



# TRUCK MOUNTED CRANE

## HB170

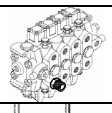
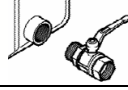


[www.hyvacrane.com](http://www.hyvacrane.com)  
[www.hyva.com](http://www.hyva.com)

<b>Max dynamic moment [daNm]</b>	22400
----------------------------------	-------

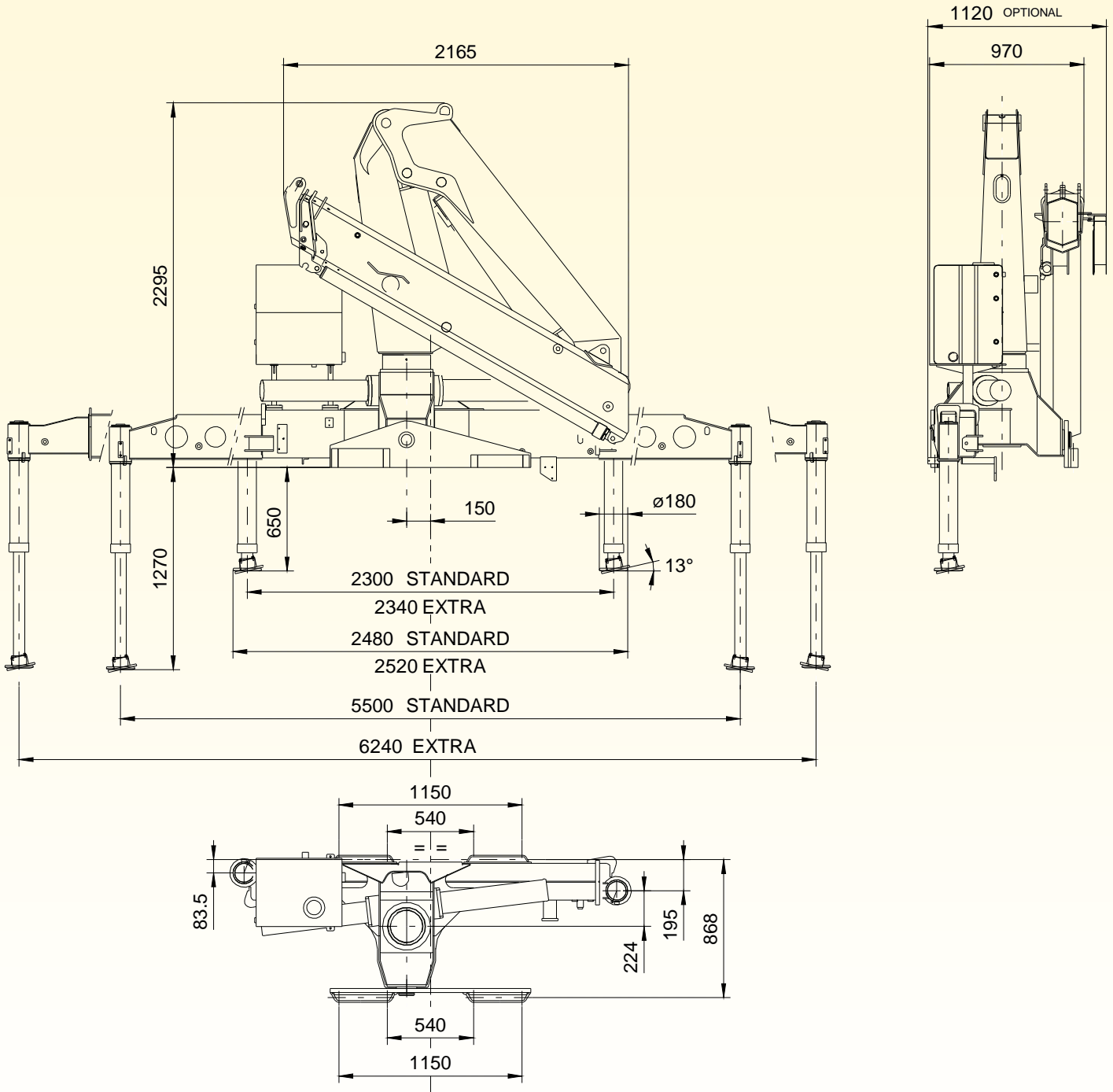
<b>Max capacity [kg]</b>	<b>Version</b>	<b>Q<sub>max</sub></b>
	E1	7470
	E2	7215
	E3	7040
	E4	6900
	E5	6740
	E6	6580

<b>Crane weight [kg]</b>	<b>Version</b>	<b>Stab. STD</b>	<b>Ex</b>
	E1	2130	2200
	E2	2270	2340
	E3	2390	2460
	E4	2510	2580
	E5	2620	2690
	E6	2700	2770
E4J2	2820	2890	

<b>Max force on the stabilizer leg</b>	8300 daN	
<b>Max standard stabilizer pressure on the ground</b>	32 daN/cm <sup>2</sup>	
<b>Max force on the standard stabilizer extra</b>	8000 daN	
<b>Max extra stabilizer pressure on the ground</b>	31 daN/cm <sup>2</sup>	
<b>Max working pressure</b>	310 bar	
<b>Max oil flow to main relief valve</b>	32 dm <sup>3</sup> /min	
<b>Oil tank capacity</b>	130 dm <sup>3</sup>	
<b>Slewing moment</b>	2150 daNm	
<b>Slewing angle</b>	387°	
<b>Absorbed power</b>	19 Kw 26 HP	
<b>Design standard</b>	DIN 15018 EN 12999	
<b>Fittings for connection with pump</b>	<b>NO RDC</b>	<b>RDC</b>
<b>Control valve pressure line</b>	 M7/8" - 14 JIC	M7/8" - 14 JIC
<b>Tank suction line</b>	 F1" 1/2 BSP	F1" 1/2 BSP

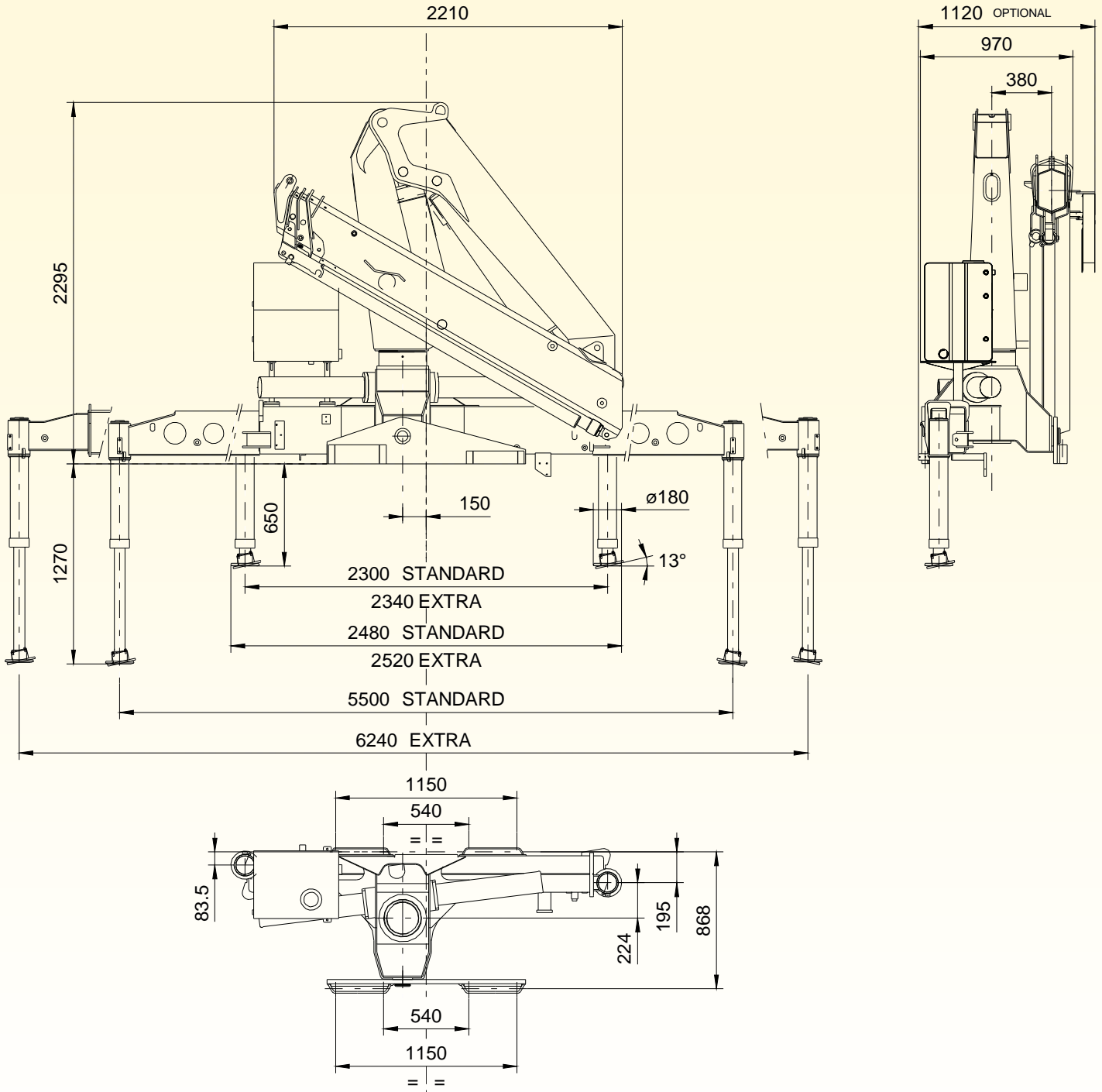
# HB170 TECHNICAL SHEET

## OVERALL DIMENSIONS E1



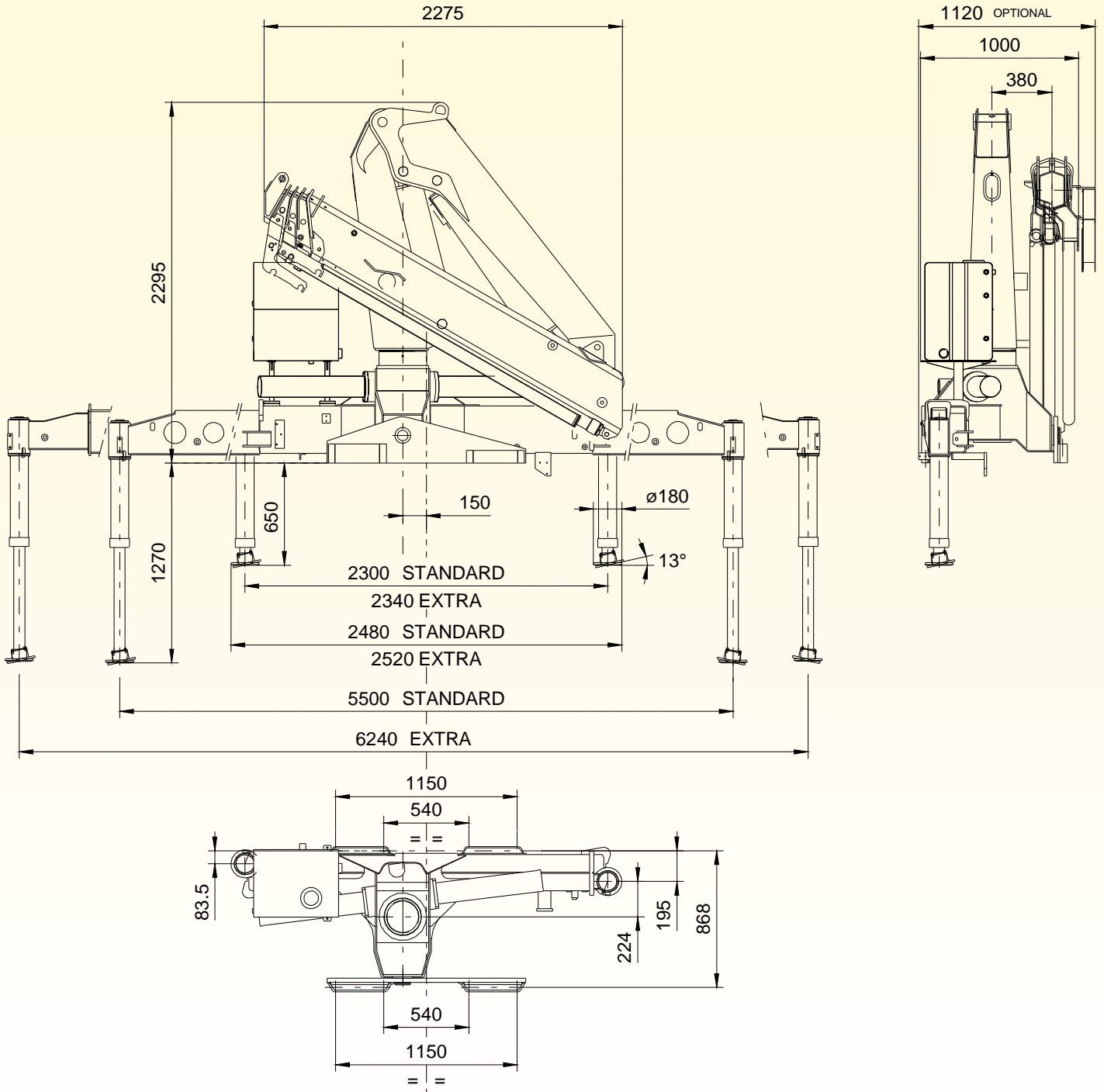
# HB170 TECHNICAL SHEET

## OVERALL DIMENSIONS E2



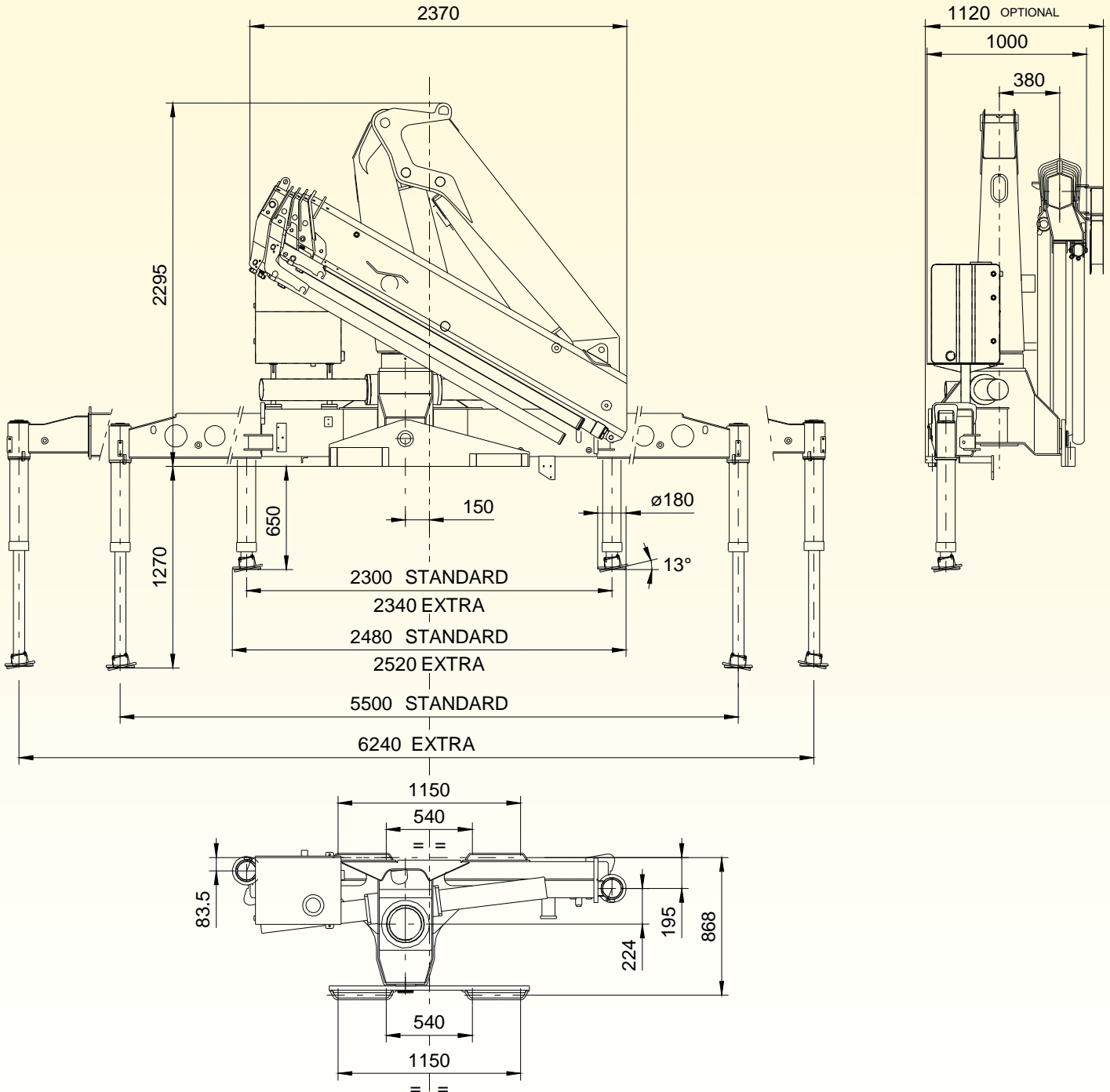
# HB170 TECHNICAL SHEET

## OVERALL DIMENSIONS E3



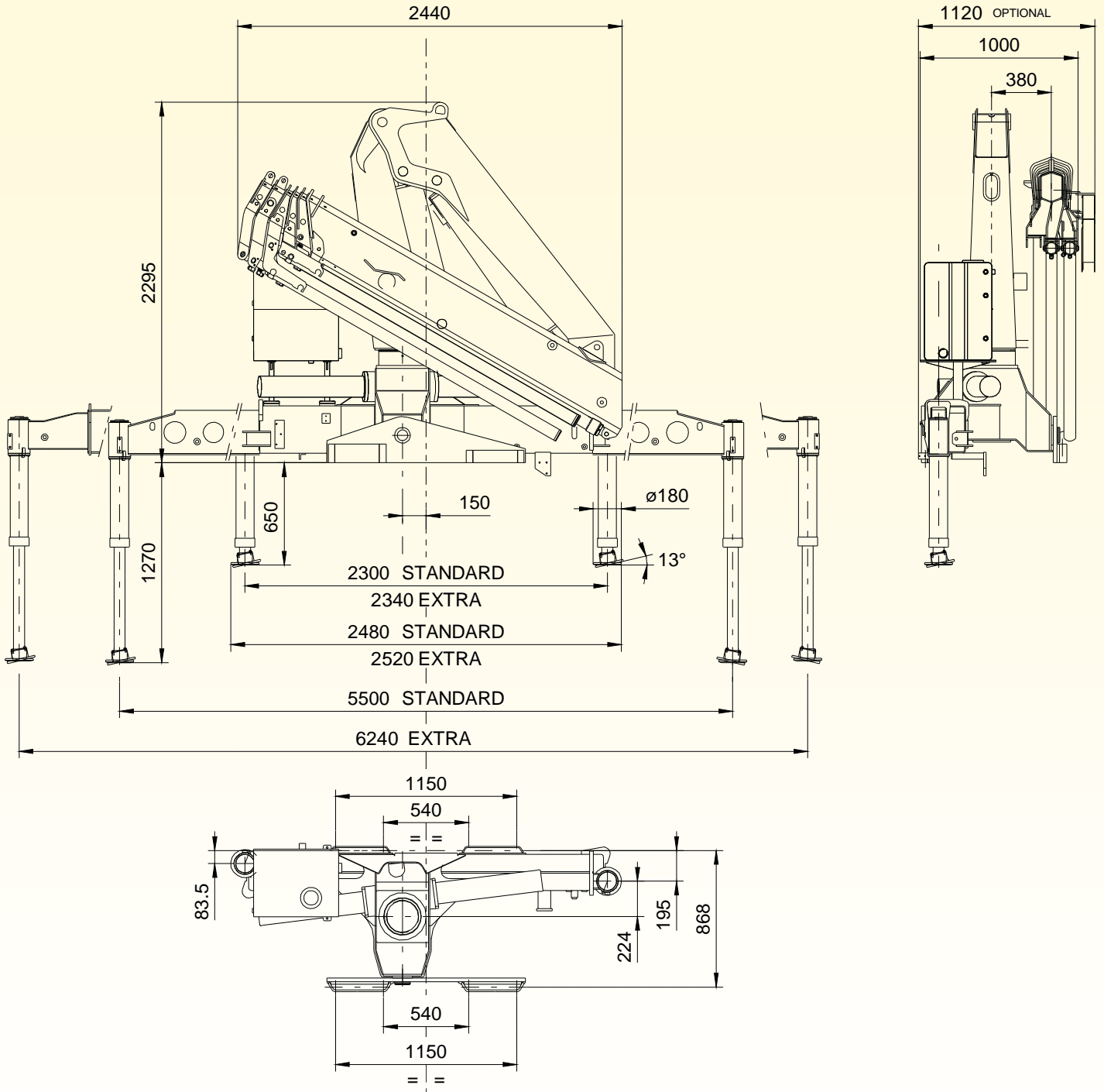
# HB170 TECHNICAL SHEET

## OVERALL DIMENSIONS E4



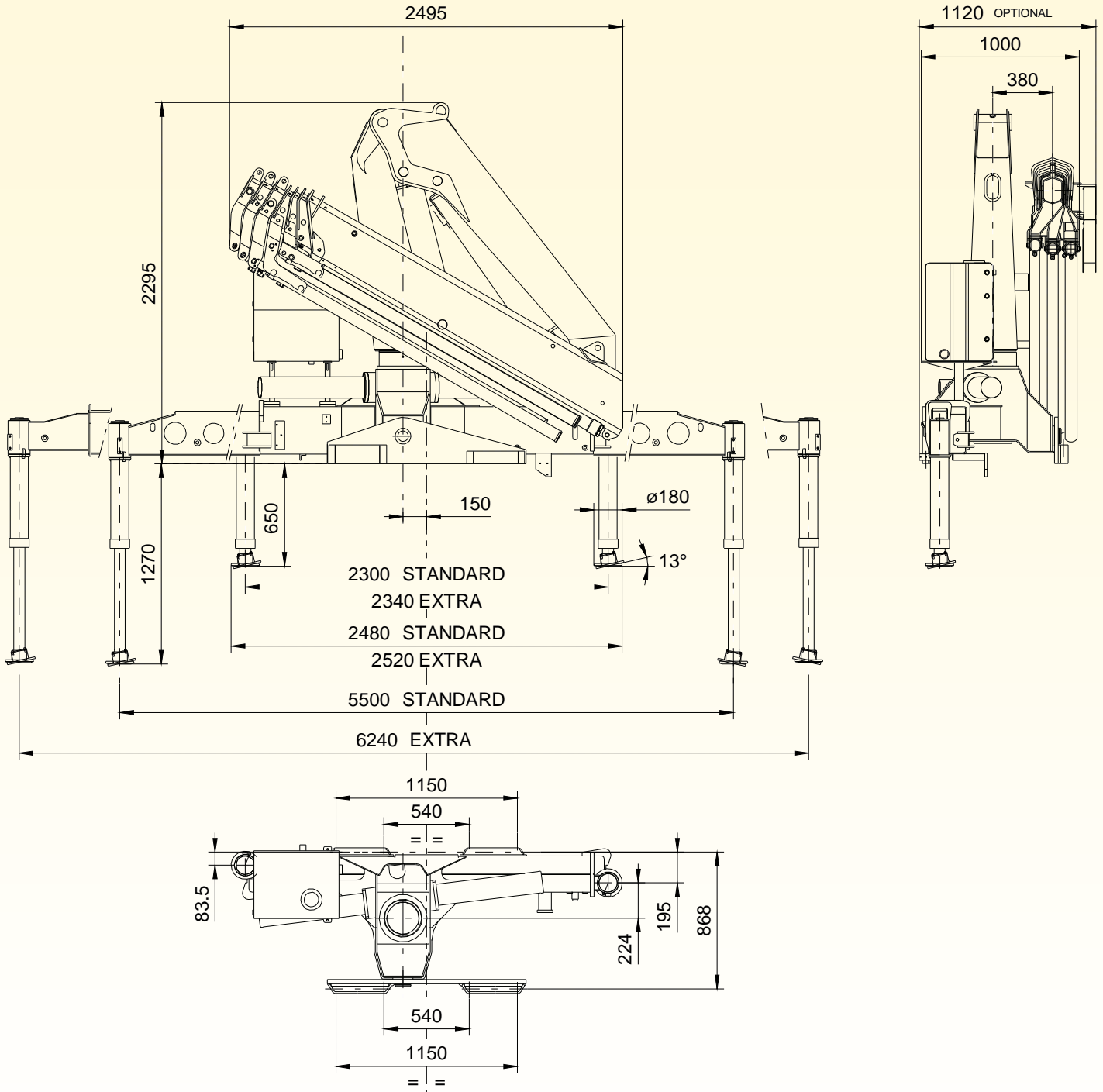
# HB170 TECHNICAL SHEET

## OVERALL DIMENSIONS E5



# HB170 TECHNICAL SHEET

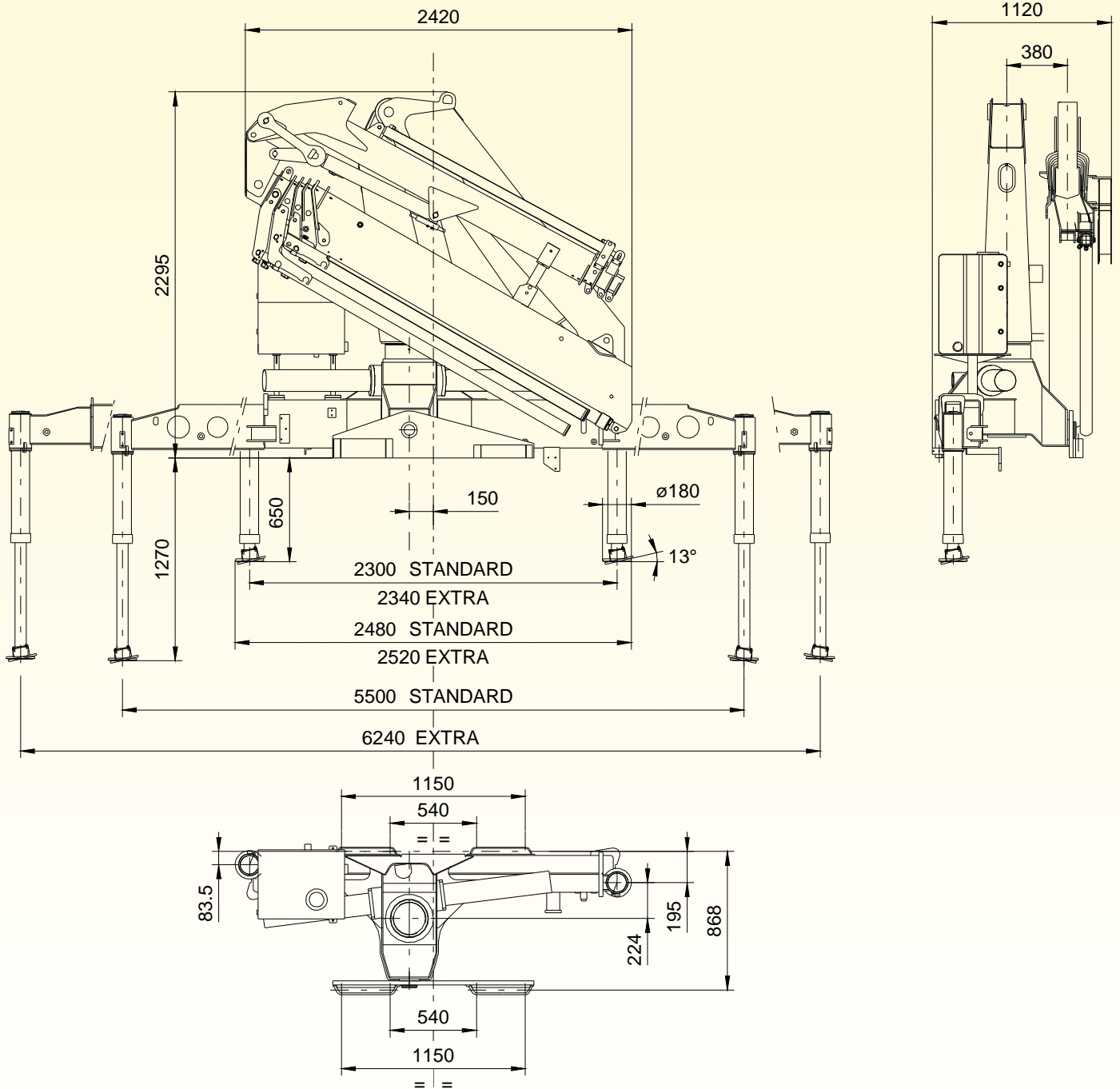
## OVERALL DIMENSIONS E6

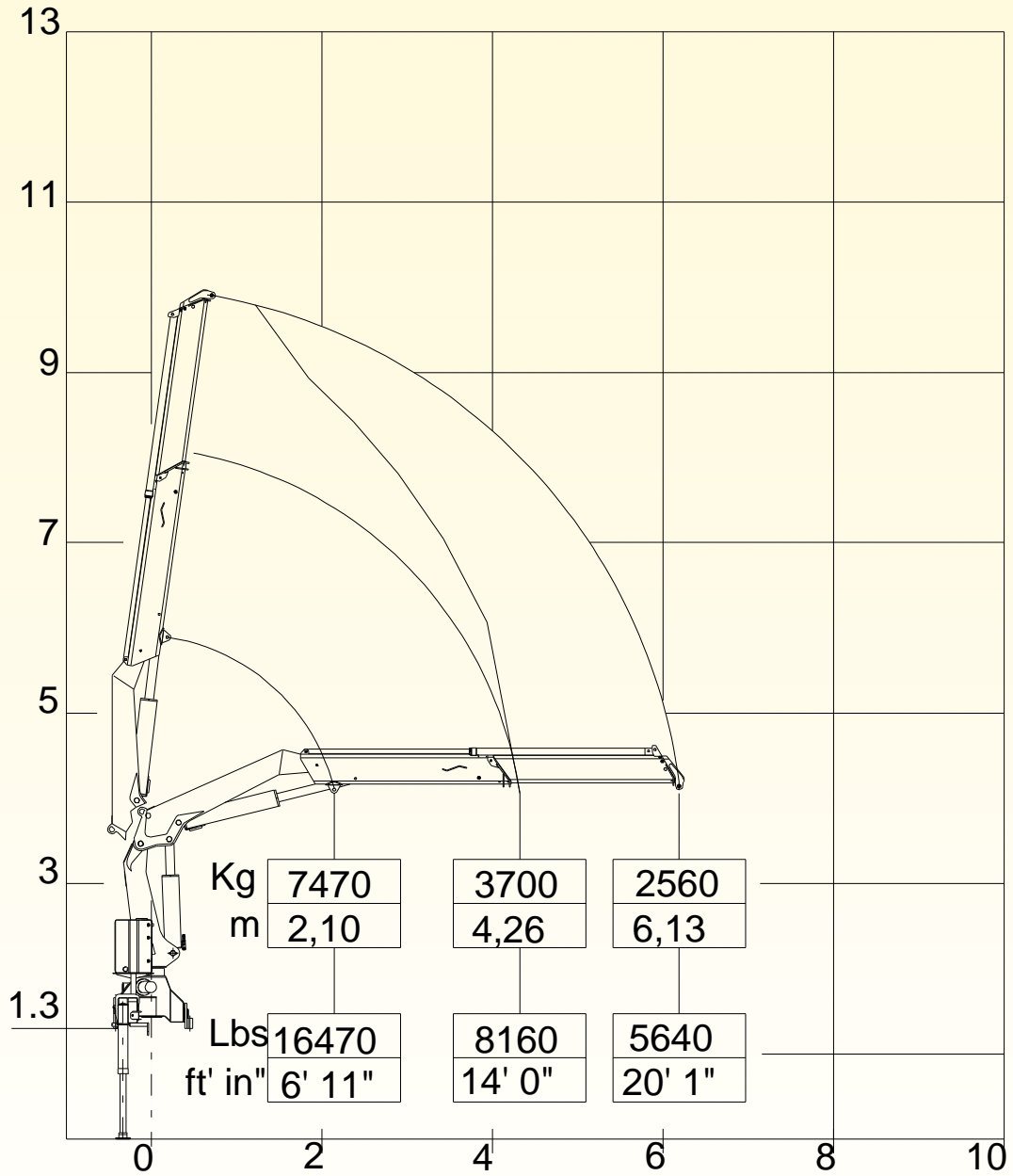


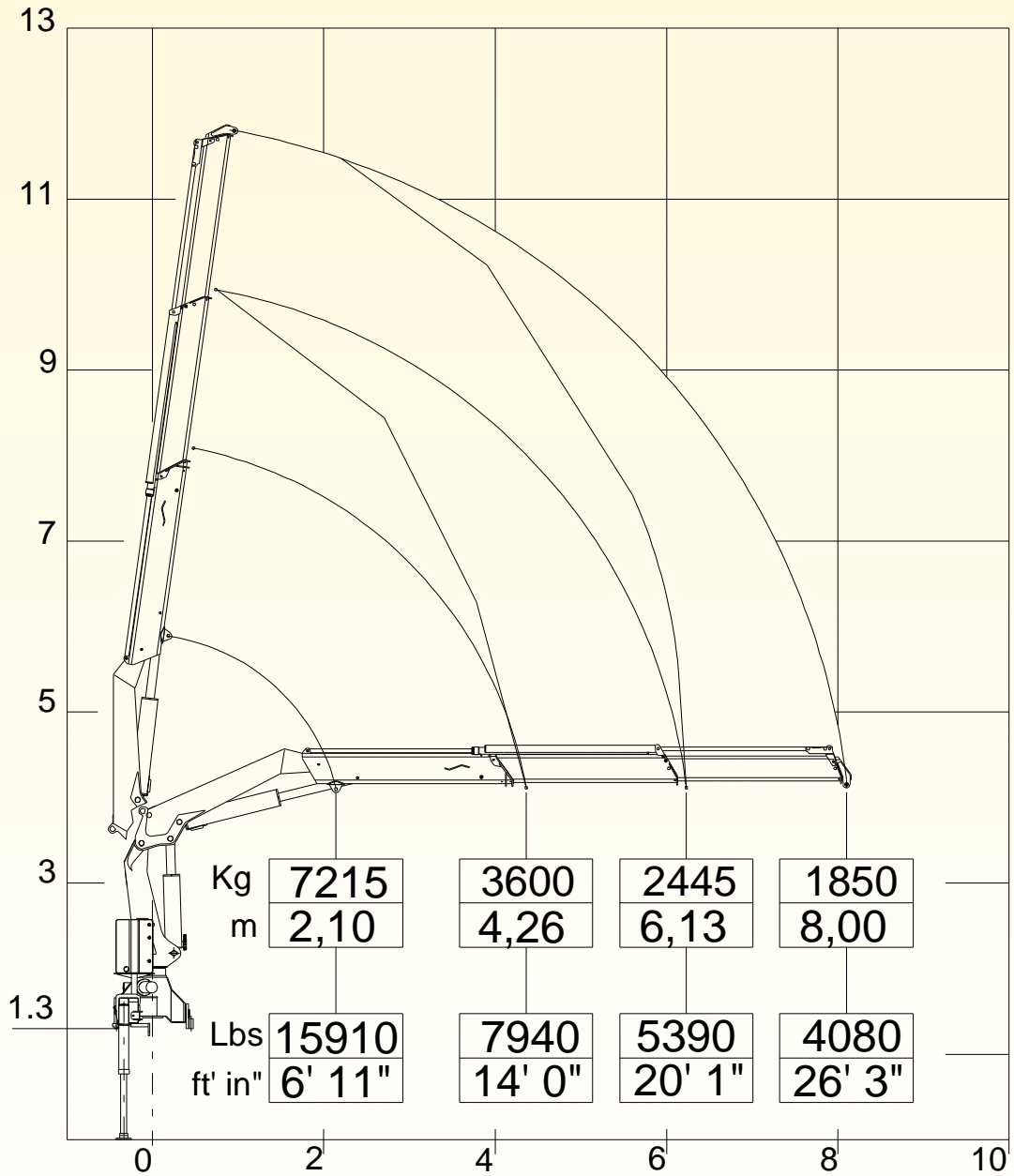


# HB170 TECHNICAL SHEET

## OVERALL DIMENSIONS E4J2

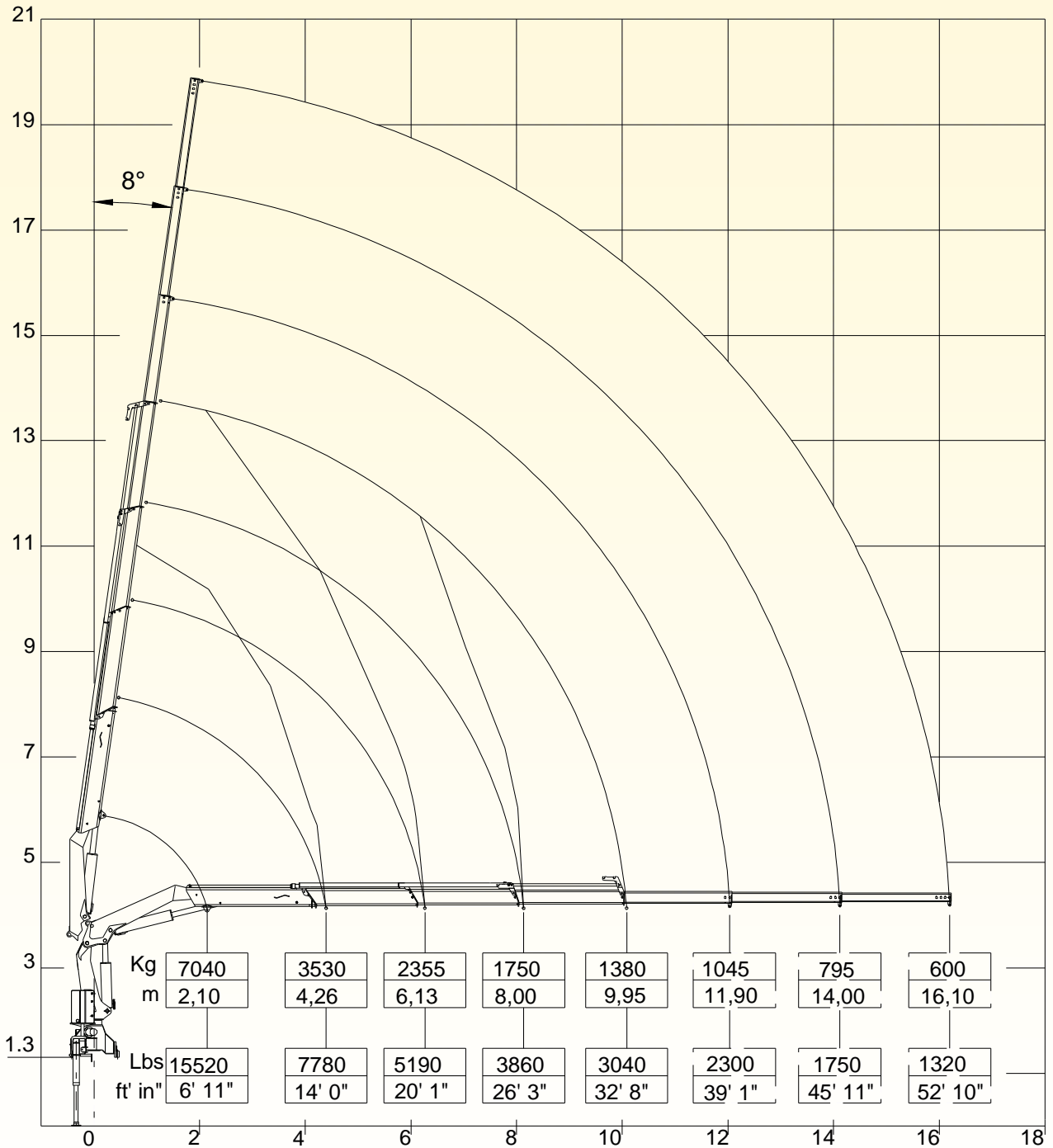


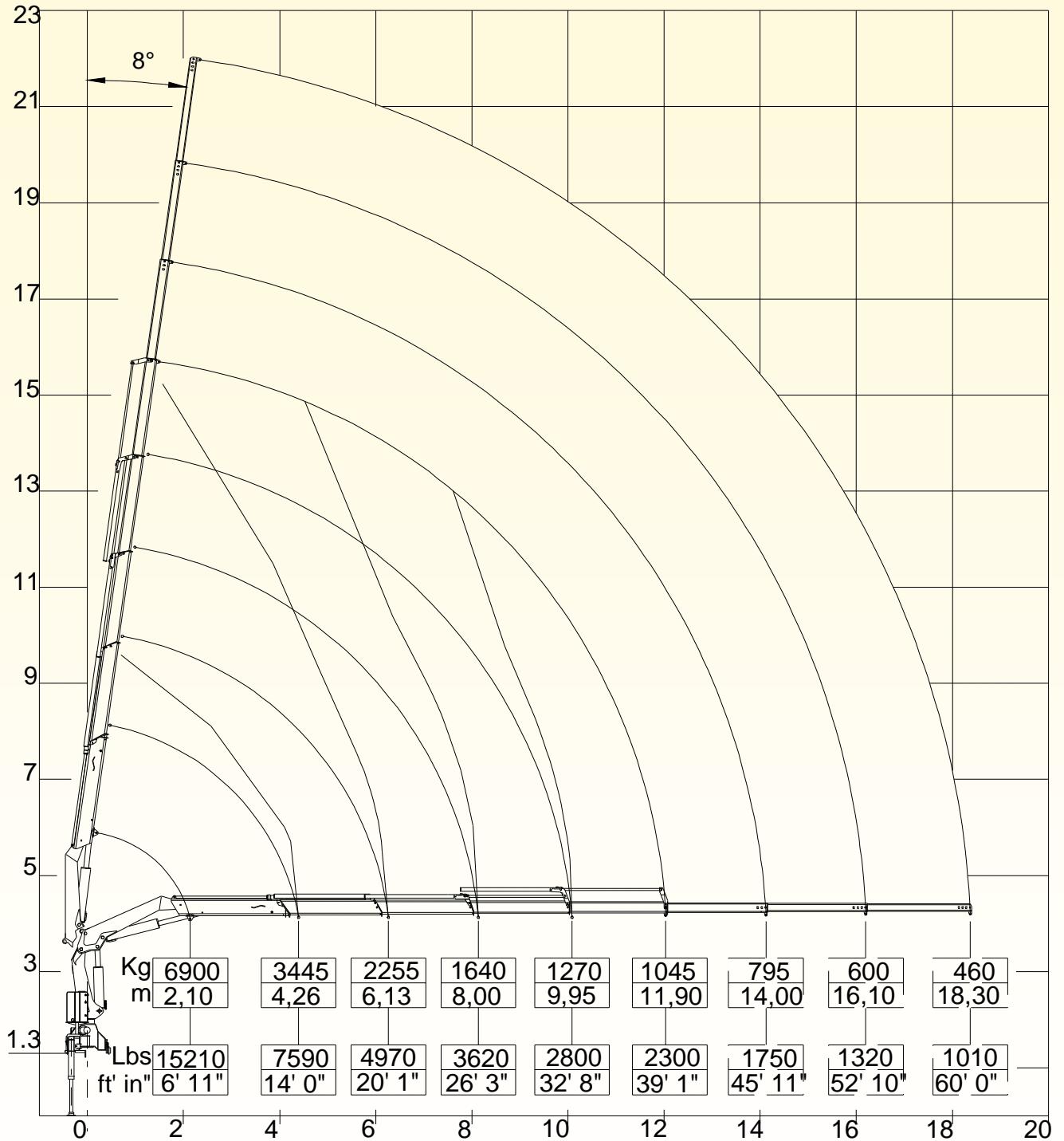


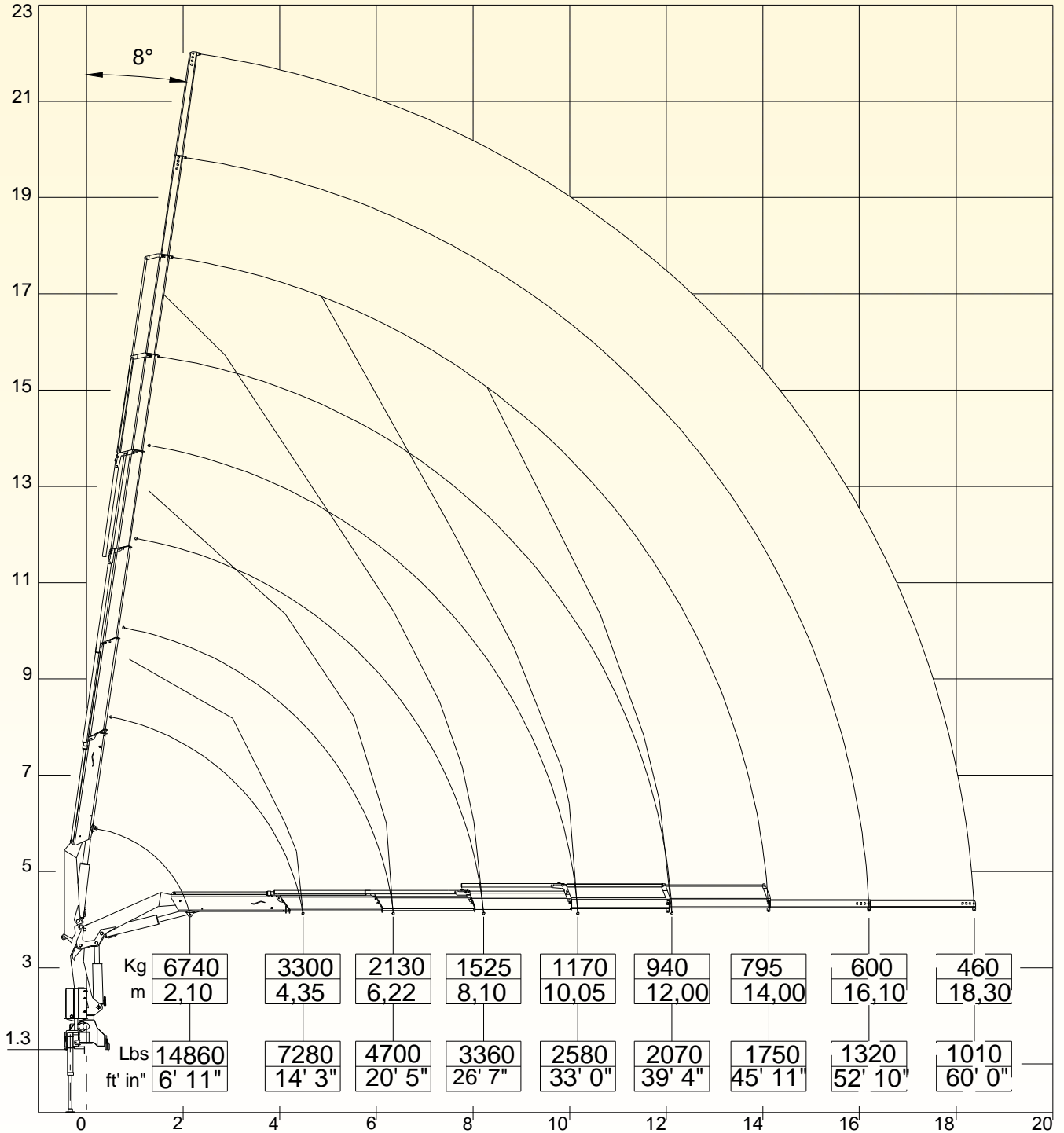


# HB170 TECHNICAL SHEET

## LOAD DIAGRAM E3

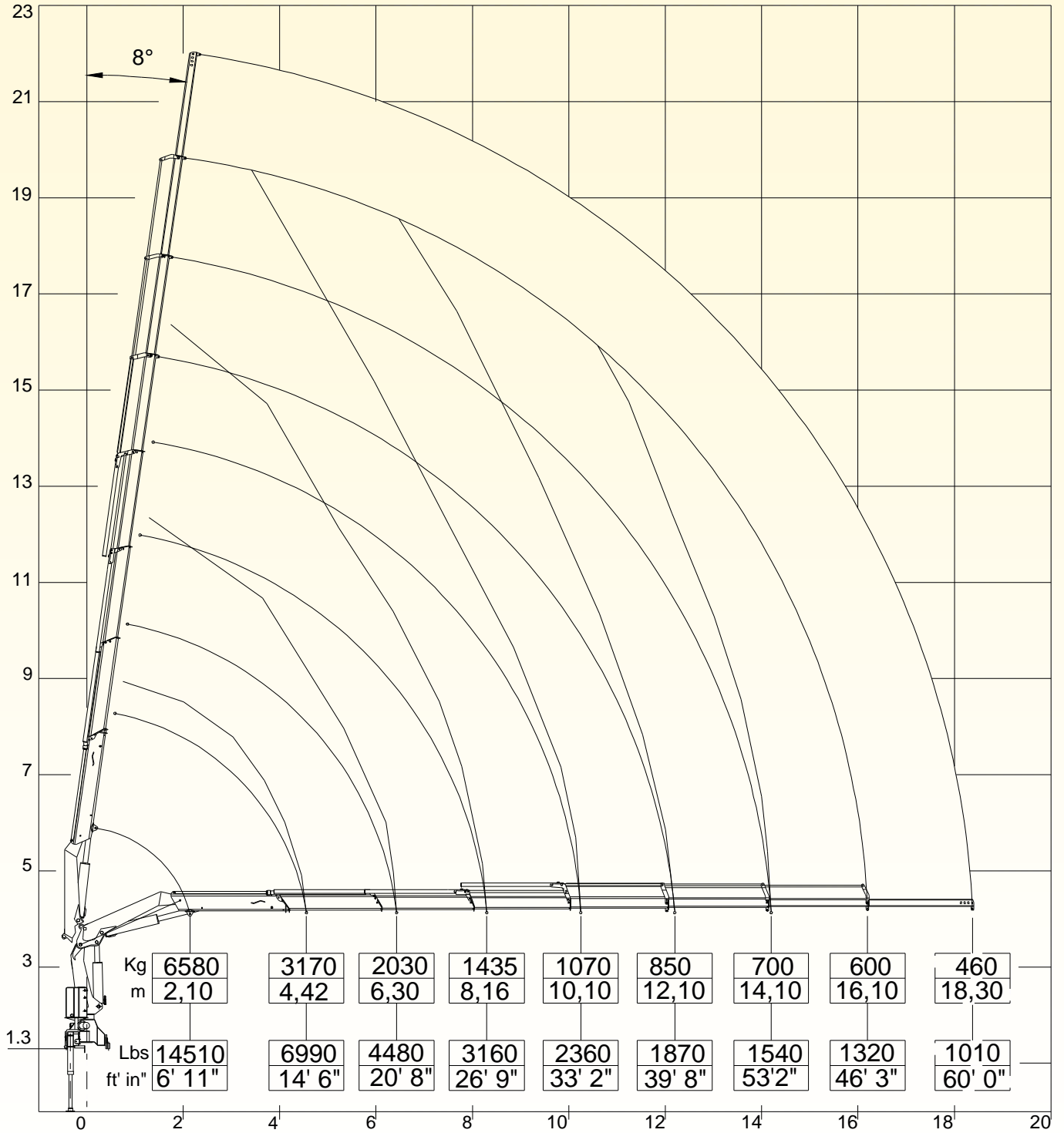






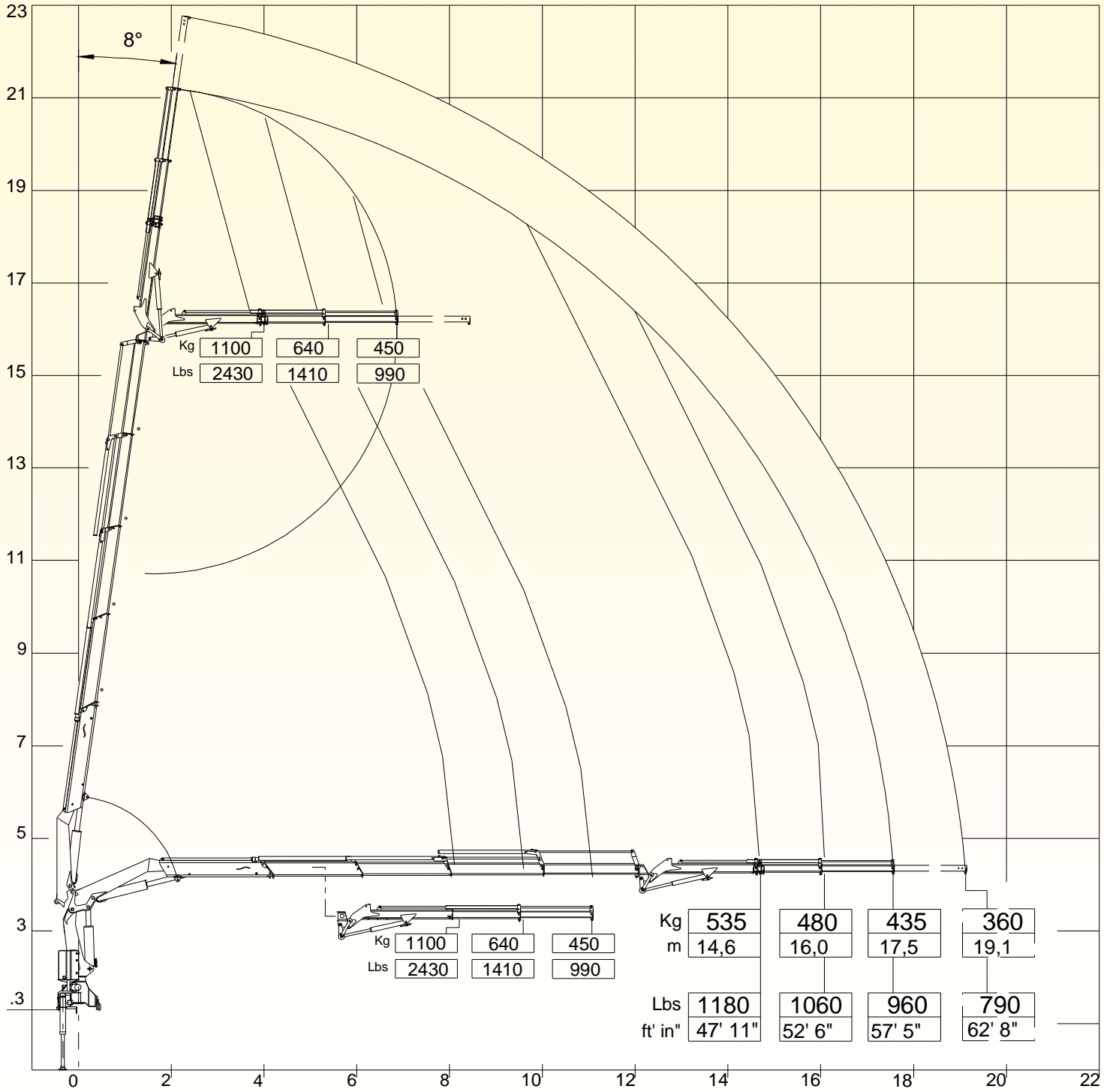
# HB170 TECHNICAL SHEET

## LOAD DIAGRAM E6

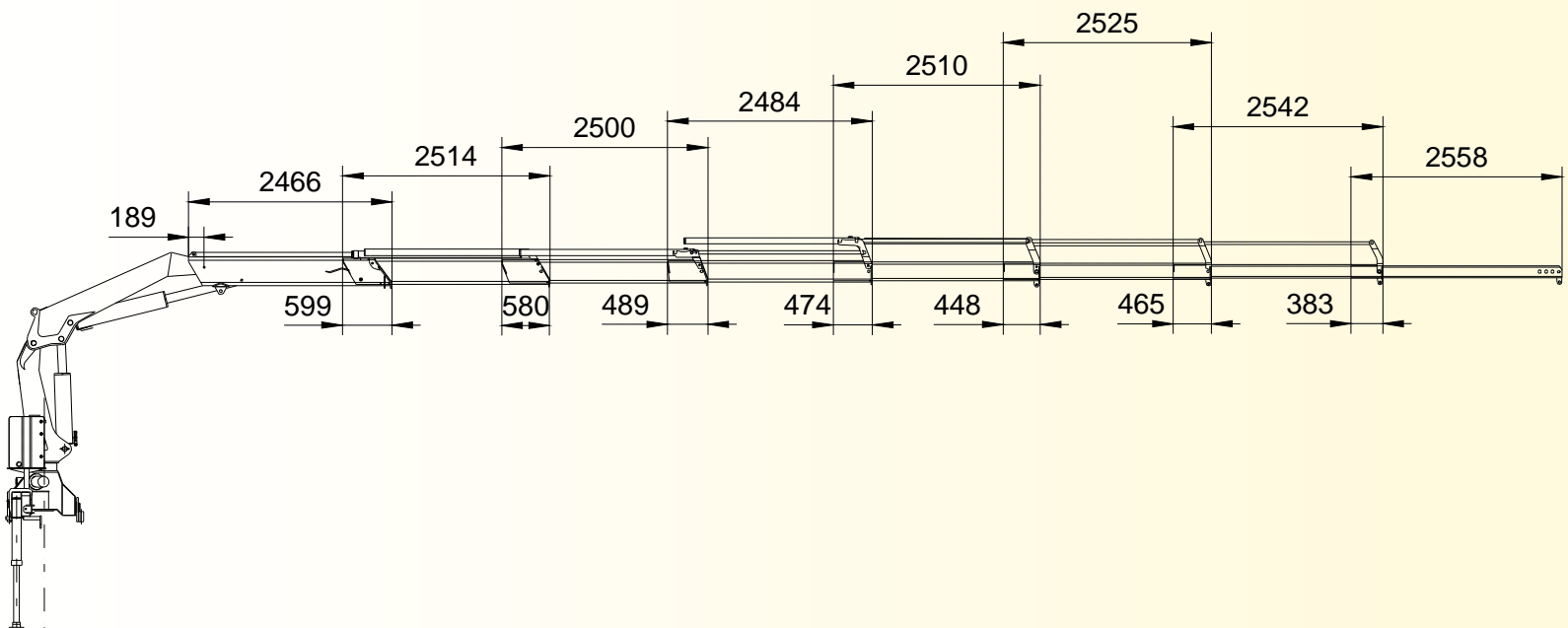


# HB170 TECHNICAL SHEET

## LOAD DIAGRAM E4J2

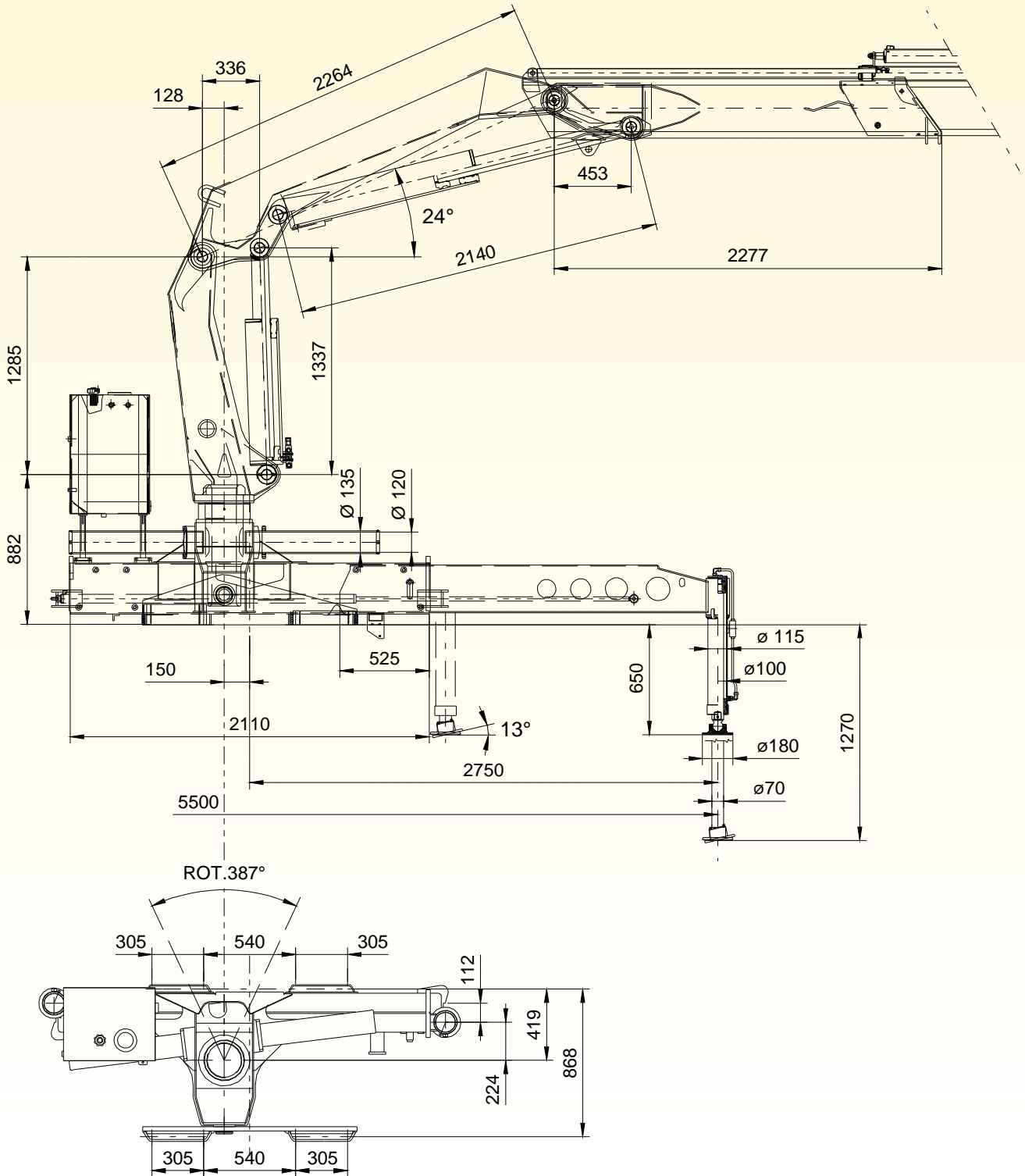






# HB170 TECHNICAL SHEET

## BASE - COLUMN - 1ST 2ND BOOM - DIMENSION



## CYLINDERS AND PINS DIMENSIONS

### LIFTING CYLINDER

Cylinder bore	150
Cyl. ext. diameter	175
Rod diameter	80 - 0
Pitch (open)	1639
Pitch (closed)	1001
Stroke	638
Fittings	7/8" - 14
Artic. pin Ø	60
Pin steel	39NiCrMo3 BNF

### ARTICULATION CYLINDER

Cylinder bore	150
Cyl. ext. diameter	175
Rod diameter	80 - 0
Pitch (open)	2198
Pitch (closed)	1280
Stroke	918
Fittings	7/8" - 14
Fixing pin Ø	60
Pin steel	39NiCrMo3 BNF

### 1<sup>ST</sup> EXTENSION CYL.

Cylinder bore	70
Cyl. ext. diameter	80
Rod diameter	50 - 0
Pitch (open)	4014
Pitch (closed)	2144
Stroke	1870
Fittings	7/8" - 14
Artic. pin Ø	25
Pin steel	39NiCrMo3 BNF

### 2<sup>ND</sup> EXTENSION CYL.

Cylinder bore	70
Cyl. ext. diameter	80
Rod diameter	45 - 30
Pitch (open)	2009
Pitch (closed)	139
Stroke	1870
Fittings	7/8" - 14
Fixing pin Ø	25
Pin steel	39NiCrMo3 BNF

### 3<sup>RD</sup> 4<sup>TH</sup> EXTENSION CYL.

Cylinder bore	65
Cyl. ext. diameter	75
Rod diameter	40 - 25
Pitch (open)	2094.5
Pitch (closed)	144.5
Stroke	1950
Fittings	7/8" - 14
Fixing pin Ø	25
Pin steel	39NiCrMo3 BNF

### 5<sup>TH</sup> EXTENSION CYL.

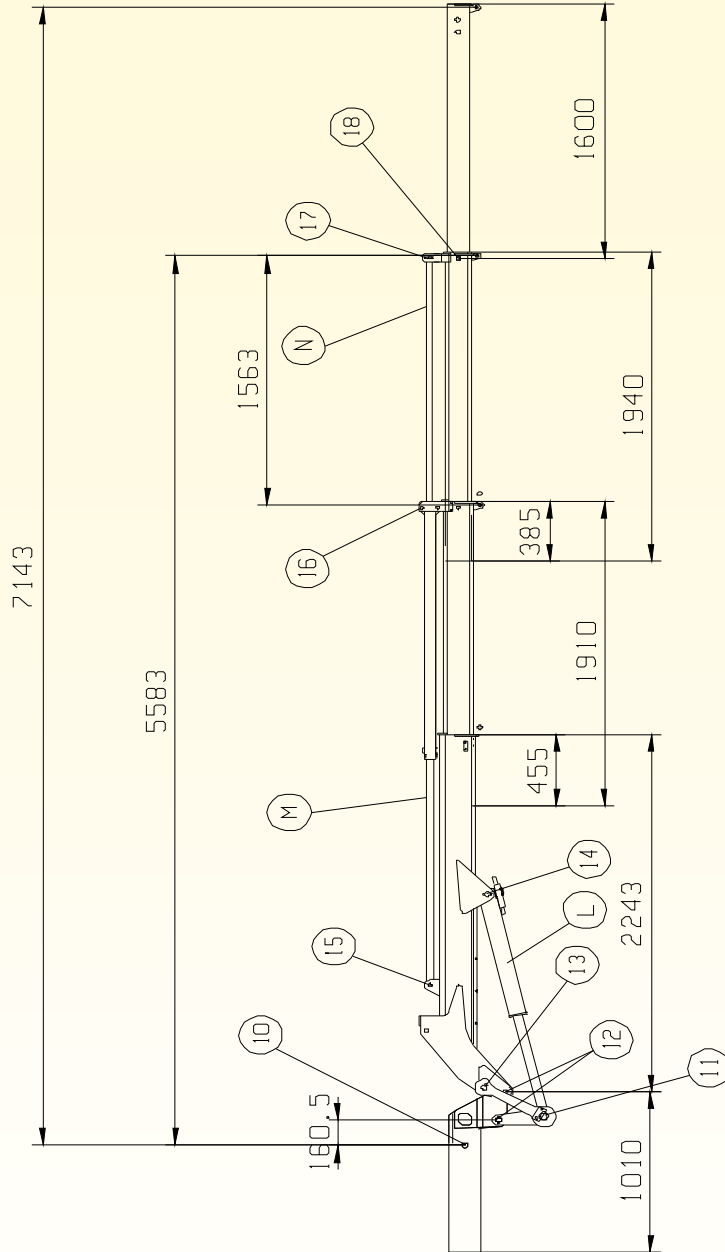
Cylinder bore	60
Cyl. ext. diameter	70
Rod diameter	35 - 25
Pitch (open)	2104
Pitch (closed)	104
Stroke	2000
Fittings	7/8" - 14
Fixing pin Ø	25
Pin steel	39NiCrMo3 BNF

### 6<sup>TH</sup> EXTENSION CYL.

Cylinder bore	60
Cyl. ext. diameter	70
Rod diameter	30 - 0
Pitch (open)	2100
Pitch (closed)	100
Stroke	2000
Fittings	7/8" - 14
Fixing pin Ø	25
Pin steel	39NiCrMo3 BNF

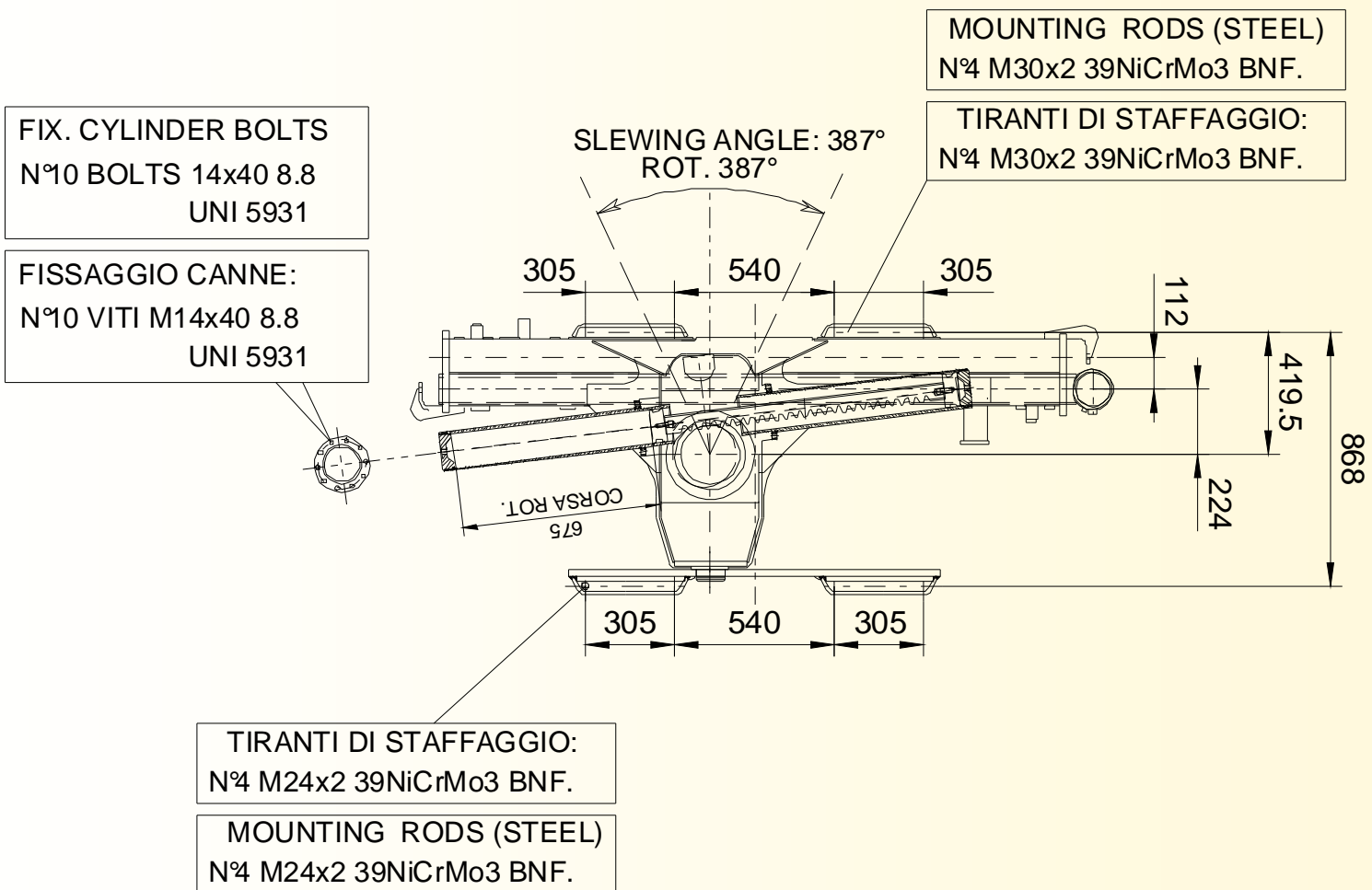
### ROTATION CYLINDER

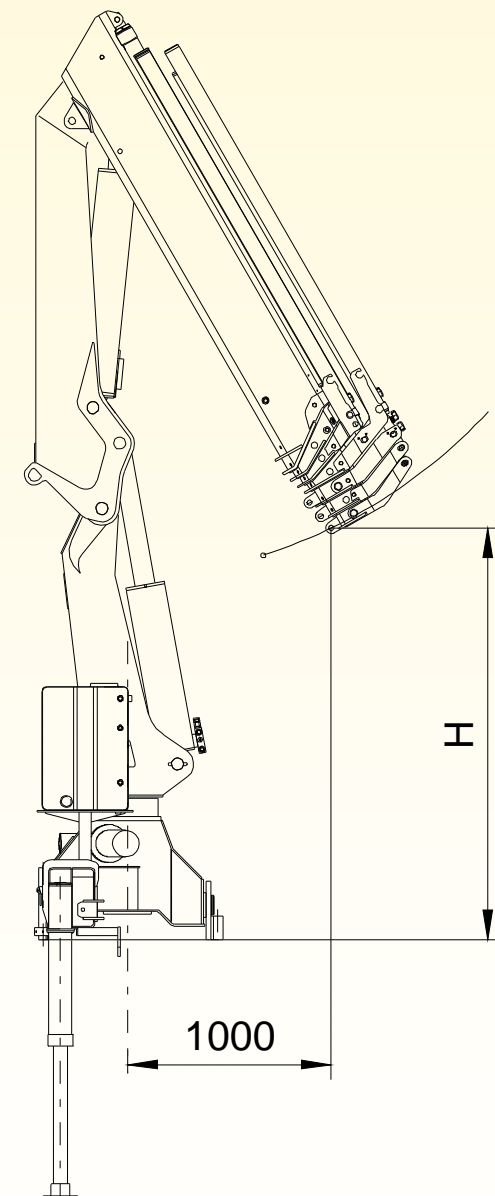
Cylinder bore	120
Cyl. ext. diameter	133
Rod diameter	-
Pitch (open)	-
Pitch (closed)	-
Stroke	675
Fittings	-
Fixing pin Ø	-
Pin steel	-



CYLINDER DIMENSIONS						
N°	DIAMETER	MATERIAL	L	M	N	
10	25	42CrMo4				
11	45	39NiCrMo3	CYLINDER BORE	ø55	ø50	
12	30	39NiCrMo3	EXT. DIAMETER	ø65	ø60	
13	30	39NiCrMo3	ROD DIAMETER	ø40	ø30	
14	30	39NiCrMo3	CYLINDER OPEN	142?	299?	1568
15	30	C40 norm.	CYLINDER CLOSE	842	1617	88
16	20	C40	ROD DIAMETER	---	---	---
17	20	42CrMo4	SPES. FONDELLO	---	---	---
18	20	42CrMo4	Ø INT. SALD.	---	---	---

DIMENSIONI MARTINETTI E PERNI						
N°	DIAMETRO	MATERIALE	L	M	N	
10	25	42CrMo4				
11	45	39NiCrMo3	ALLESAGGIO	ø55	ø50	
12	30	39NiCrMo3	DIAMETRO EST.	ø65	ø60	
13	30	39NiCrMo3	DIAMETRO STELO	ø50	ø30	
14	30	39NiCrMo3	INTER. APERTO	142?	299?	1568
15	30	C40 norm.	INTER. CHIUSO	842	1617	88
16	20	C40	SPES. FONDELLO	---	---	---
17	20	42CrMo4	Ø INT. SALD.	---	---	---
18	20	42CrMo4	Ø EST. SALD.	---	---	---
			CORSA	585	1380	1480

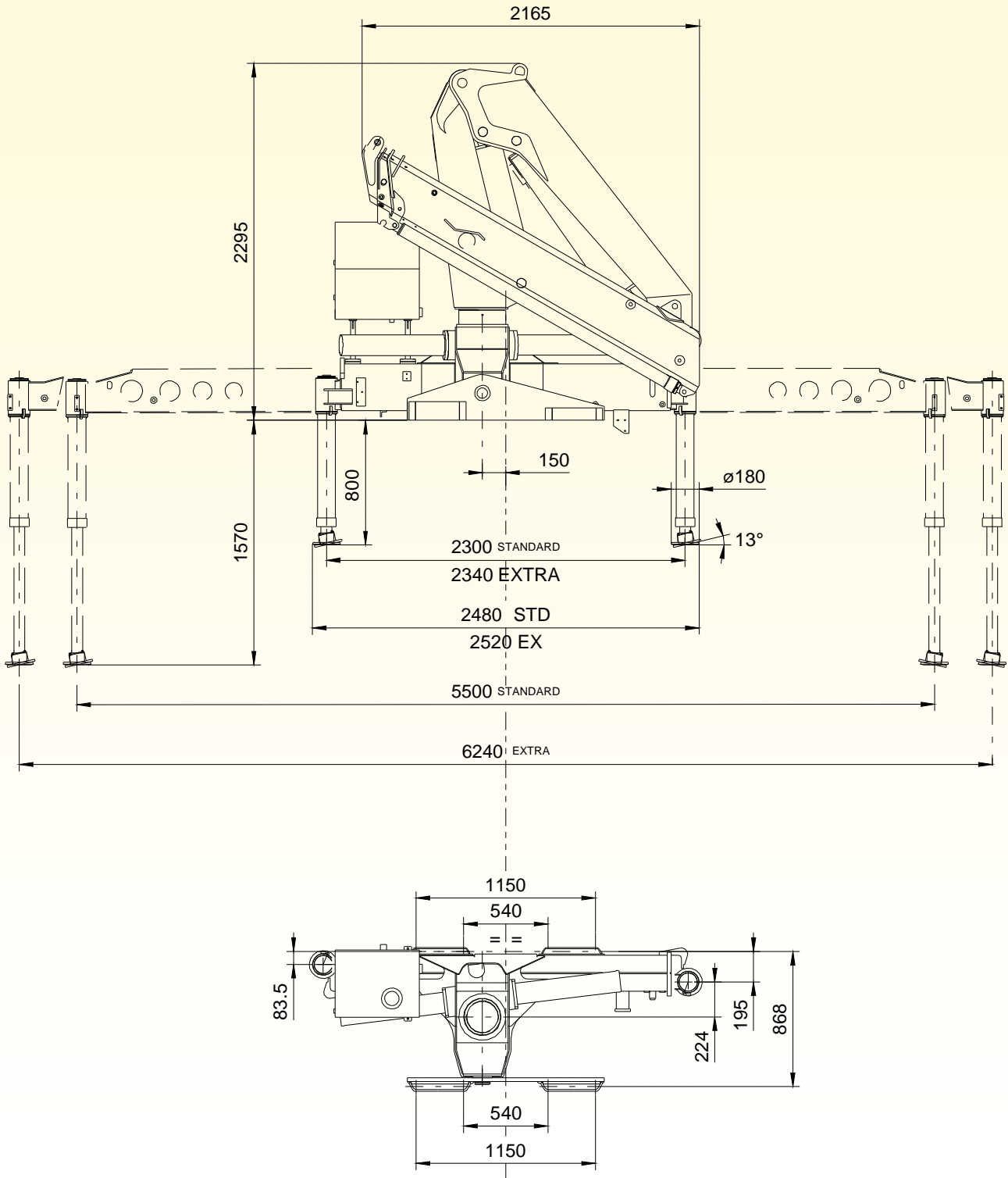




	H (mm)
1S	2300
2S	2250
3S	2200
4S	2200
5S	2130
6S	2070

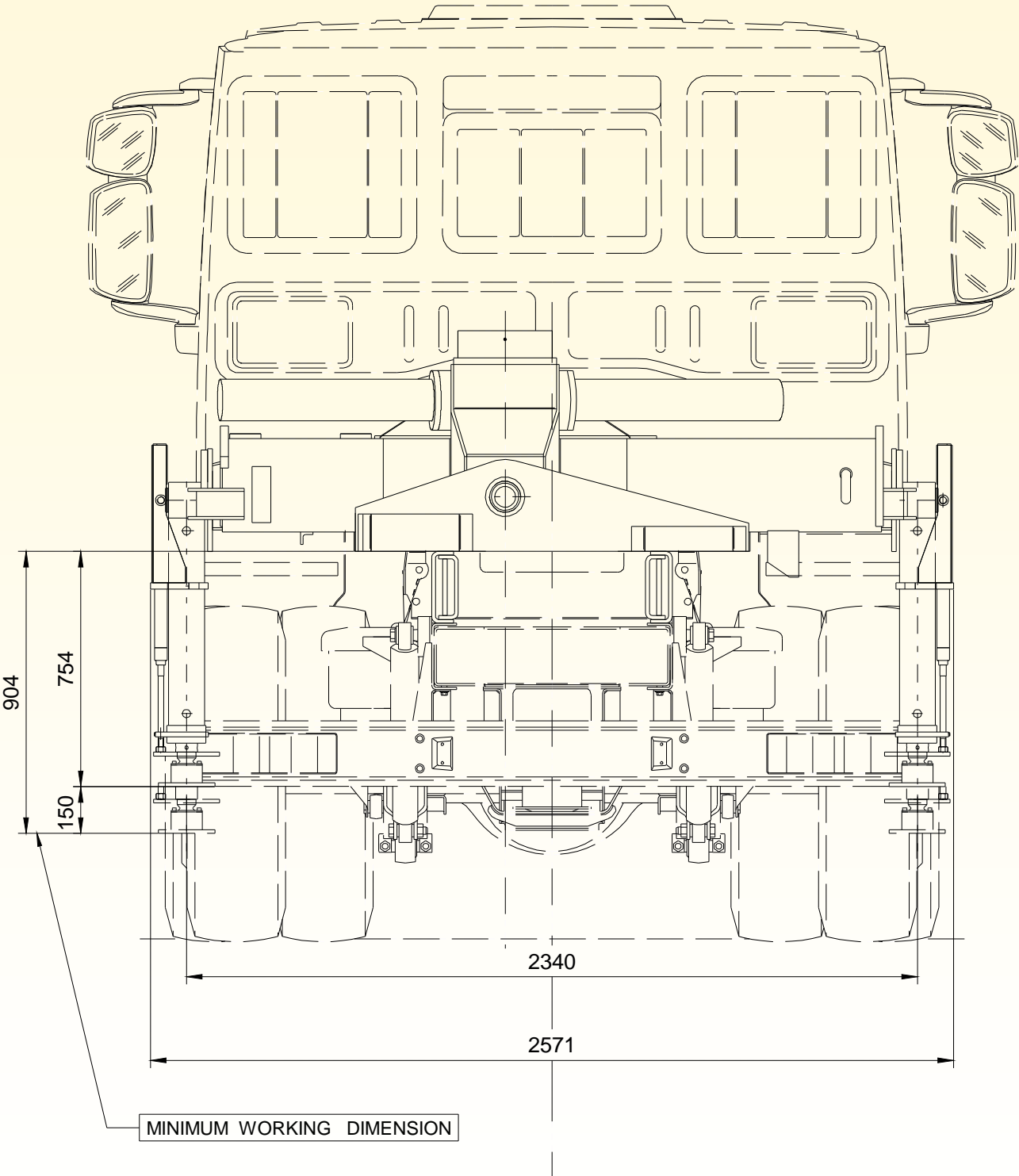
# HB170 TECHNICAL SHEET

## BASE DIMENSIONS WITH LONG STABILIZERS



# HB170 TECHNICAL SHEET

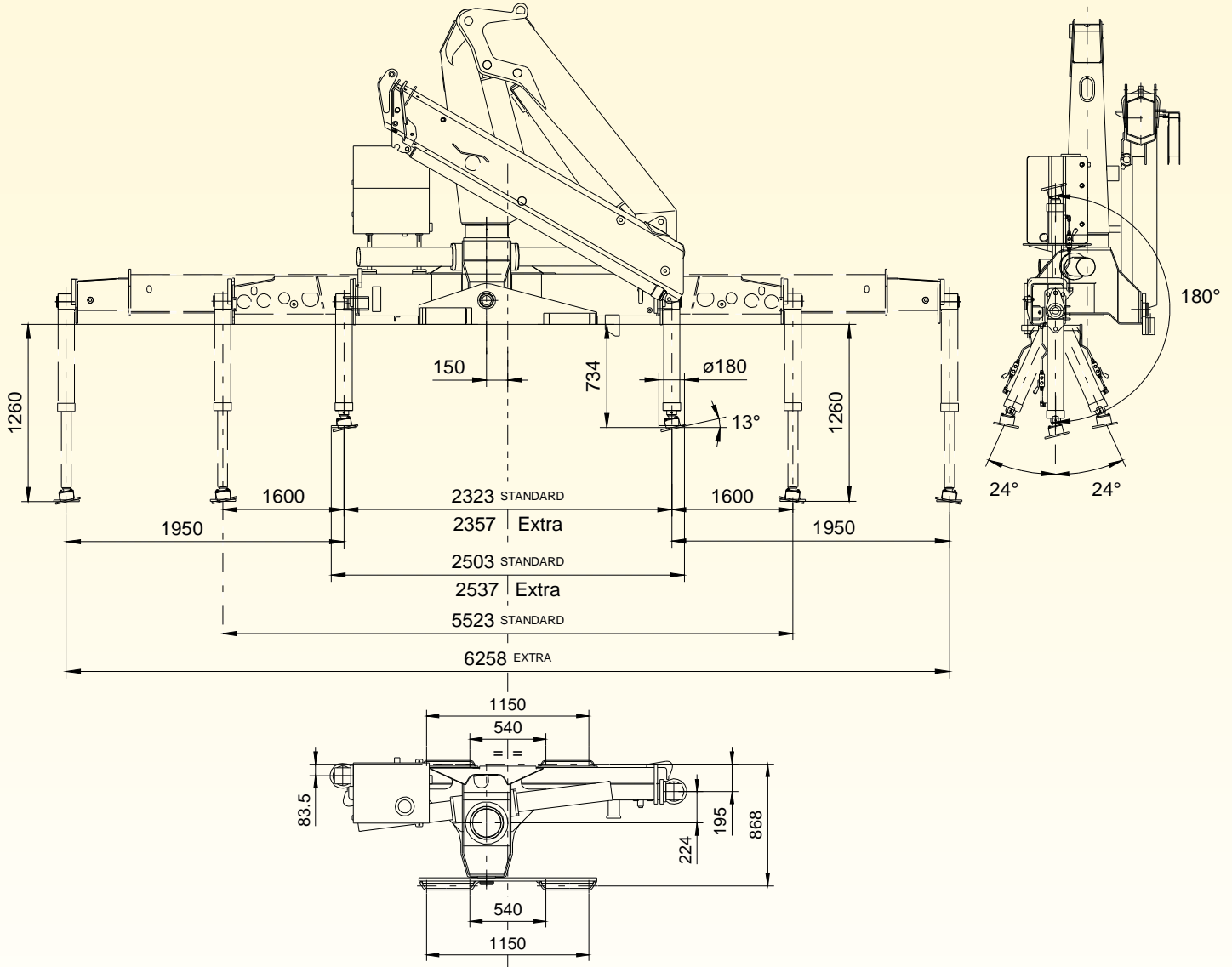
## DIMENSIONS BASE WITH TILTING AUTOMATIC STABILIZERS





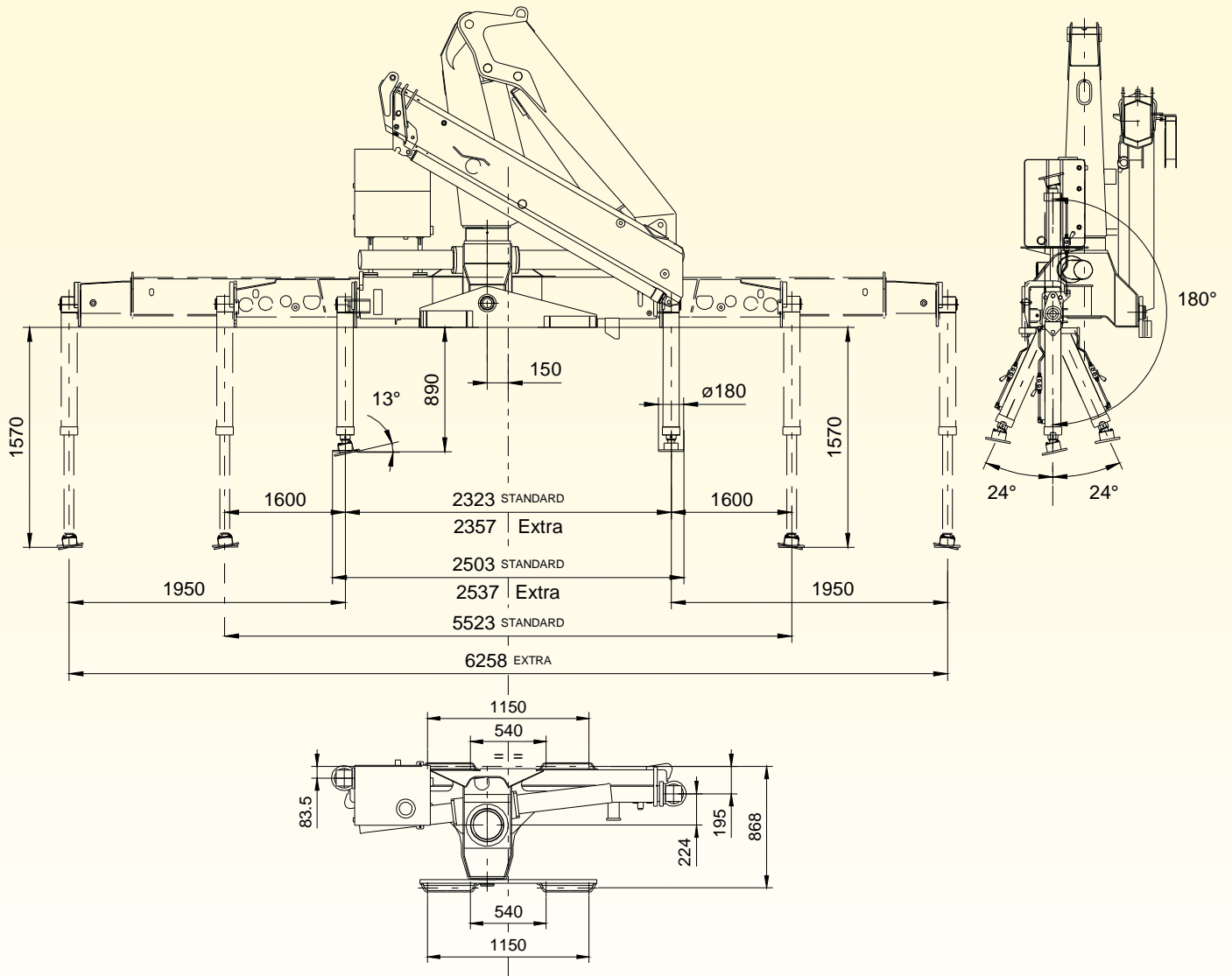
# HB170 TECHNICAL SHEET

## DIMENSIONS BASE WITH TILTING STANDARD STABILIZERS



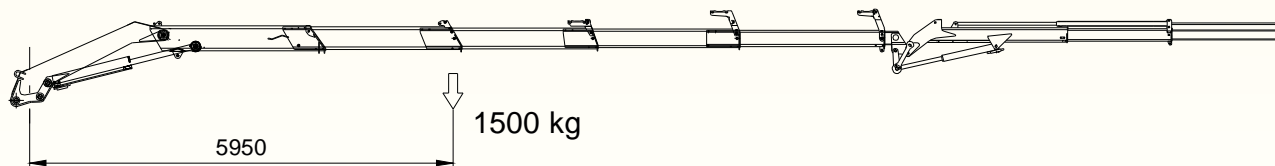
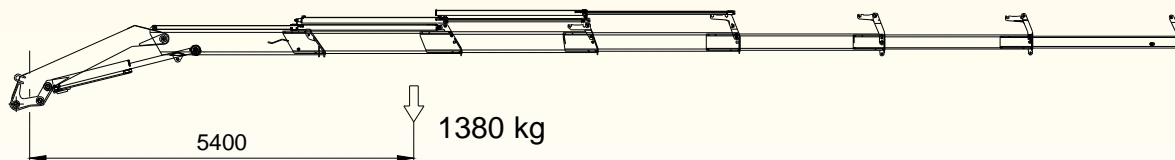
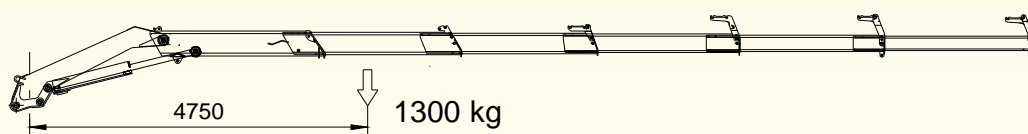
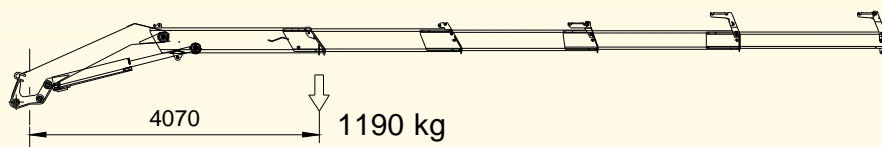
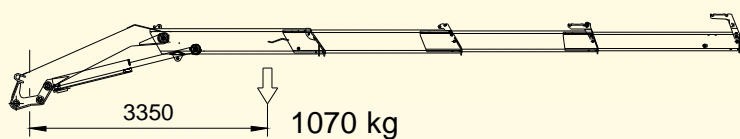
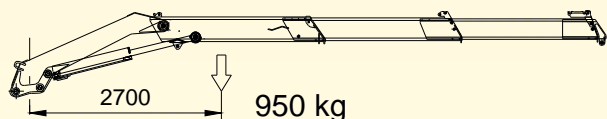
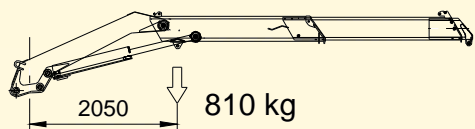
# HB170 TECHNICAL SHEET

## DIMENSIONS BASE WITH TILTING LONG STABILIZERS



# HB170 TECHNICAL SHEET

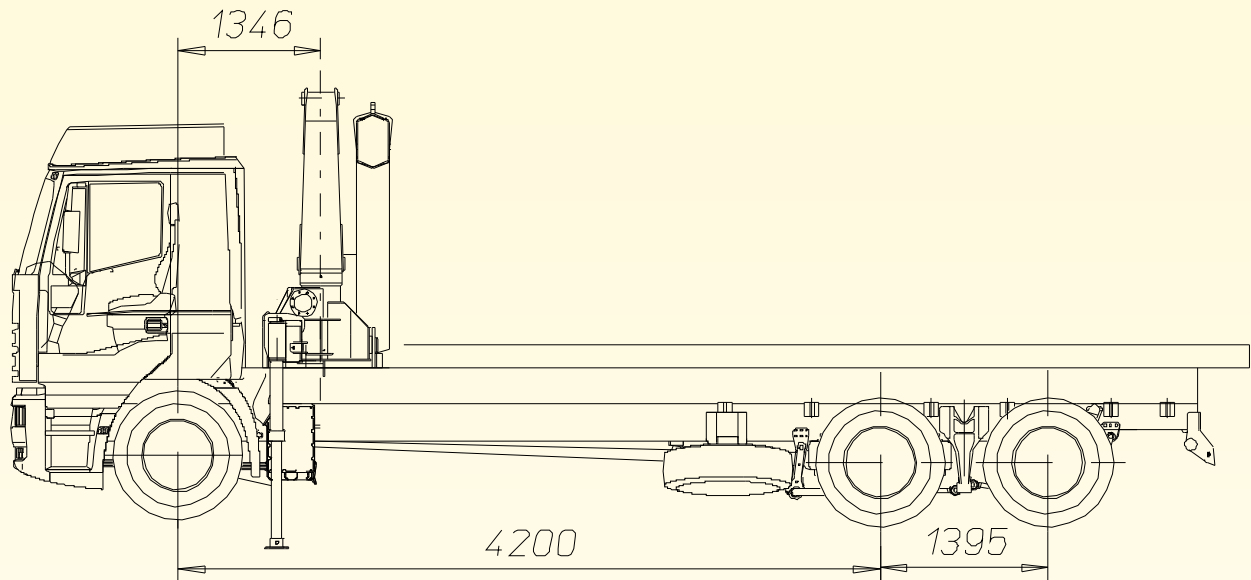
## WEIGHTS – CENTER OF GRAVITY



<b>Fixed parts weights (kg)</b>	<b>Stand.</b> 1320
---------------------------------	-----------------------

# HB170 TECHNICAL SHEET

## MIN TRUCK WITH OUT SUPPLEMENTARY STABILIZERS



**GVW = 190 q**

### CHASSIS DATA

#### *Front axle*

Front axle tare weight = 4530 kg

Allowable front axle weight = 7500 kg

#### *Rear axle*

Rear axle tare weight = 2020 kg

### OUTFIT WEIGHTS

Body weight = 600 kg

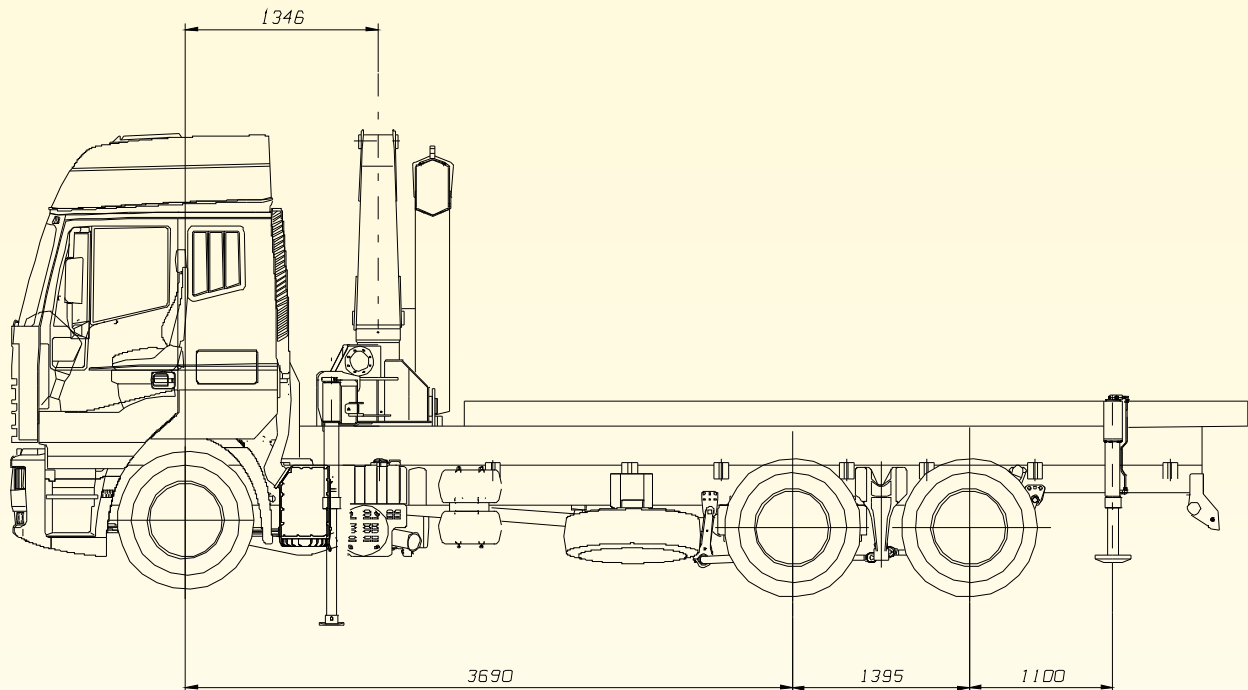
Crane weight = 2700 kg (817 6S)

Counterframe weight = 160 kg

**Stability index = 1,42**

# HB170 TECHNICAL SHEET

## MIN TRUCK WITH SUPPLEMENTARY STABILIZERS



**GVW = 170 q**

### CHASSIS DATA

#### *Front axle*

Front axle tare weight = 2815 kg

Allowable front axle weight = 4800 kg

#### *Rear axle*

Rear axle tare weight = 1375 kg

### OUTFIT WEIGHTS

Body weight = 600 kg

Crane weight = 1690 kg (815 5S EX. hydr.)

Counterframe weight = 390 kg

### Rear beam stabilizers

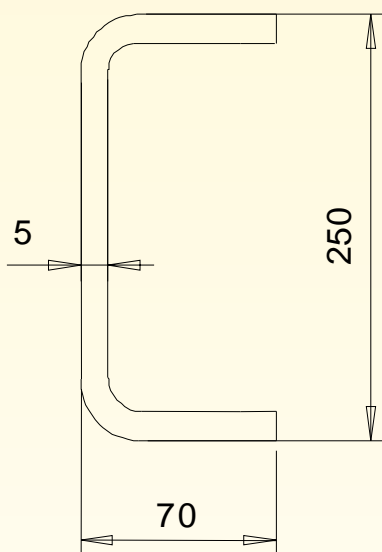
Min. width = 3000 mm

Rear stabilizer weight = 250Kg

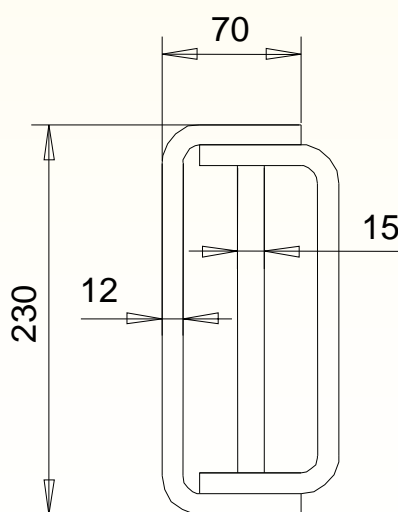
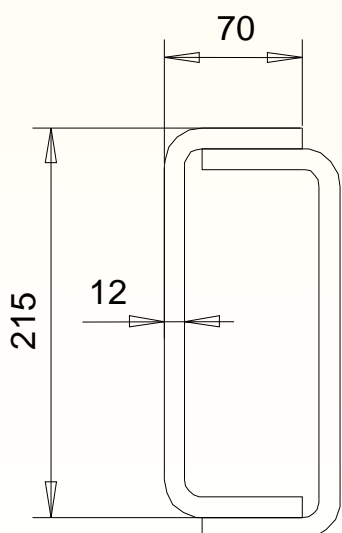
**Stability index = 1,7**

Max dynamic moment (daNm)	22400
---------------------------	-------

Min frame section (truck GVW 17 ton)



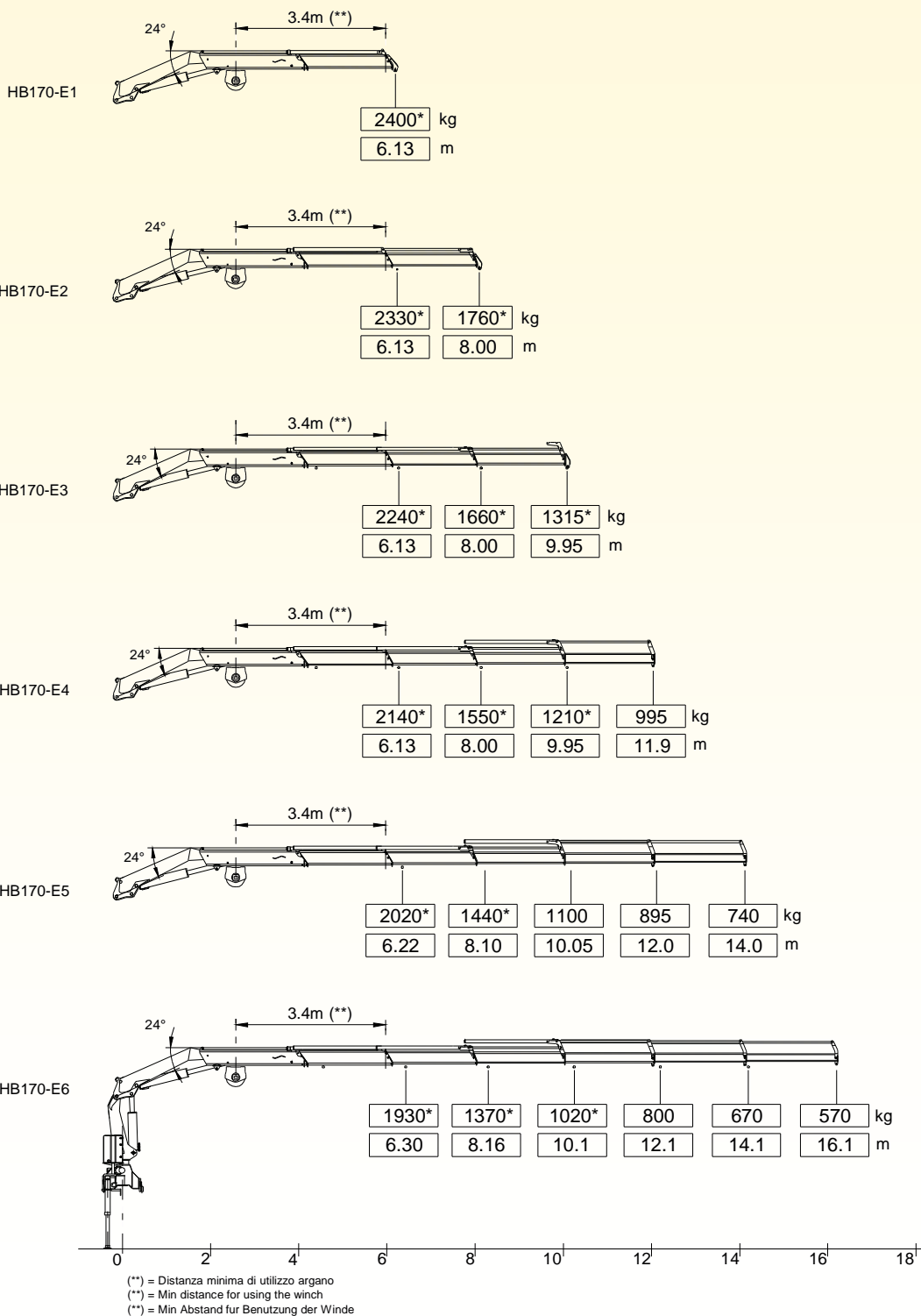
Min counterframe section (steel S355)



# HB170 TECHNICAL SHEET

## GRAB - BUCKET DATA

<b>Max winch direct pull E1 -E2- E3-E4 - E5 (kg)</b>	1200 kg
<b>Max winch direct pull E6 (kg)</b>	1000 kg



<b>Max allowable weight</b> E1 - E2 - E3 E4 - E5 - E6	420 kg 265 kg
<b>Max working pressure [bar]</b>	200 bar

**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"**

