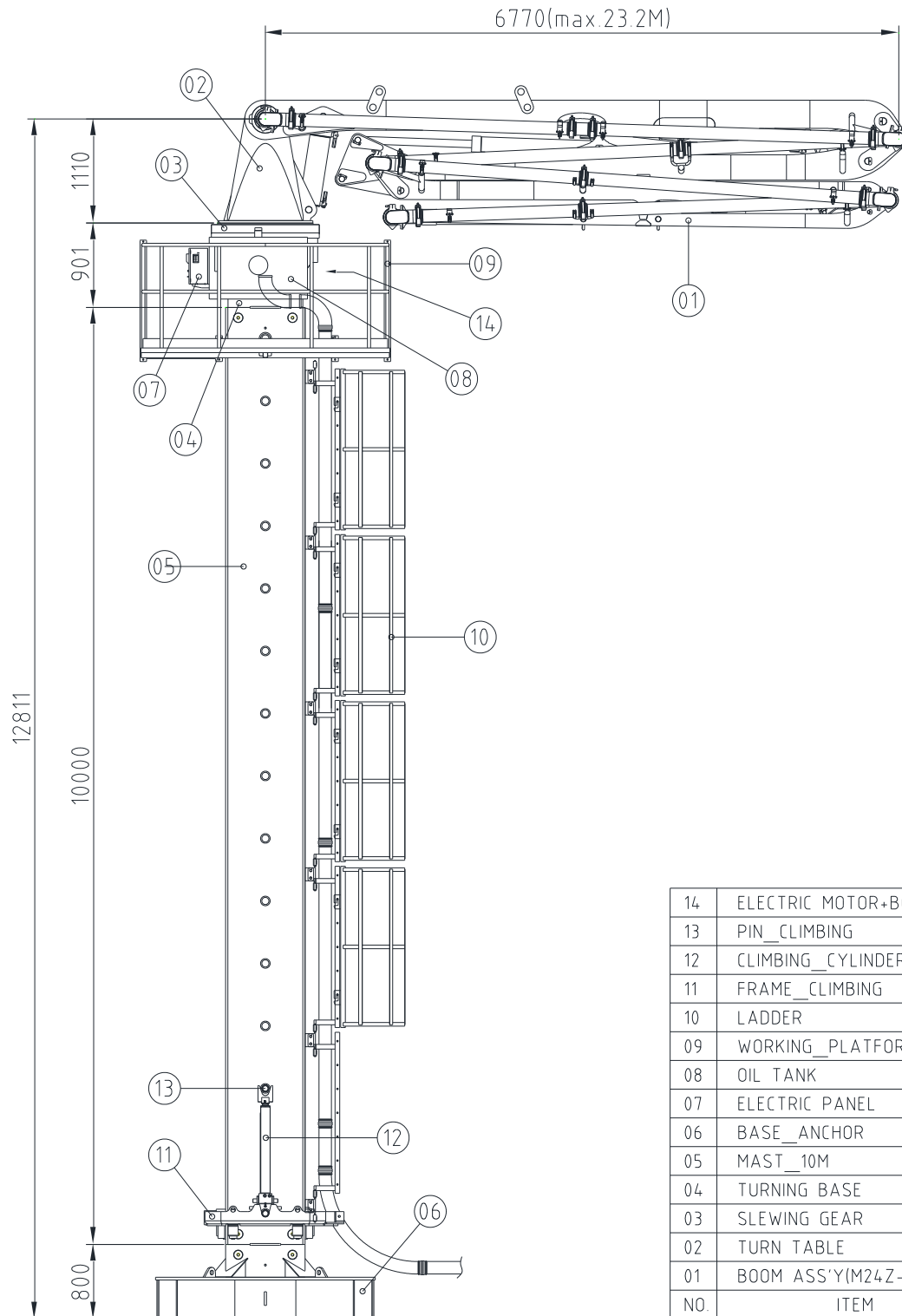


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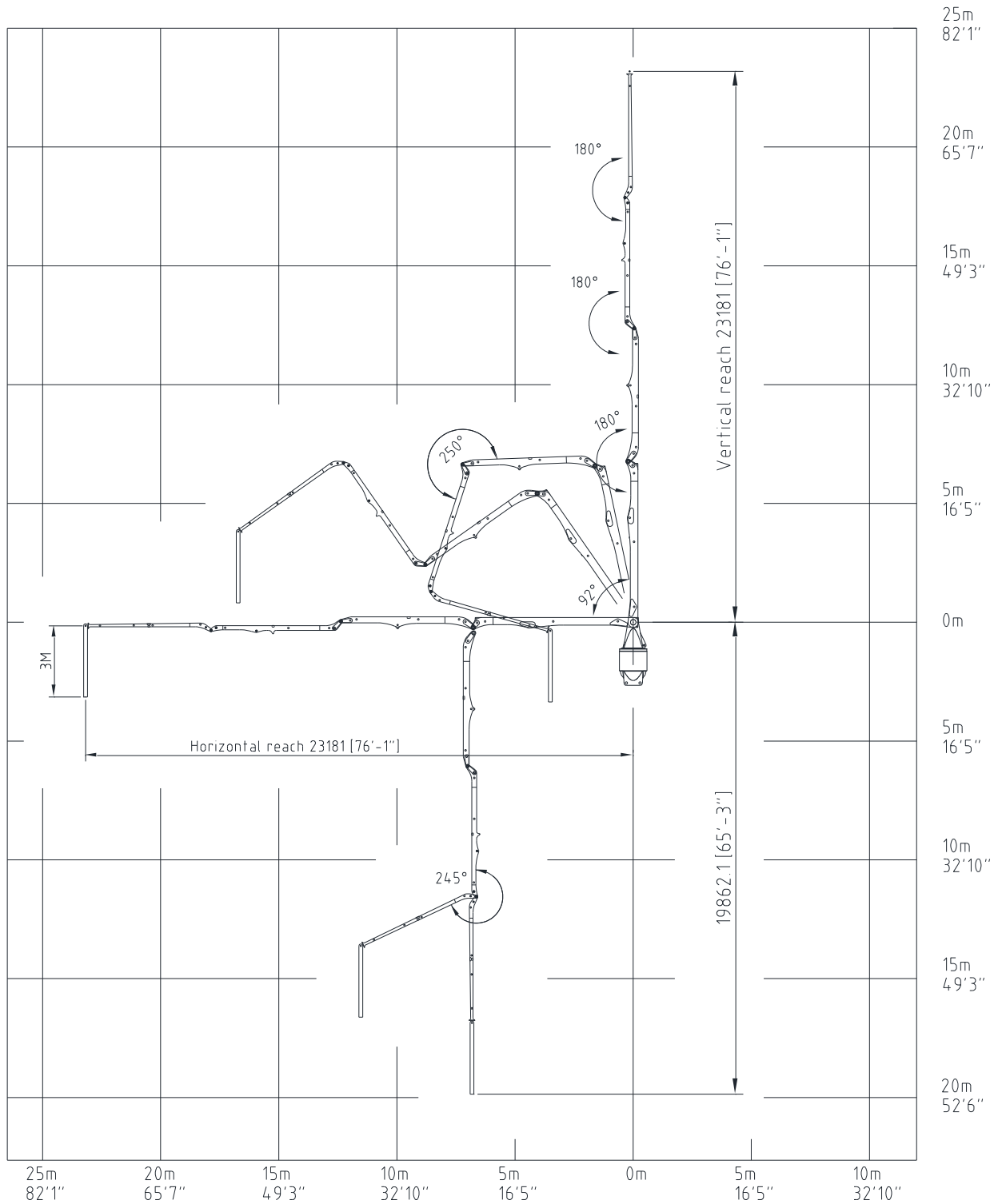
Placing Boom System Layout



14	ELECTRIC MOTOR+BOOM PUMP
13	PIN_CLIMBING
12	CLIMBING_CYLINDER
11	FRAME_CLIMBING
10	LADDER
09	WORKING_PLATFORM
08	OIL TANK
07	ELECTRIC PANEL
06	BASE_ANCHOR
05	MAST_10M
04	TURNING BASE
03	SLEWING GEAR
02	TURN TABLE
01	BOOM ASS'Y(M24Z-4SEC)
NO.	ITEM

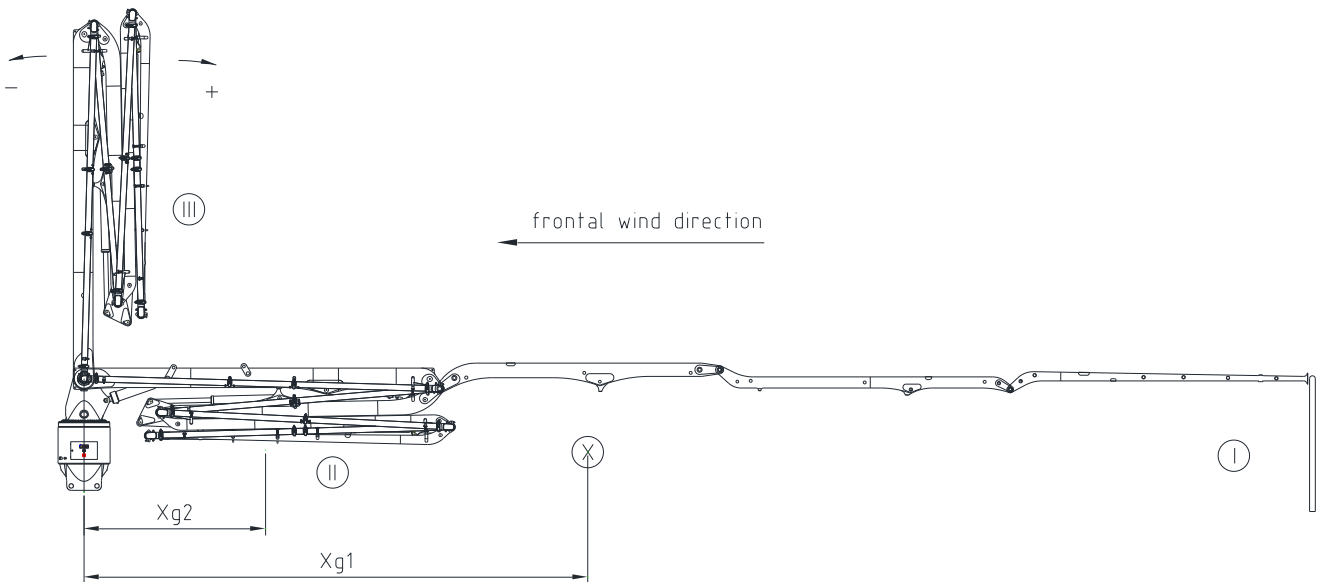
KB-M24Z

Placing Boom System Working diagram



KB-M24Z

Placing Boom System Technical data



MOMENT [KNm]

Position of boom	Moment(boom side) → +
I with concrete in pipe-line	→ 600 KNm
II without concrete in pipe-line	→ 200 KNm
III without concrete in pipe-line	→ 32 KNm

Total weight [kg]– boom, table, base(with oil), motor, pump, (+concrete)

In operation	7,300 kg	Out of operation	6,500 kg
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Wind-exposed areas [m²]

Position of boom	Wind-exposed area	Center of gravity distance	remark
I	11.3 m ² boom-side	Xg1 = 9.7 m	Wind surface perpendicular to frontal wind
II	11.3 m ² boom-side	Xg2 = 3.8 m	
I/II	2.3 m ²	Ys = 1.4 m	Exposed area in frontal wind
III	10 m ²	Ys = 4.2 m	

Comment : lateral thrust due to wind is calculated according to DIN 1055

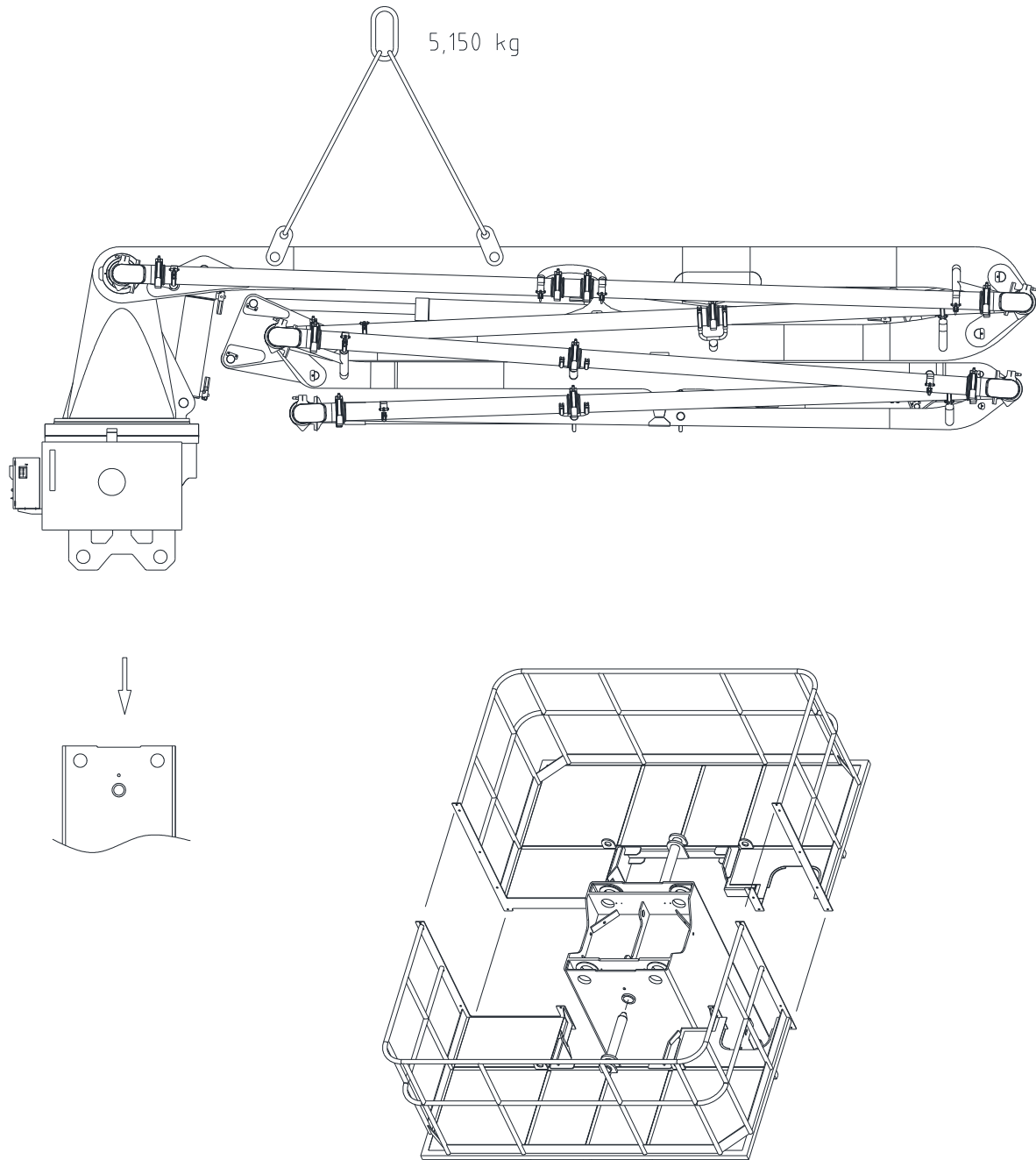
Absolute altitude [m]	0~8	8~20	20~100	Above 100
W [N/m ²]	800	1280	1760	2080

$$F = W \times A$$

F : wind force	W : lateral thrust due to wind	A : wind surface area
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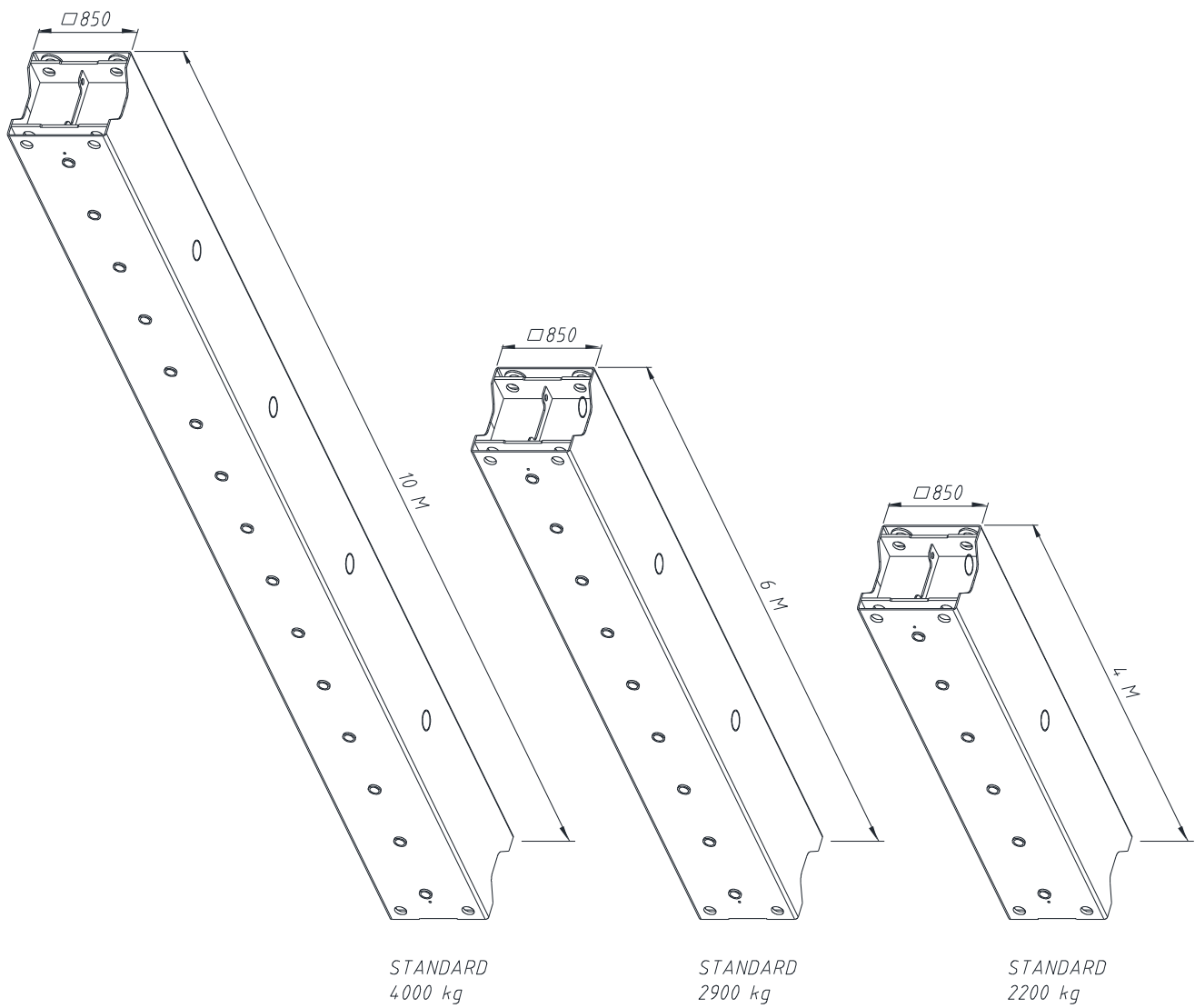
KB-M24Z

PLACING BOOM SYSTEM ----- [BOOM ASS'Y & UPPER PARTS]



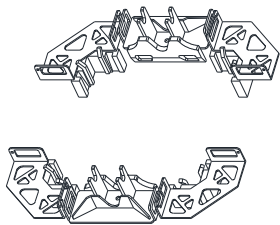
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PLACING BOOM SYSTEM ----- [MAST]

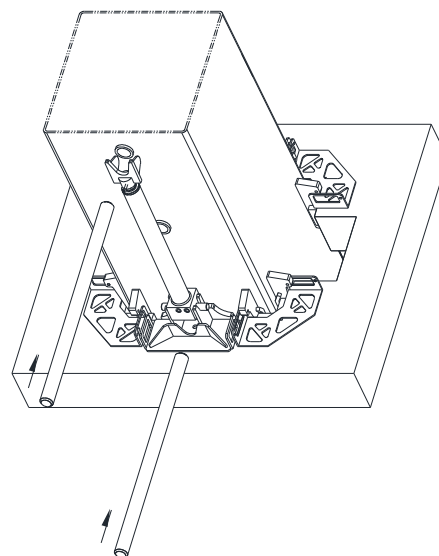
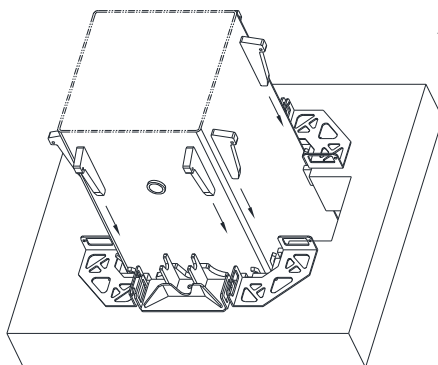
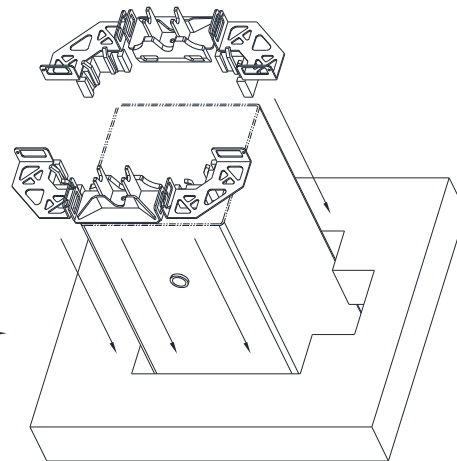
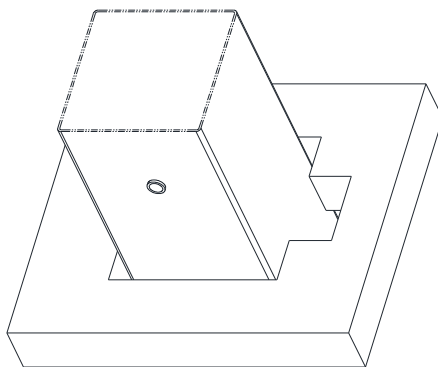
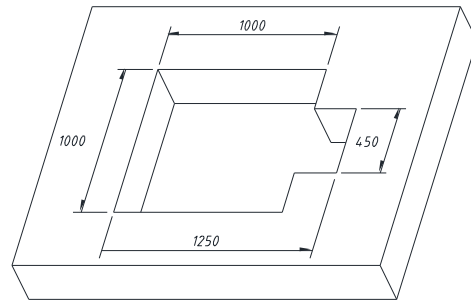


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PLACING BOOM SYSTEM ----- [FRAME _ CLIMBING, CLIMBING_CYLINDER]

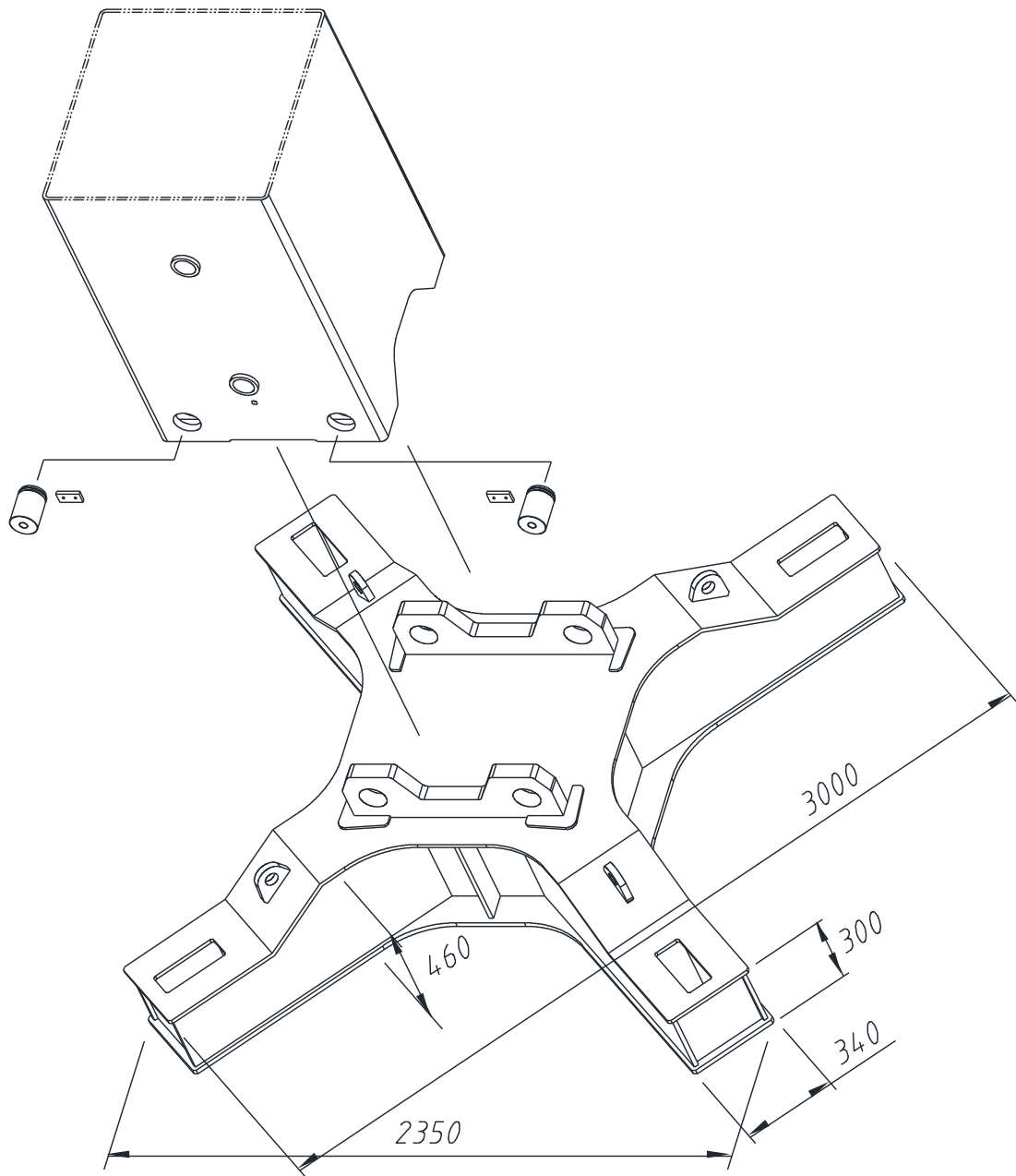


WEDGE BLOCK
CLIMBING SHOE
TOTAL : 160 kg



KB-M24Z

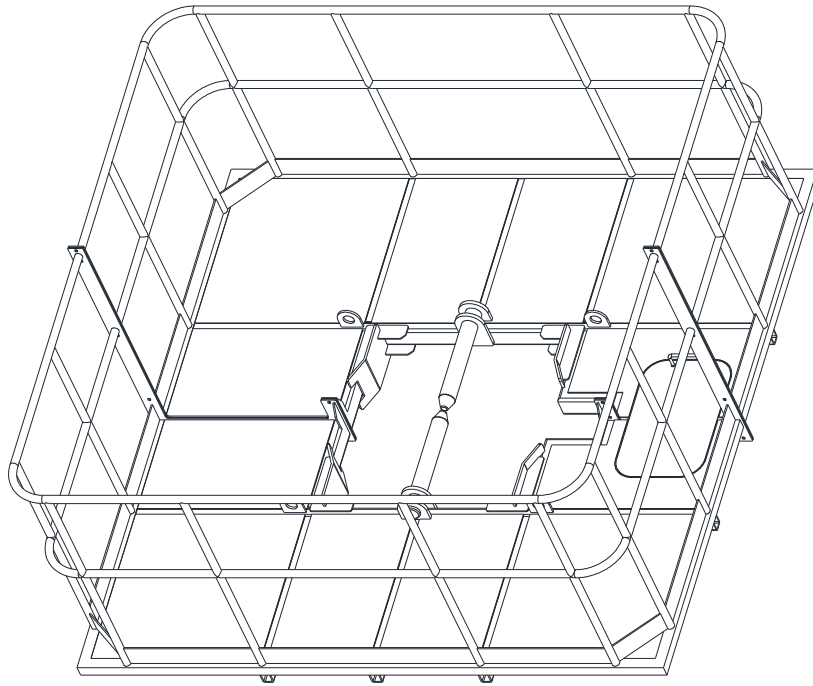
PLACING BOOM SYSTEM ----- [BASE_ANCHOR]



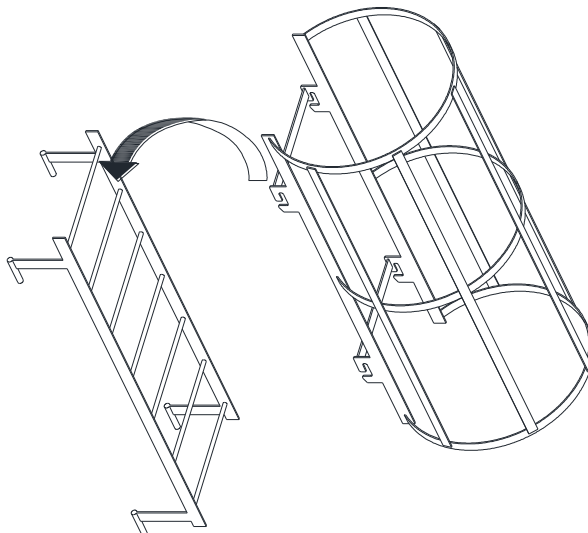
BASE ANCHOR
1,850 kg

KB-M24Z

PLACING BOOM SYSTEM ----- [WORKING PLATFORM & LADDER]



WORKING PLATFORM
570 kg



LADDER - STD
20 kg + 30 kg = 50 kg