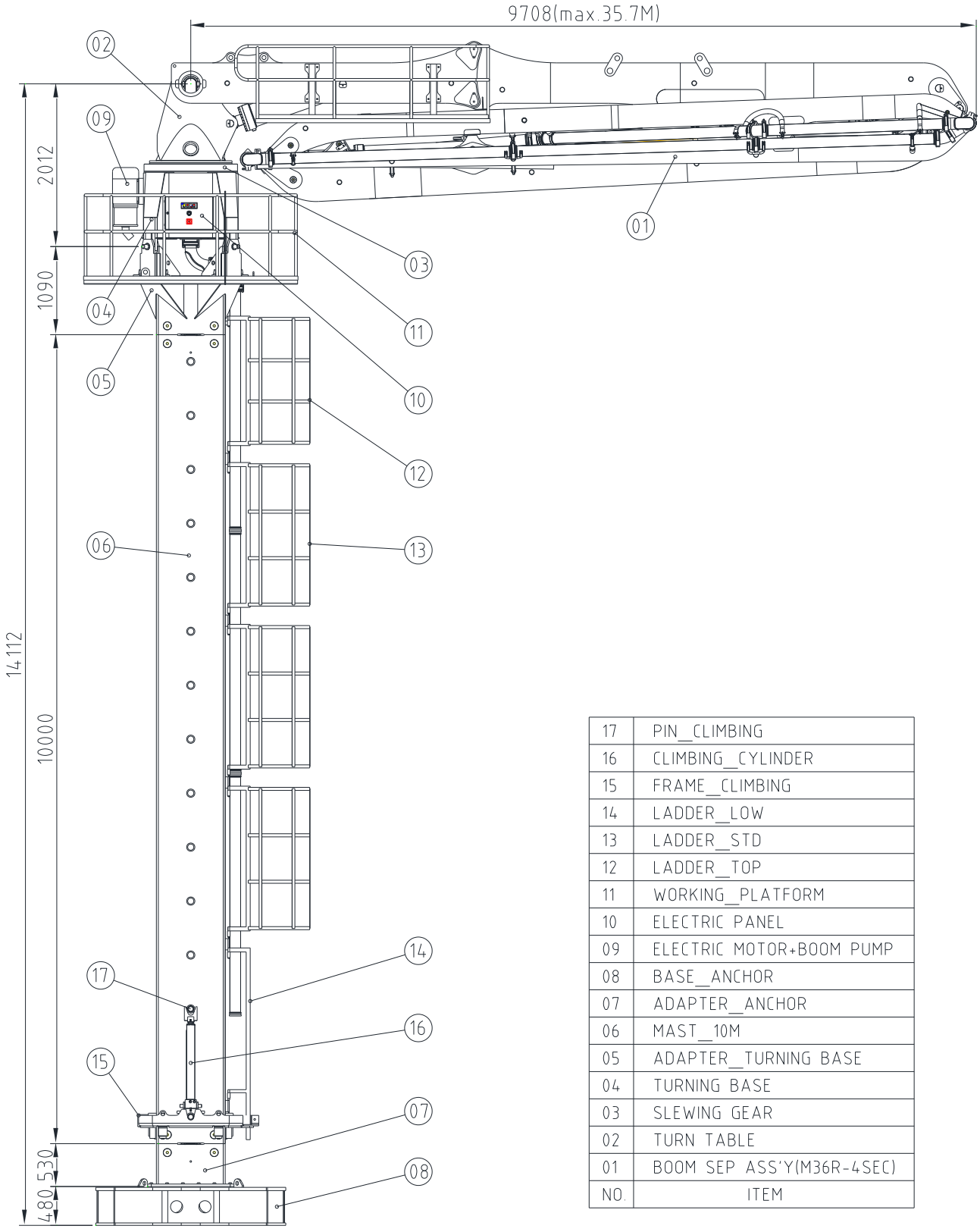
KCP CONCRETE PUMPS

KB-M36R

Placing Boom System Layout



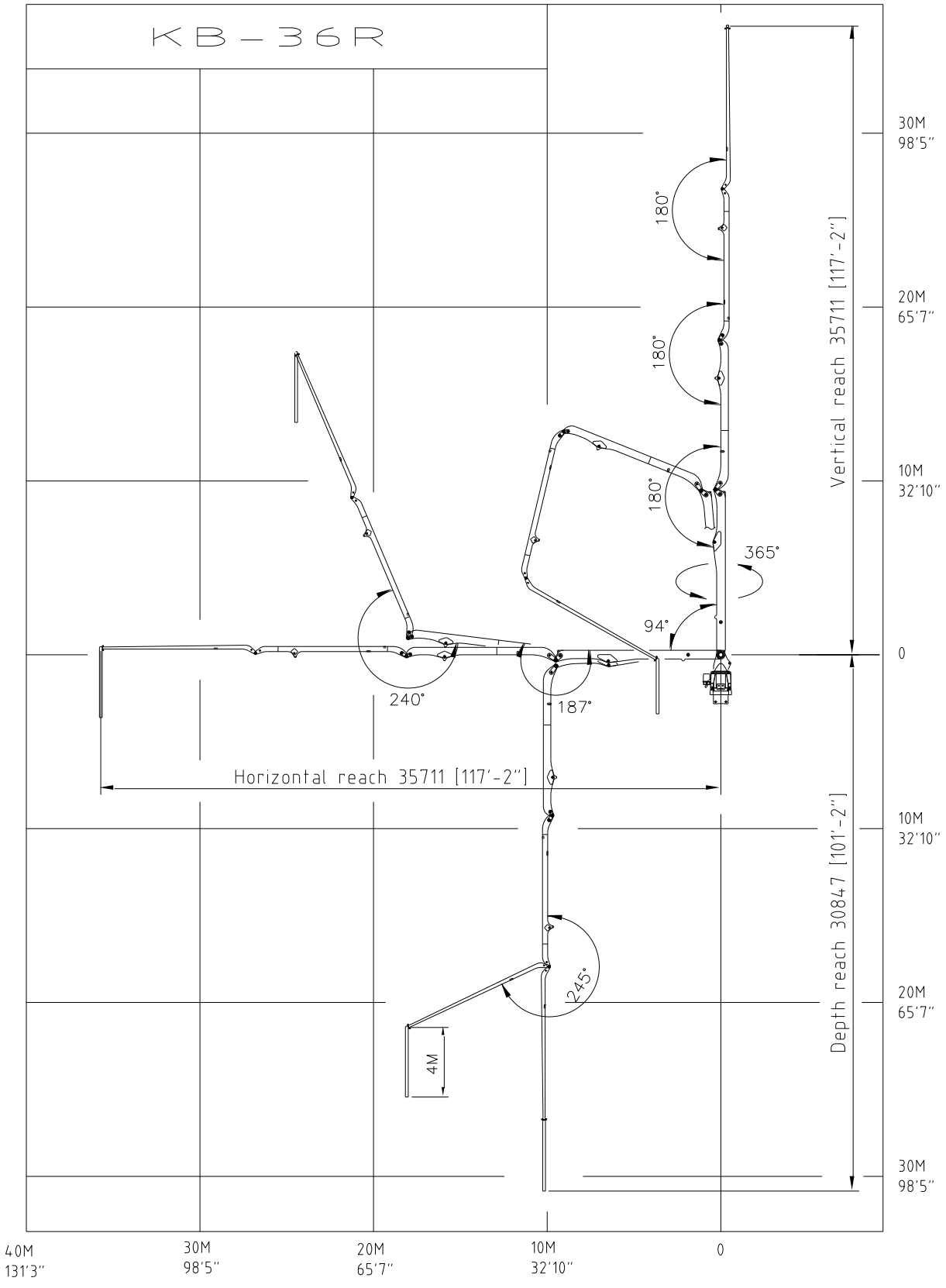
NO.	ITEM
17	PIN_CLIMBING
16	CLIMBING_CYLINDER
15	FRAME_CLIMBING
14	LADDER_LOW
13	LADDER_STD
12	LADDER_TOP
11	WORKING_PLATFORM
10	ELECTRIC PANEL
09	ELECTRIC MOTOR+BOOM PUMP
08	BASE_ANCHOR
07	ADAPTER_ANCHOR
06	MAST_10M
05	ADAPTER_TURNING BASE
04	TURNING BASE
03	SLEWING GEAR
02	TURN TABLE
01	BOOM SEP ASS'Y(M36R-4SEC)

A4(210 × 297)

KCP CONCRETE PUMPS

KB-M36R

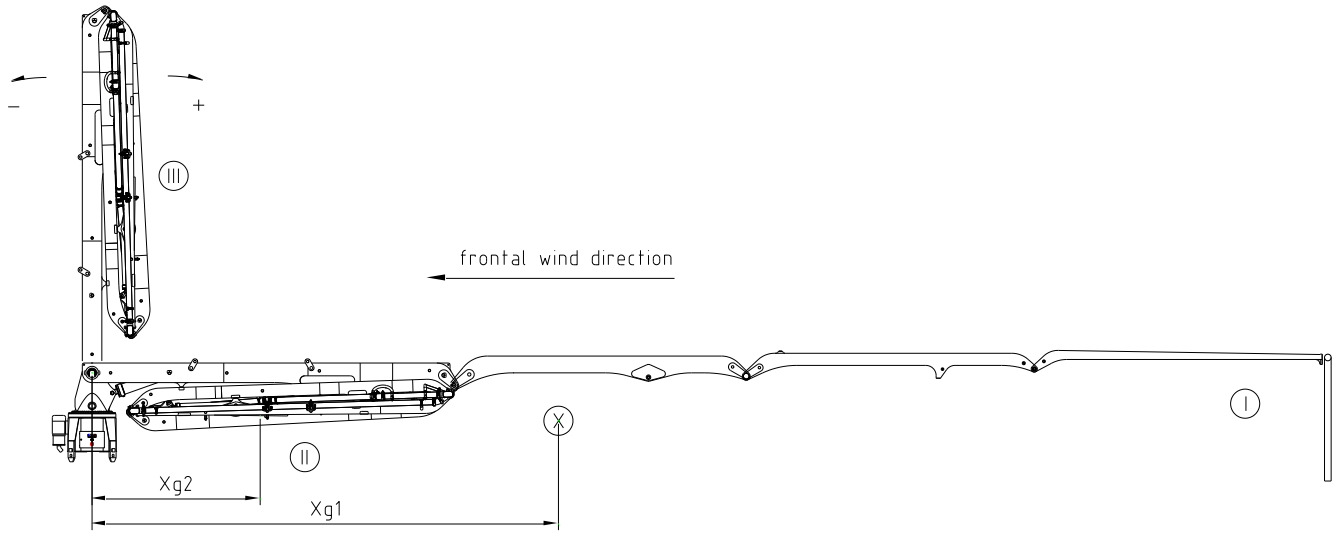
Placing Boom System Working diagram



A4(210 × 297)

KCP CONCRETE PUMPS

KB-M36R Placing Boom System Technical data



MOMENT [KNm]	
Position of boom	Moment(boom side) → +
I with concrete in pipe-line	→ 932 KNm
II without concrete in pipe-line	→ 281 KNm
III without concrete in pipe-line	→ 29 KNm

Total weight [kg]- boom, table, base(with oil), motor, pump, (+concrete)			
In operation	9,600 kg	Out of operation	8,500 kg

Wind-exposed areas [㎡]			
Position of boom	Wind-exposed area	Center of gravity distance	remark
I II	13 ㎡ boom-side 13 ㎡ boom-side	Xg1 = 11 m Xg2 = 4.6 m	Wind surface perpendicular to frontal wind
I/II III	2.8 ㎡ 11 ㎡	Ys = 1.4 m Ys = 4.6 m	Exposed area in frontal wind

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

Absolute altitude [m]	0~8	8~20	20~100	Above 100
W [N/㎡]	800	1280	1760	2080

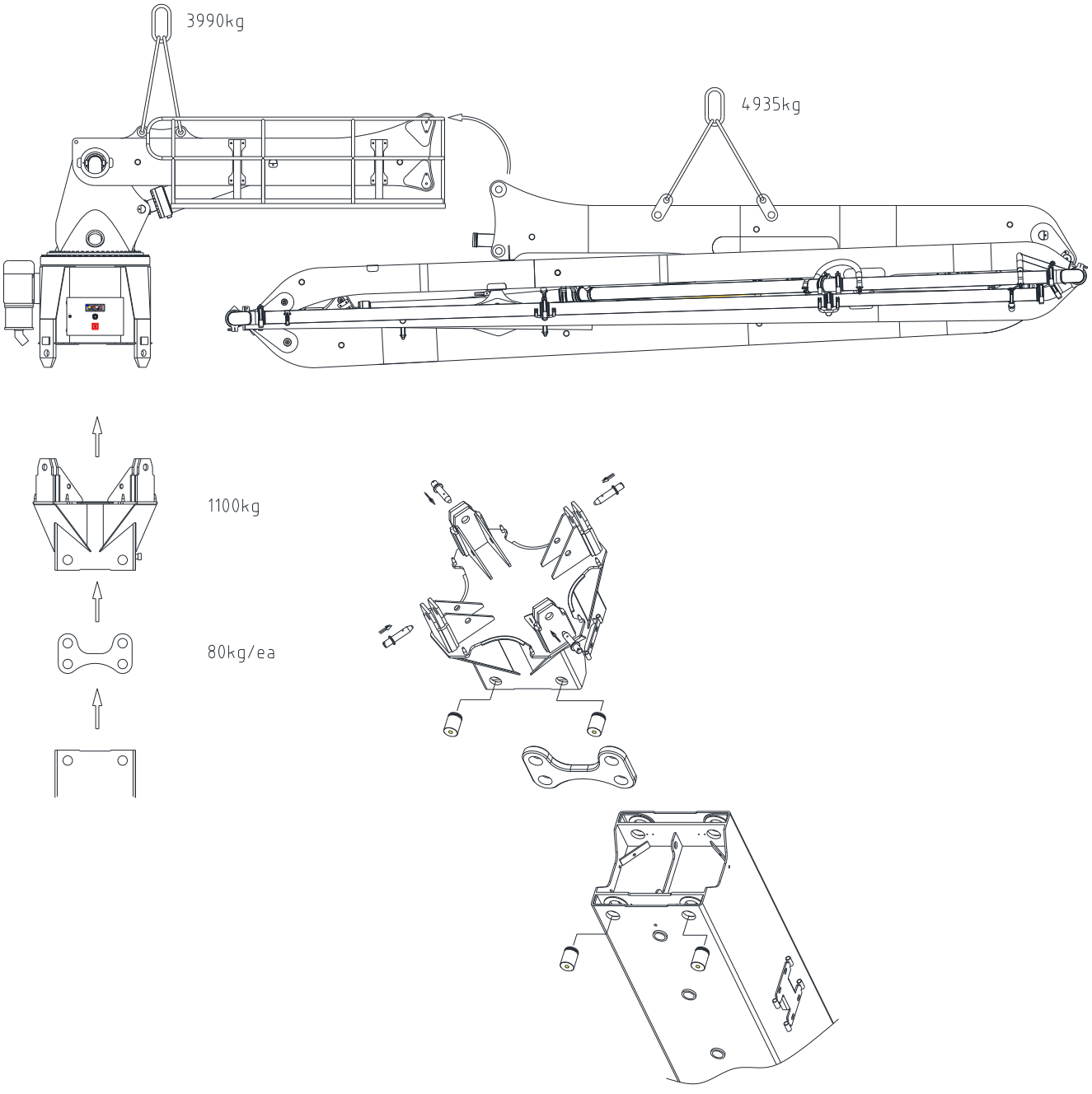
F = W × A		
F : wind force	W : lateral thrust due to wind	A : wind surface area

A4(210 × 297)

KCP CONCRETE PUMPS

KB-M36R

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

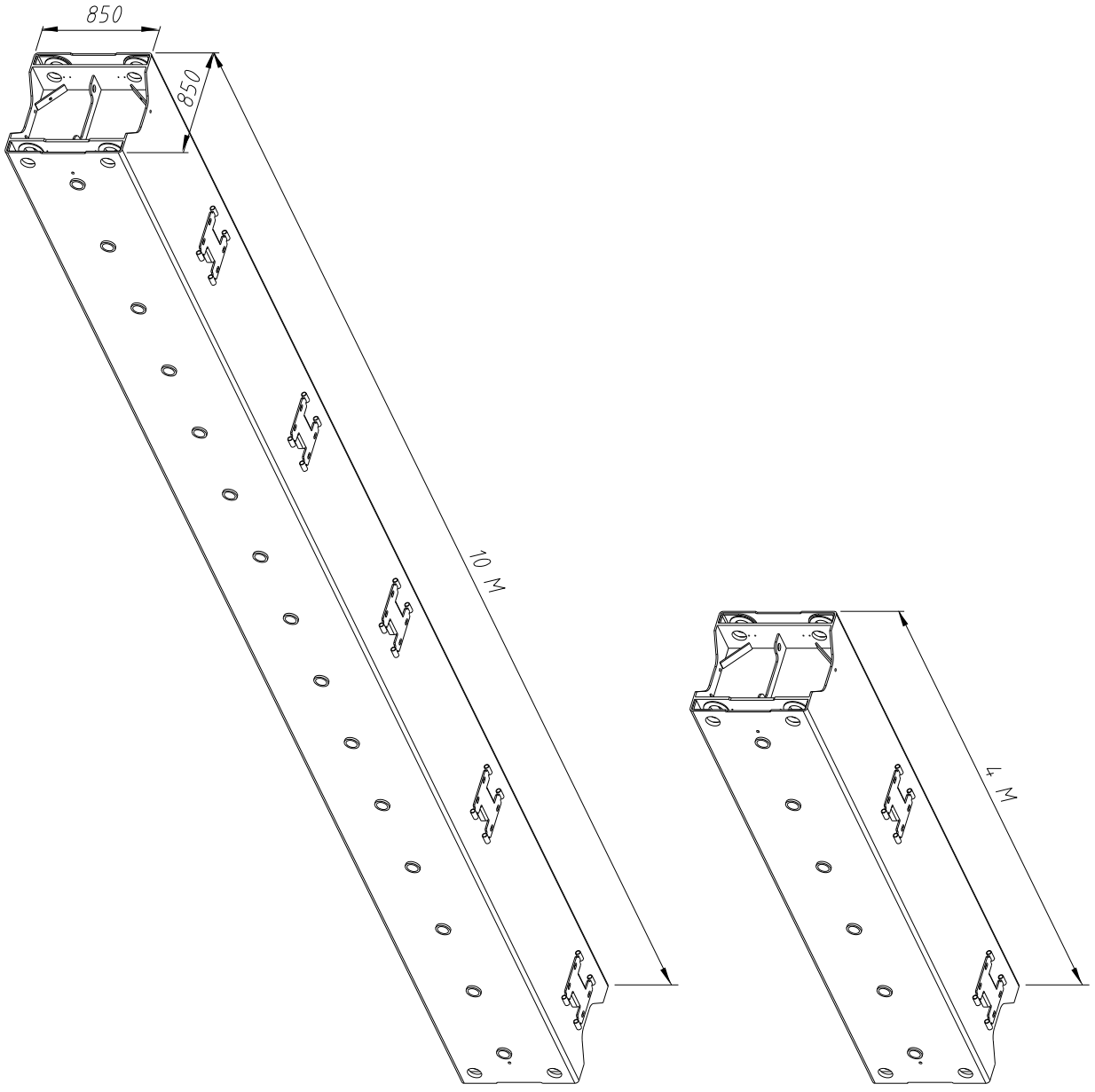


A4(210 × 297)

KCP CONCRETE PUMPS

KB-M36R

PLACING BOOM SYSTEM ----- [MAST]

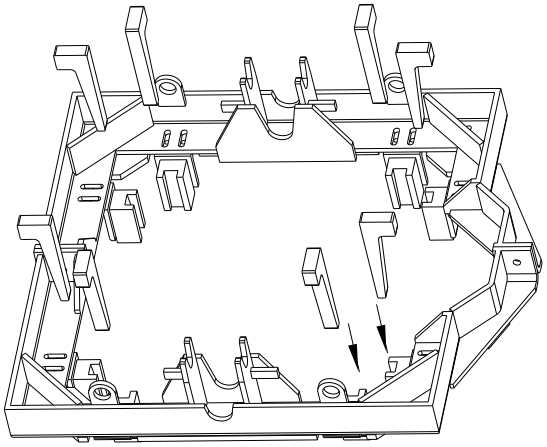


A4(210 × 297)

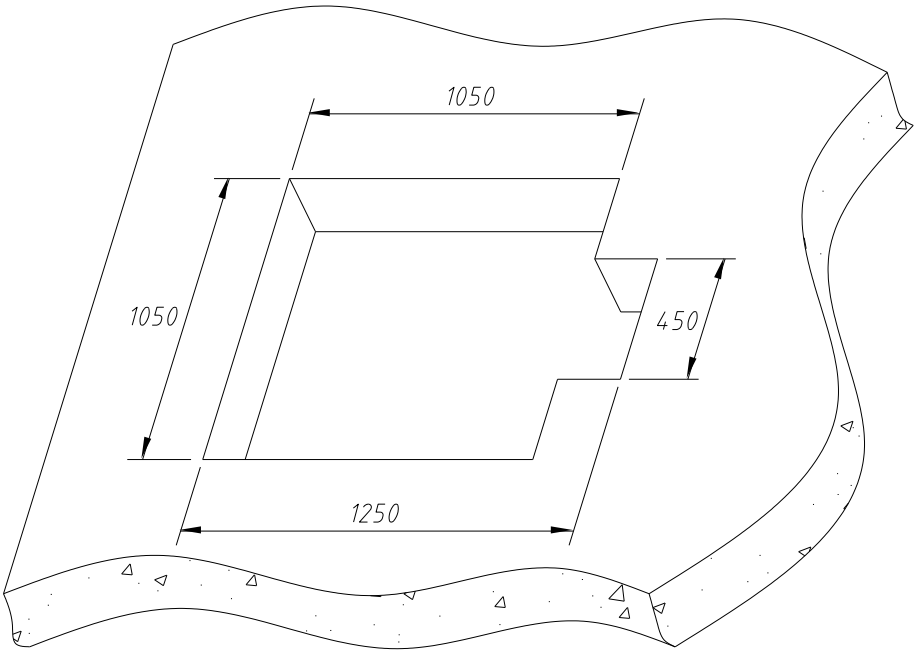
KCP CONCRETE PUMPS

KB-M36R

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



370 KG

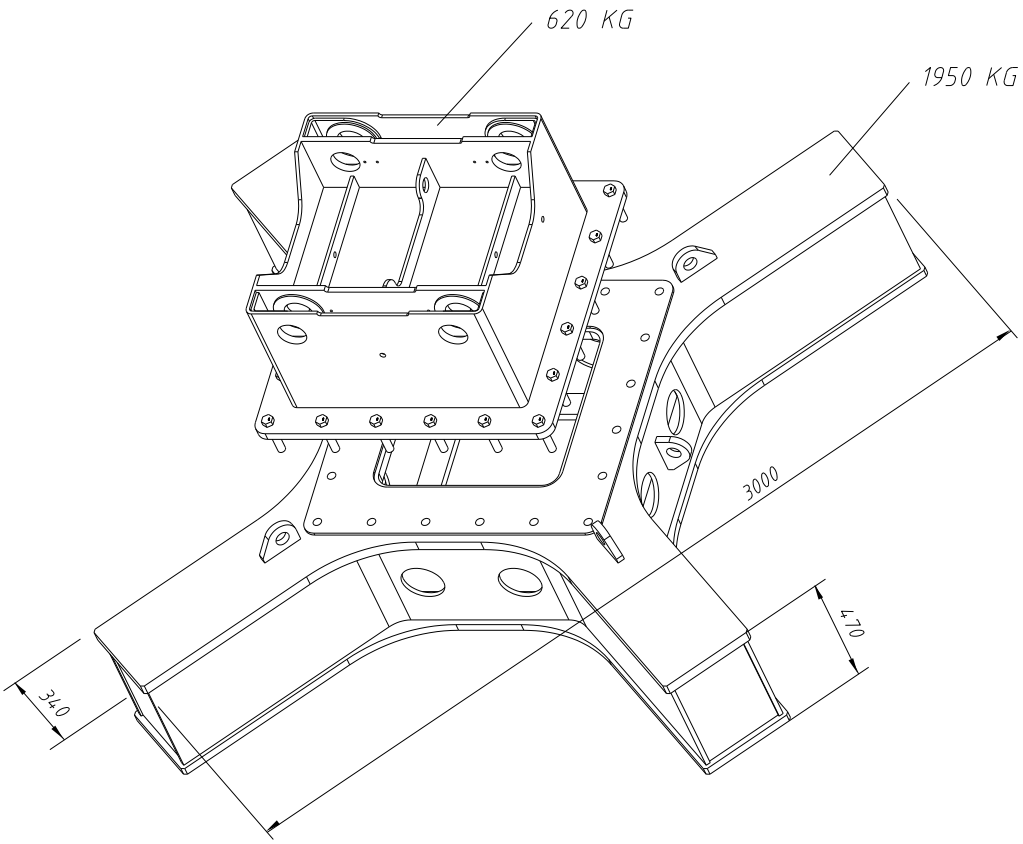


A4(210 × 297)

KCP CONCRETE PUMPS

KB-M36R

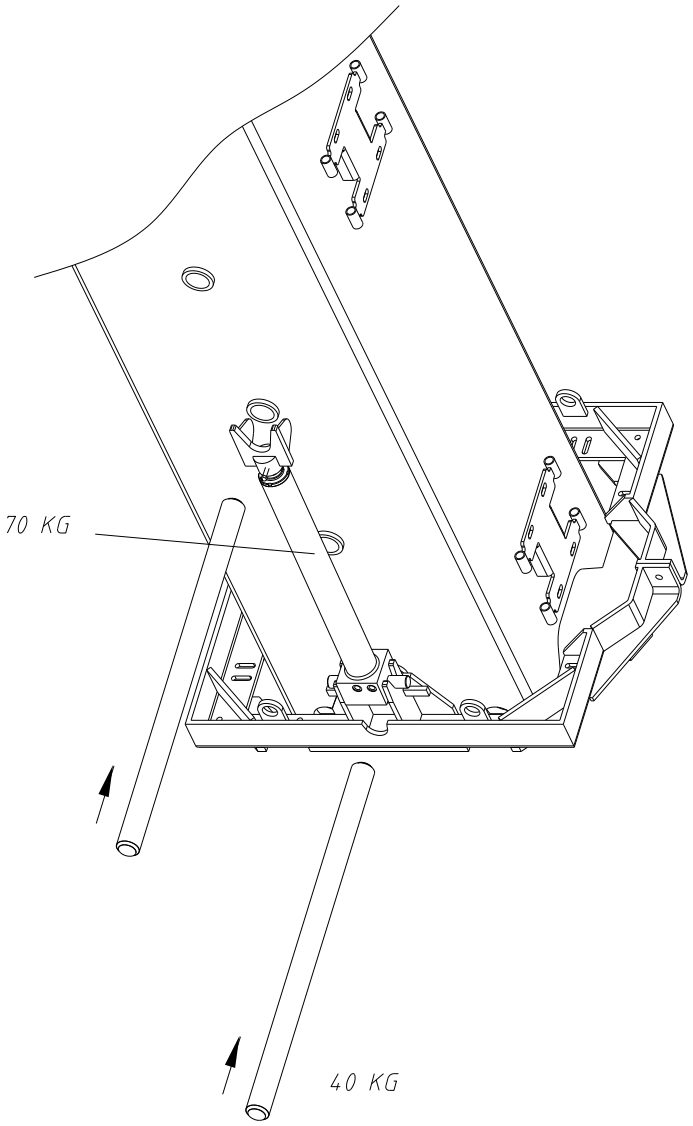
PLACING BOOM SYSTEM ----- [BASE_ANCHOR & ADAPTER_ANCHOR]



A4(210 × 297)

KB-M36R

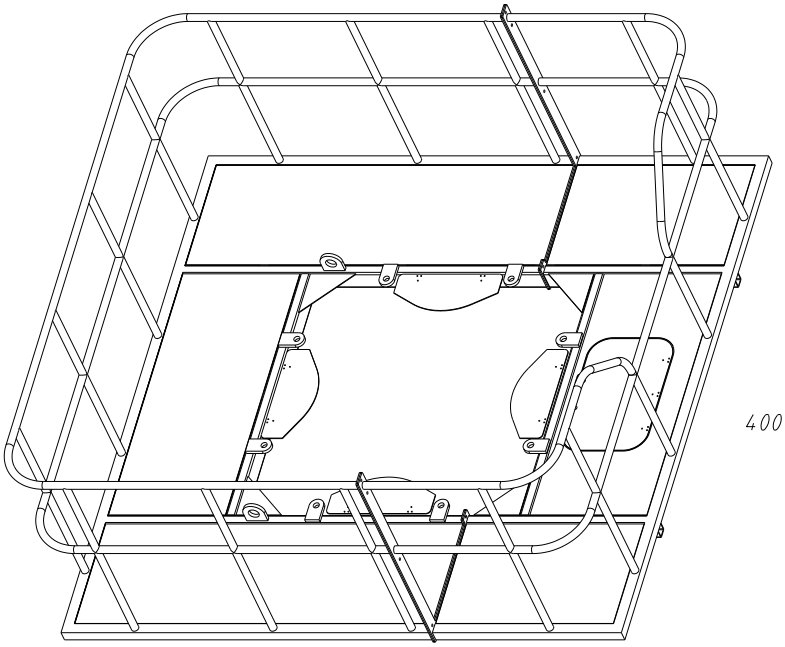
PLACING BOOM SYSTEM ----- [CLIMBING_CYLINDER]



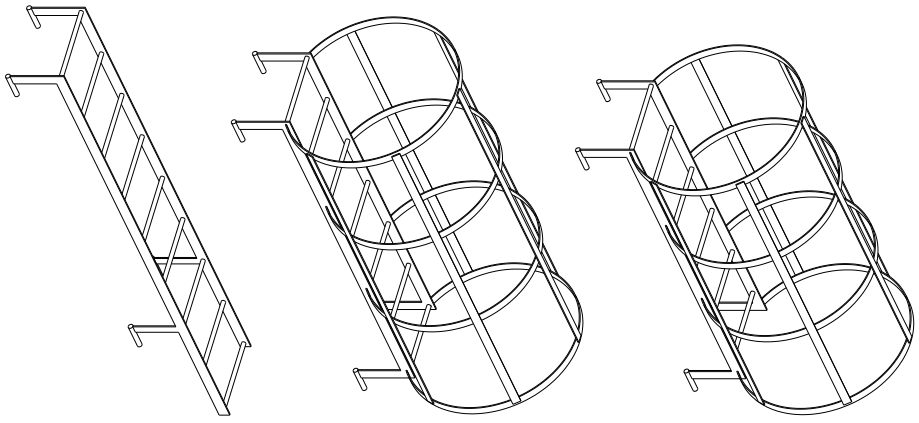
KCP CONCRETE PUMPS

KB-M36R

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



400 KG



25 KG

45 KG

40 KG

A4(210 × 297)

A4(210 × 297)