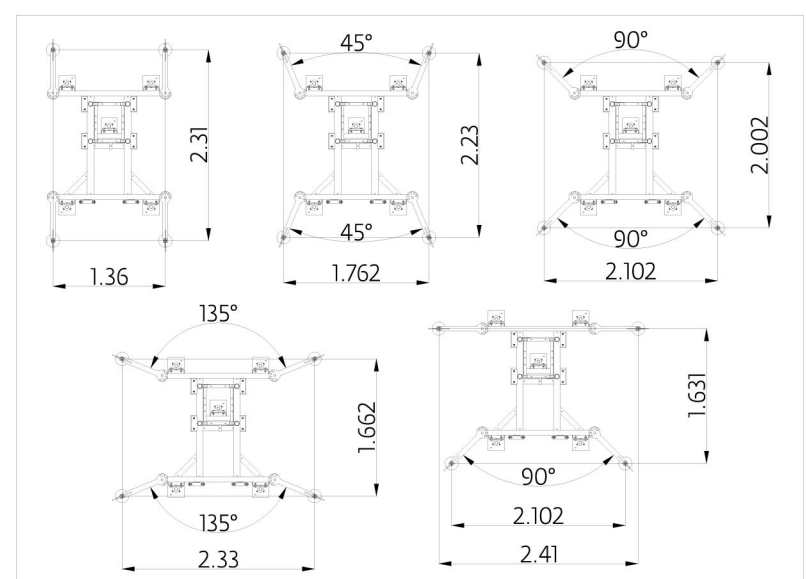
MC 450 single



MC 450 twin



BASE FRAME CONFIGURATIONS



POWERSTON

www.powerston.com

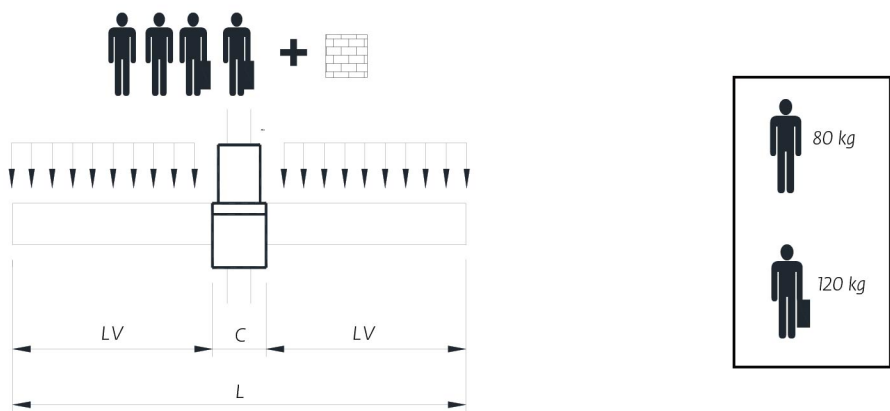
This document is the property of Wuxi Powerston Technology Co.,Ltd. The partial or total reproduction or copying in any way is strictly prohibited without the previous consent of the company.

Mast climber

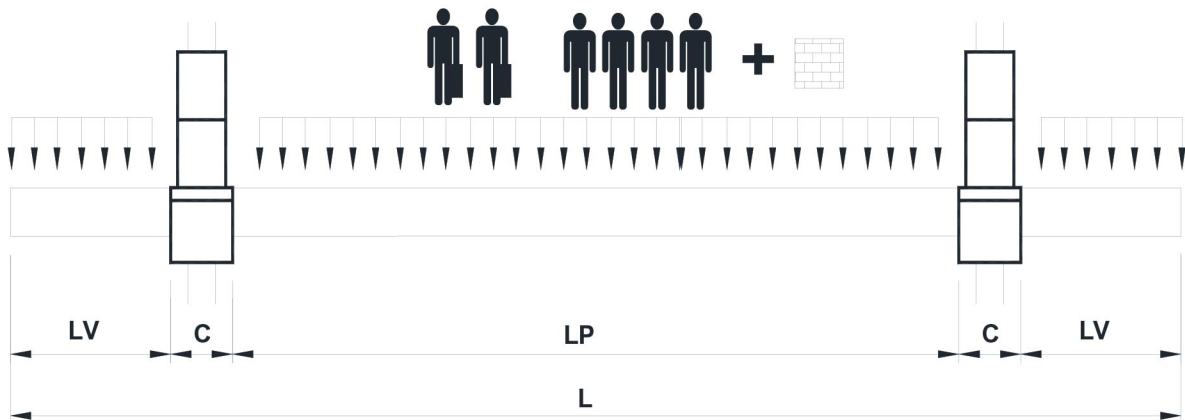
CONFIGURATION SIZE AND LOAD

POWERSTON

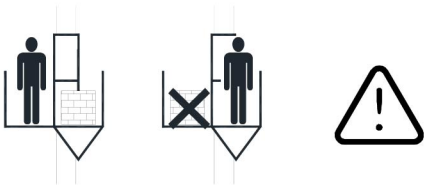
MC 450



Mast Climber	Single Mast							Max. load capacity
L (m)	LV (m)			C (m)	LV (m)			   (kg)
2.8			0.8	1.2	0.8			2500
4.2			1.5	1.2	1.5			2320
5.8		0.8	1.5	1.2	1.5	0.8		2115
7.2		1.5	1.5	1.2	1.5	1.5		1910
8.8	0.8	1.5	1.5	1.2	1.5	1.5	0.8	1705
10.2	1.5	1.5	1.5	1.2	1.5	1.5	1.5	1500



LP	C	L   									
		1.5 (LV)		1.5 + 0.8 (LV)		1.5 + 1.5 (LV)		1.5 + 1.5 + 0.8 (LV)		1.5 + 1.5 + 1.5 (LV)	
		L / m	kg	L / m	kg	L / m	kg	L / m	kg	L / m	kg
3 × 1.5	2.4	9.9	4270	11.5	4152	12.9	4050	14.5	3932	15.9	3830
3 × 1.5 + 0.8		10.7	4211	12.3	4093	13.7	3991	15.3	3873	16.7	3771
4 × 1.5		11.4	4160	13	4042	14.4	3940	16	3822	17.4	3720
4 × 1.5 + 0.8		12.2	4101	13.8	3983	15.2	3881	16.8	3763	18.2	3661
5 × 1.5		12.9	4050	14.5	3932	15.9	3830	17.5	3712	19.3	3610
5 × 1.5 + 0.8		13.7	3991	15.3	3873	16.7	3771	18.3	3653	19.7	3551
6 × 1.5		14.4	3940	16	3822	17.4	3720	19	3602	20.4	3500
6 × 1.5 + 0.8		15.2	3881	16.8	3763	18.2	3661	20.2	3543	21.2	3441
7 × 1.5		15.9	3830	17.5	3712	18.9	3610	20.5	3492	21.9	3040
7 × 1.5 + 0.8		16.7	3771	18.3	3653	19.7	3551	21.3	3433	22.7	2981
8 × 1.5		17.4	3720	19	3602	20.4	3500	22	3082	23.4	2930
8 × 1.5 + 0.8		18.2	3661	19.8	3543	21.2	3441	23.2	3023	24.2	2871
9 × 1.5		18.9	3610	20.5	3492	21.9	3390	23.5	2922	24.9	2770
9 × 1.5 + 0.8		19.7	3551	21.3	3433	22.7	3331	24.7	2863	25.7	2711
10 × 1.5		20.4	3500	22	3382	23.4	3280	25	2812	26.4	2660
10 × 1.5 + 0.8		21.2	3441	22.8	3323	24.2	3221	25.8	2703	27.2	2601
11 × 1.5		21.9	3390	23.5	3272	24.9	3170	26.5	2652	27.9	2450
11 × 1.5 + 0.8		22.7	3331	24.3	3213	25.7	3111	27.3	2593	28.7	2391
12 × 1.5		23.4	3280	25	3162	26.4	2660	28	2442	29.4	2340
12 × 1.5 + 0.8		24.2	3221	25.8	3103	27.2	2601	28.8	2383	30.2	2280



The load must be evenly distributed on the platform deck and never laid on the extension area.

Mast climber

TECHNICAL DATA

POWERSTON

MC 450

	SINGLE MAST	TWIN MAST
Maximum platform length	10.2 m	30.2 m
Minimum platform length	2.8 m	4.8 m
Central deck maximum length		18.8 m
platform width	1.2 m	
Maximum telescopic extension width	1 m / 1,5 m / 2 m (*)	
Maximum lifting height(freestanding)	6 m	
Maximum lifting height(anchored)	200m (*)	
Maximum distance between ties	9 m	
Lifting speed	6.4 m/min / 8.8 m/min	
Deck module length	1,5 m / 0,8m	
Maximum number of persons	4	6
Maximum allowed wind speed during ser-vice.Ancored	55 km/h	
Mast section / Rack Modulus	1,508 m / 6	
Rated power drive units	1*5 kw / 2*4kw(**)	2*5 kw / 2*2*4kw(**)
Input power range 50Hz or 60Hz	380 V	
Power Supply	10kVA / 14kVA	10kVA / 22.5kVA

(*) For higher values please contact POWERSTON

(**) Optional

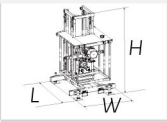
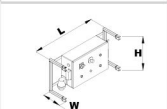
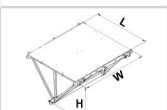
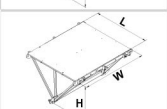
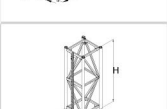
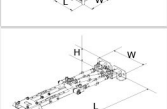
SAFETY DEVICES	OPTIONAL
One motor reducer links two gears output to mesh with the rack	Metalic floor extensions
Each motor reducer contains an electric brake	Booms and hoist assembly
Overspeed emergency brakes	Cable storage bucket
Automatic horizontal regulation system	Right-angle corner kit
Emergency manual descending	Obstacle detection kit
Access doors with closed limit switch	Power unit floor extension
Mast protector	Reduced space base
Limit switches for maximum and minimun height	Floating mechanical buffer stop (lower)
Rack detector limit switch	Debris safety net
Shock absorbers at the base and at the top of the mast	Anemometer
Manoeuvre acoustic signal	Emergency anti-fall braking system
Full safety tractor group with specific design to provide an optimal power transfer	Overload detector
Mechanical stop at the top of the last mast	Glide rail extension
Control voltage 24V AC	Expansion Double-Decker
Non sliding floor	Top Crane Extension

Mast climber

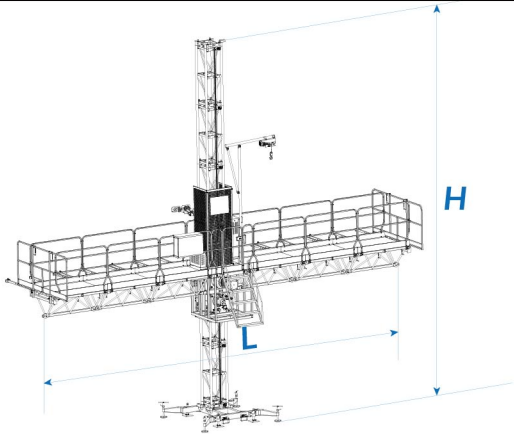
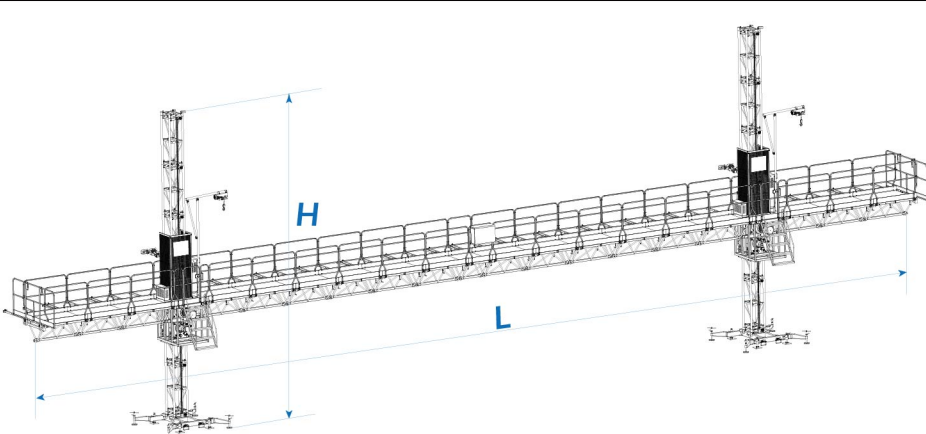
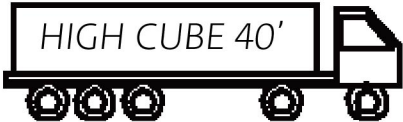
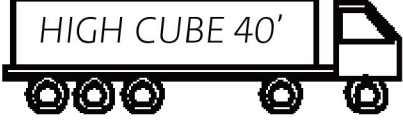
PACKING LIST

POWERSTON

MC 450

DESCRIPTION		L (mm)	W (mm)	H (mm)	W (kg)
Drive unit		1700	1460	2250	1156
Access ladder		750	1030	1500	37.4
Telescopic lateral guard-rail		2400	116.5	1313.5	38.2
Electric control cupboard		960	275	510	36
1.5 m deck module		1200	1500	640	125
0,8 m deck module		1200	800	640	64.5
1,5m Guard-rail		1498	45	1200	11.5
0,8 Guard-rail		798	45	1200	7.9
450 Mast section		450	450	1508	92
Mast tie		Max 3200	Max 1150	110	75

TRANSPORT CONFIGURATION

	
1x  L=10.2m H=120m	1x  L=30.2m H=40m

Transport by container