HYVA® CRANE

TRUCK MOUNTED CRANE

HB200 – HB230

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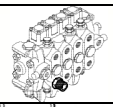
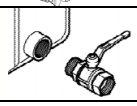
TECHNICAL DATA

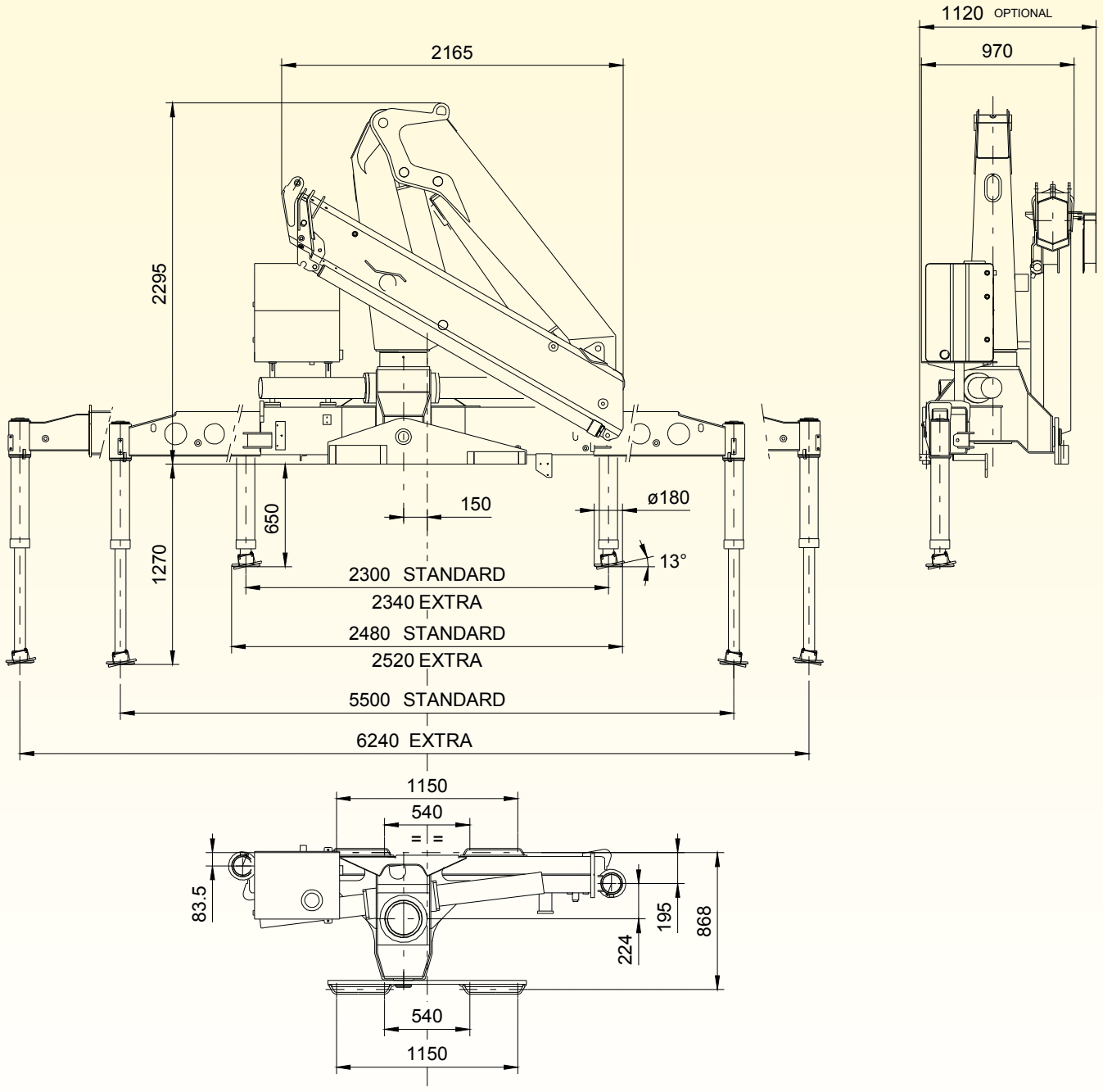
Max dynamic moment [daNm]	26100

		HB200	HB230
Max capacity [kg]	E1	9210	9620
	E2	9060	9415
	E3	8750	9140
	E4	8575	8935
	E5	8370	8720
	E6	8190	8525
	E5J2	550	605

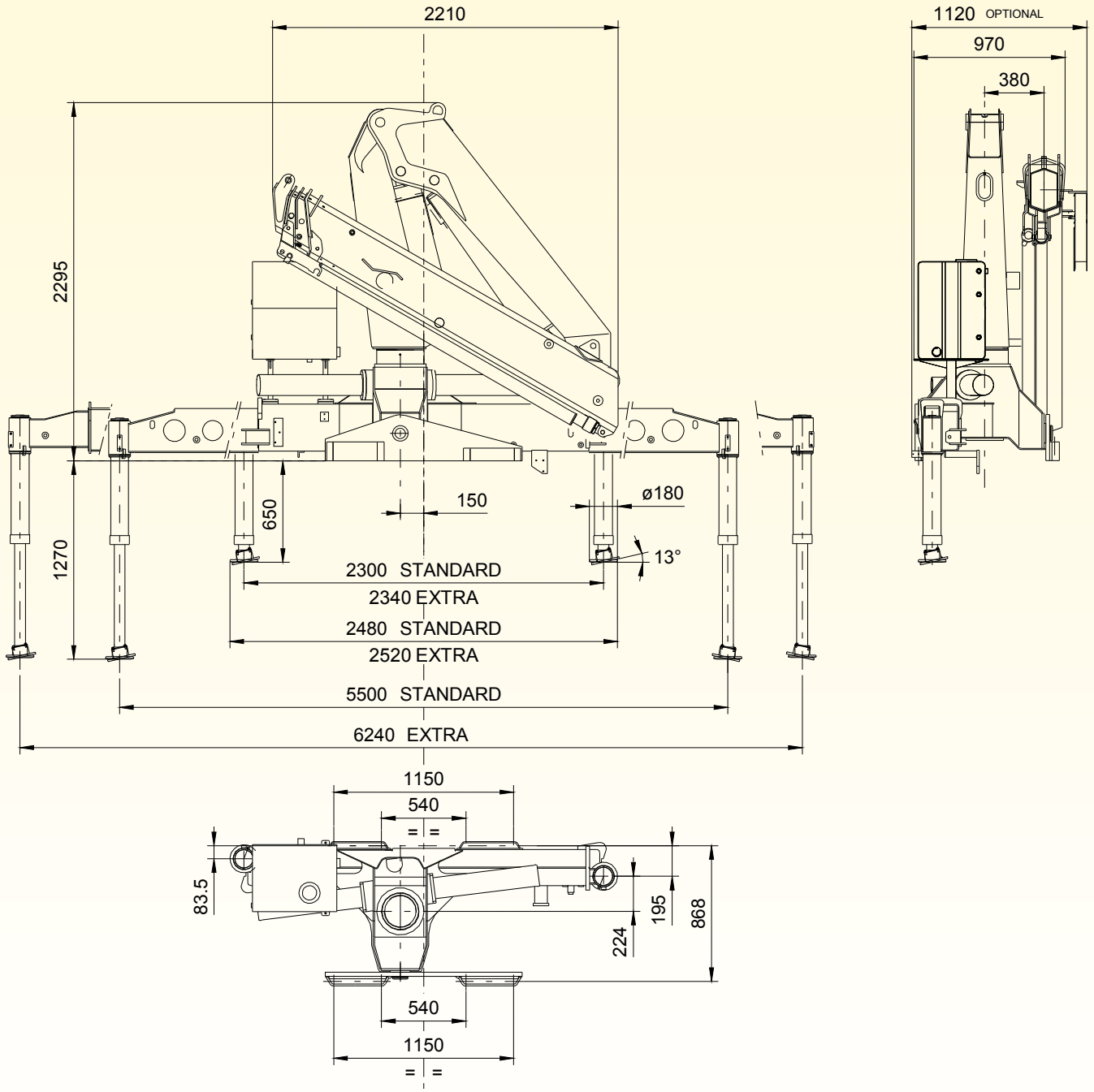
		HB200		HB230	
		STD	EX	STD	EX
Crane weight [kg]	E1	2280	2350	2310	2380
	E2	2430	2500	2460	2530
	E3	2570	2640	2600	2670
	E4	2700	2770	2730	2800
	E5	2800	2870	2830	2900
	E6	2900	2970	2930	3000
	E5J2	3135	3205	3165	3235

Max force on the standard stabilizer leg	9680 daN	
Max standard stabilizer pressure on the ground	38 daN/cm^2	
Max force on the standard stabilizer extra	9380 daN	
Max extra stabilizer pressure on the ground	36 daN/cm^2	
Max working pressure	300 bar **HB200** 315 bar **HB230**	
Max oil flow to main relief valve	40 dm^3/min	
Oil tank capacity	130 dm^3	
Slewing moment	2150 daNm	
Slewing angle	387°	
Absorbed power	23 kW 31 HP	
Design standard	DIN 15018 EN 12999	
Fittings for connection with pump	**NO X**	**X**
Control valve pressure line 	**M**7/8" - 14 JIC	**M**7/8" - 14 JIC
ank suction line 	**F**1" 1/2 BSP	**F**1" 1/2 BSP

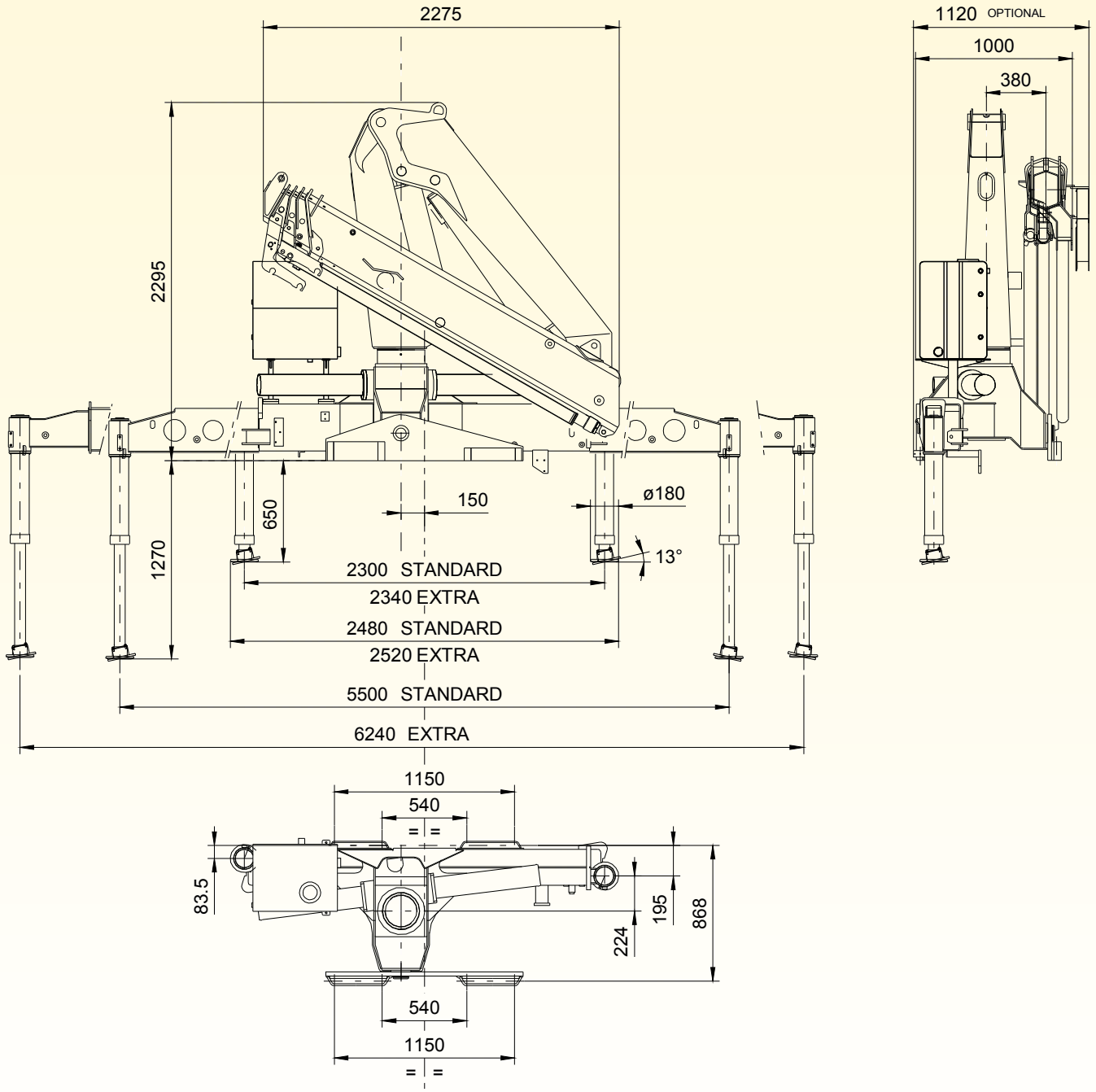
OVERALL DIMENSIONS E1



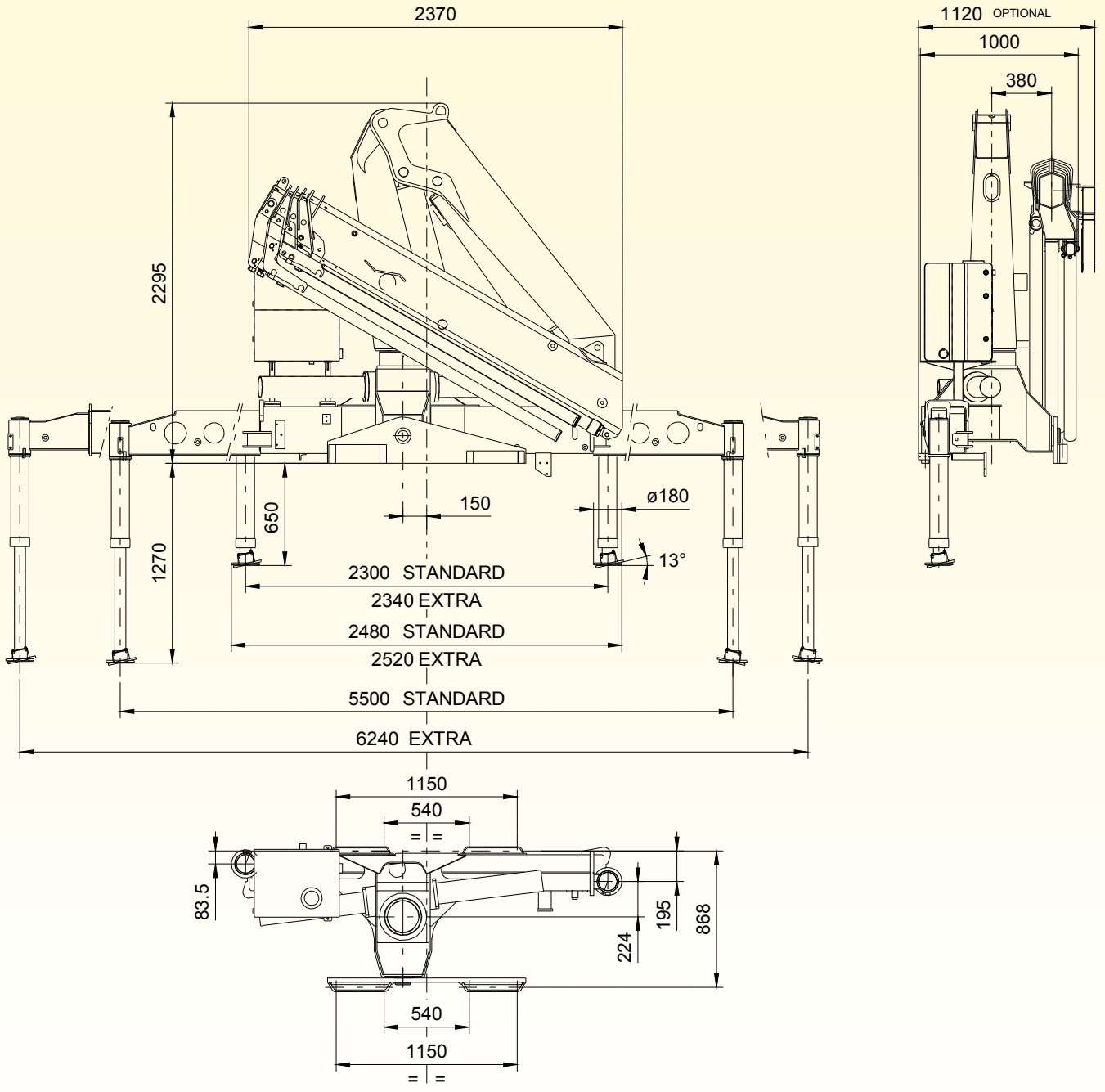
OVERALL DIMENSIONS E2



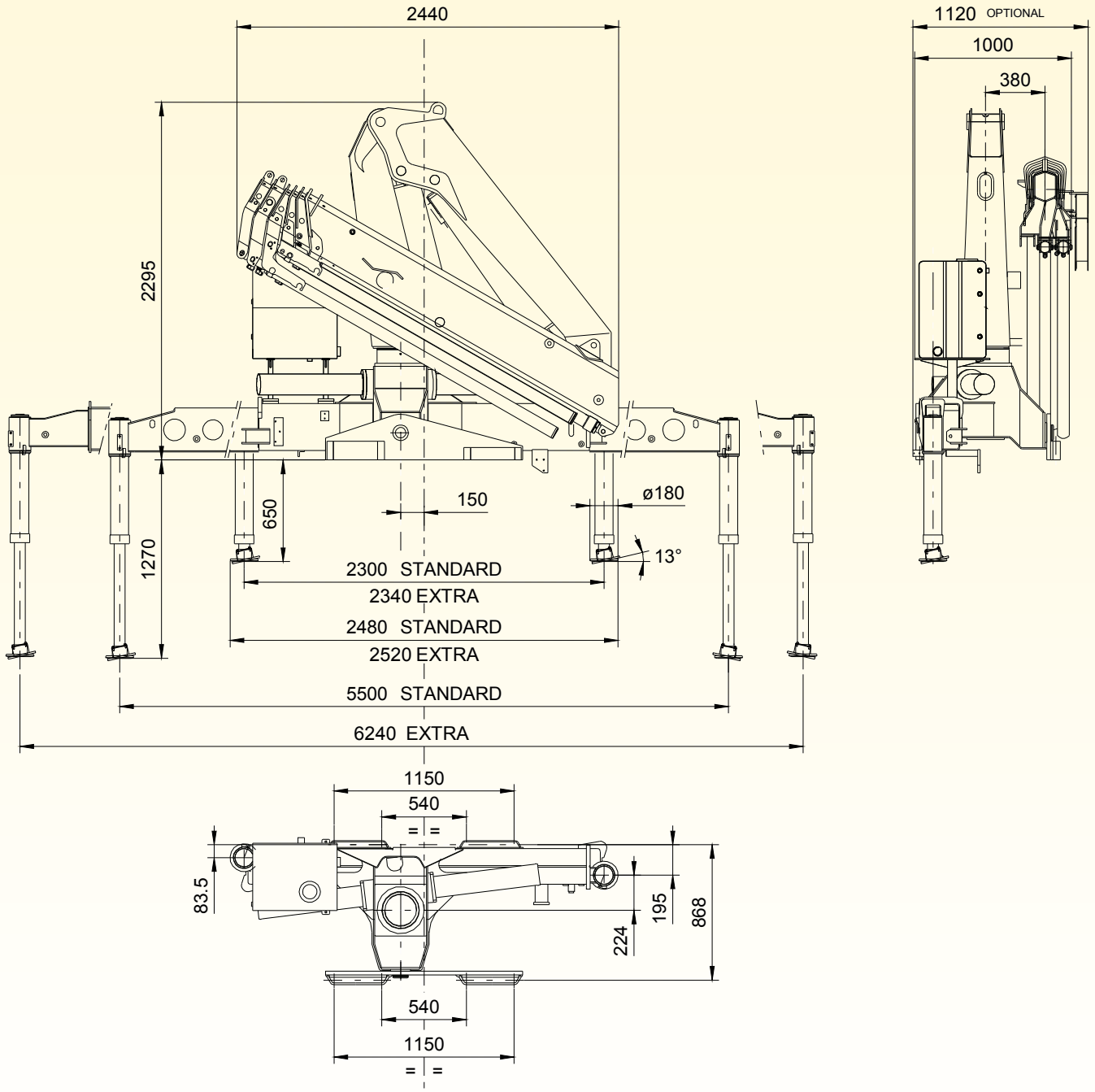
OVERALL DIMENSIONS E3



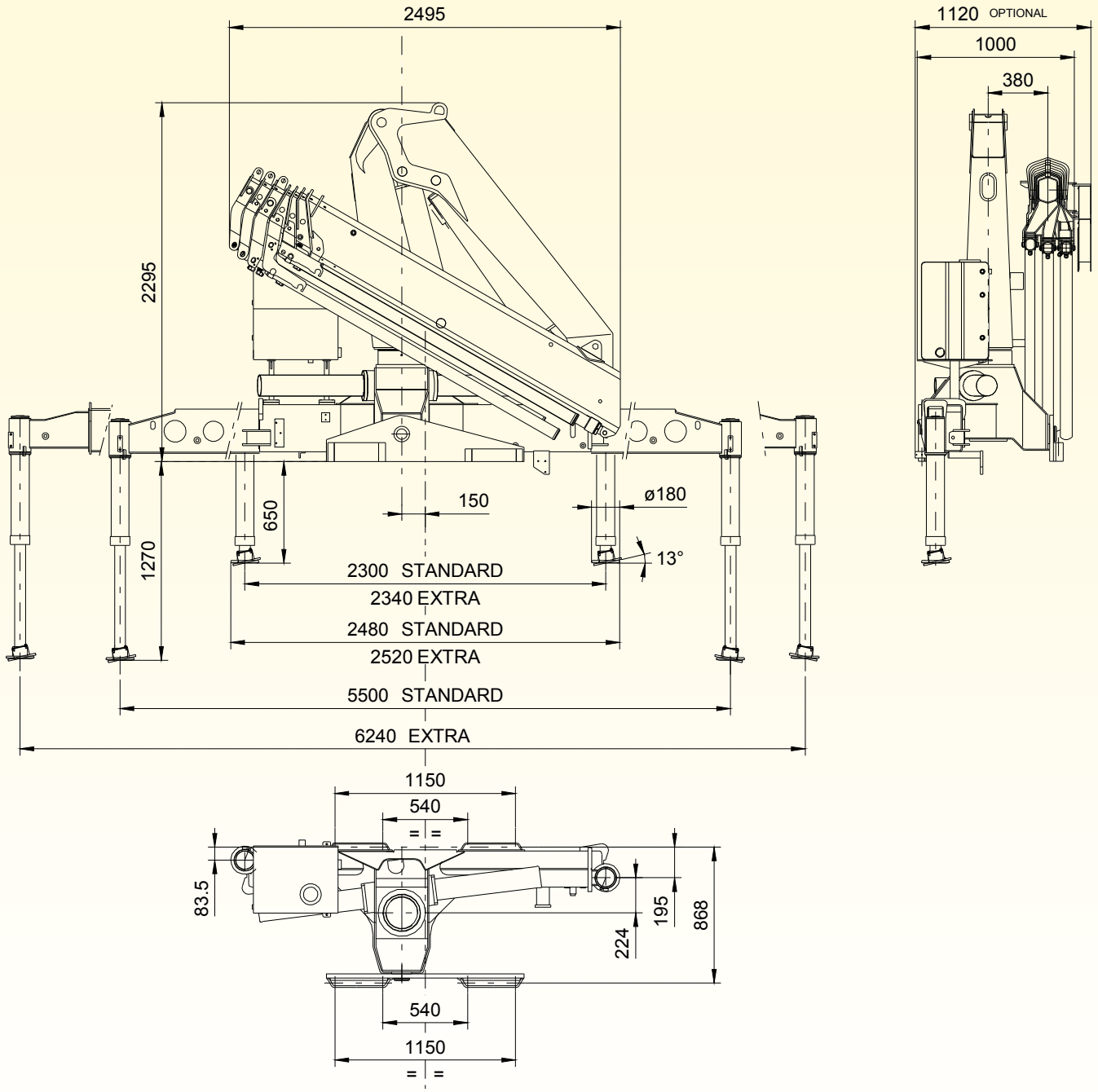
OVERALL DIMENSIONS E4



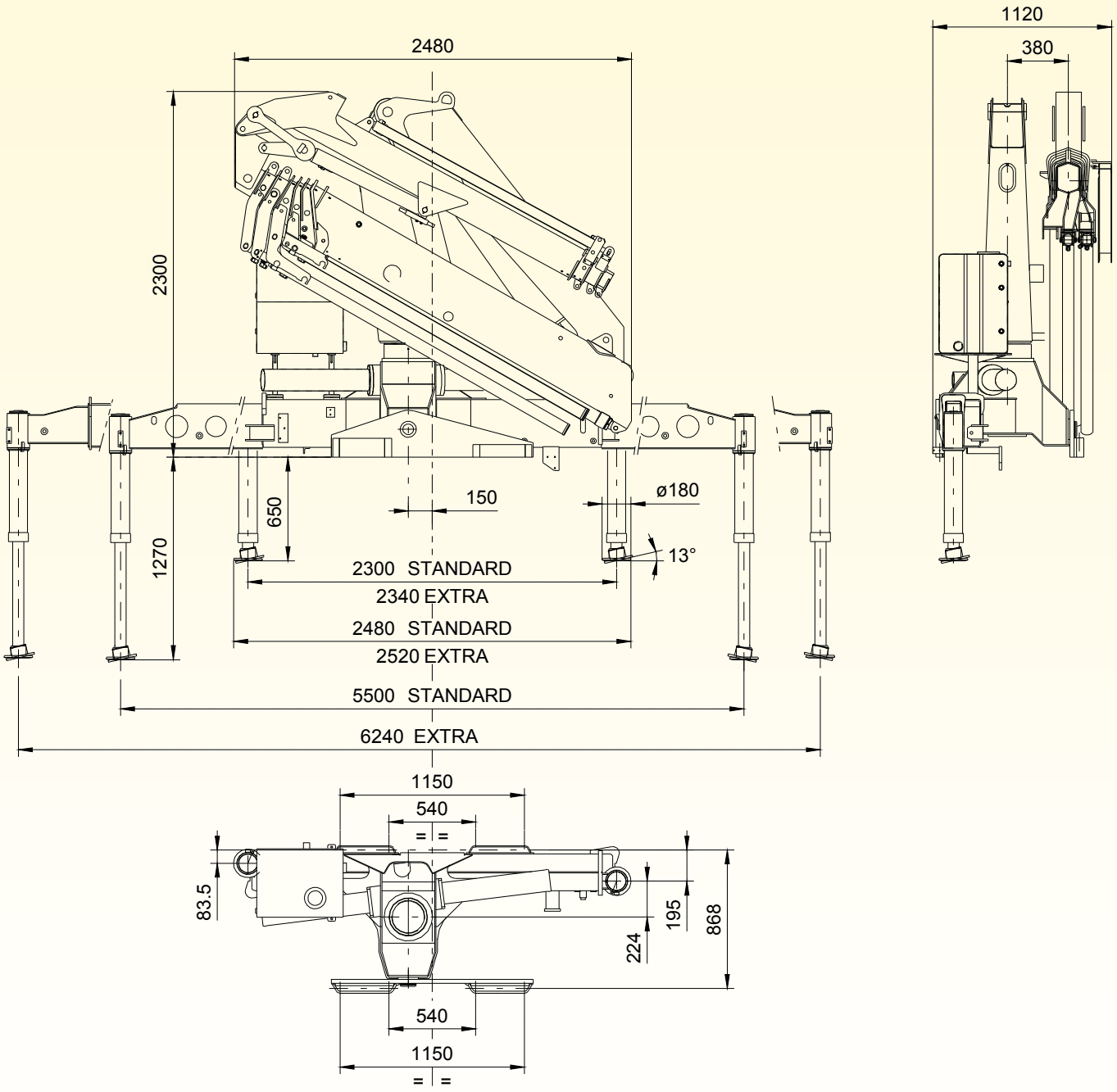
OVERALL DIMENSIONS E5



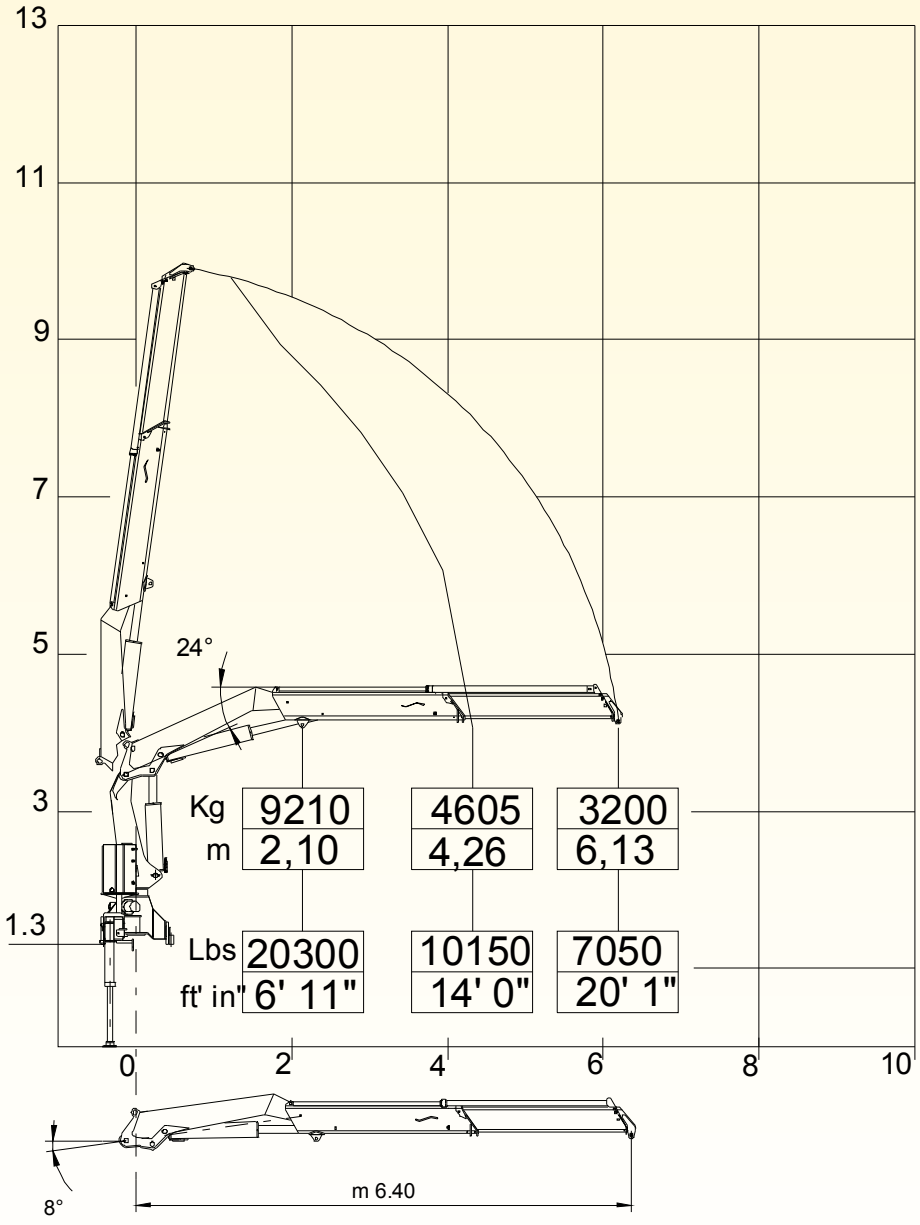
OVERALL DIMENSIONS E6



OVERALL DIMENSIONS E5J2



LOAD DIAGRAM E1



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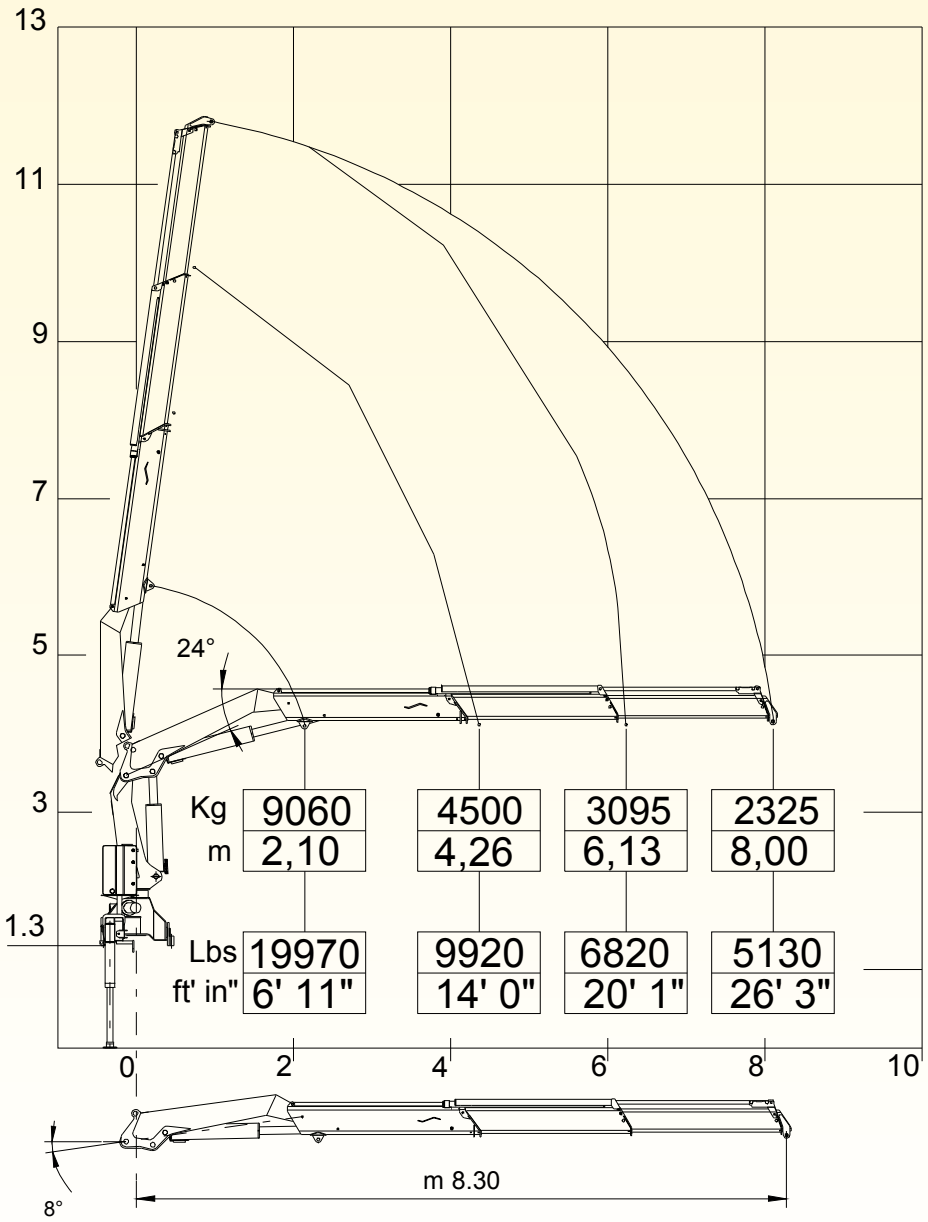

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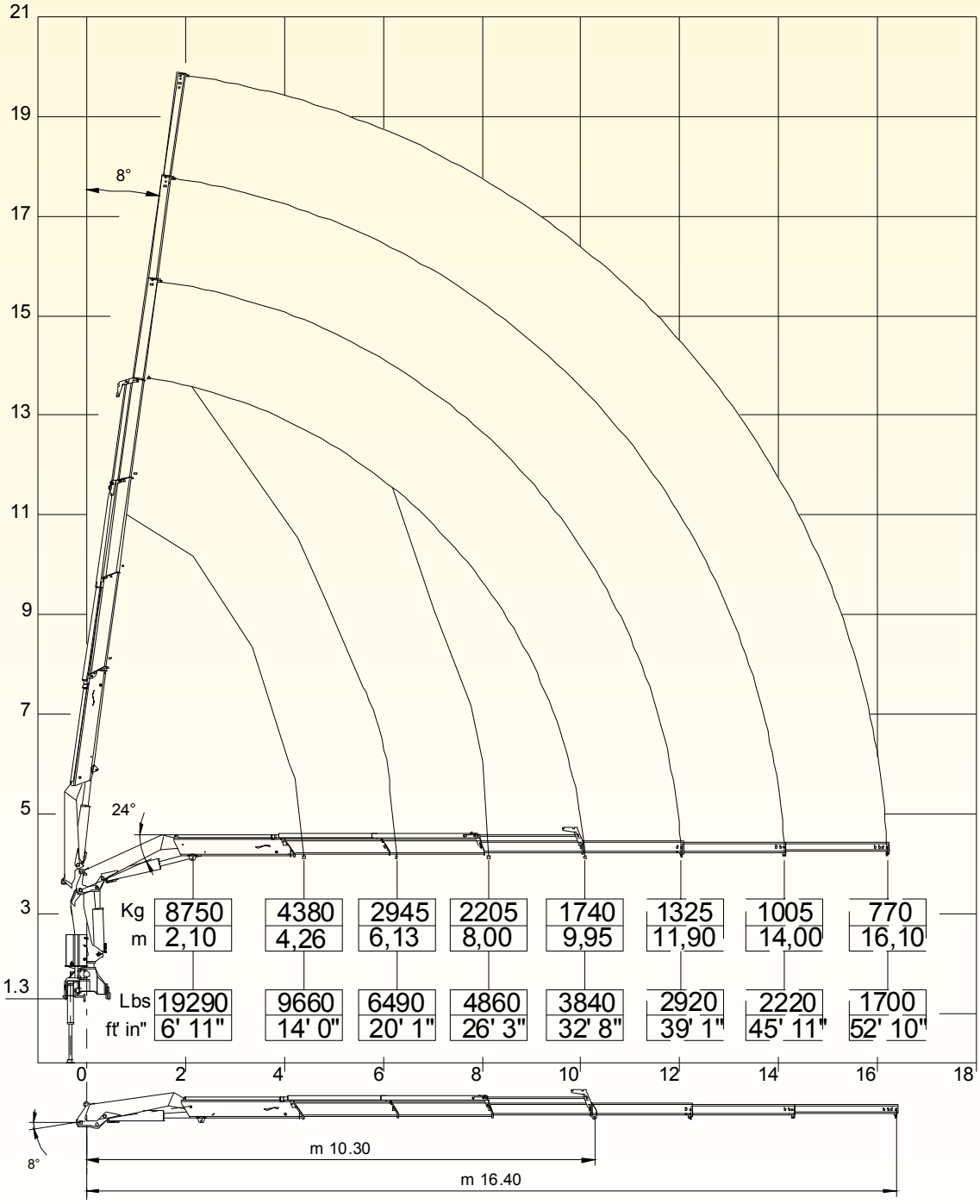

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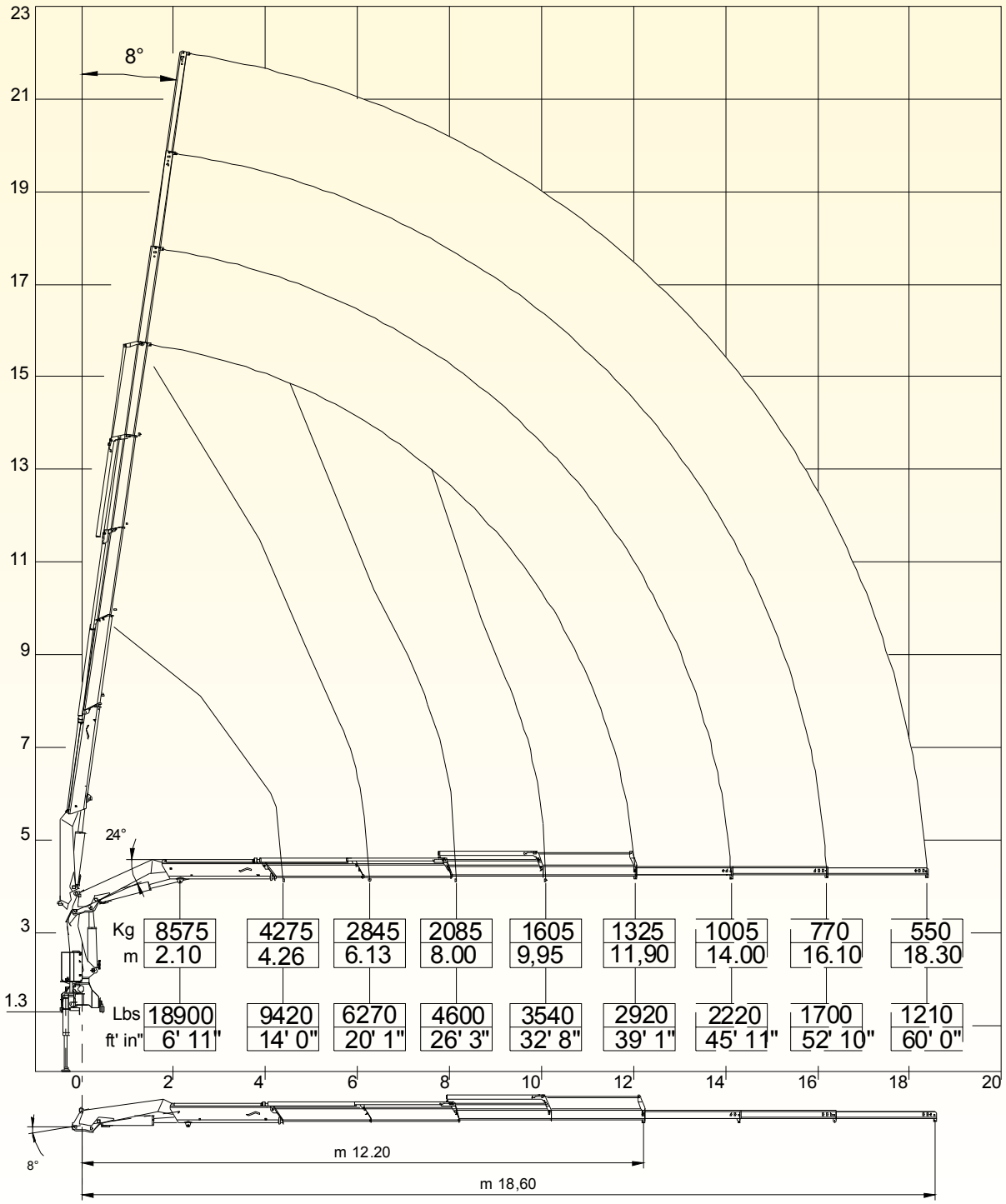

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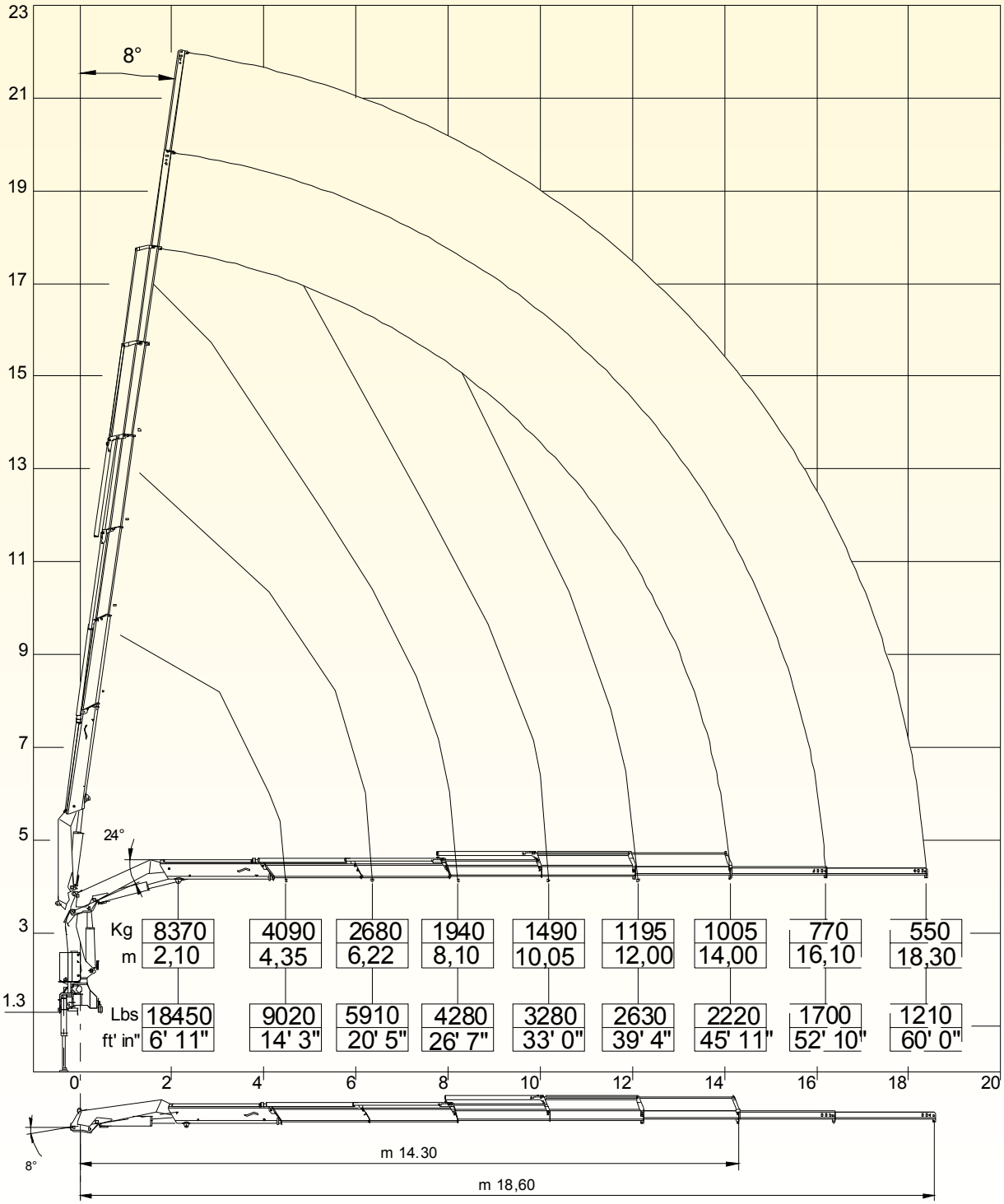
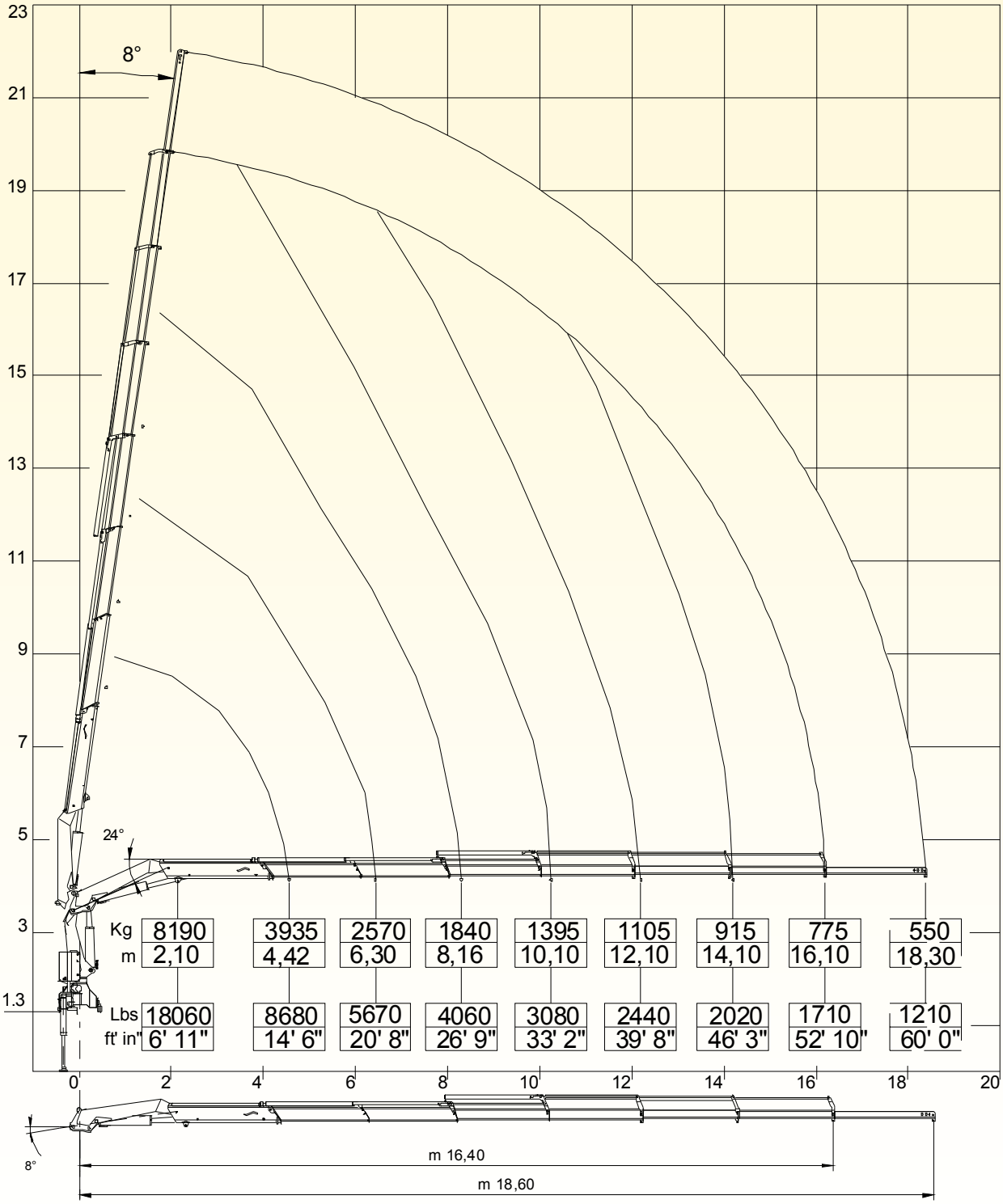


LOAD DIAGRAM E6



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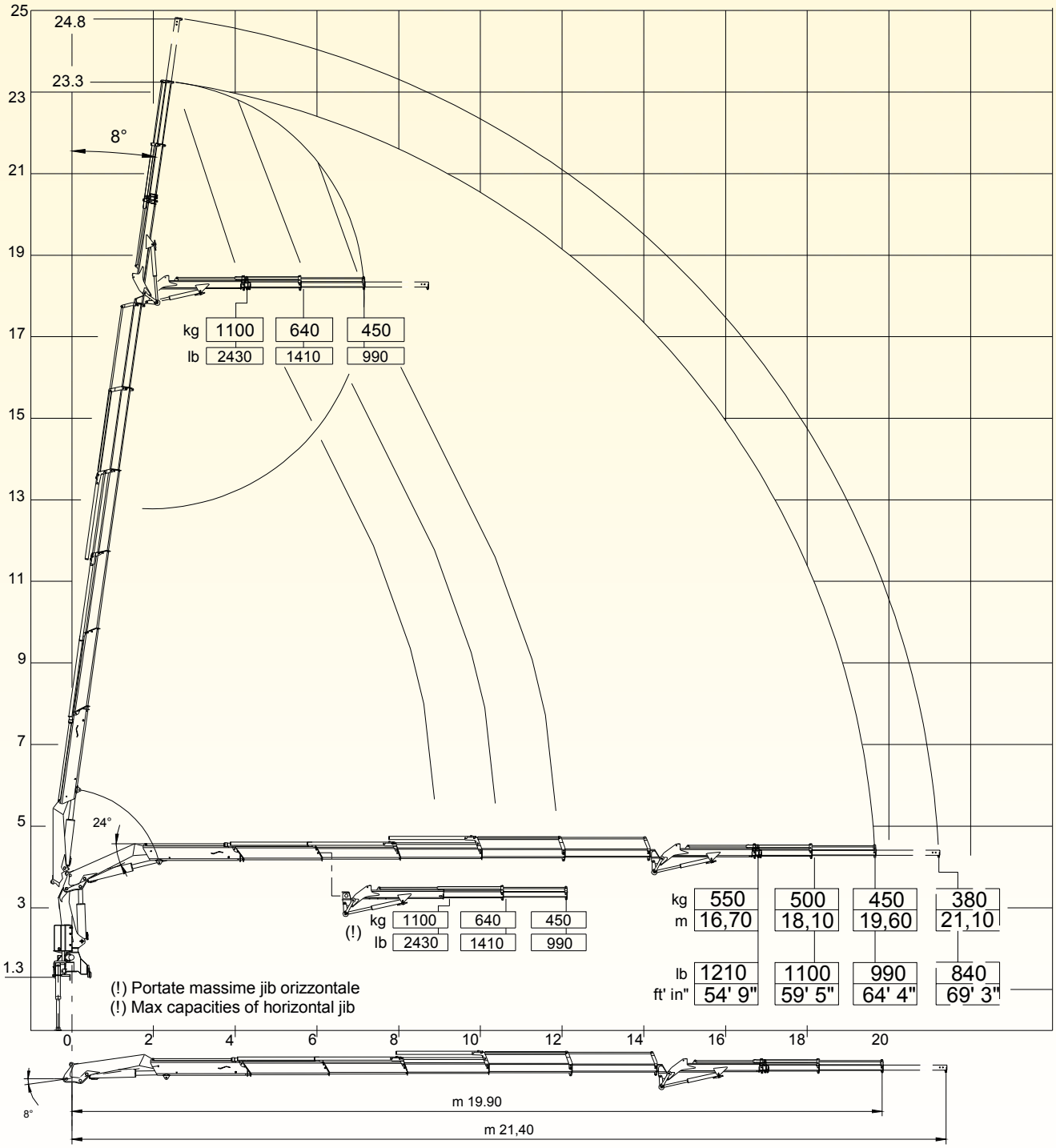

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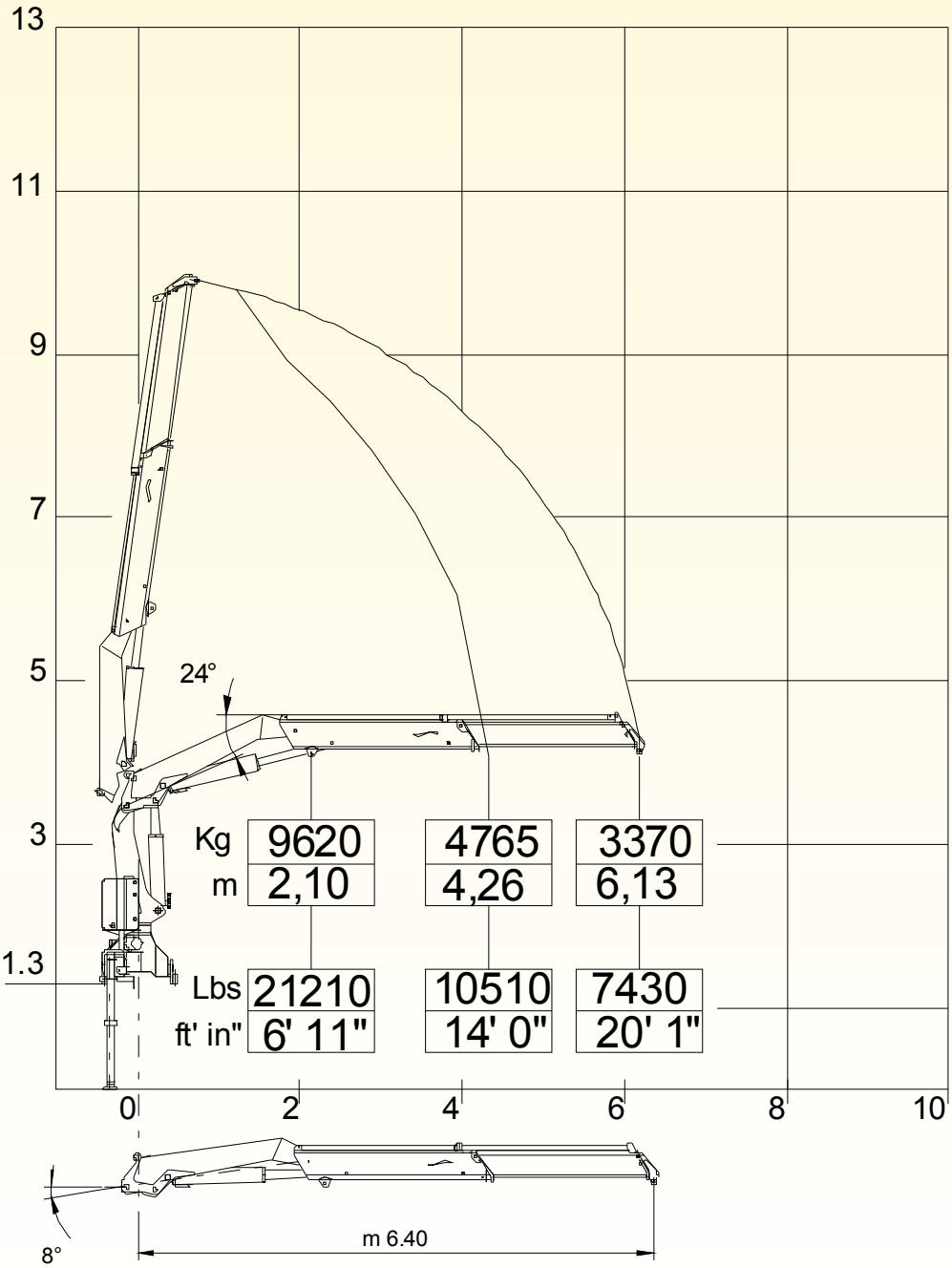

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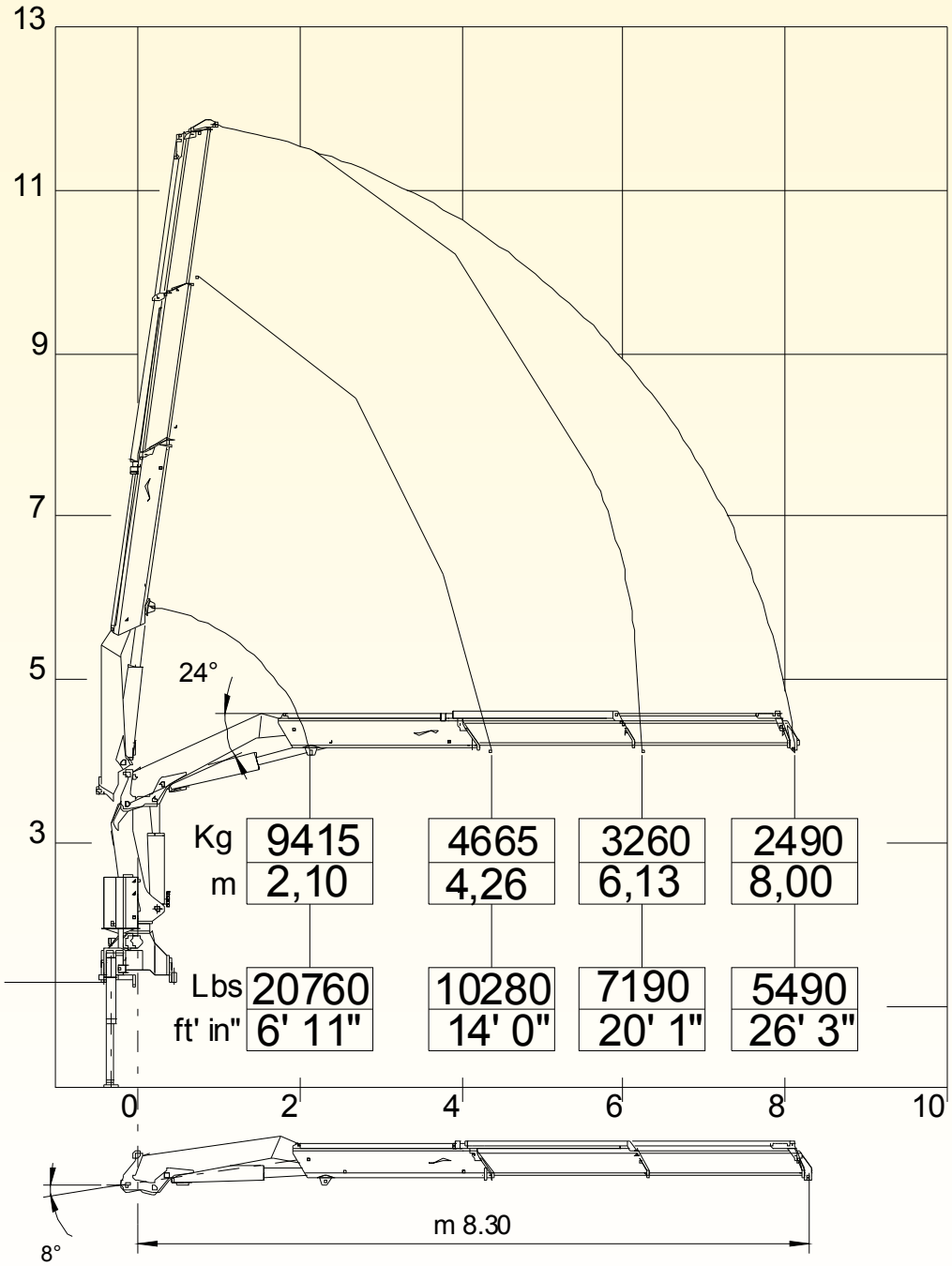

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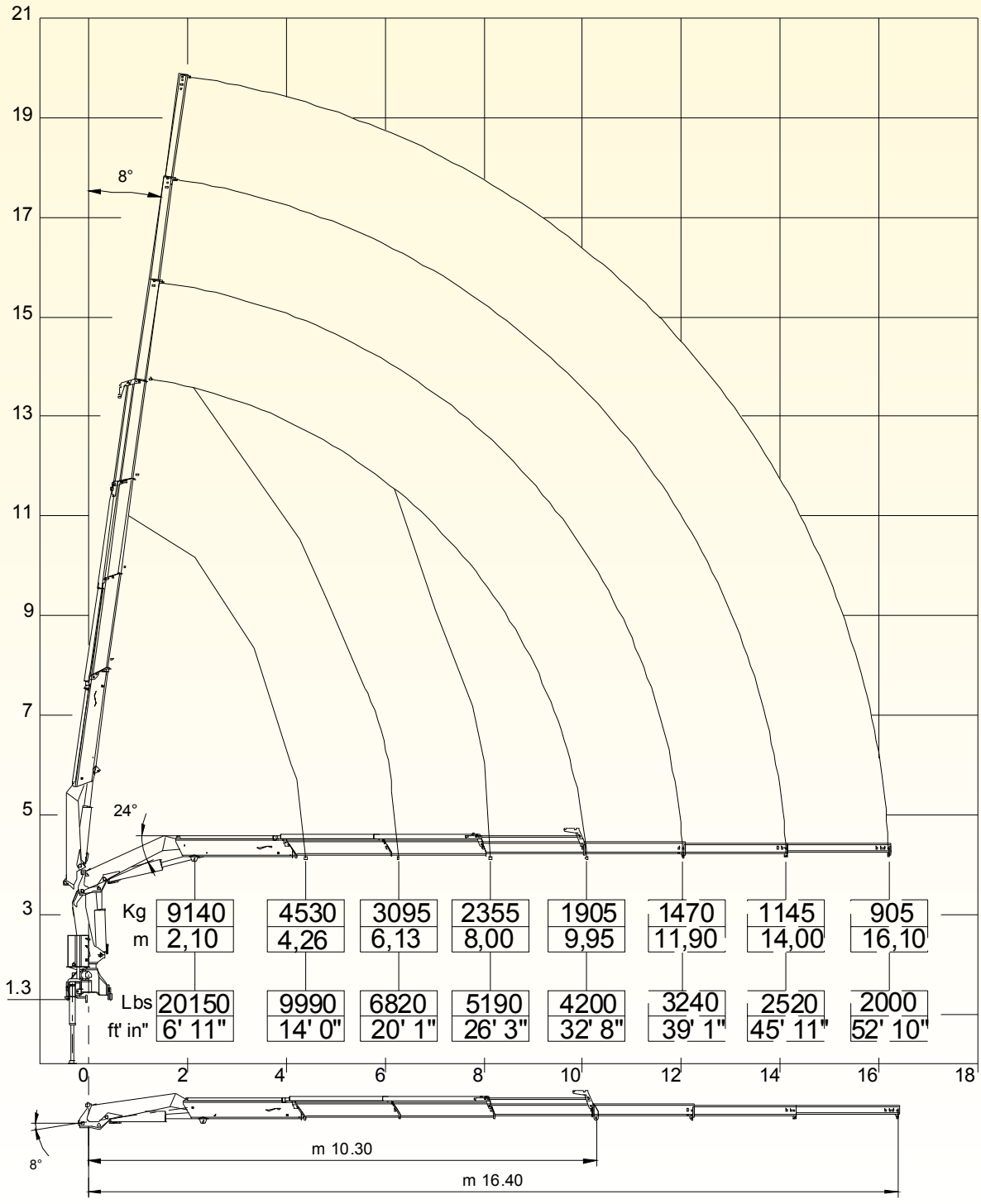

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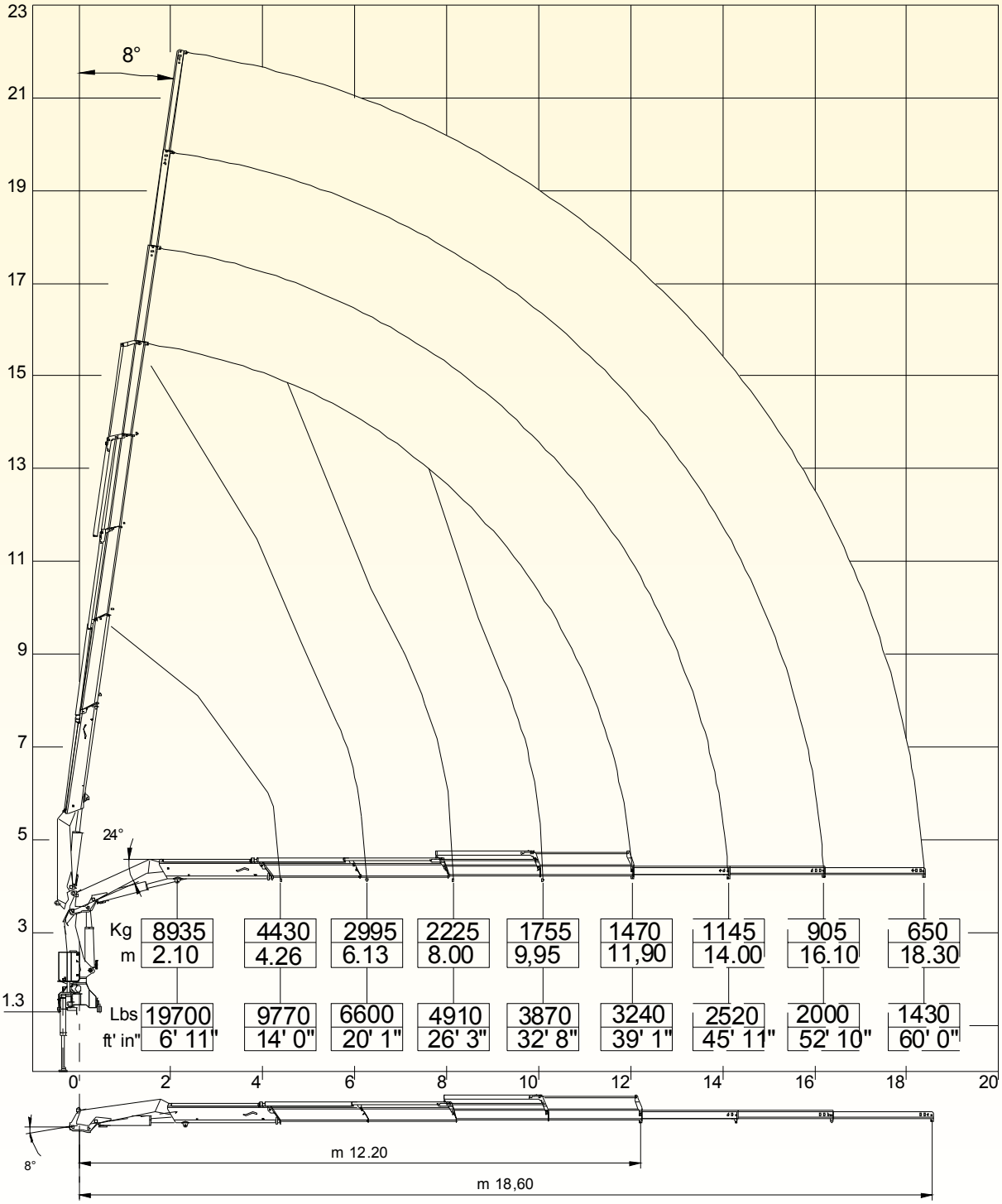

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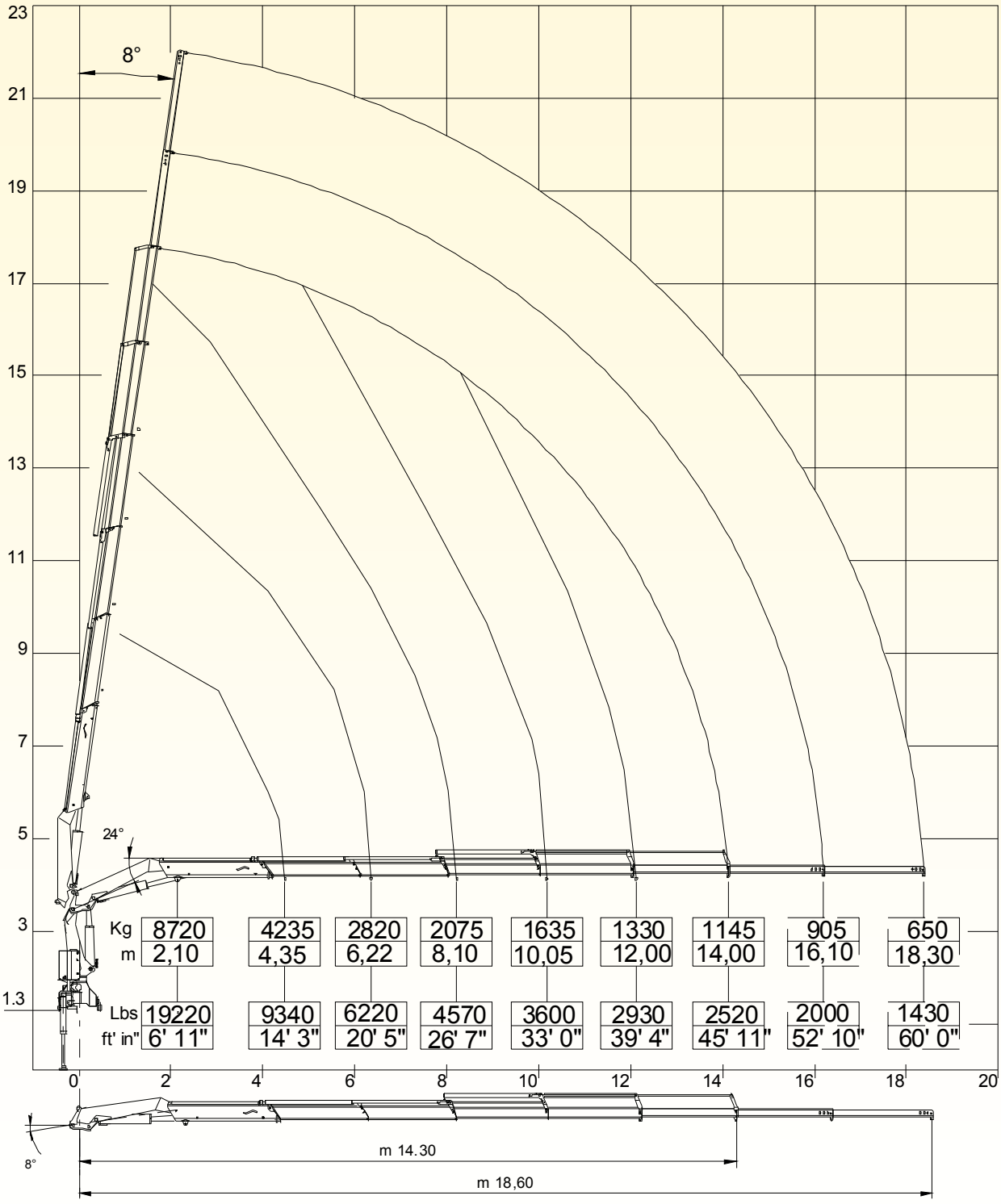

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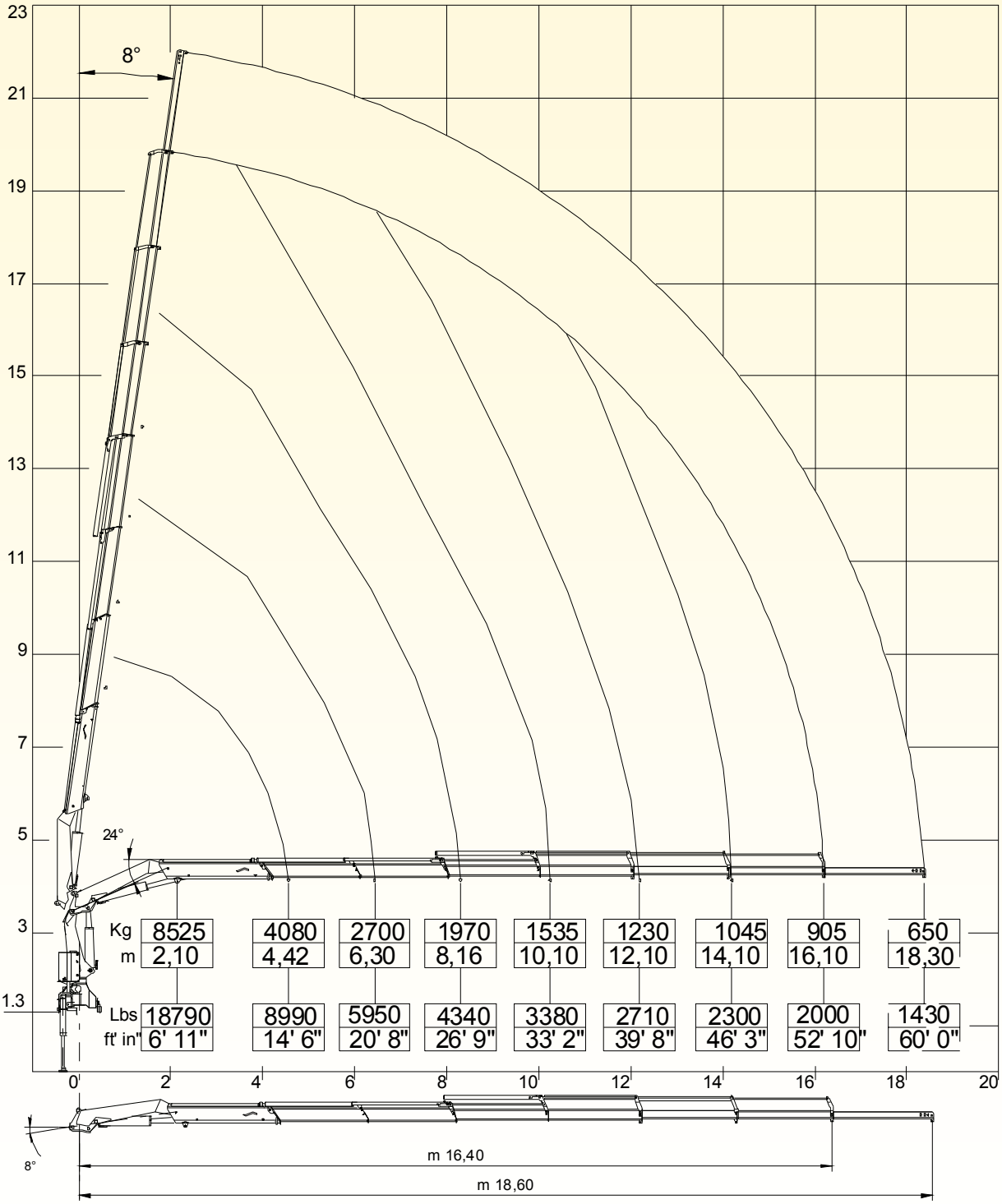

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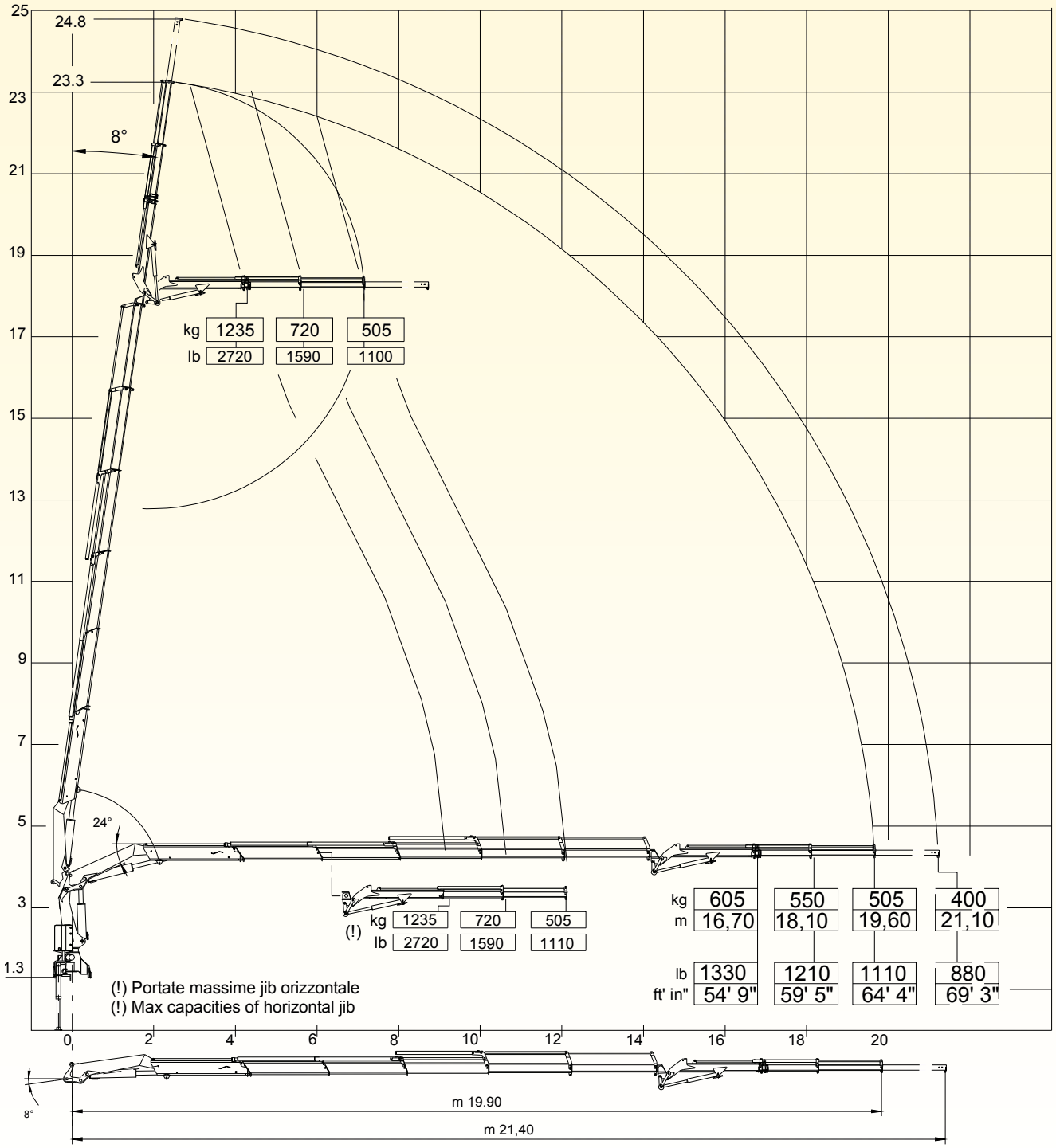
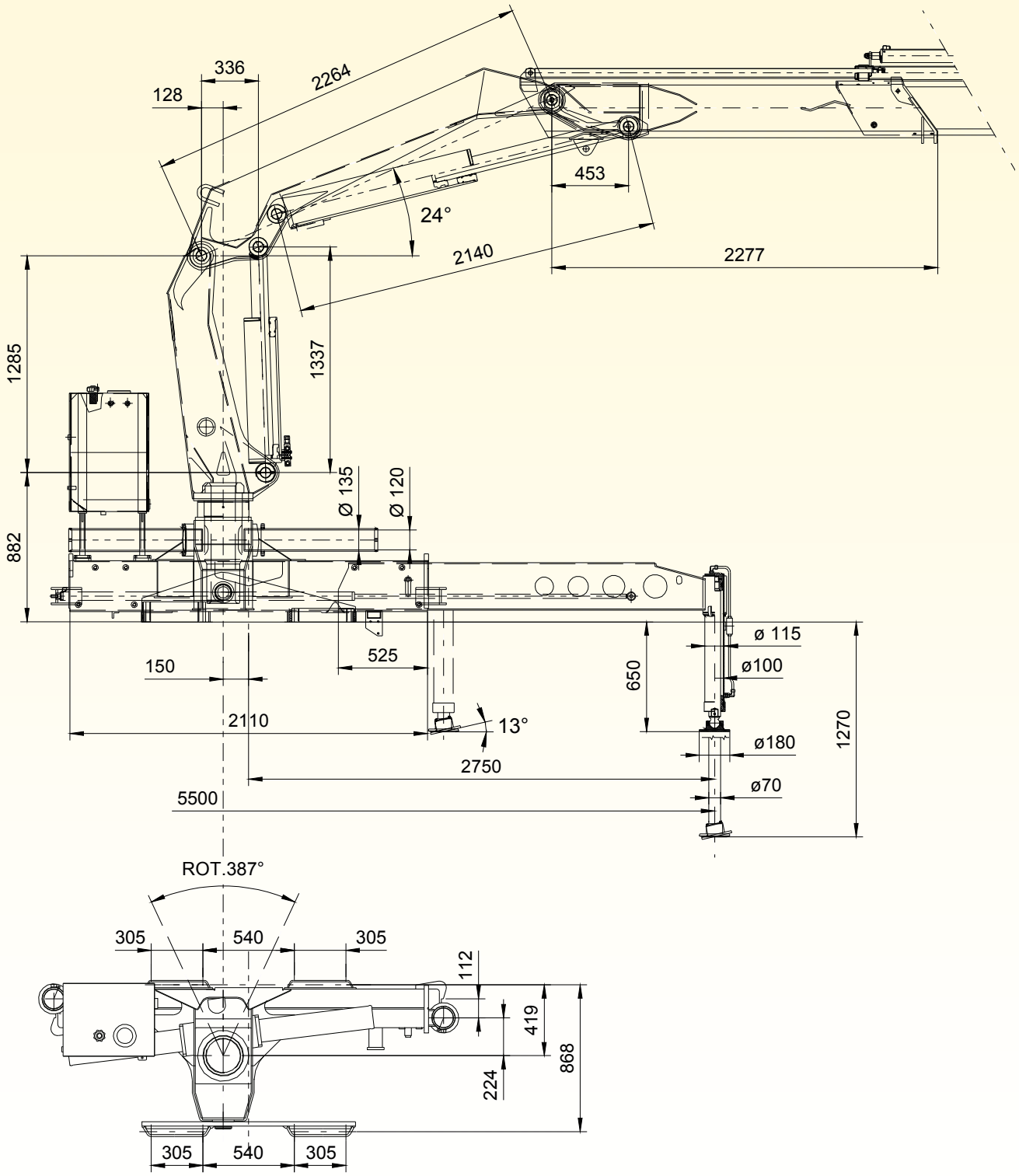


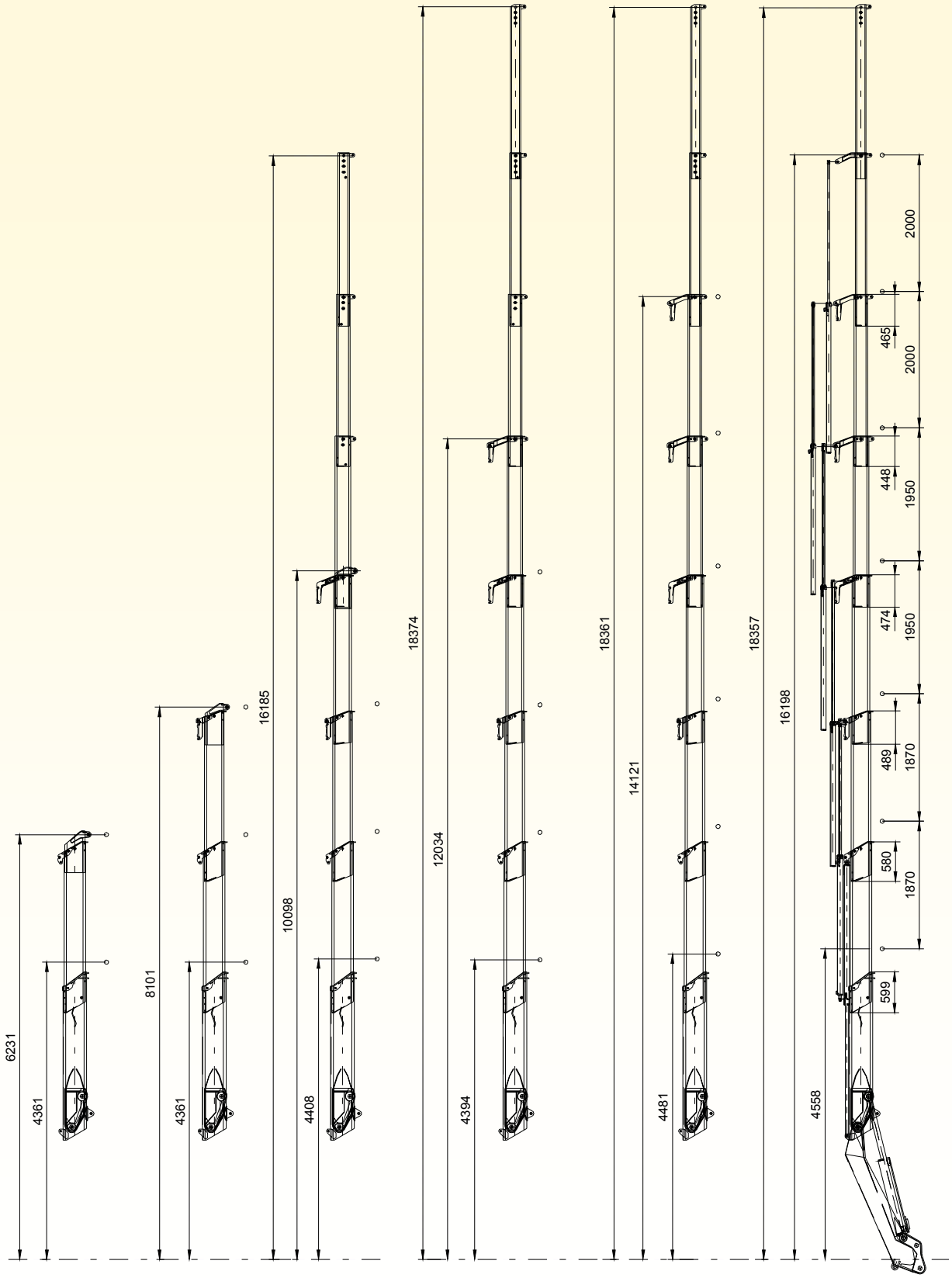
HB200-HB230 TECHNICAL SHEET

BASE – COLUMN – 1ST AND 2ND BOOM DIMENSION



EXTENSIONS DIMENSIONS

2ND BOOM DIMENSION



CYLINDERS AND PINS DIMENSIONS

LIFTING CYLINDER

Cylinder bore	170
Cyl. ext. diameter	195
Rod diameter	100 - 48
Centers (open)	1639.5
Centers (closed)	1001.5
Stroke	638
Artic. pin ∅	7/8" - 14
Pin material	60
Cylinder bore	39NiCrMo3 QT

ARTICULATION CYLINDER

Cylinder bore	170
Cyl. ext. diameter	195
Rod diameter	100 - 48
Centers (open)	2198
Centers (closed)	1280
Stroke	918
Artic. pin ∅	7/8" - 14
Pin material	60
Cylinder bore	39NiCrMo3 QT

1ST EXTENSION CYLINDER

Cylinder bore	70
Cyl. ext. diameter	80
Rod diameter	50 - 0
Centers (open)	4014
Centers (closed)	2144
Stroke	1870
Artic. pin ∅	7/8" - 14
Pin material	25
Cylinder bore	39NiCrMo3 QT

2ND EXTENSION CYLINDER

Cylinder bore	70
Cyl. ext. diameter	80
Rod diameter	45 - 30
Centers (open)	2009
Centers (closed)	139
Stroke	1870
Artic. pin ∅	7/8" - 14
Pin material	25
Cylinder bore	39NiCrMo3 QT

3RD - 4TH EXTENSION CYLINDER

Cylinder bore	65
Cyl. ext. diameter	75
Rod diameter	40 - 25
Centers (open)	2094.5
Centers (closed)	144.5
Stroke	1950
Artic. pin ∅	7/8" - 14
Pin material	25
Cylinder bore	39NiCrMo3 QT

5TH EXTENSION CYLINDER

Cylinder bore	60
Cyl. ext. diameter	70
Rod diameter	35 - 25
Centers (open)	2104
Centers (closed)	104
Stroke	2000
Artic. pin ∅	7/8" - 14
Pin material	25
Cylinder bore	39NiCrMo3 QT

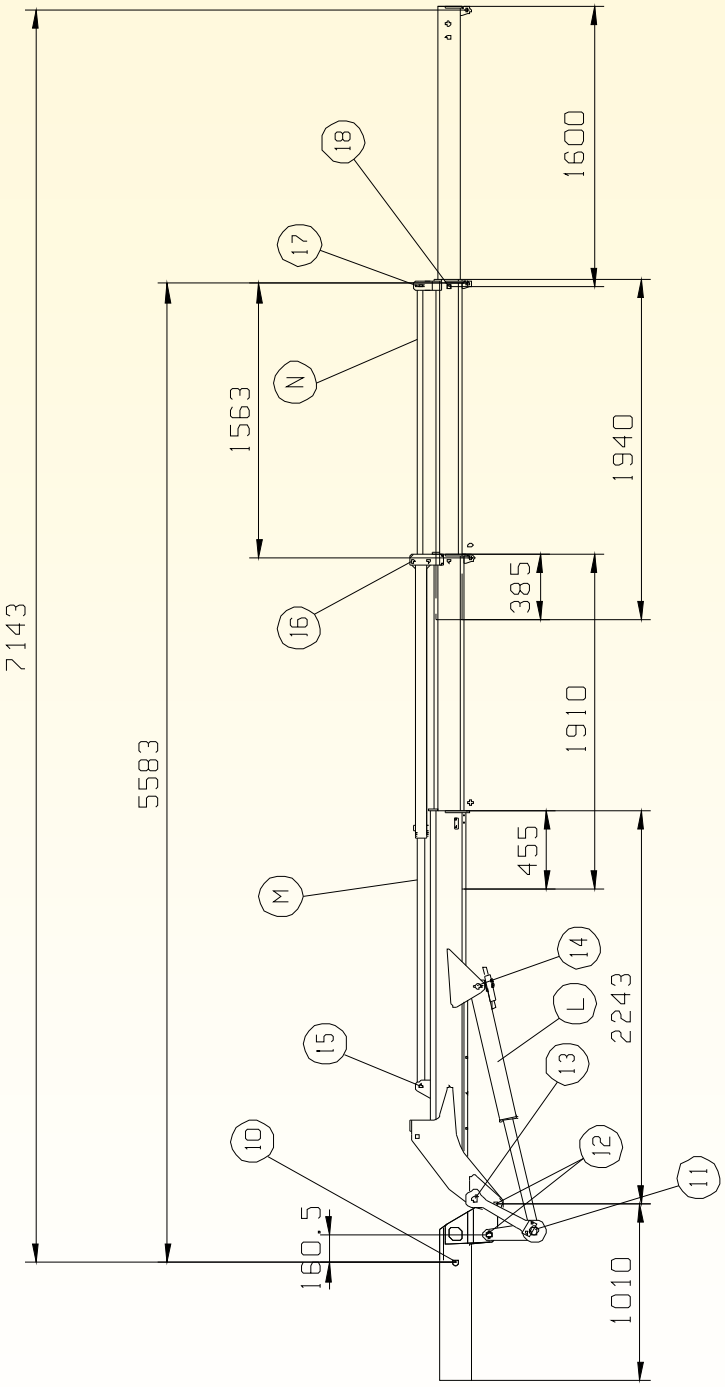
6TH EXTENSION CYLINDER

Cylinder bore	60
Cyl. ext. diameter	70
Rod diameter	30 - 0
Centers (open)	2100
Centers (closed)	100
Stroke	2000
Artic. pin ∅	7/8" - 14
Pin material	25
Cylinder bore	39NiCrMo3 QT

ROTATION CYLINDER

Cylinder bore	120
Cyl. ext. diameter	133
Rod diameter	-
Centers (open)	-
Centers (closed)	-
Stroke	675
Artic. pin ∅	-
Pin material	-
Cylinder bore	-

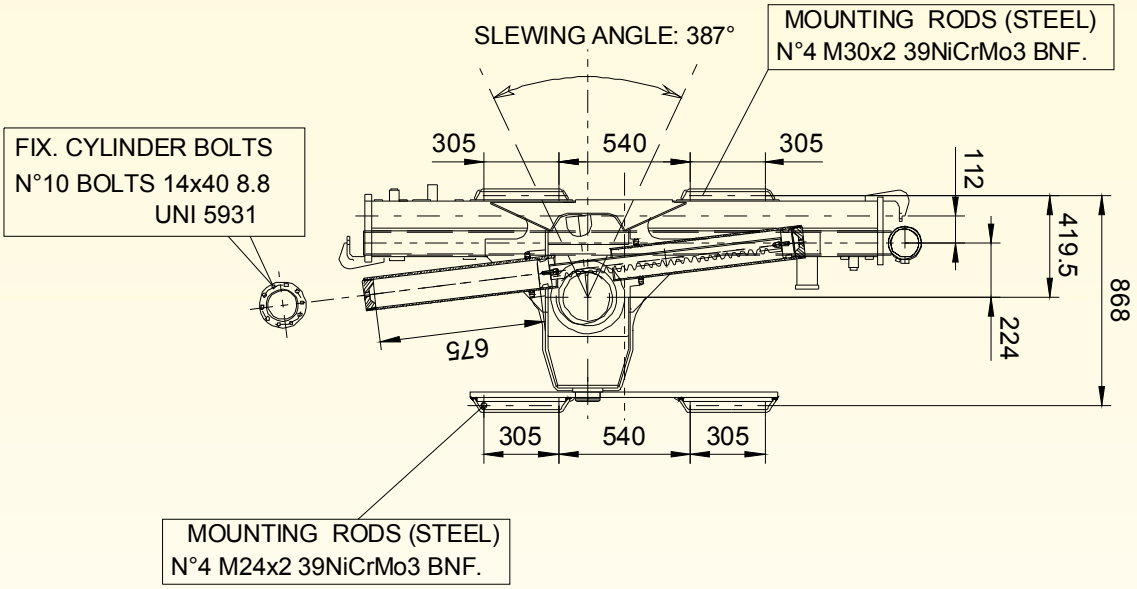
JIB DIMENSIONS



CYLINDER DIMENSIONS

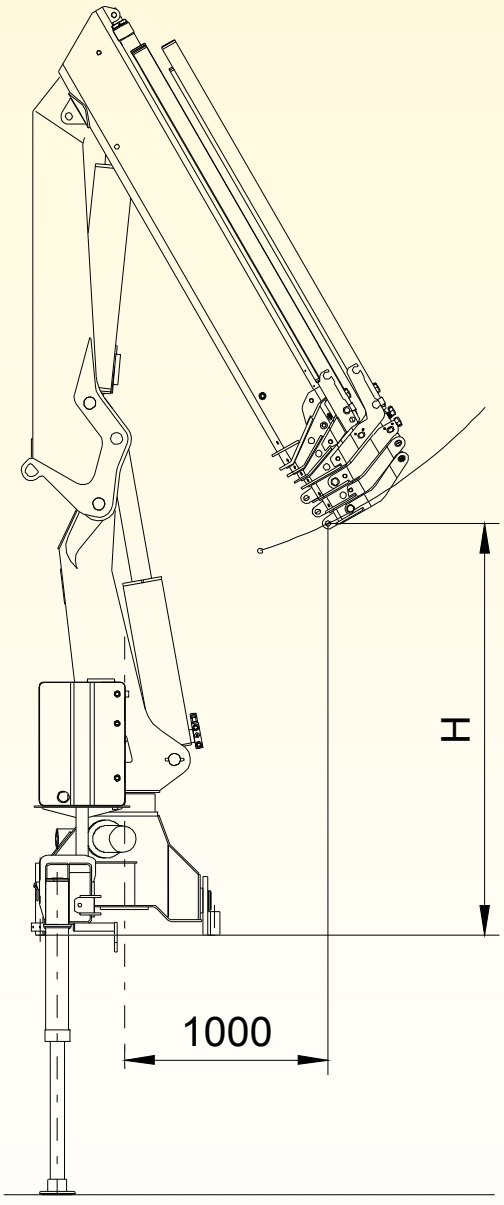
N°	DIAMETER	MATERIAL		L	M	N
10	25	42CrMo4				
11	45	39NiCrMo3	CYLINDER BORE	ø80	ø55	ø50
12	30	39NiCrMo3	EXT. DIAMETER	ø90	ø65	ø60
13	30	39NiCrMo3	ROD DIAMETER	ø50	ø40	ø30
14	30	39NiCrMo3	CYLINDER OPEN	1427	2997	1568
15	30	C40 norm.	CYLINDER CLOSE	842	1617	88
16	20	C40	STROKE	585	1380	1480
17	20	42CrMo4				
18	20	42CrMo4				

BASE DIMENSIONS, TIE MOUNTING RODS & ROTATION SCREWS



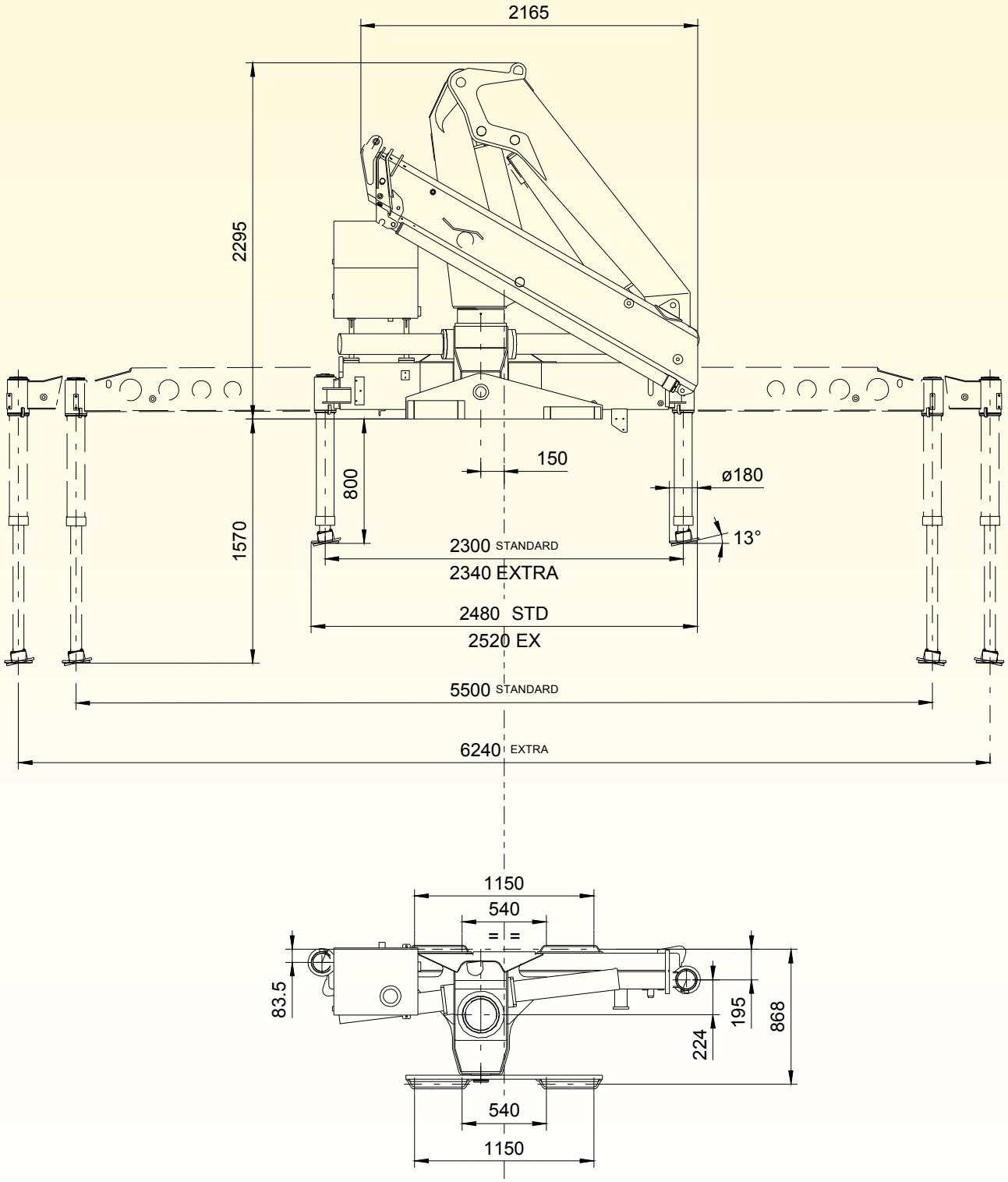
Fixing bolts for 1 rotation cilinder	N°10 M14x40 8.8 UNI 5931 **Tightening torque 80 Nm**

HOOK HEIGHT

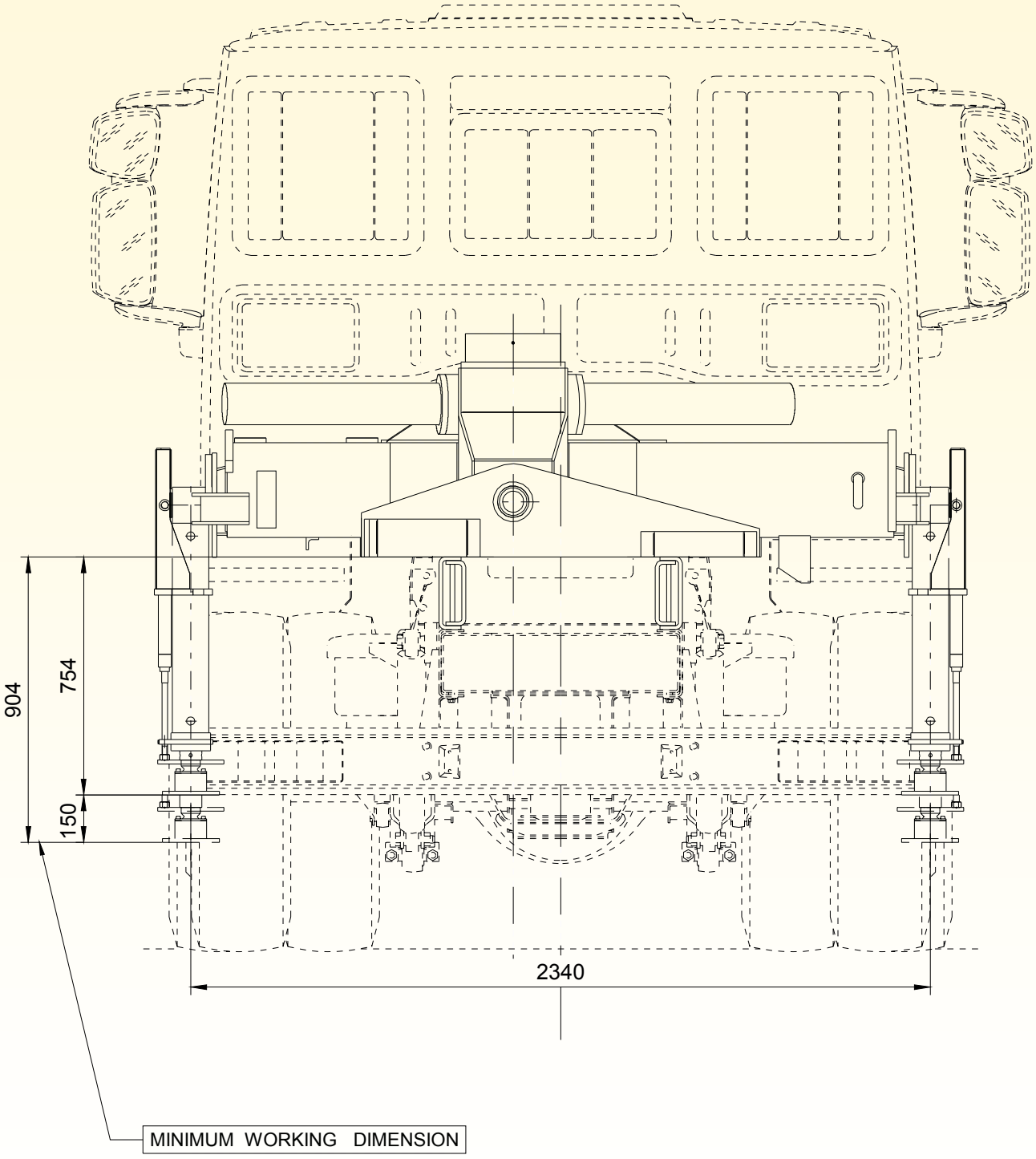


	H (mm)
1S	2300
2S	2250
3S	2200
4S	2200
5S	2130
6S	2070

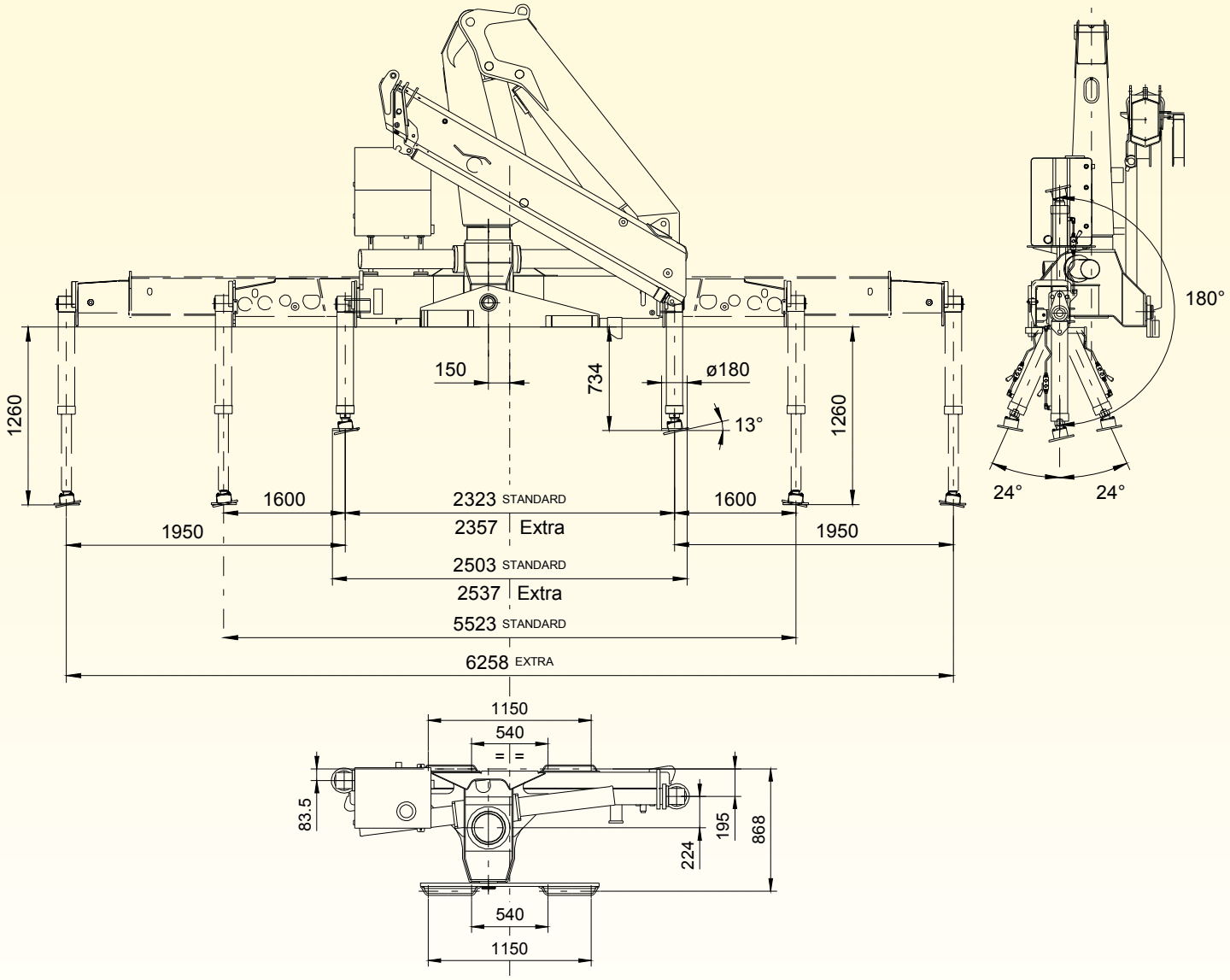
BASE DIMENSIONS WITH LONG STABILIZERS



DIMENSIONS BASE WITH TILTING AUTOMATIC STABILIZERS

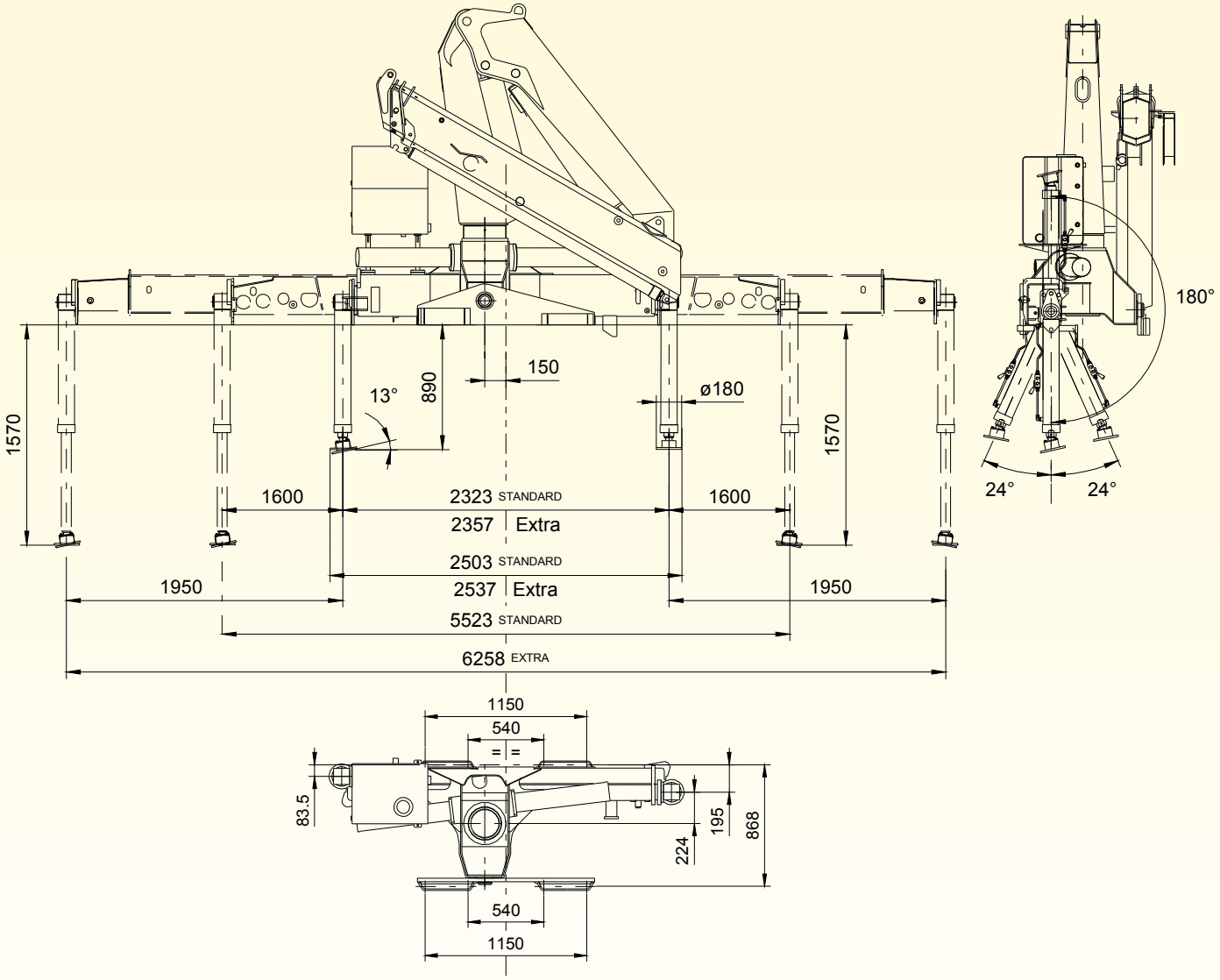


BASE DIMENSIONS WITH TILTING STANDARD STABILIZERS

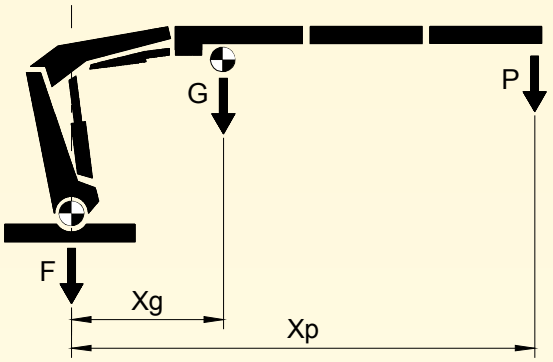


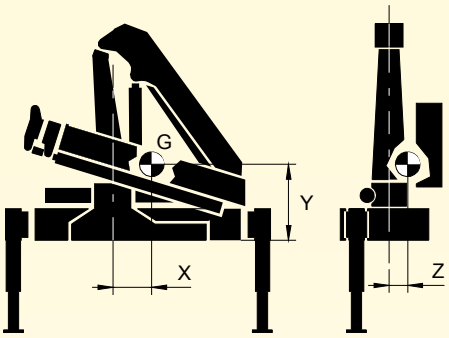
HB200-HB230 TECHNICAL SHEET

BASE DIMENSIONS WITH TILTING LONG STABILIZERS



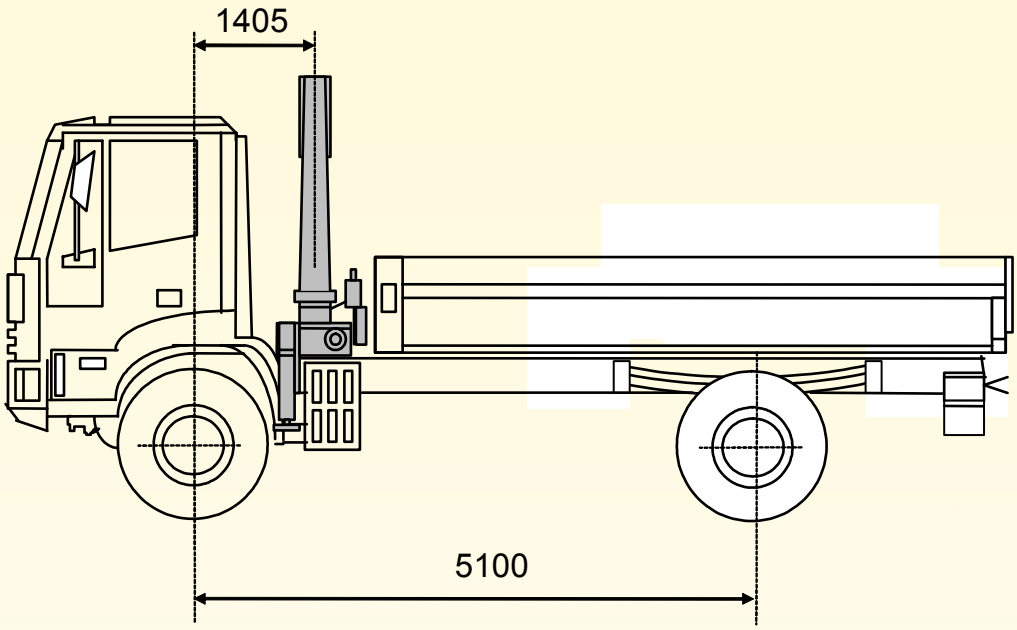
WEIGHTS – CENTER OF GRAVITY





HB200	F kg	G kg	Xg m	P kg	Xp m	TL kg	(X; Y; Z) mm
E1	STD: 1400 EX: 1470	880	2.05	3200	6.13	**3899**	(195; 750; 0)
E2		1030	2.70	2325	8.00	**2860**	(200; 765; 20)
E3		1170	3.35	1740	9.95	**2167**	(205; 780; 40)
E4		1300	4.07	1325	11.90	**1679**	(205; 790; 55)
E5		1400	4.75	1005	14.00	**1301**	(205; 800; 70)
E6		1500	5.40	775	16.10	**1031**	(205; 805; 80)
E5J2		1735	6.76	450	19.60	**660**	(180; 900; 100)

HB230	F kg	G kg	Xg m	P kg	Xp m	TL kg	(X; Y; Z) mm
E1	STD: 1430 EX: 1500	880	2.05	3370	6.13	**4103**	(195; 750; 0)
E2		1030	2.70	2490	8.00	**3058**	(200; 765; 20)
E3		1170	3.35	1905	9.95	**2365**	(205; 780; 40)
E4		1300	4.07	1470	11.90	**1853**	(205; 790; 55)
E5		1400	4.75	1145	14.00	**1469**	(205; 800; 70)
E6		1500	5.40	905	16.10	**1187**	(205; 805; 80)
E5J2		1735	6.76	505	19.60	**726**	(180; 900; 100)



GVW = 19 ton

CHASSIS DATA

Front axle

Front axle tare weight = 5530 kg
Allowable front axle weight = 8000 kg

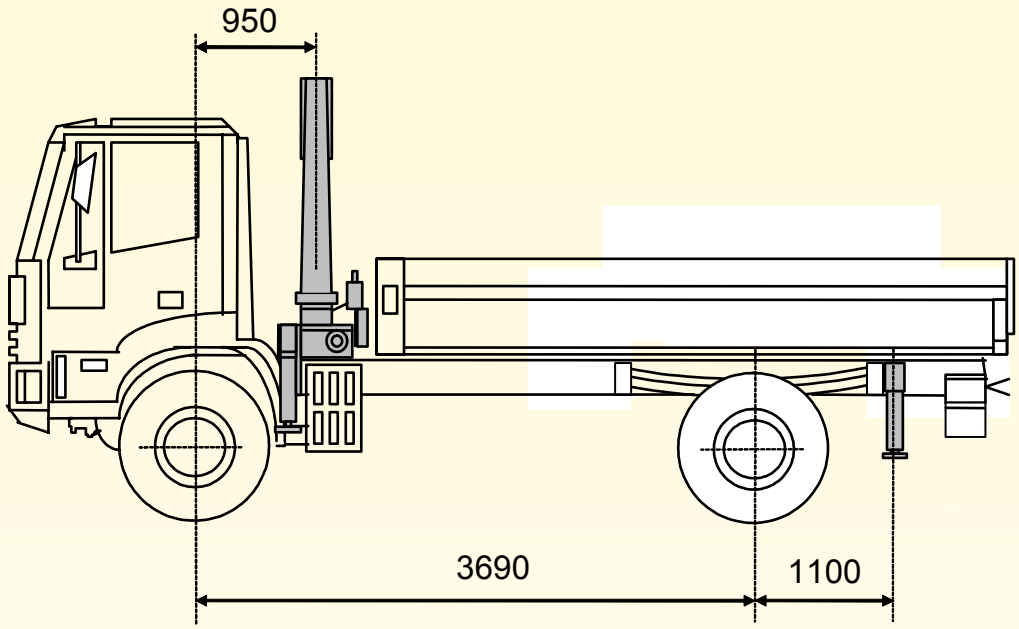
Rear axle

Rear axle tare weight = 2320 kg

OUTFIT WEIGHTS

Body weight = 600 kg
Crane weight = 2900 kg (HB200 E6)
Counterframe weight = 200 kg

Stability index = 1.60



GVW = 17 ton

CHASSIS DATA

Front axle

Front axle tare weight = 3480 kg
Allowable front axle weight = 7500 kg

Rear axle

Rear axle tare weight = 1930 kg

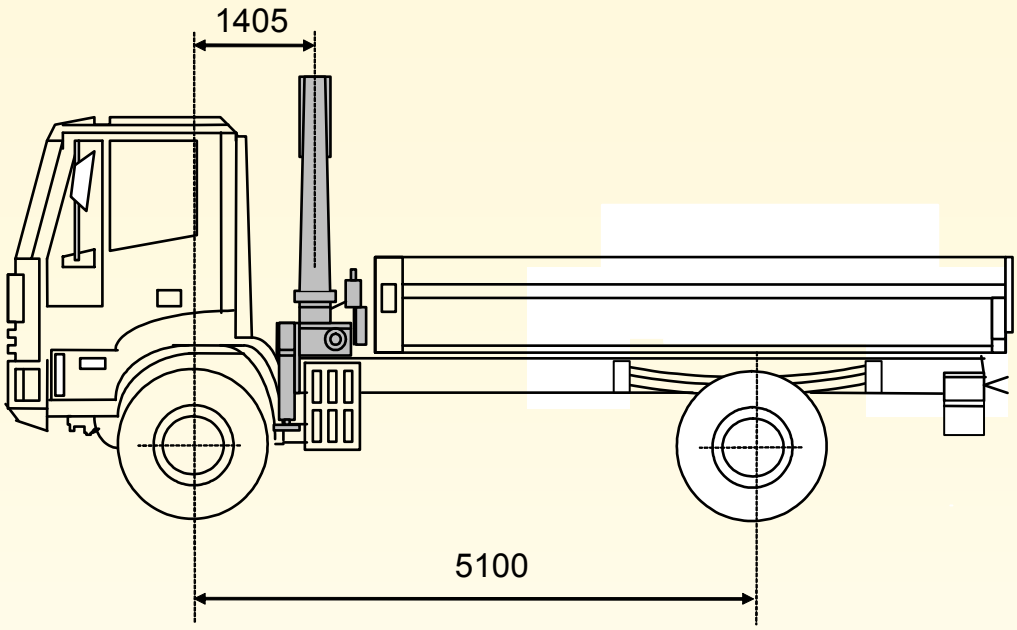
OUTFIT WEIGHTS

Body weight = 600 kg
Crane weight = 2900 kg (HB200 E6)
Counterframe weight = 380 kg

Rear beam stabilizers

Min. width = 3000 mm
Rear stabilizer weight = 250 kg

Stability index = 1.5



GVW = 19 ton

CHASSIS DATA

Front axle

Front axle tare weight = 5530 kg
Allowable front axle weight = 8000 kg

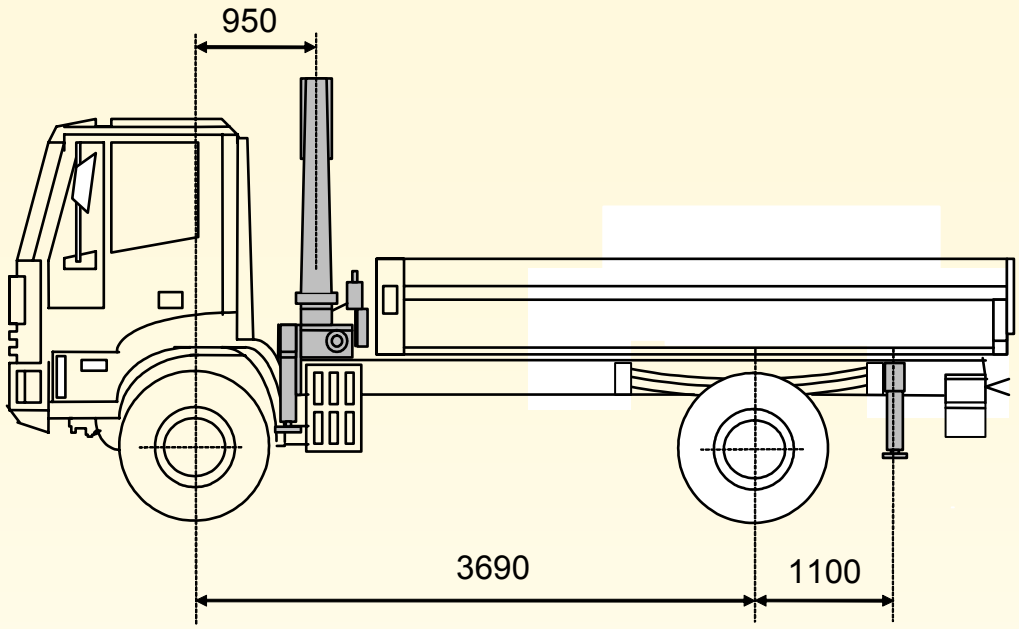
Rear axle

Rear axle tare weight = 2320 kg

OUTFIT WEIGHTS

Body weight = 700 kg
Crane weight = 2930 kg (HB230 E6)
Counterframe weight = 2110 kg

Stability index = 1.45



GVW = 17 ton

CHASSIS DATA

Front axle

Front axle tare weight = 3480 kg
Allowable front axle weight = 7500 kg

Rear axle

Rear axle tare weight = 1930 kg

OUTFIT WEIGHTS

Body weight = 600 kg
Crane weight = 2930 kg (HB230 E6)
Counterframe weight = 420 kg

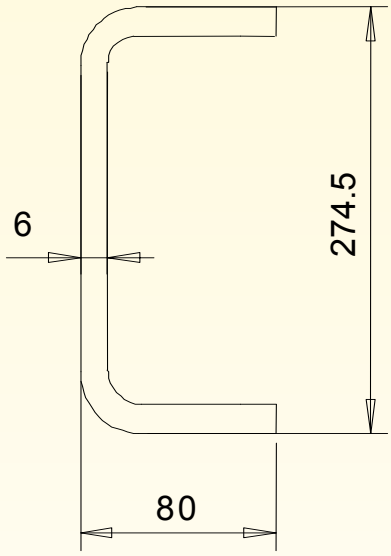
Rear beam stabilizers

Min. width = 3000 mm
Rear stabilizer weight = 250 kg

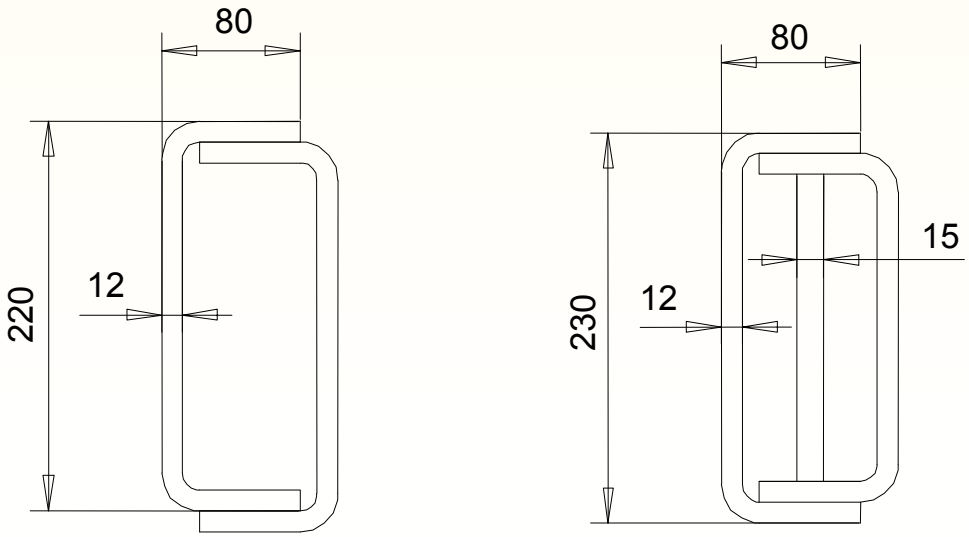
Stability index = 1.35

Max dynamic moment [daNm]	26100

Min frame section (truck GVW = 17 ton ; steel S355)

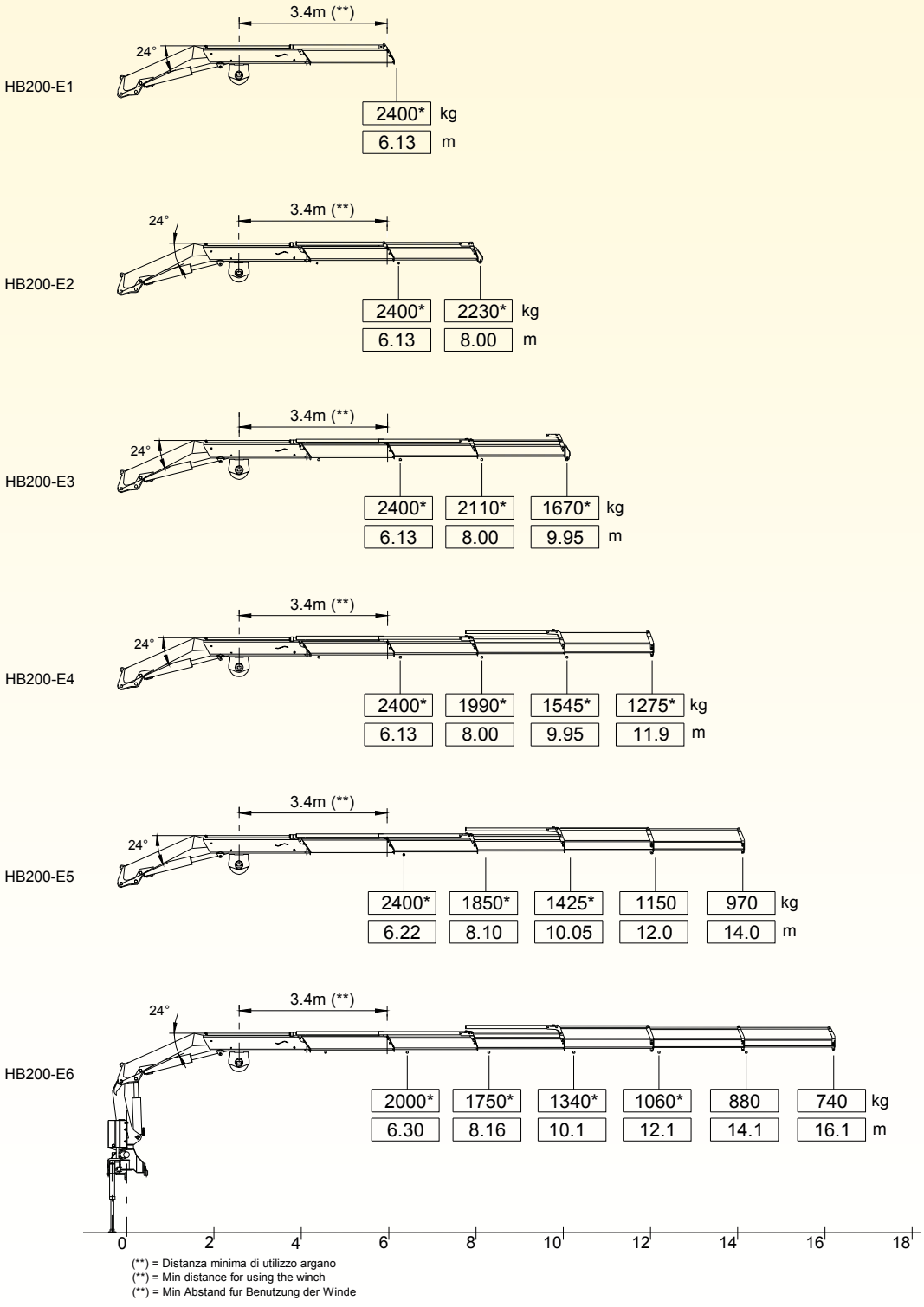


Min counterframe section (steel S355)



HYDRAULIC WINCH DATA

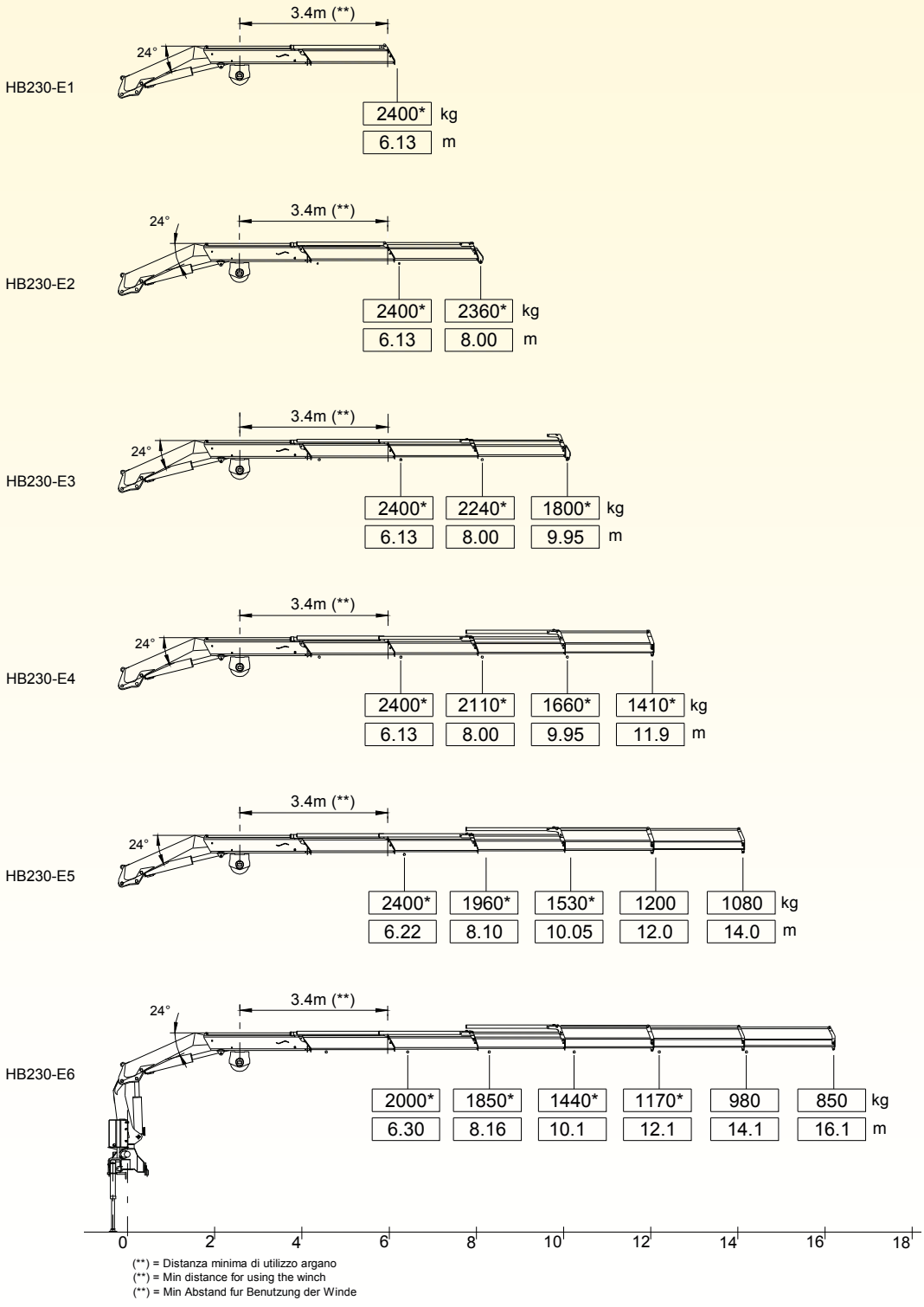
Max winch direct pull [kg] CRANE E1 - E2 - E3 - E4 - E5	1200
Max winch direct pull [kg] CRANE E6	1000



(**) = Distanza minima di utilizzo argano
(**) = Min distance for using the winch
(**) = Min Abstand fur Benutzung der Winde

HYDRAULIC WINCH DATA

Max winch direct pull [kg] CRANE E1 - E2 - E3 - E4 - E5	1200
Max winch direct pull [kg] CRANE E6	1000

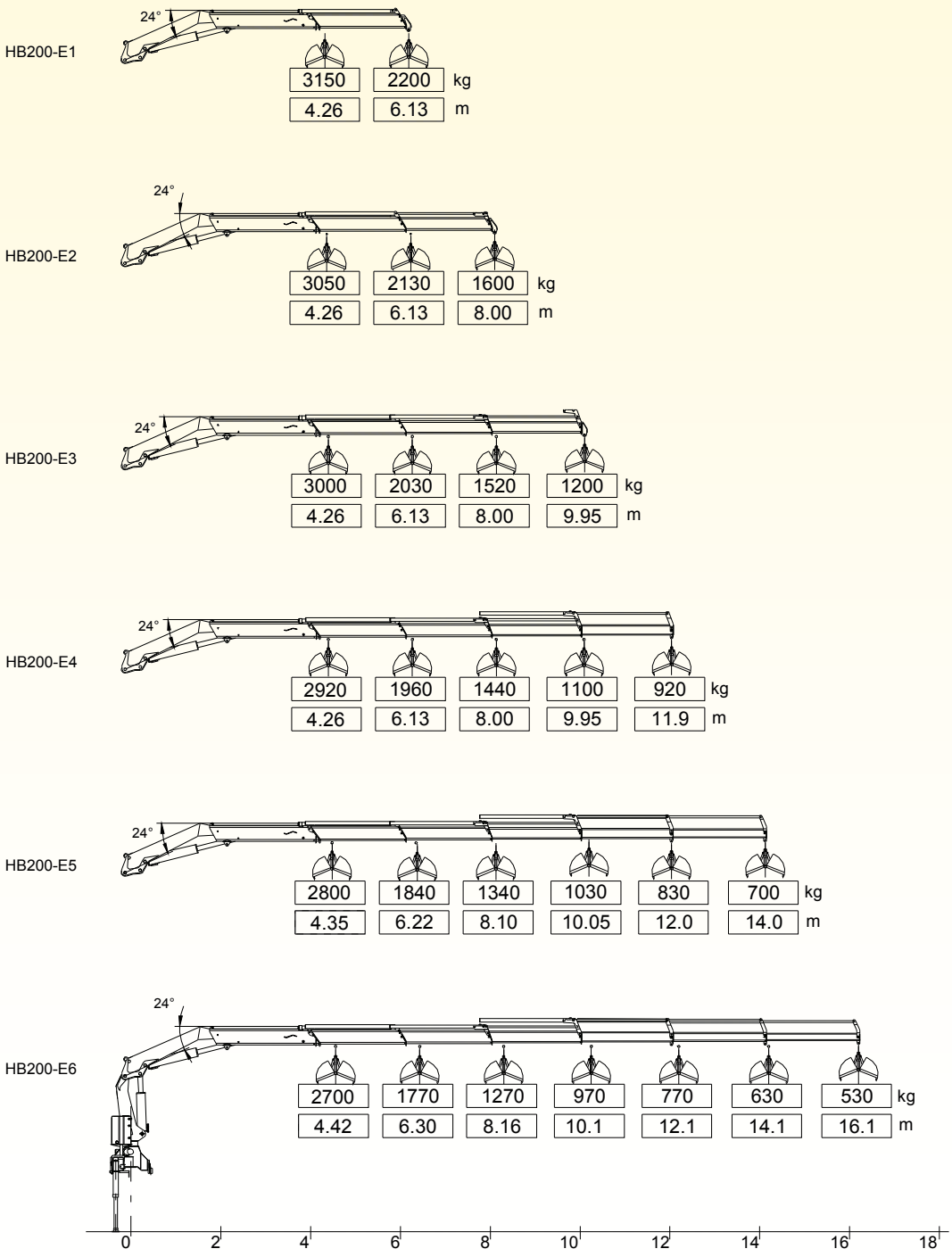


(**) = Distanza minima di utilizzo argano
(**) = Min distance for using the winch
(**) = Min Abstand fur Benutzung der Winde

GRAB - BUCKET DATA

Max allowable weight [kg]	**E1 - E2 - E3** **E4 – E5 – E6**	420 265
Max working pressure [bar]		200

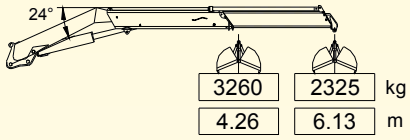
THE CAPACITIES OF THE ACTIVATED CRANES (FOR GRAB OR BUCKET) ARE DERATED BY 30% RESPECT TO THE STANDARD CRANES IT IS THAN NECESSARY TO SUBTRACT THE TOOL"DEAD WEIGHT"



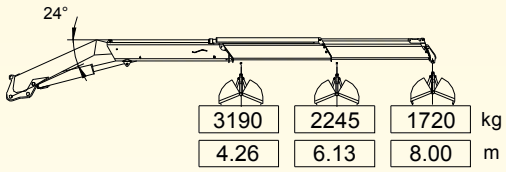
GRAB - BUCKET DATA

Max allowable weight [kg]	**E1 - E2 - E3** **E4 – E5 – E6**	420 265
Max working pressure [bar]		200
THE CAPACITIES OF THE ACTIVATED CRANES (FOR GRAB OR BUCKET) ARE DERATED BY 30% RESPECT TO THE STANDARD CRANES IT IS THAN NECESSARY TO SUBTRACT THE TOOL"DEAD WEIGHT"		

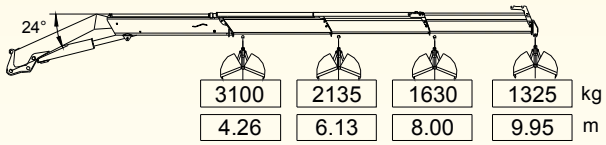
HB230-E1



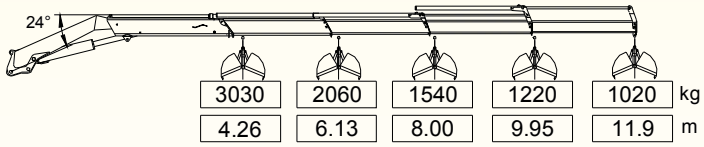
HB230-E2



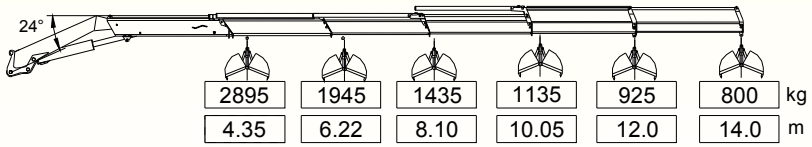
HB230-E3



HB230-E4



HB230-E5



HB230-E6