



# TRUCK MOUNTED CRANE

## HB250-HB280

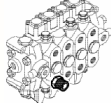
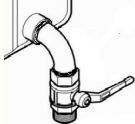


[www.hyvacrane.com](http://www.hyvacrane.com)  
[www.hyva.com](http://www.hyva.com)

	<b>E2 → E6</b>	<b>E3J3</b>	<b>E4J3</b>
<b>Max dynamic moment [daNm]</b>	31455	28650	30245

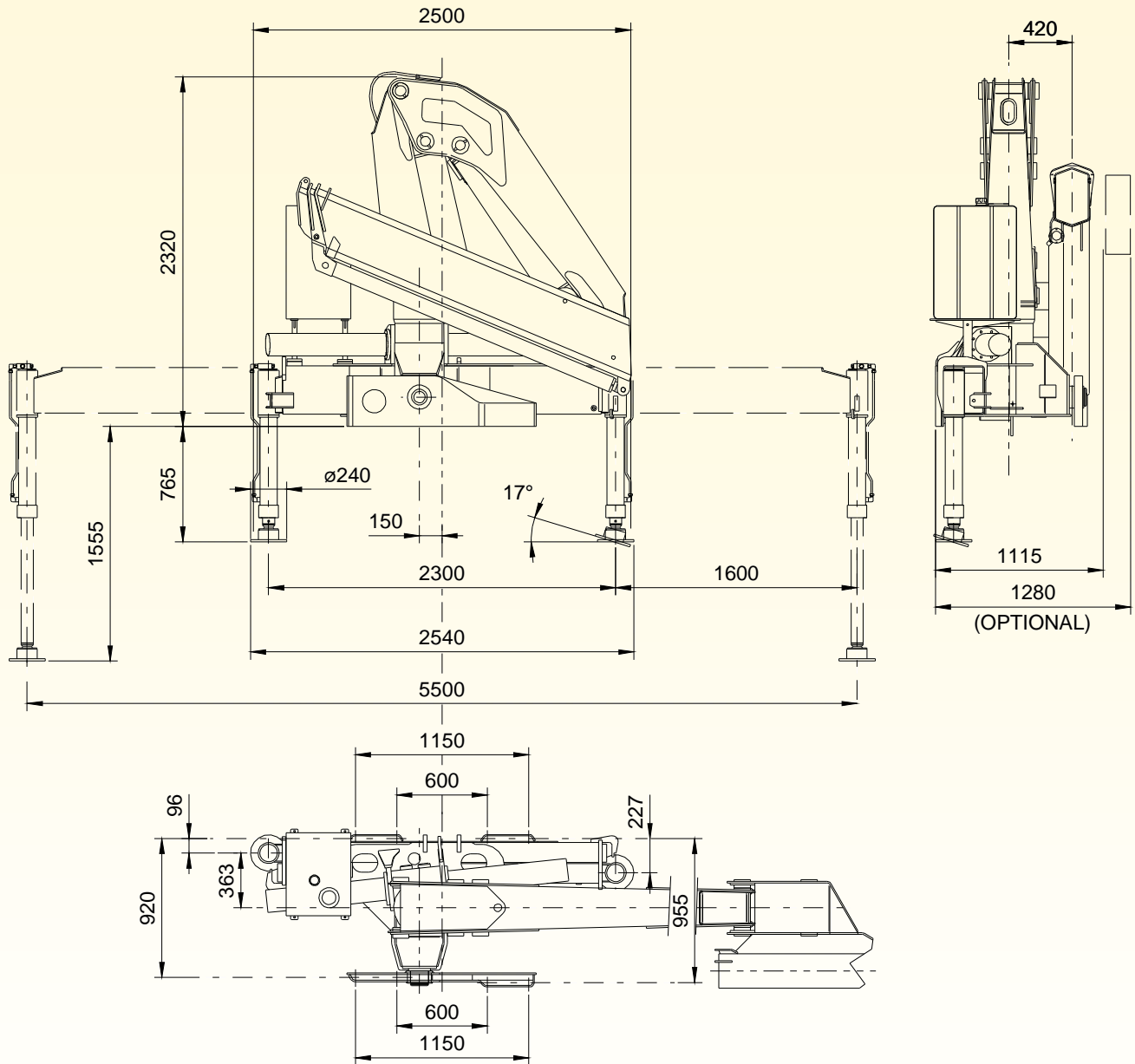
	<b>Version</b>	<b>HB250</b>	<b>HB280</b>
<b>Max capacity [kg]</b>	E1	9580	9785
	E2	9480	9685
	E3	9275	9530
	E4	9070	9325
	E5	8970	9175
	E6	8950	9125

	<b>Version</b>	<b>HB250</b>	<b>HB280</b>
<b>Crane weight [kg]</b>	E1	3000	3050
	E2	3200	3250
	E3	3340	3390
	E4	3500	3550
	E5	3640	3690
	E6	3735	3785
	E3J3	3890	3940
	E4J3	4040	4090

<b>Max force on the standard stabilizer leg</b>	11740 daN	
<b>Max standard stabilizer pressure on the ground</b>	37 daN/cm <sup>2</sup>	
<b>Max working pressure</b>	290 bar <b>HB250</b> 305 bar <b>HB280</b>	
<b>Max oil flow to main relief valve</b>	50 dm <sup>3</sup> /min	
<b>Oil tank capacity</b>	160 dm <sup>3</sup>	
<b>Slewing moment</b>	3185 daNm	
<b>Slewing angle</b>	397°	
<b>Absorbed power</b>	32 kW 42 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>	 M 7/8" - 14 <b>JIC</b>	M 7/8" - 14 <b>JIC</b>
<b>Tank suction line</b>	 M1" 1/2 <b>BSP</b>	M 1" 1/2 <b>BSP</b>

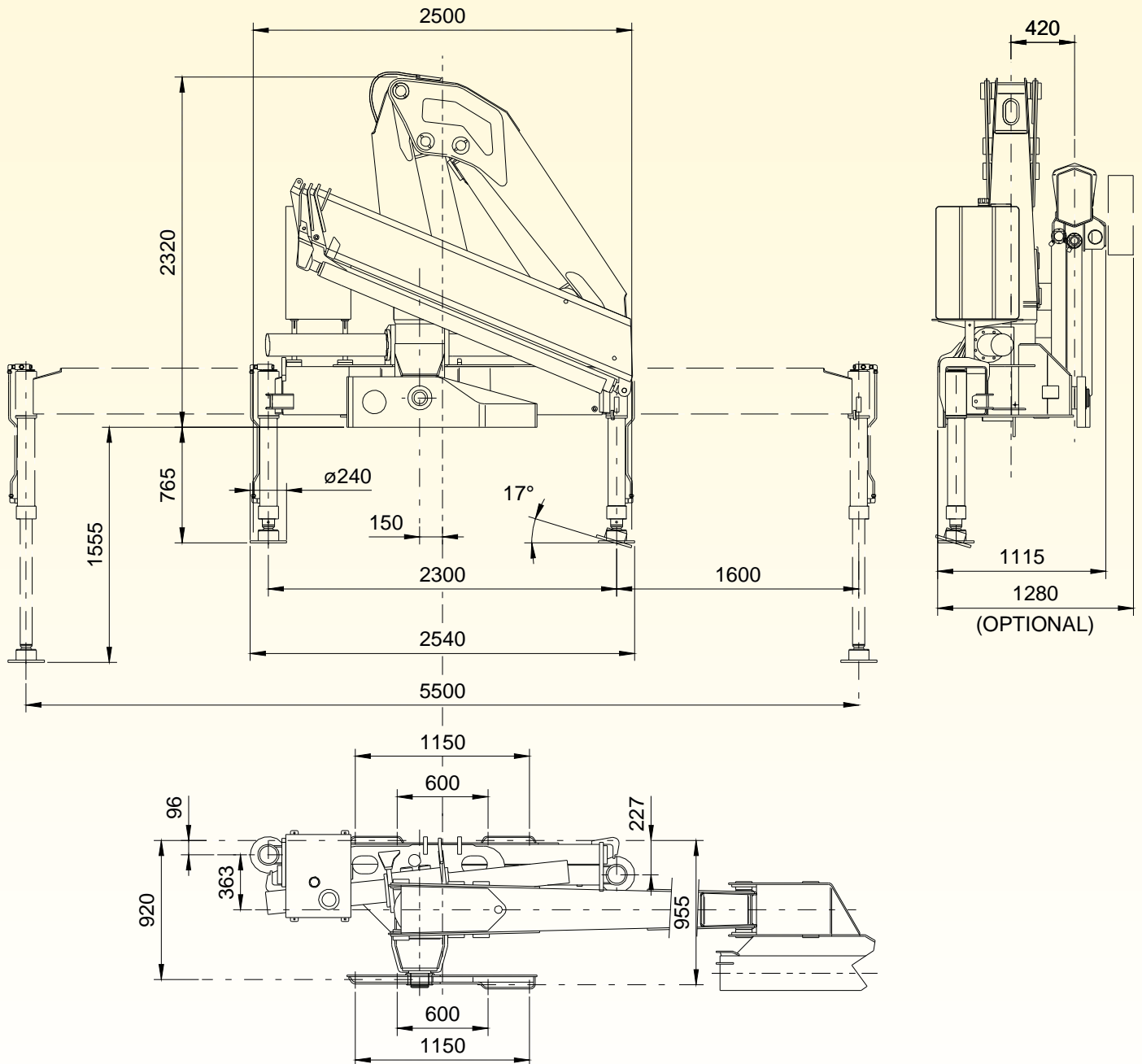
# HB250-HB280 TECHNICAL SHEET

## OVERALL DIMENSIONS E1



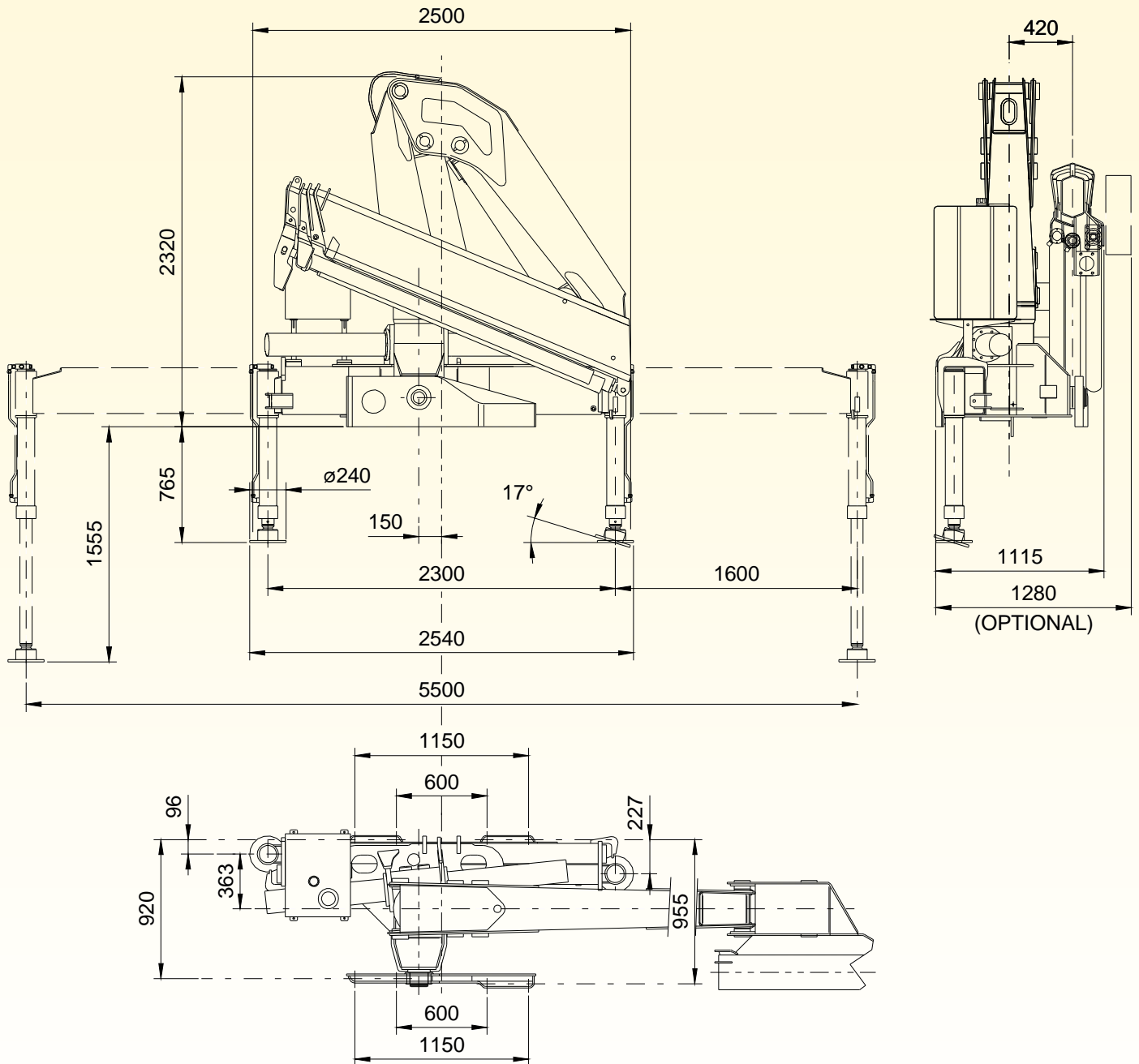
# HB250-HB280 TECHNICAL SHEET

## OVERALL DIMENSIONS E2



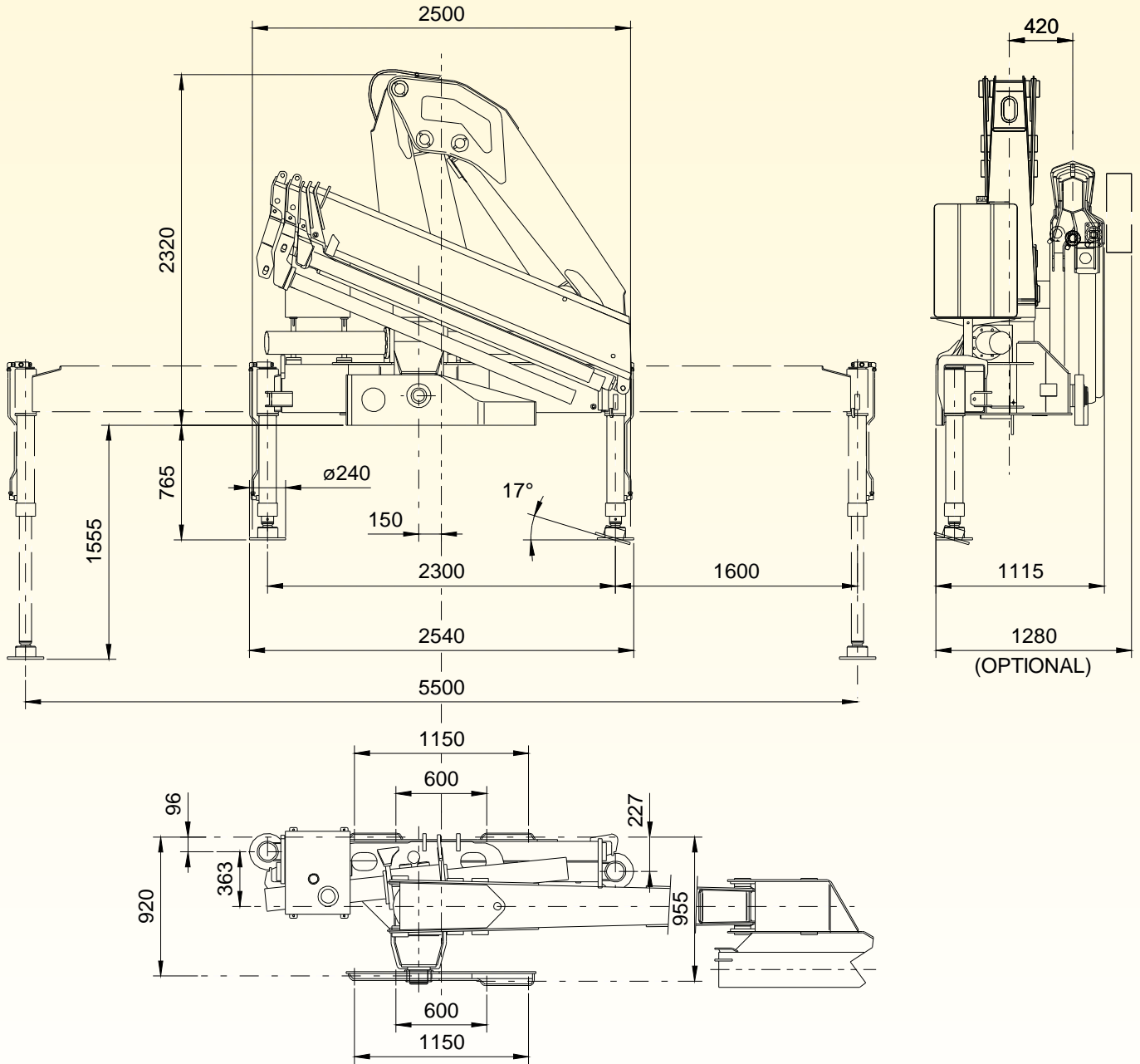
# HB250-HB280 TECHNICAL SHEET

## OVERALL DIMENSIONS E3



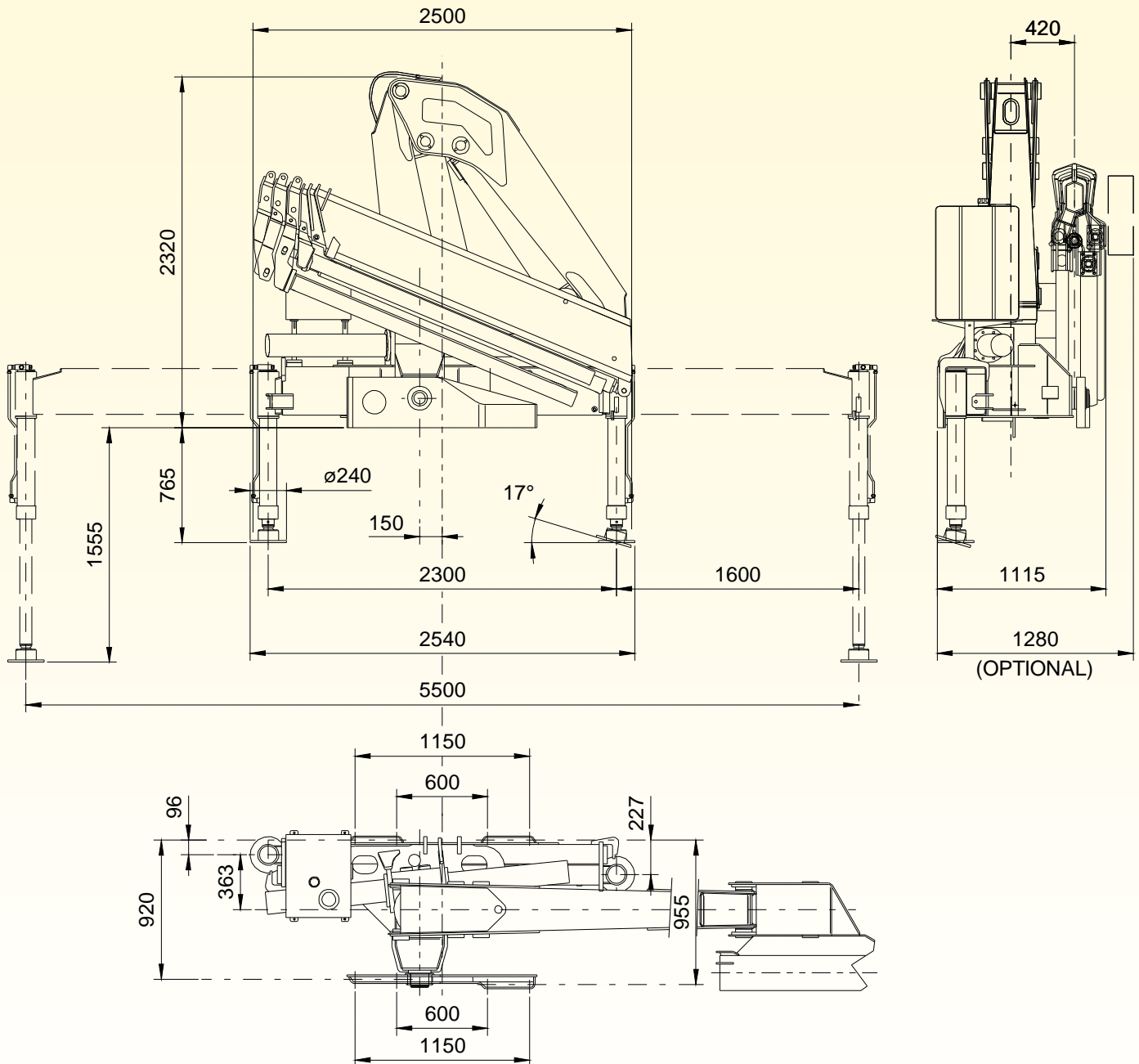
# HB250-HB280 TECHNICAL SHEET

## OVERALL DIMENSIONS E4



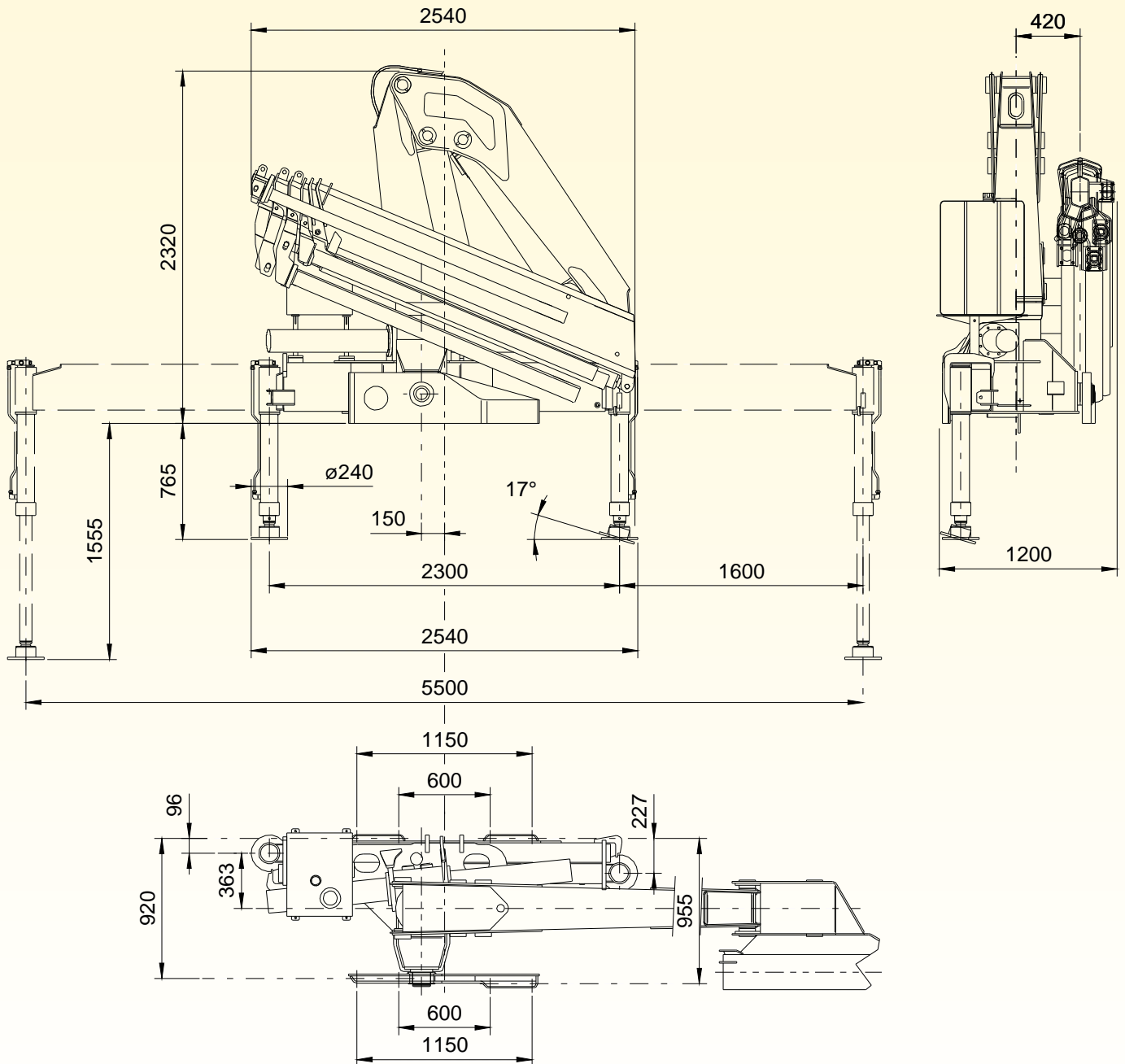
# HB250-HB280 TECHNICAL SHEET

## OVERALL DIMENSIONS E5



# HB250-HB280 TECHNICAL SHEET

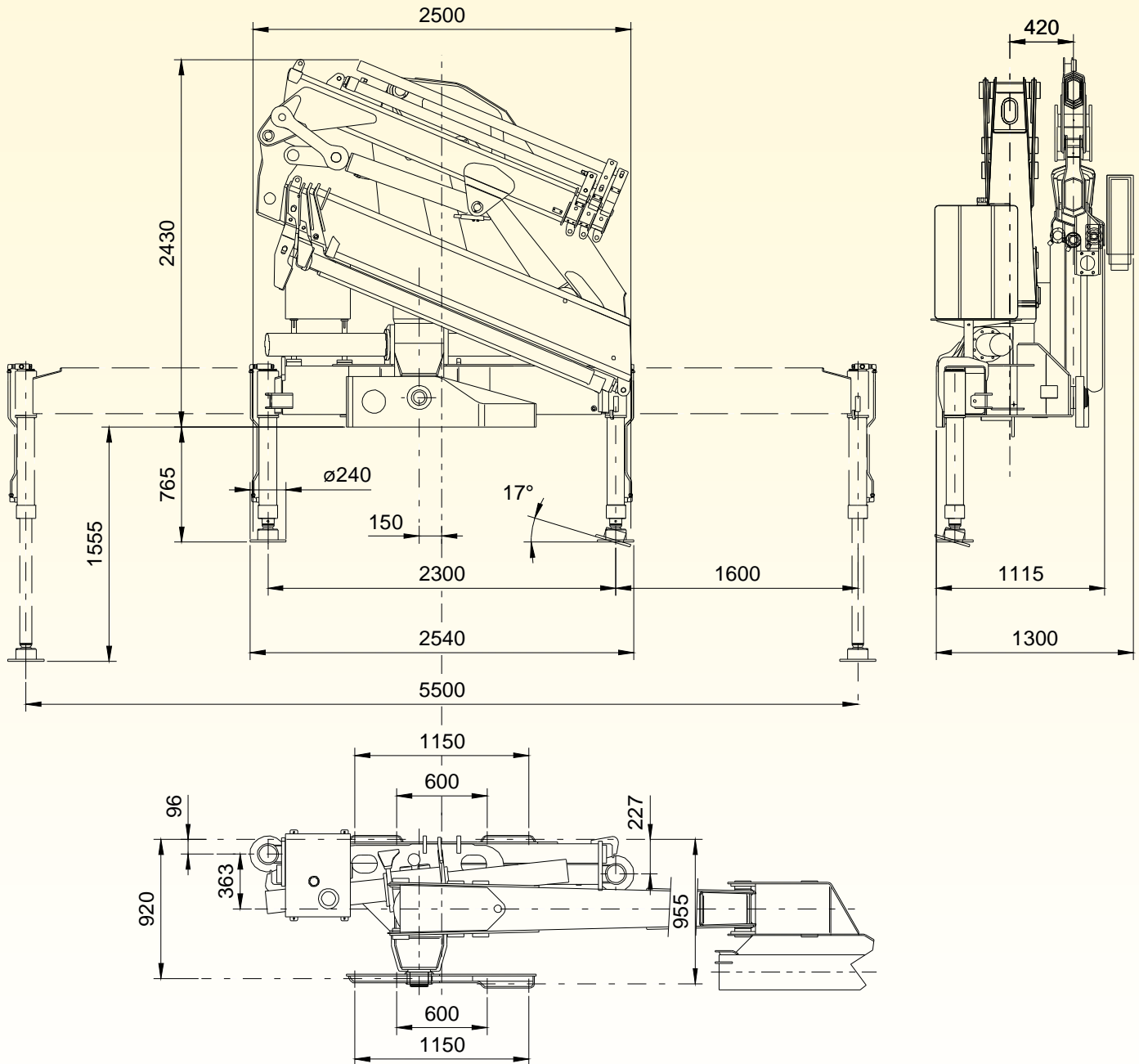
## OVERALL DIMENSIONS E6





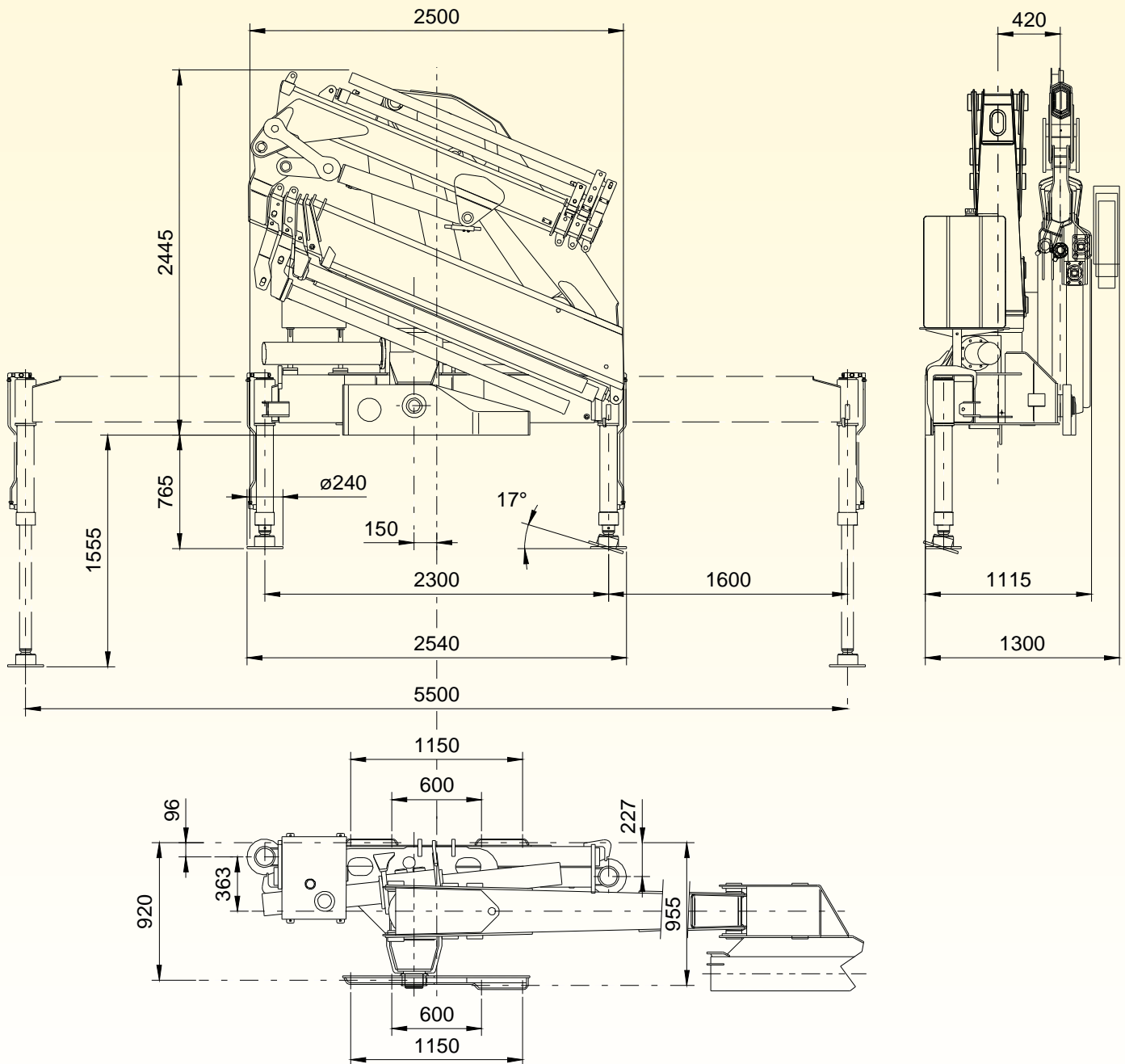
# HB250-HB280 TECHNICAL SHEET

## OVERALL DIMENSIONS E3J3



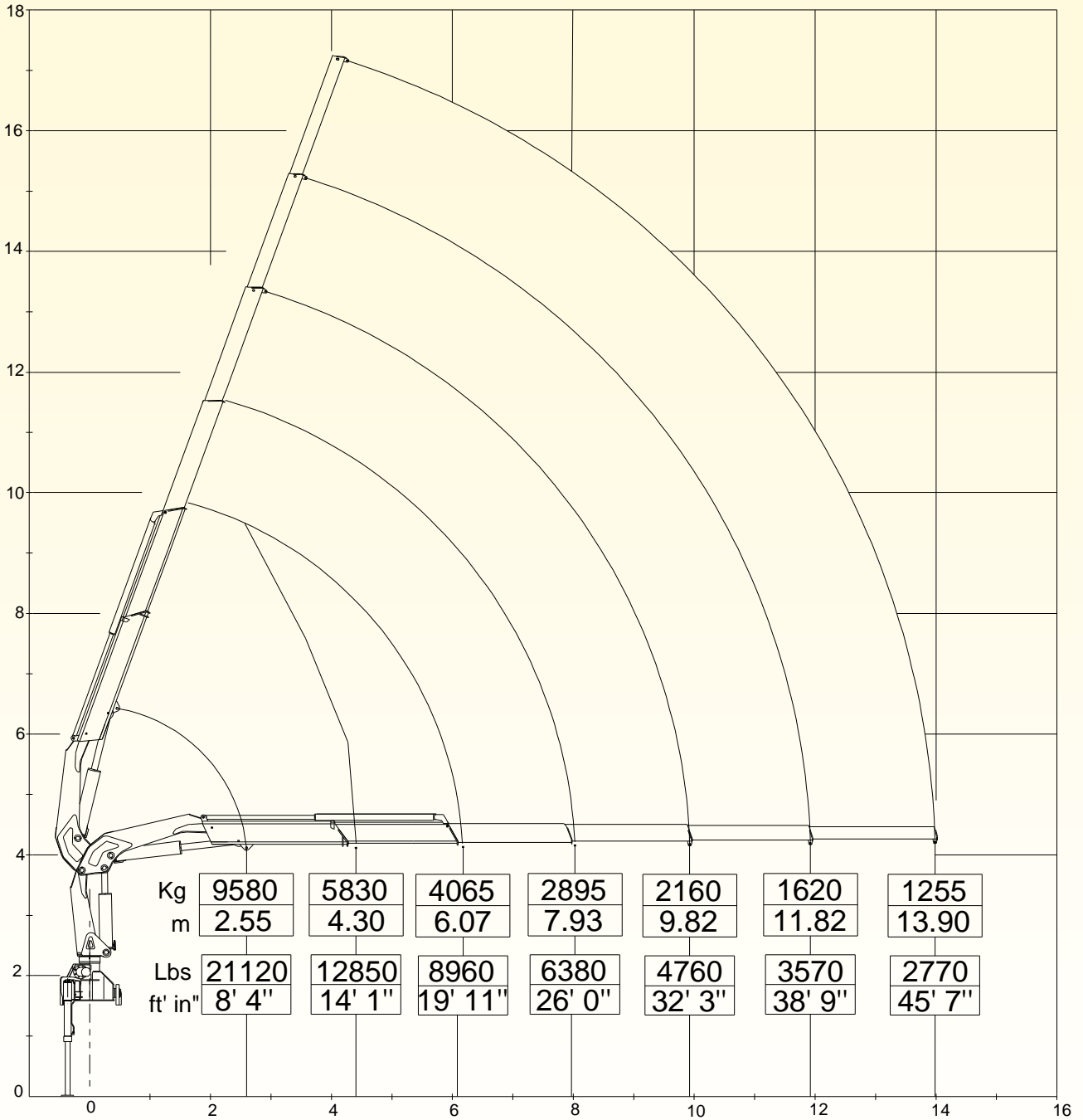
# HB250-HB280 TECHNICAL SHEET

## OVERALL DIMENSIONS E4J3



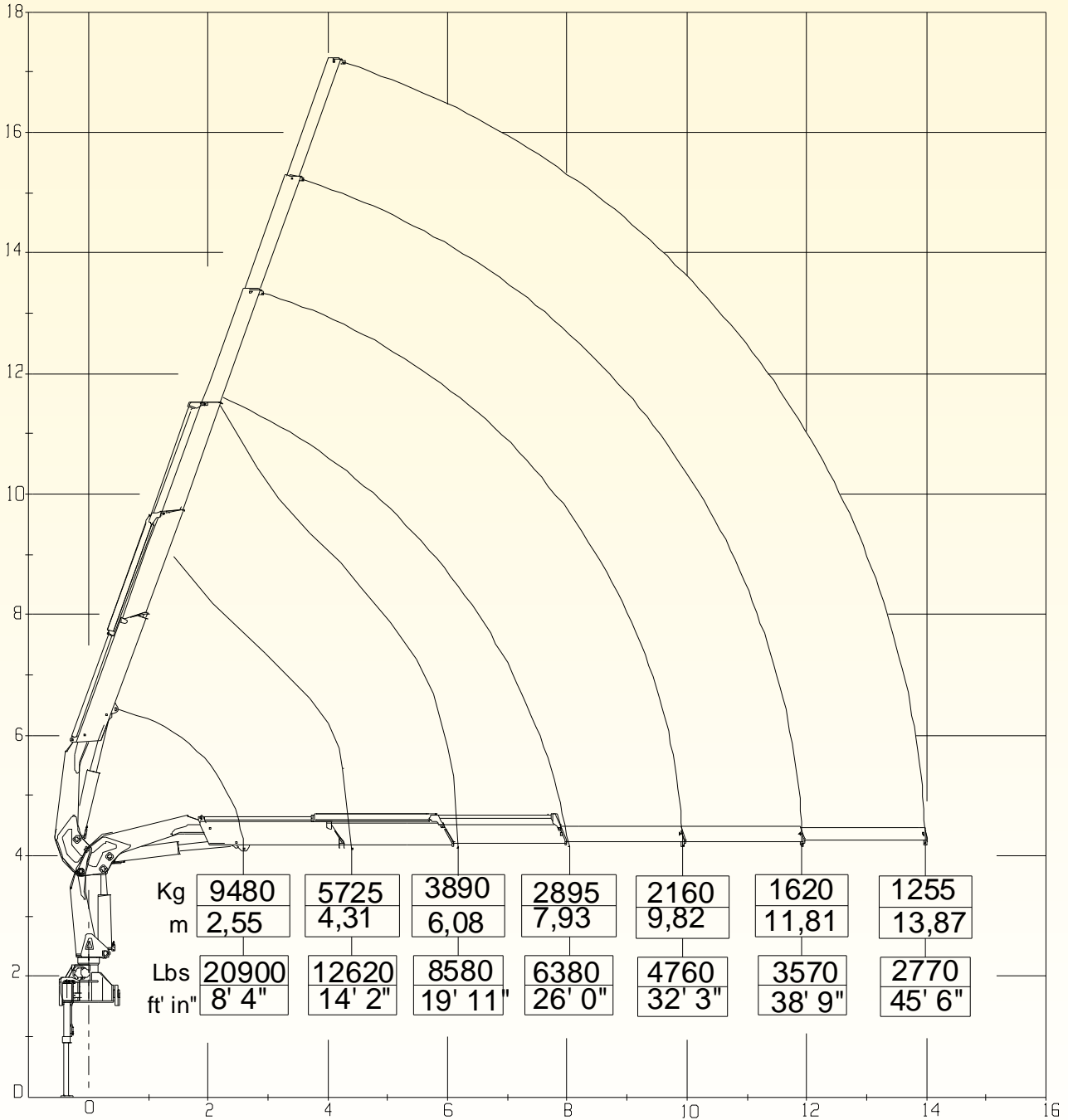
# HB250 TECHNICAL SHEET

## LOAD DIAGRAM E1



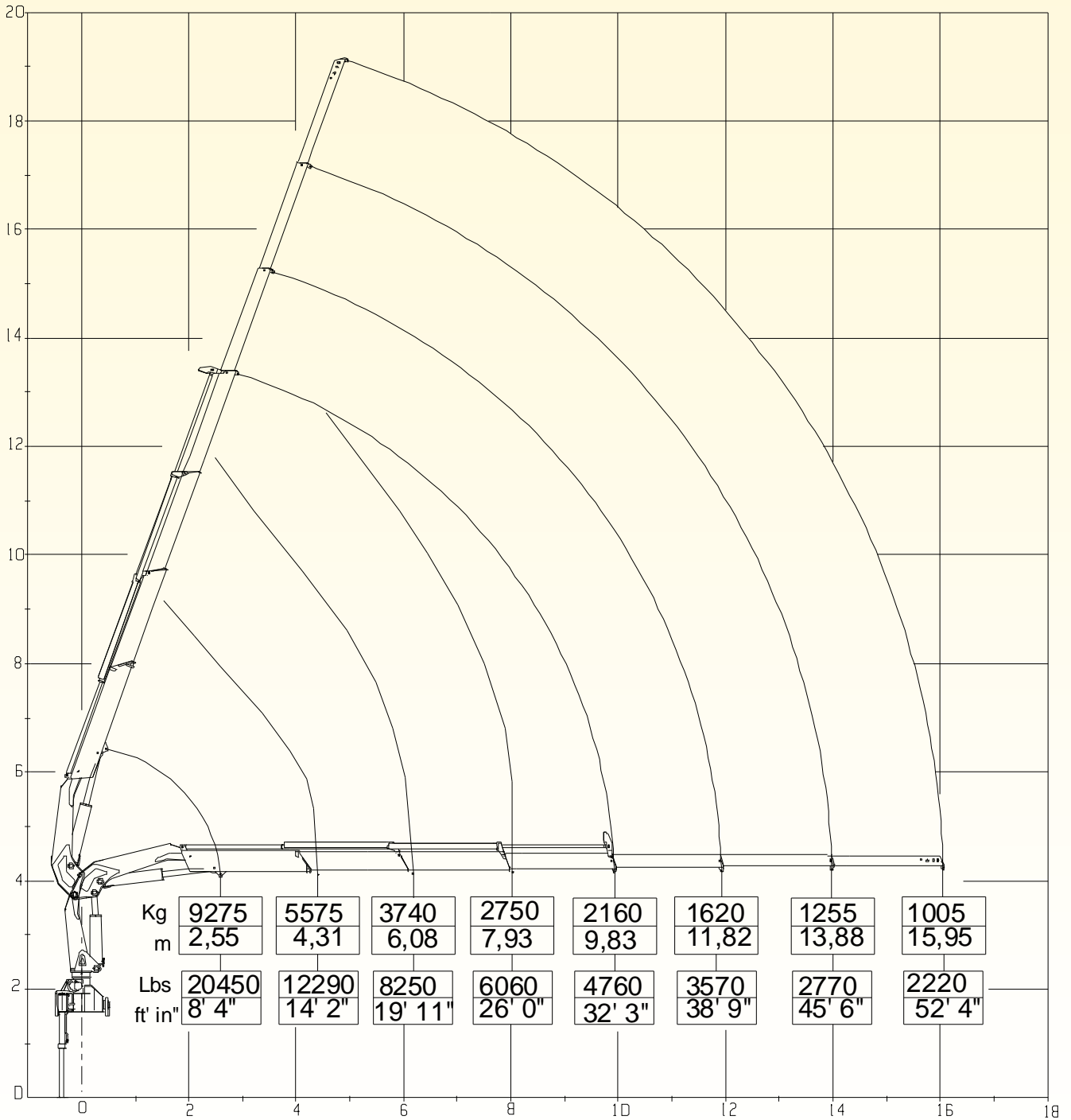
# HB250 TECHNICAL SHEET

## LOAD DIAGRAM E2



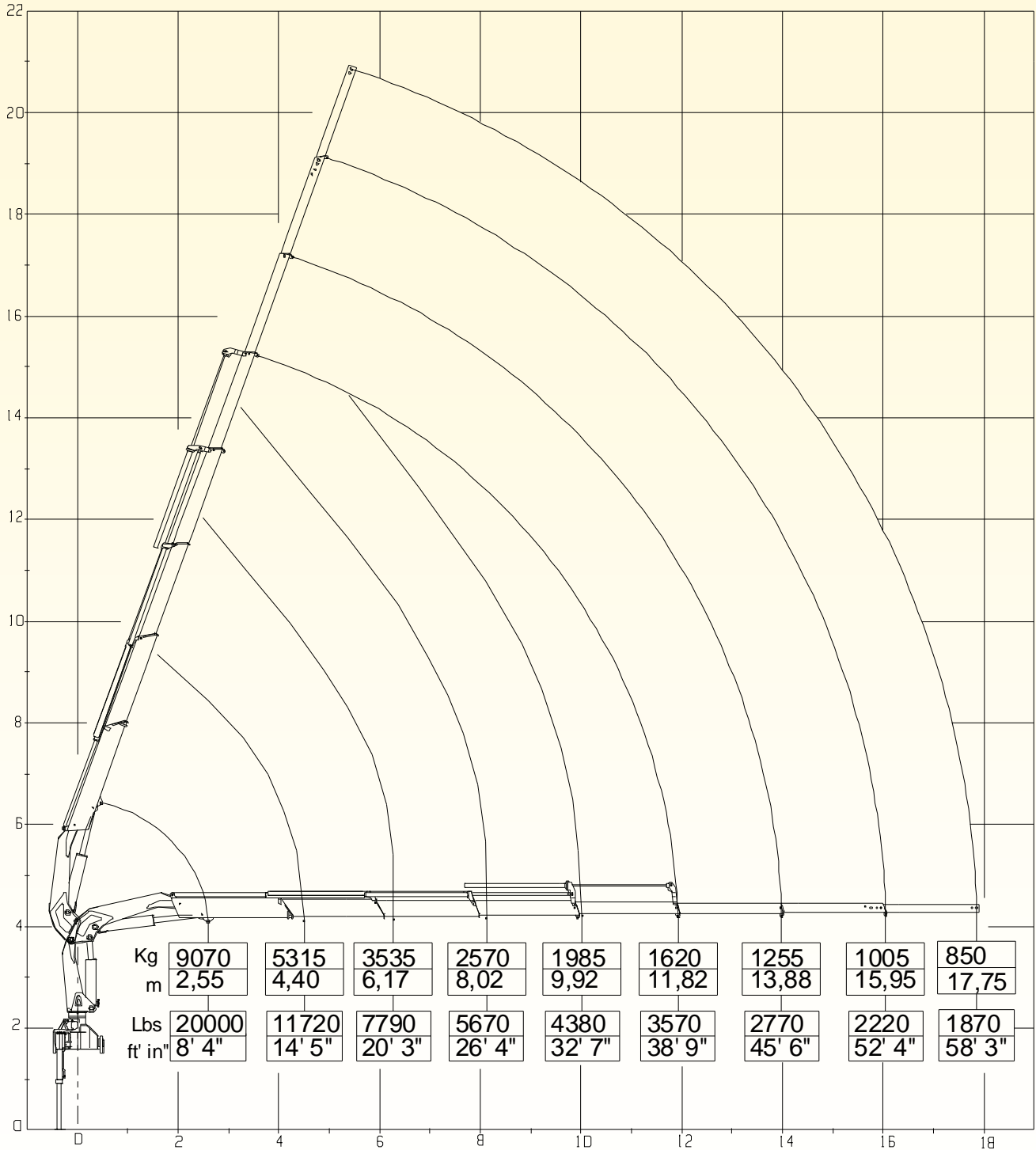
# HB250 TECHNICAL SHEET

## LOAD DIAGRAM E3



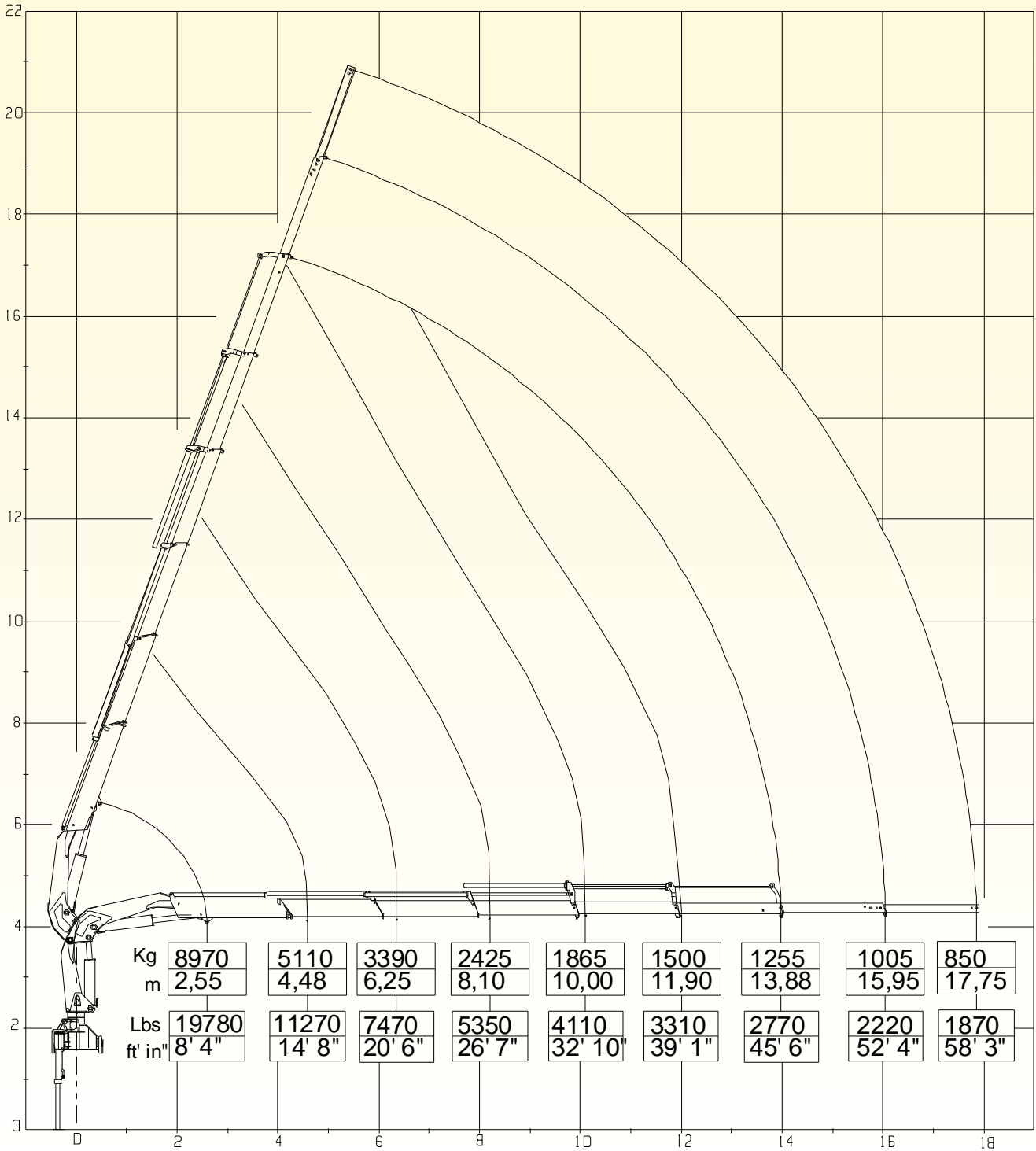
# HB250 TECHNICAL SHEET

## LOAD DIAGRAM E4



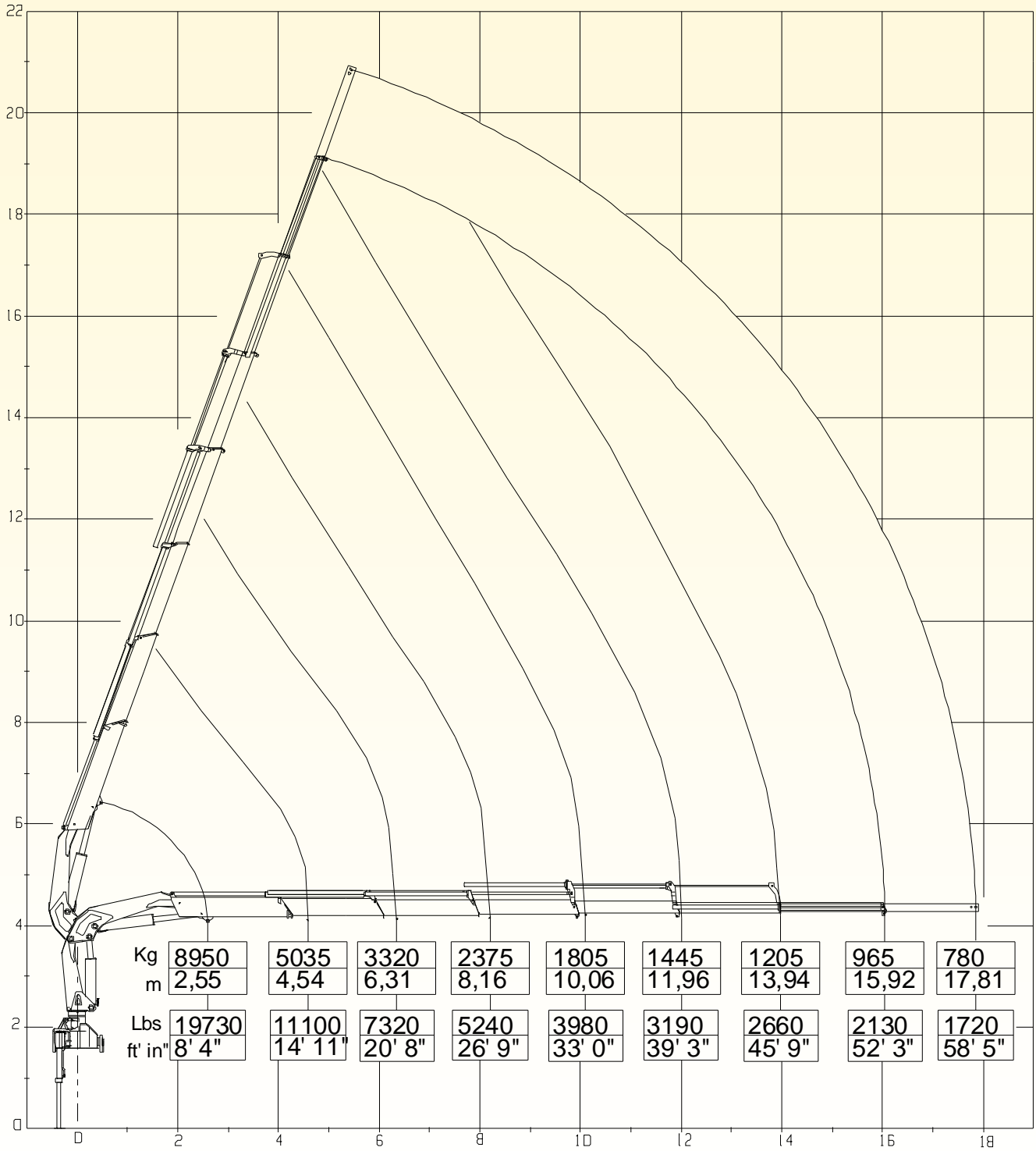
# HB250 TECHNICAL SHEET

## LOAD DIAGRAM E6



# HB250 TECHNICAL SHEET

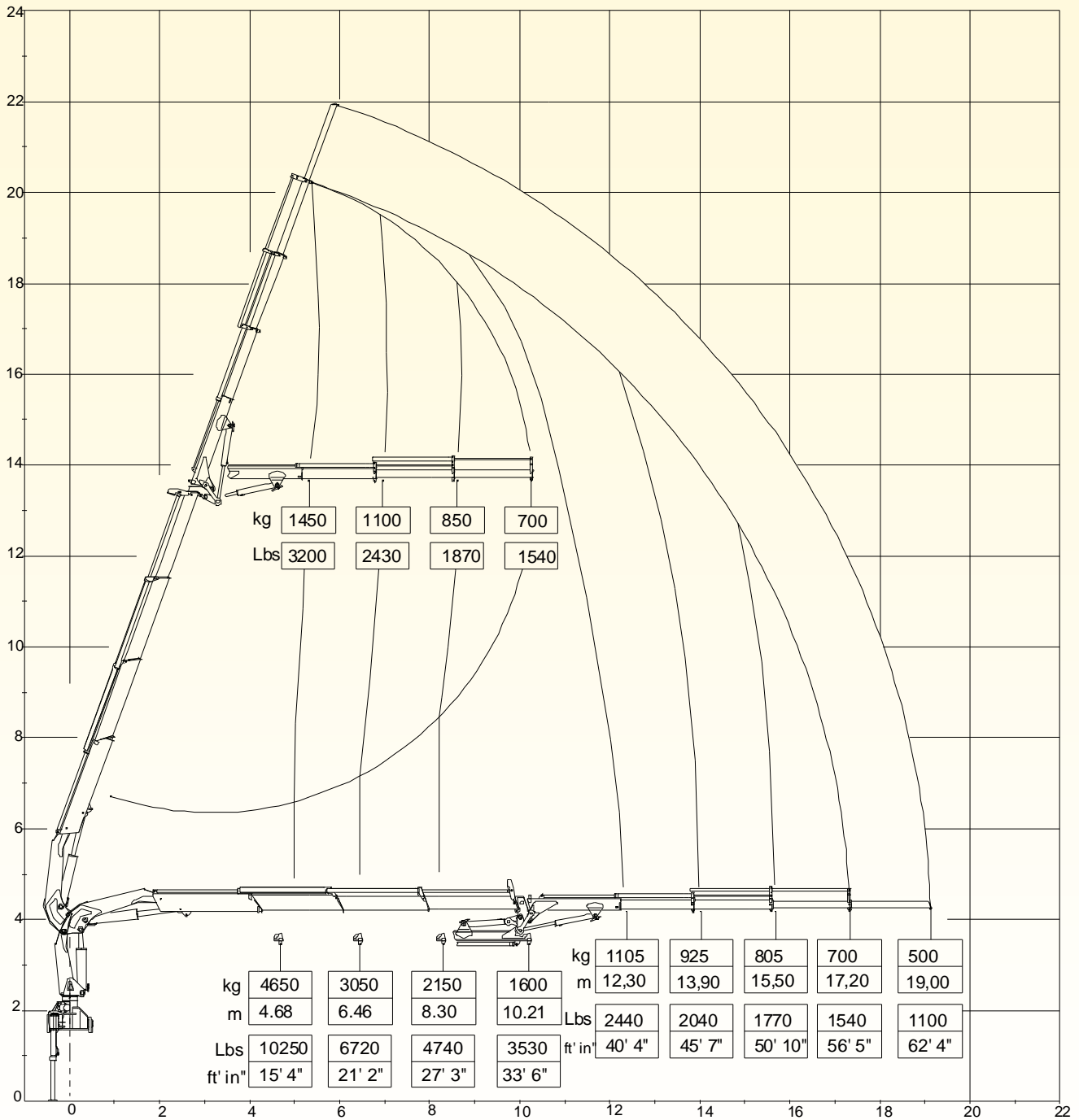
## LOAD DIAGRAM E6





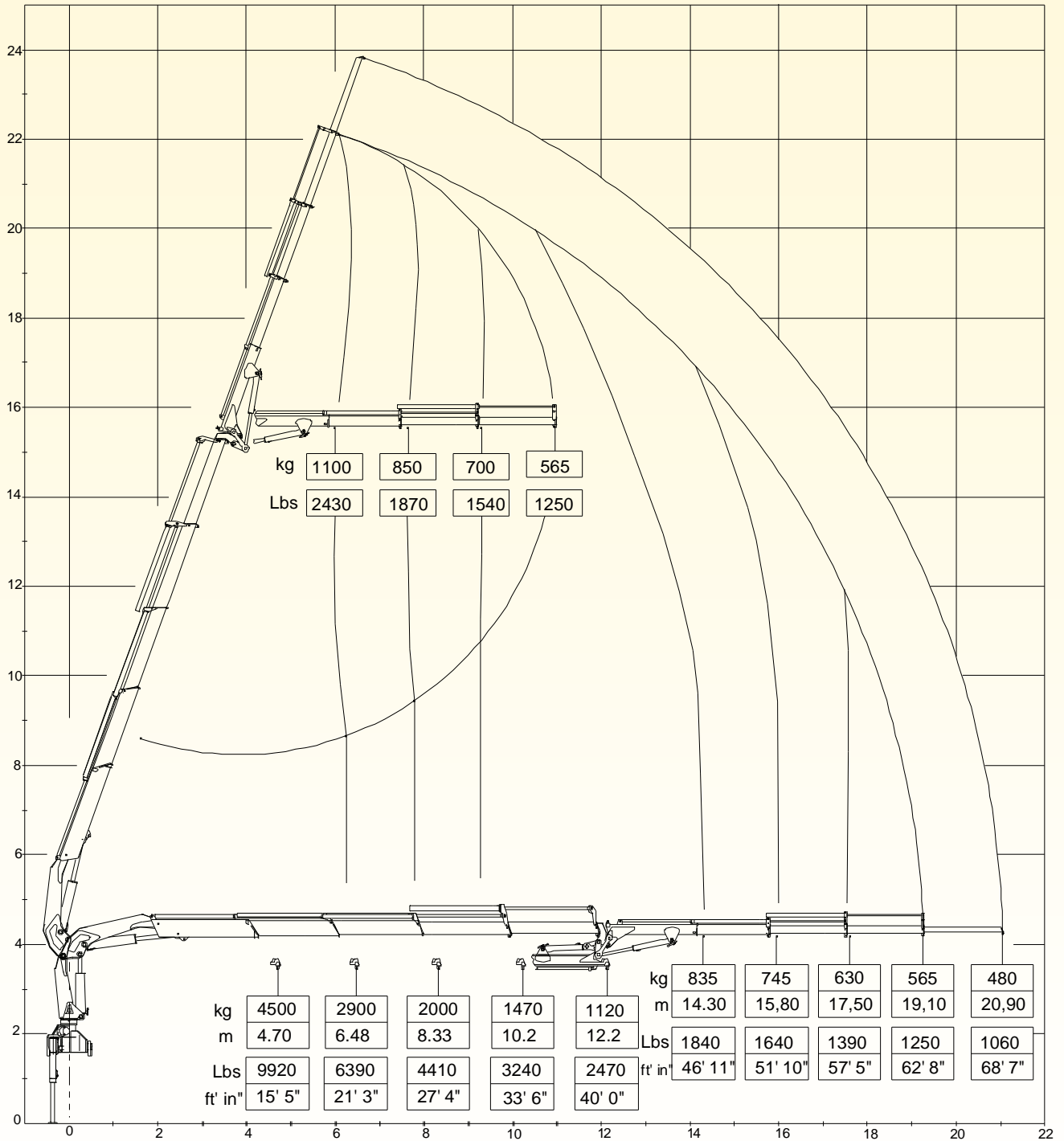
# HB250 TECHNICAL SHEET

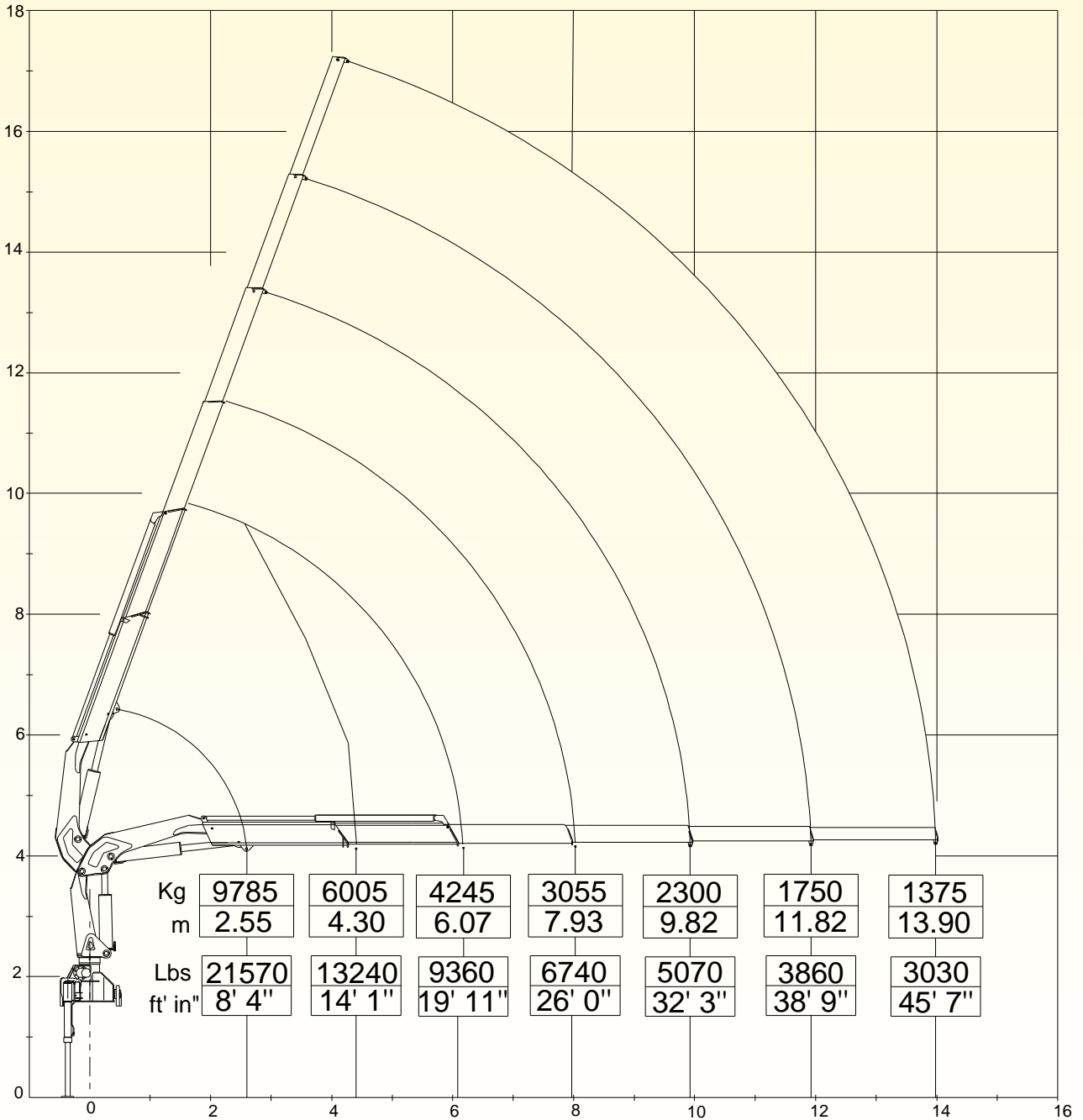
## LOAD DIAGRAM E3J3



# HB250 TECHNICAL SHEET

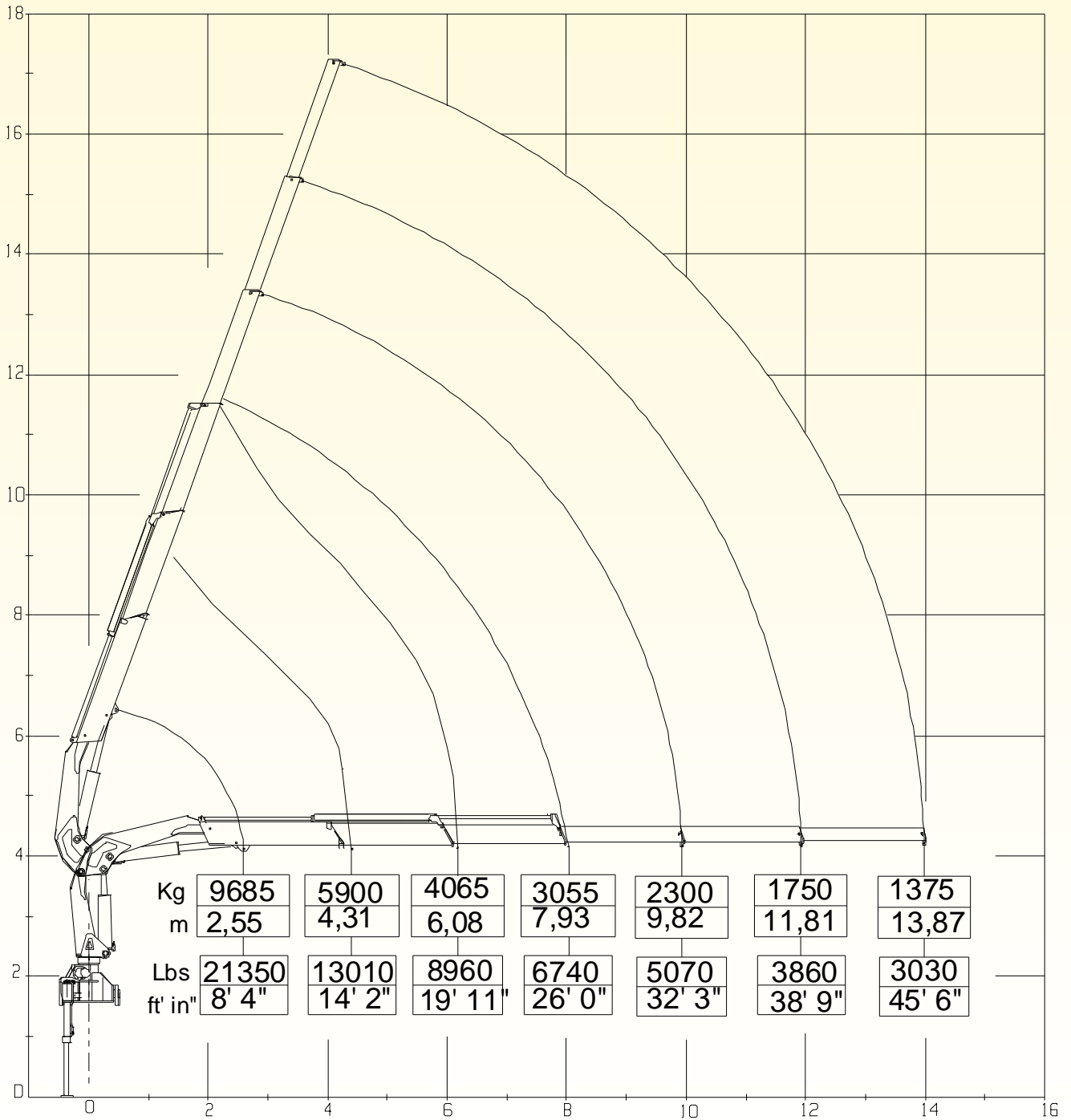
## LOAD DIAGRAM E4J3

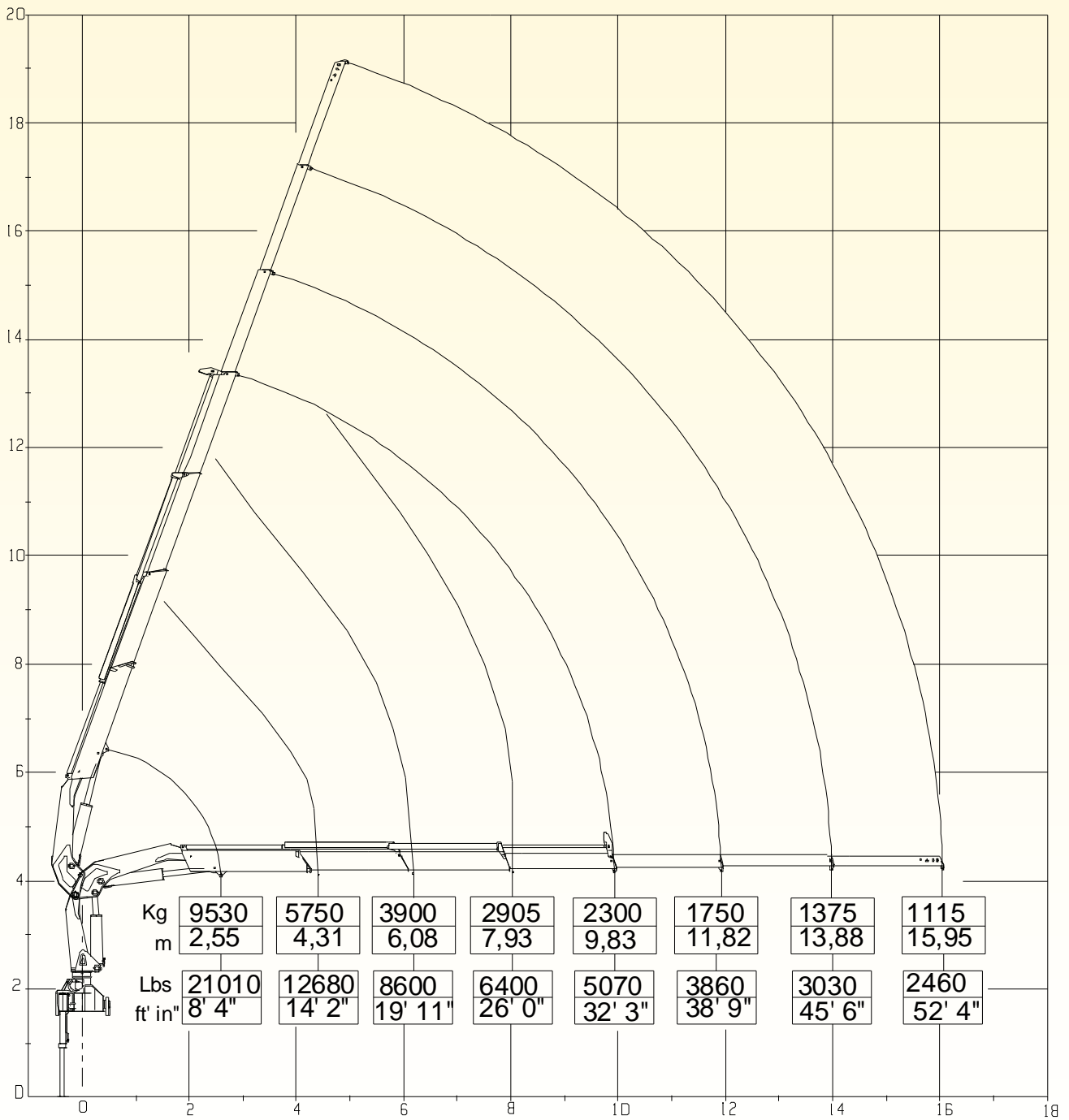


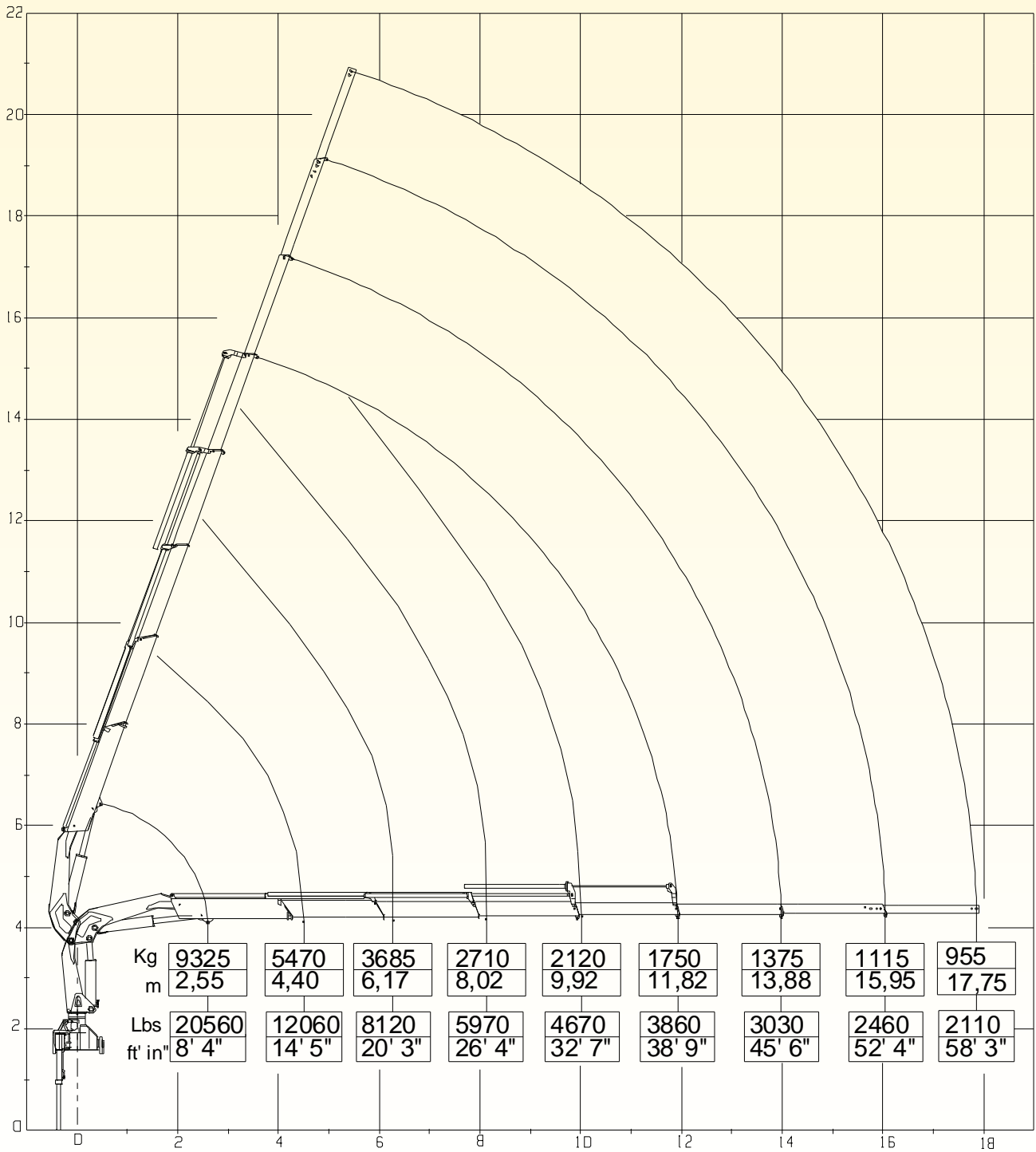


# HB280 TECHNICAL SHEET

## LOAD DIAGRAM E2

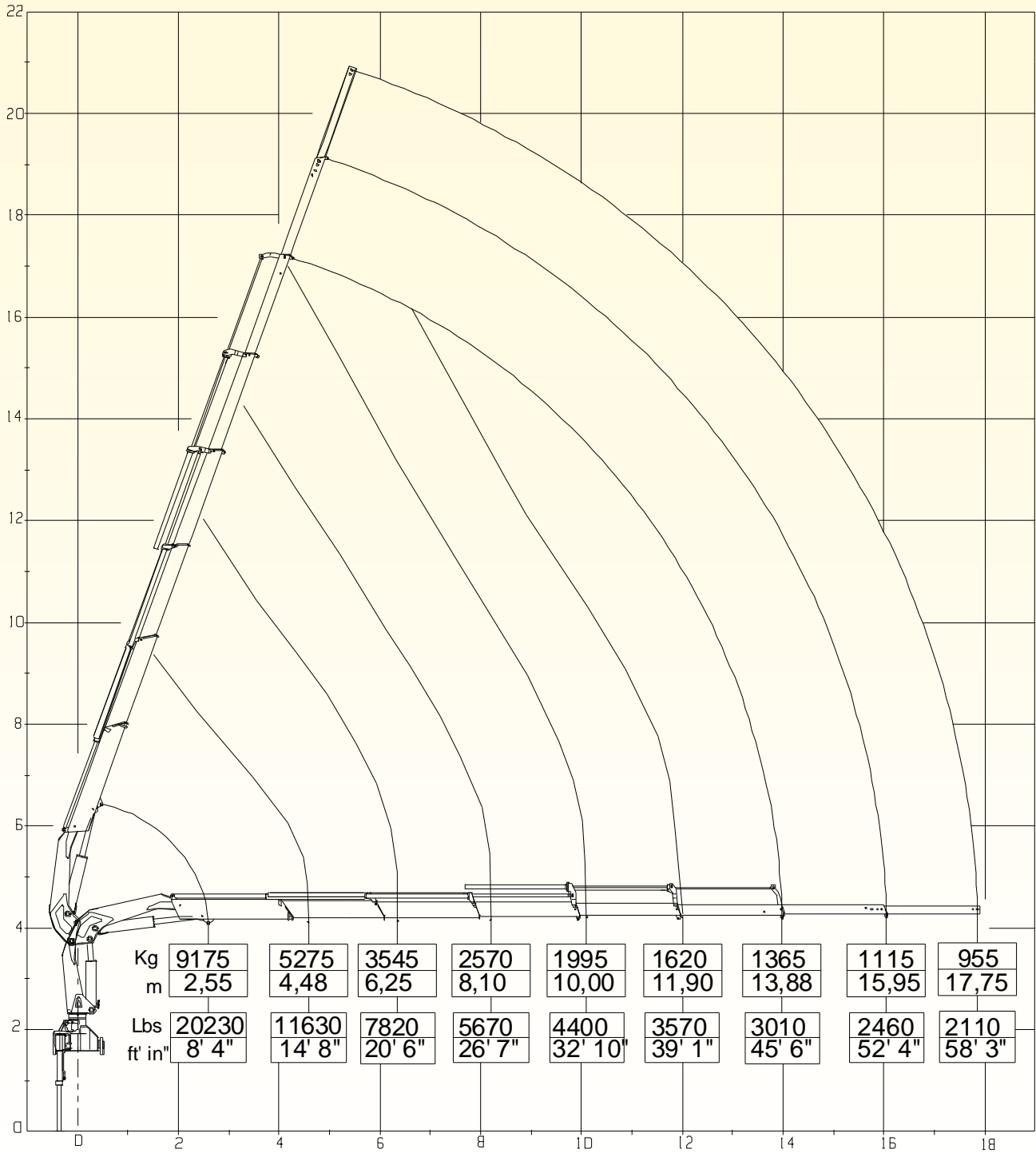


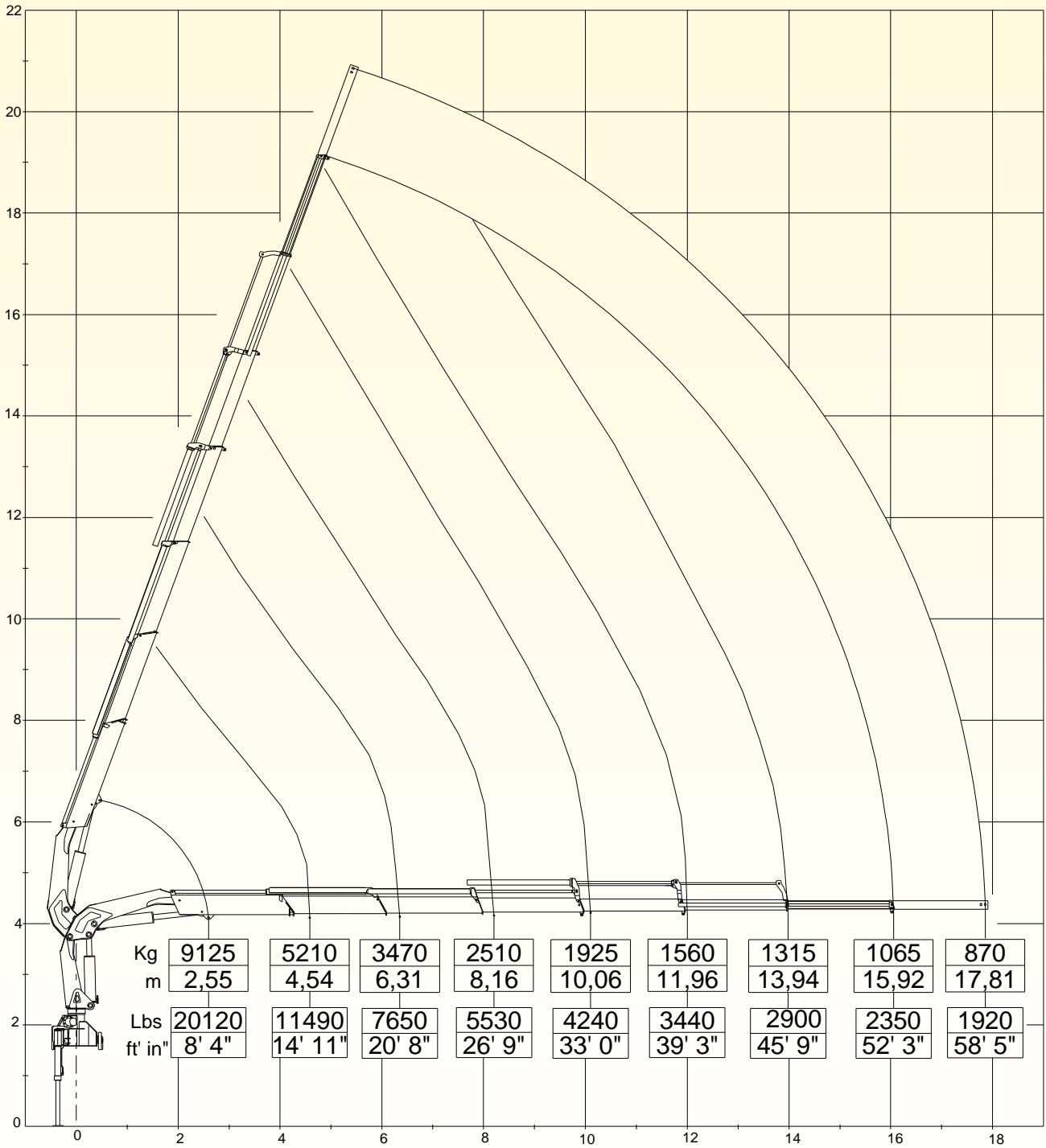




# HB280 TECHNICAL SHEET

## LOAD DIAGRAM E5

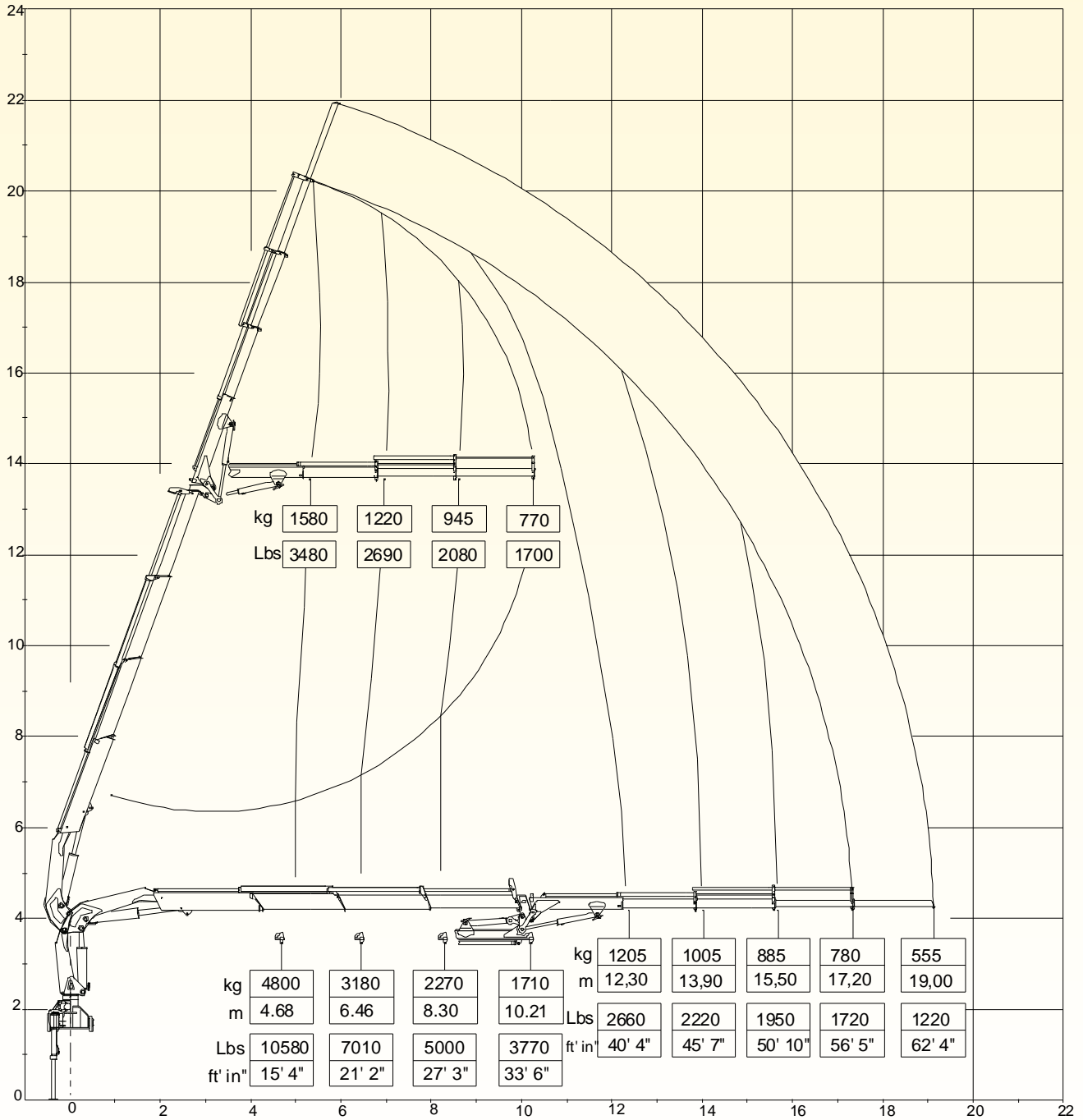






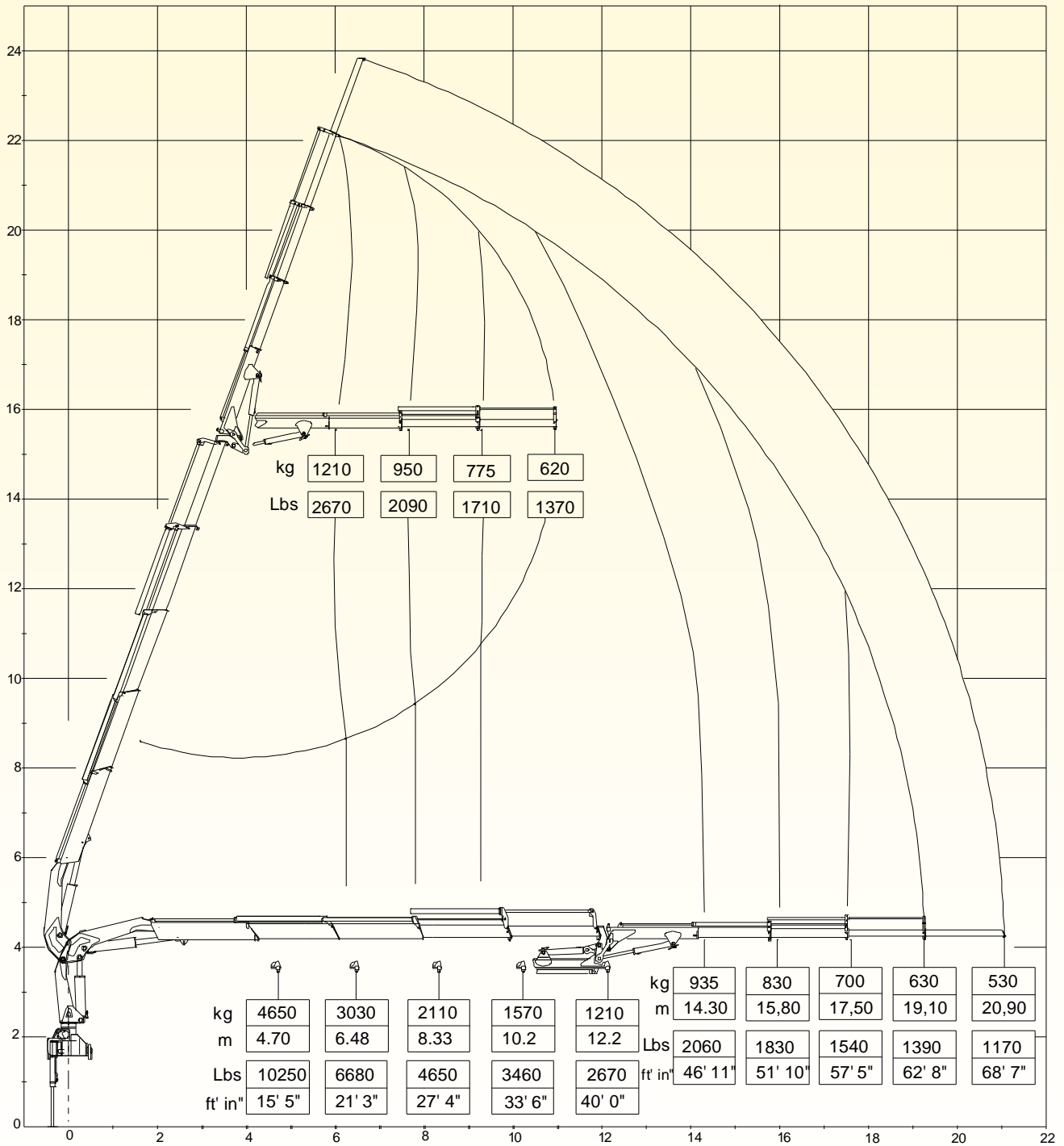
# HB280 TECHNICAL SHEET

## LOAD DIAGRAM E3J3



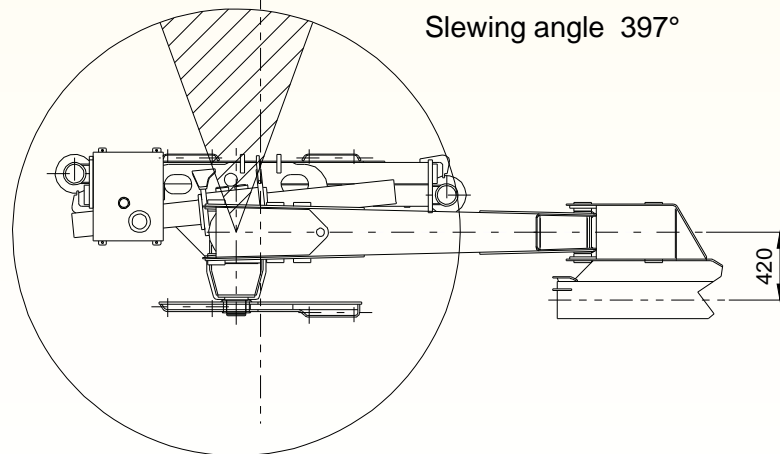
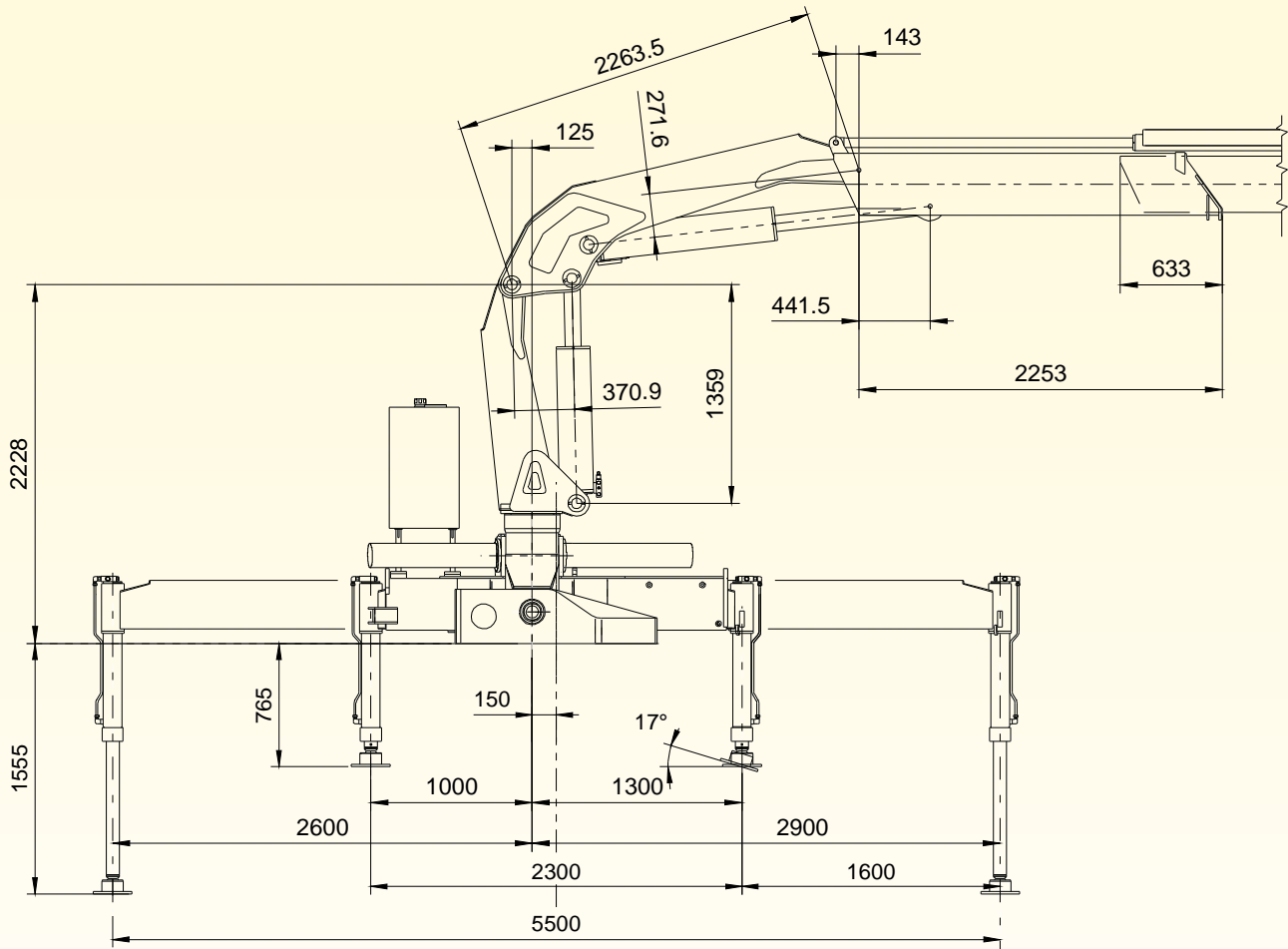
# HB280 TECHNICAL SHEET

## LOAD DIAGRAM E4J3



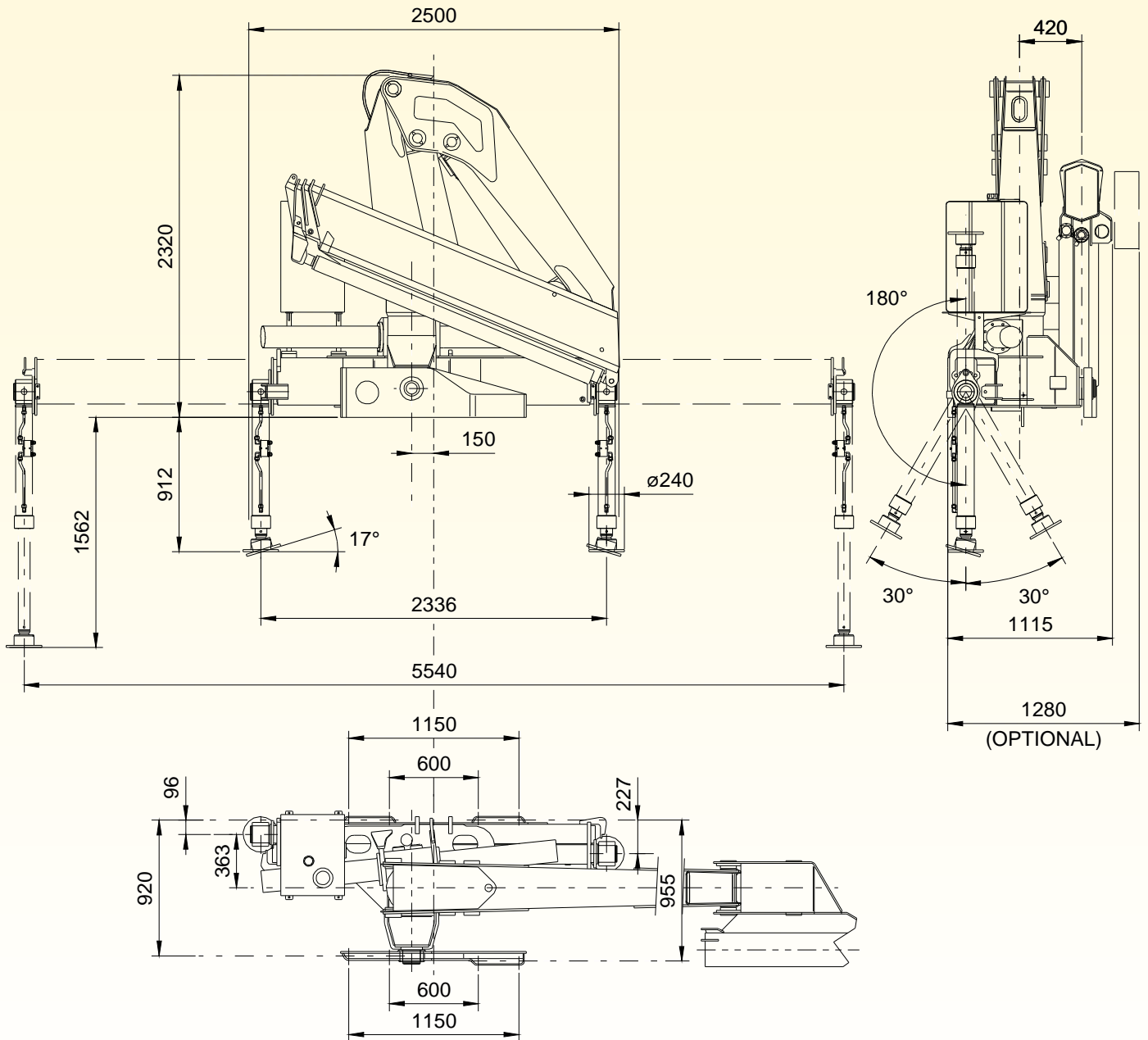
# HB250-HB280 TECHNICAL SHEET

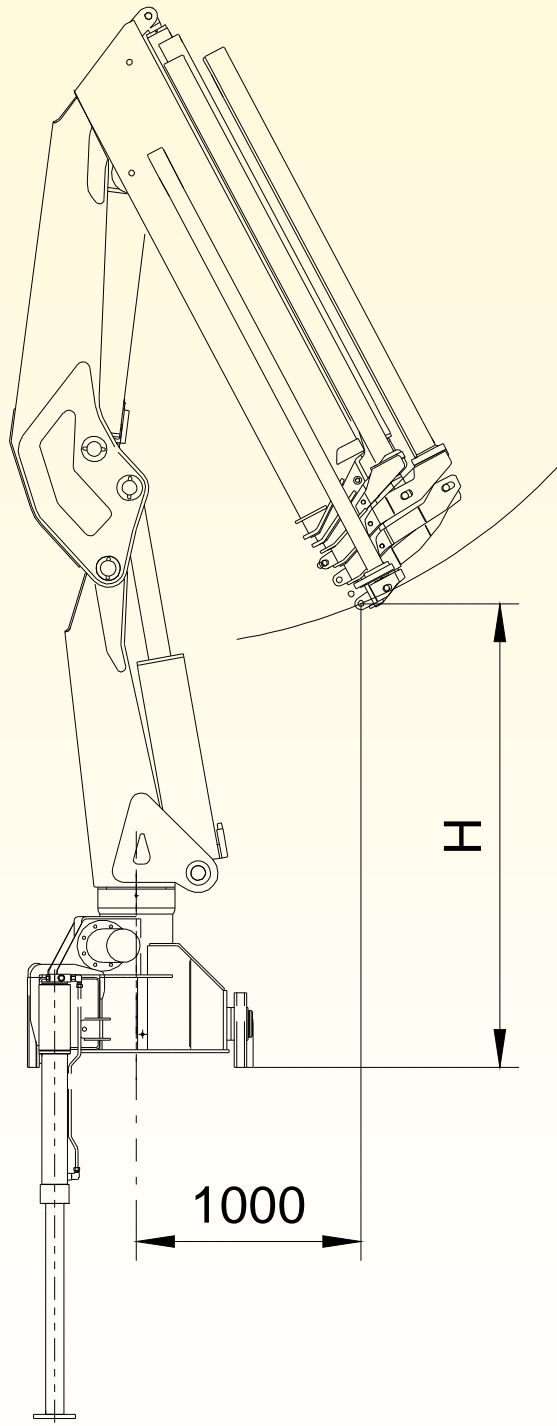
## BASE – COLUMN – 1ST 2ND BOOM - DIMENSION



# HB250-HB280 TECHNICAL SHEET

## DIMENSIONS OF THE BASE WITH MANUAL TILTING STABILIZERS

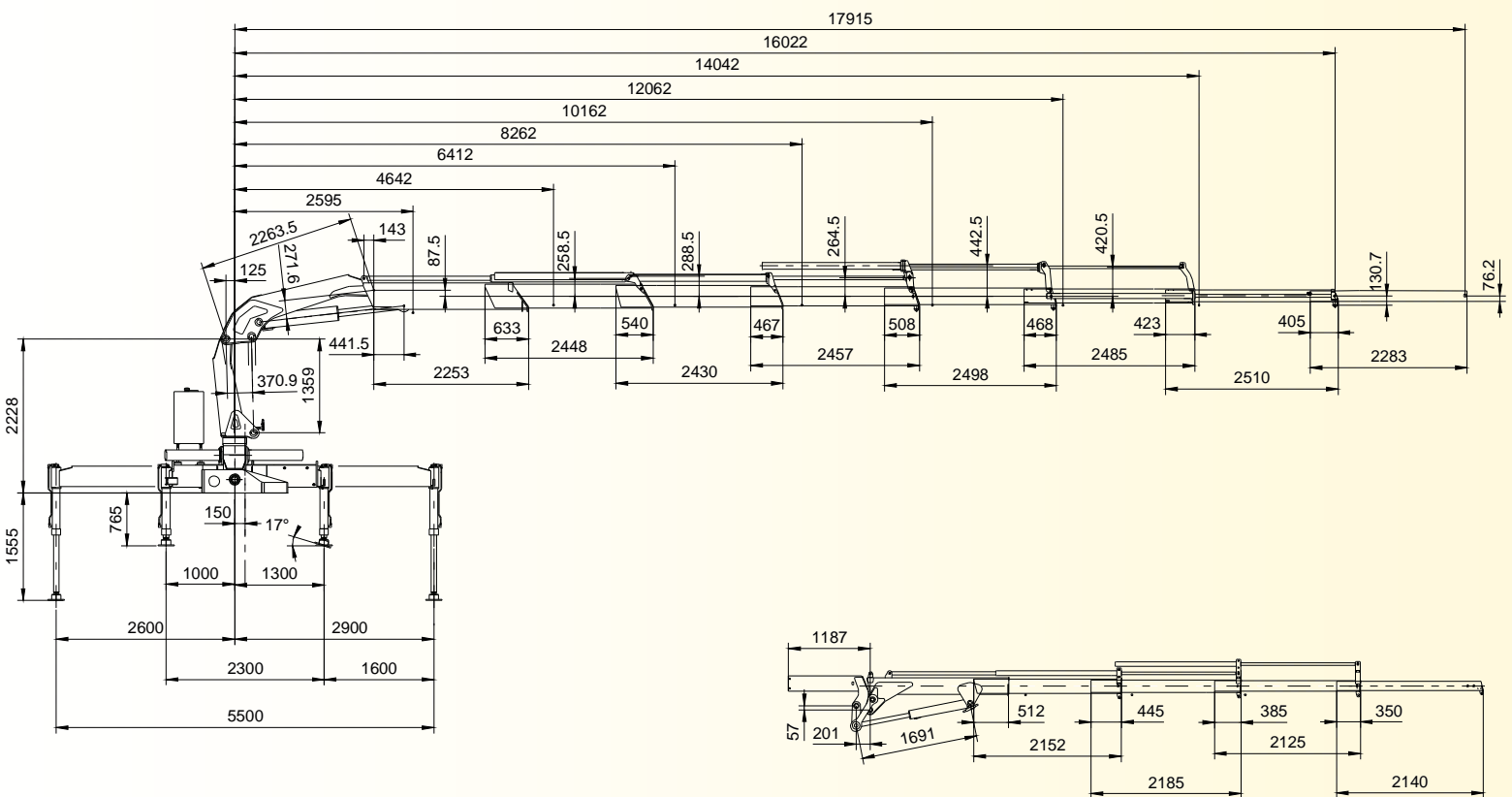




	H
E1	2310 mm
E2	2310 mm
E3	2310 mm
E4	2210 mm
E5	2130 mm
E6	2070 mm

# HB250-HB280 TECHNICAL SHEET

## EXTENSIONS DIMENSIONS



# HB250-HB280 TECHNICAL SHEET

## CYLINDERS AND PINS DIMENSIONS

### LIFTING CYLINDER

Cylinder bore	185
Cyl. ext. diameter	210
Rod diameter	100 - 60
Centers (open)	1746
Centers (closed)	1052
Stroke	694
Artic. pin Ø	7/8" - 14
Pin material	65
Cylinder bore	39NiCrMo3 QT

### ARTICULATION CYLINDER

Cylinder bore	185
Cyl. ext. diameter	210
Rod diameter	100 - 60
Centers (open)	2129
Centers (closed)	1244
Stroke	885
Artic. pin Ø	7/8" - 14
Pin material	65
Cylinder bore	39NiCrMo3 QT

### 1<sup>ST</sup> EXTENSION CYLINDER

Cylinder bore	85
Cyl. ext. diameter	100
Rod diameter	60 - 45
Centers (open)	3956
Centers (closed)	2086
Stroke	1770
Artic. pin Ø	7/8" - 14
Pin material	30
Cylinder bore	39NiCrMo3 QT

### 2<sup>ND</sup> EXTENSION CYLINDER

Cylinder bore	85
Cyl. ext. diameter	100
Rod diameter	60 - 45
Centers (open)	2003
Centers (closed)	153
Stroke	1850
Artic. pin Ø	7/8" - 14
Pin material	30
Cylinder bore	C40 NORM

### 3<sup>RD</sup> - 4<sup>TH</sup> EXTENSION CYLINDER

Cylinder bore	80
Cyl. ext. diameter	95
Rod diameter	50 - 35
Centers (open)	2053
Centers (closed)	153
Stroke	1900
Artic. pin Ø	7/8" - 14
Pin material	30
Cylinder bore	C40 NORM

### 5<sup>TH</sup> EXTENSION CYLINDER

Cylinder bore	65
Cyl. ext. diameter	75
Rod diameter	40 - 25
Centers (open)	2095
Centers (closed)	115
Stroke	1980
Artic. pin Ø	7/8" - 14
Pin material	25
Cylinder bore	C40 NORM

### 6<sup>TH</sup> EXTENSION CYLINDER

Cylinder bore	65
Cyl. ext. diameter	75
Rod diameter	40 - 25
Centers (open)	2065
Centers (closed)	85
Stroke	1980
Artic. pin Ø	7/8" - 14
Pin material	25
Cylinder bore	C40 NORM

### ROTATION CYLINDER

Cylinder bore	130
Cyl. ext. diameter	150
Rod diameter	-
Centers (open)	-
Centers (closed)	-
Stroke	831
Artic. pin Ø	-
Pin material	-
Cylinder bore	-

# HB250-HB280 TECHNICAL SHEET

## JIB CYLINDERS AND PINS DIMENSIONS

### JIB ARTICULATION CYLINDER

<i>Cylinder bore</i>	110
<i>Cyl. ext. diameter</i>	125
<i>Rod diameter</i>	60 - 0
<i>Centers (open)</i>	1693
<i>Centers (closed)</i>	990
<i>Stroke</i>	703
<i>Artic. pin Ø</i>	-
<i>Pin material</i>	45 - 60
<i>Cylinder bore</i>	C40 - 39NiCrMo3

### 1<sup>ST</sup> JIB EXTENSION CYLINDER

<i>Cylinder bore</i>	65
<i>Cyl. ext. diameter</i>	75
<i>Rod diameter</i>	45 - 0
<i>Centers (open)</i>	3340
<i>Centers (closed)</i>	1790
<i>Stroke</i>	1550
<i>Artic. pin Ø</i>	3/4" - 16
<i>Pin material</i>	20
<i>Cylinder bore</i>	C40

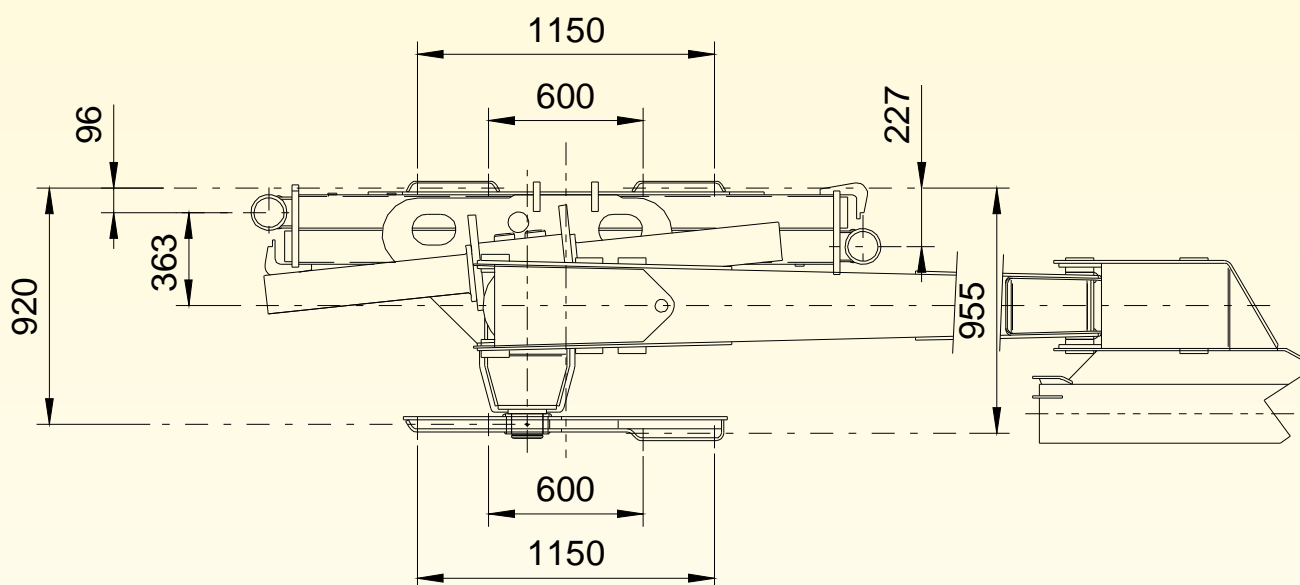
### 2<sup>ND</sup> - 3<sup>RD</sup> JIB EXTENSION CYLINDER

<i>Cylinder bore</i>	60
<i>Cyl. ext. diameter</i>	70
<i>Rod diameter</i>	35 - 0
<i>Centers (open)</i>	1740
<i>Centers (closed)</i>	90
<i>Stroke</i>	1650
<i>Artic. pin Ø</i>	3/4" - 16
<i>Pin material</i>	20
<i>Cylinder bore</i>	C40



# HB250-HB280 TECHNICAL SHEET

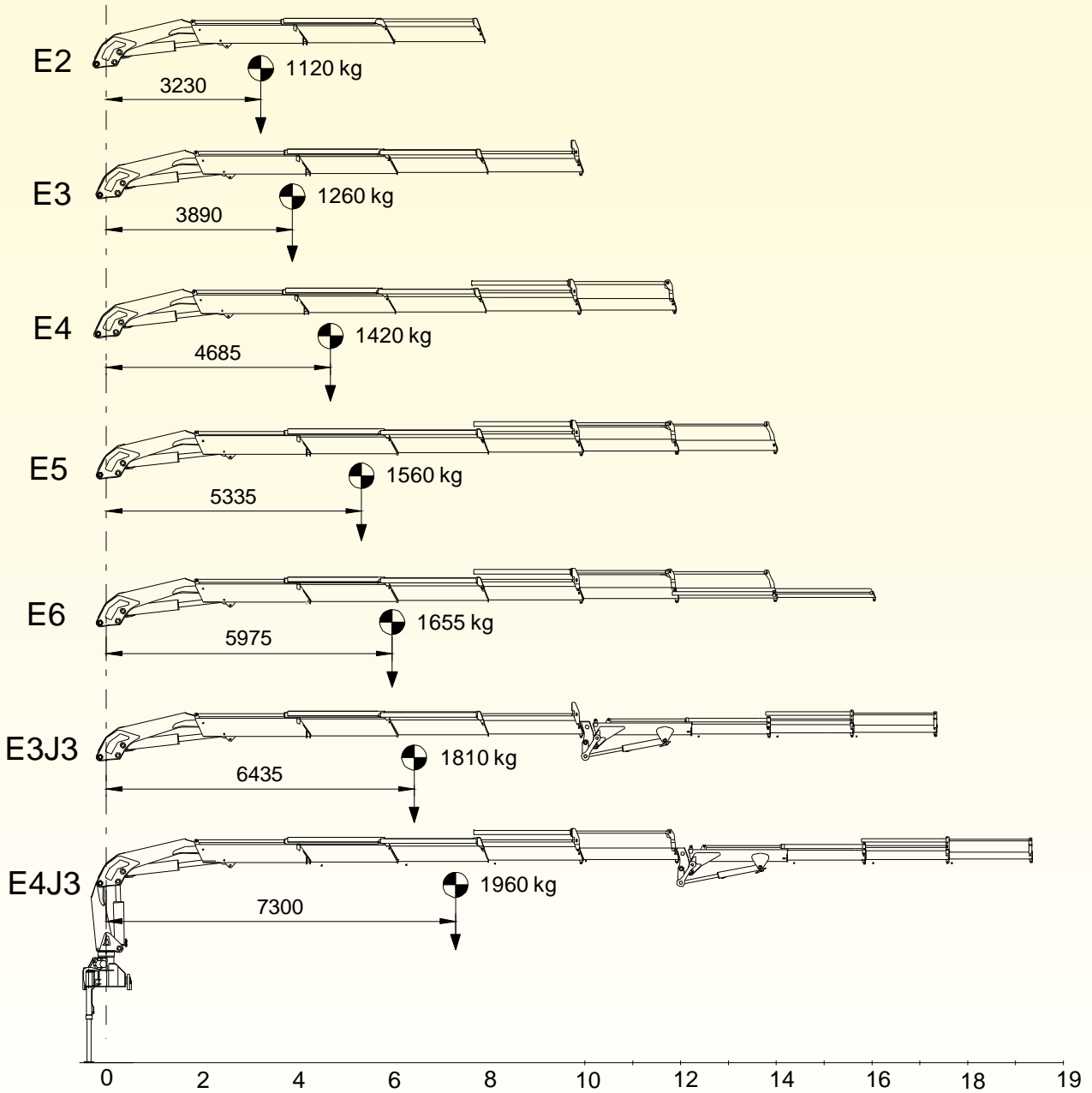
## BASE DIMENSIONS



<b>Tie mounting rods</b>	N°8 M30x2 39NiCrMo3 QT	<b>Tightening torque</b>	700 Nm
<b>Fixing bolts for 1 rotation cylinder</b>	N°8 M16x45 8.8 UNI 5931	<b>Tightening torque</b>	341 Nm

# HB250-HB280 TECHNICAL SHEET

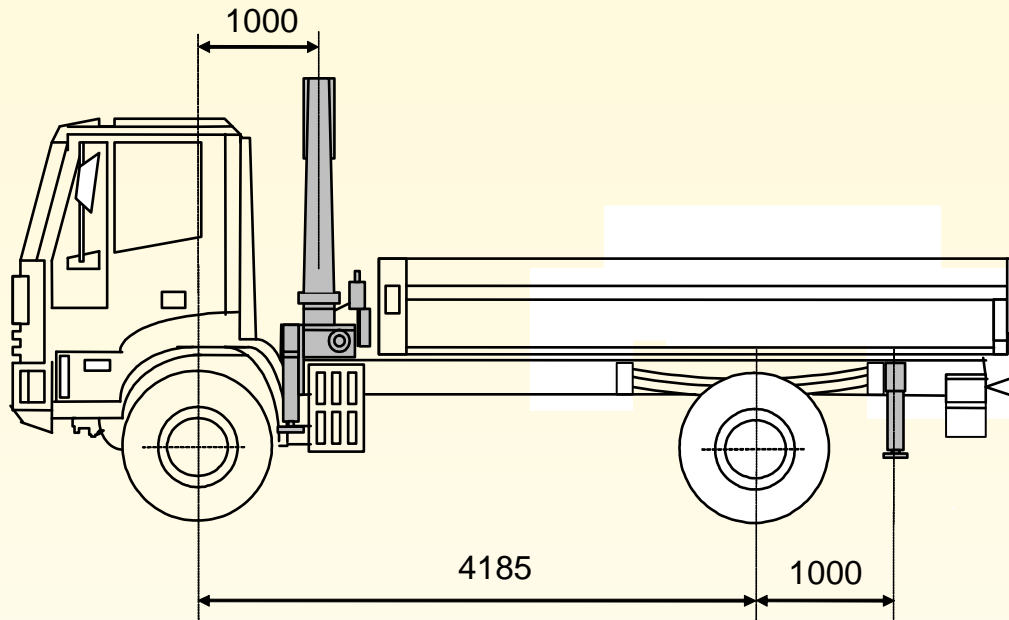
## WEIGHTS – CENTER OF GRAVITY



	HB250	HB280
Fixed parts weights [kg]	2080	2130

# HB250-HB280 TECHNICAL SHEET

## MIN TRUCK WITH SUPPLEMENTARY STABILIZERS



**GVW = 19 ton**

### CHASSIS DATA

#### *Front axle*

Front axle tare weight = 3845 kg

Allowable front axle weight = 7500 kg

#### *Rear axle*

Rear axle tare weight = 2045 kg

### OUTFIT WEIGHTS

Body weight = 1000 kg

Crane weight = 3690 kg (HB280 E5)

Counterframe weight = 800 kg

### Rear beam stabilizers

Min. width = 5000 mm

Rear stabilizer weight = 550 kg

**Stability index = 1.47**

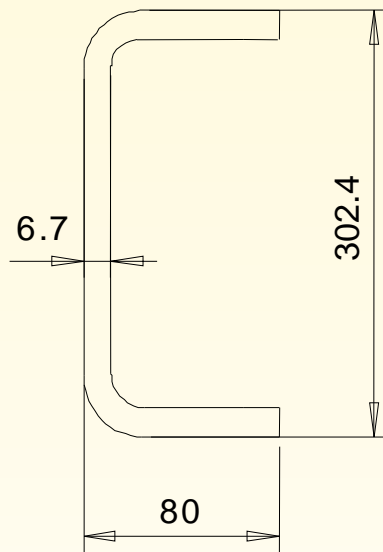
# HB250-HB280 TECHNICAL SHEET

## MIN COUNTERFRAME

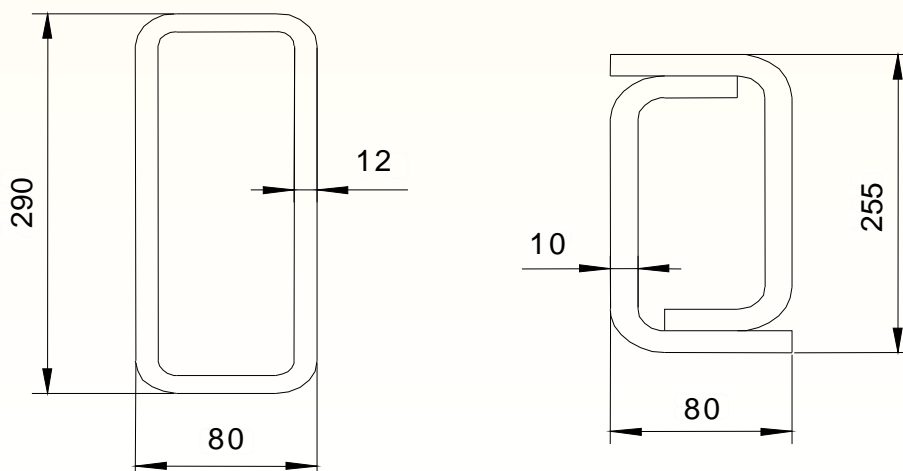
Max dynamic moment [daNm]
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31455
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Min frame section (truck GVW = 19 ton ; steel S355)

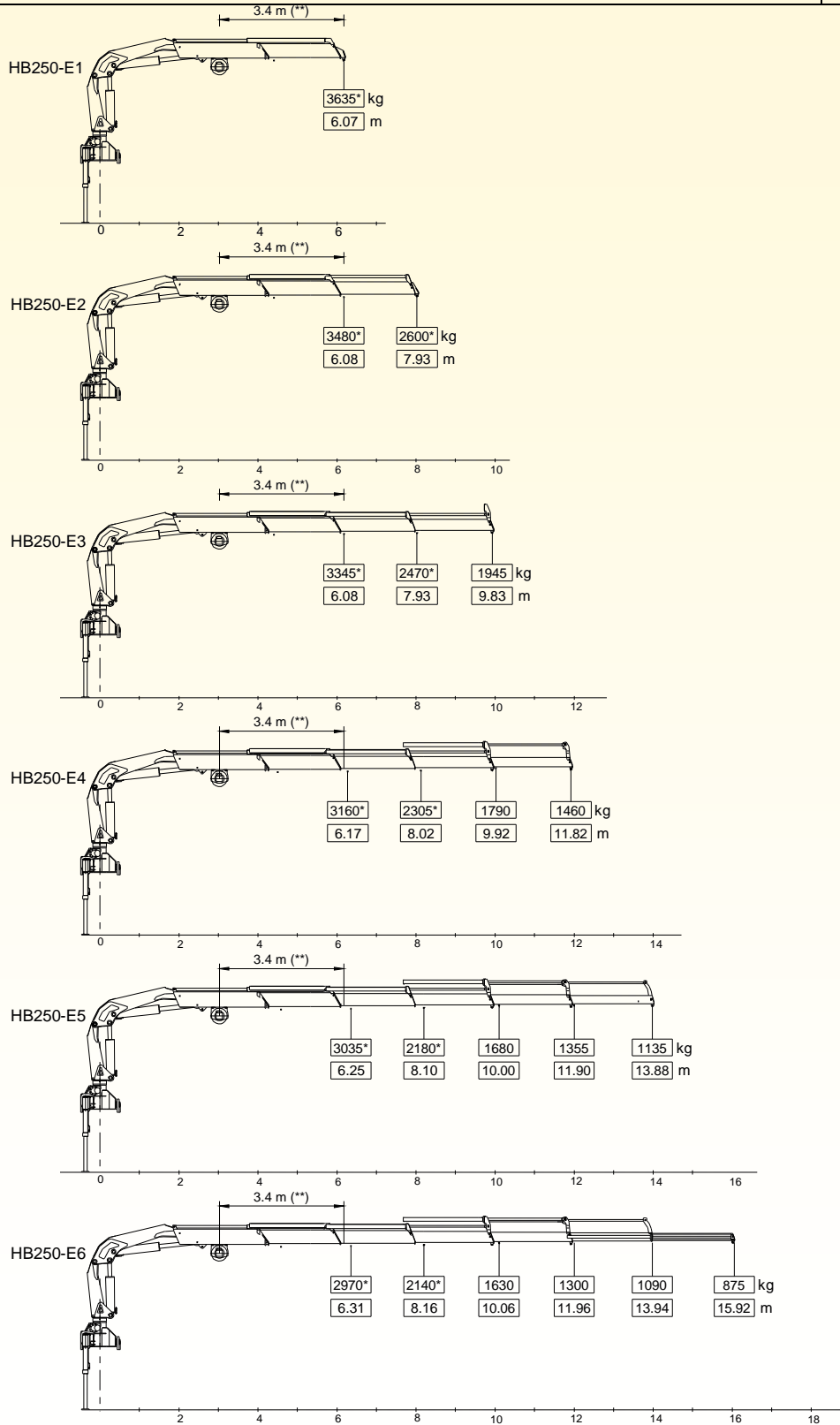


Min counterframe section (steel S355)



**Max winch direct pull [kg]**

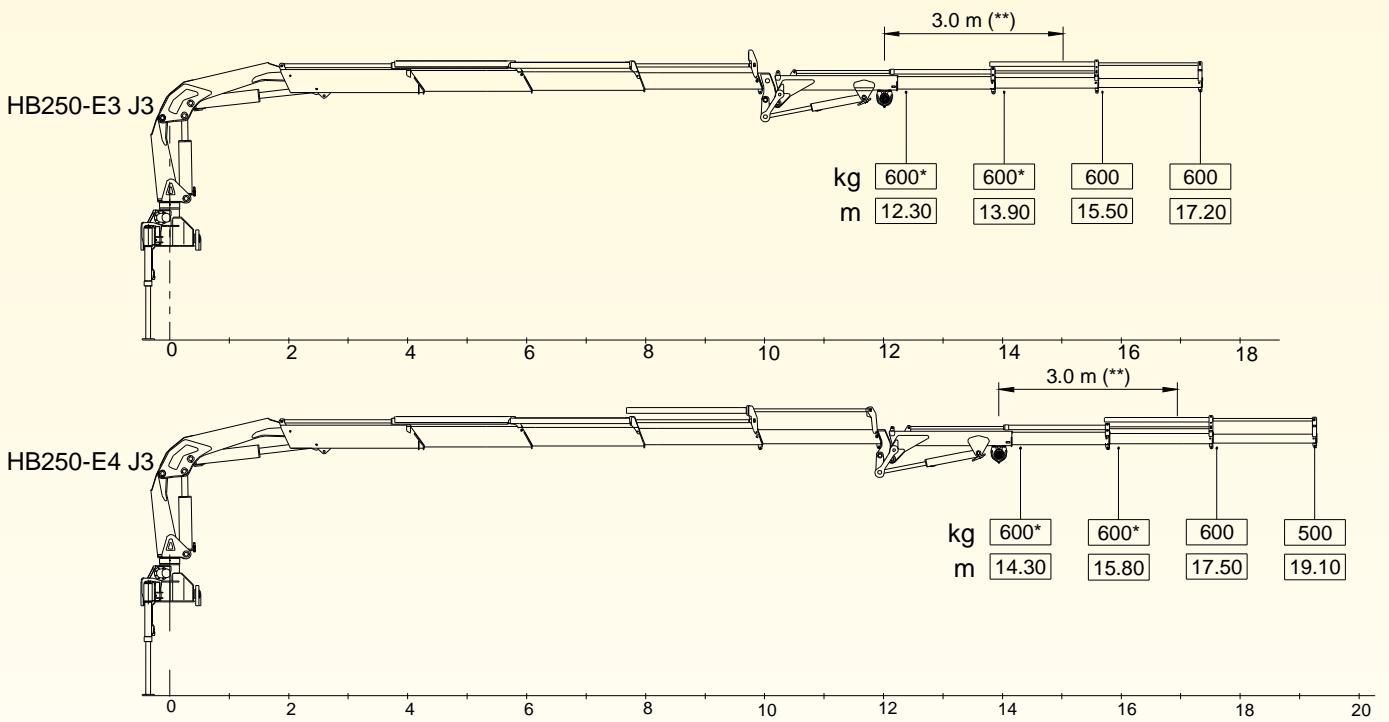
**2000**



(\*\*) = Min distance for using the winch

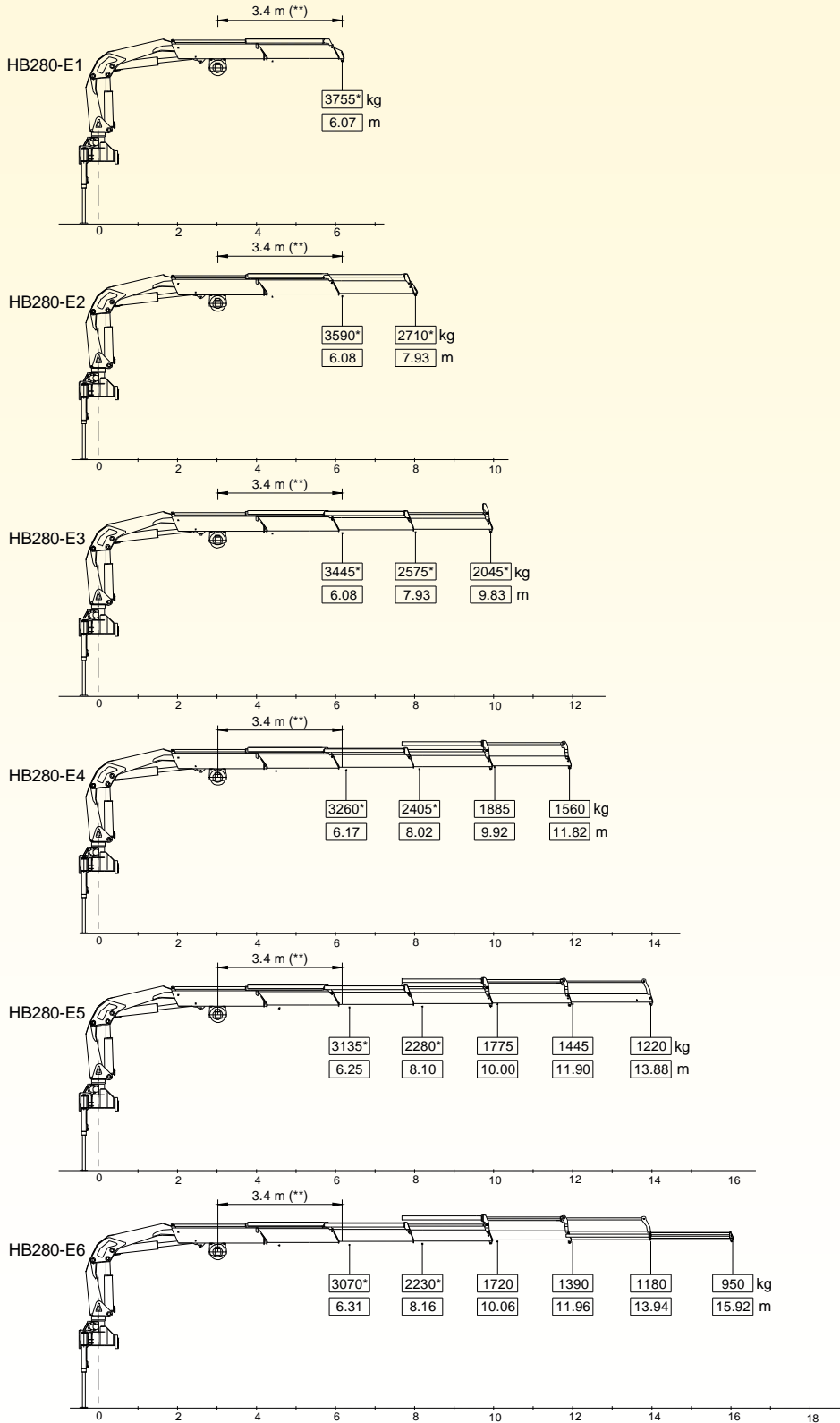
(\*\*) = Min Abstand für Benutzung der Winde

<b>Max winch direct pull [kg]</b>	<b>600</b>
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(\*\*) = Min distance for using the winch if this is installed on jib boom  
 (\*\*) = Min Abstand für Benutzung der Winde wenn aufm Jib-Ausleger installiert

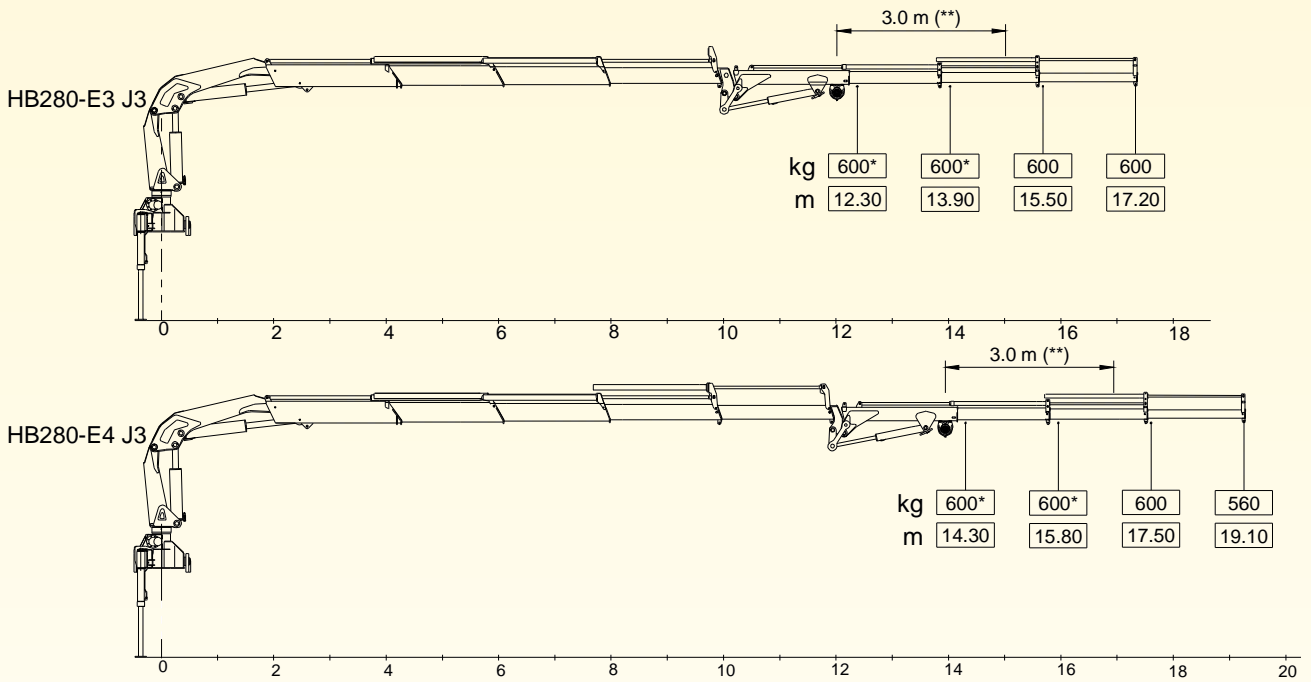
<b>Max winch direct pull [kg]</b>	<b>2000</b>
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(\*\*) = Min distance for using the winch

(\*\*) = Min Abstand für Benutzung der Winde

<b>Max winch direct pull [kg]</b>	<b>600</b>
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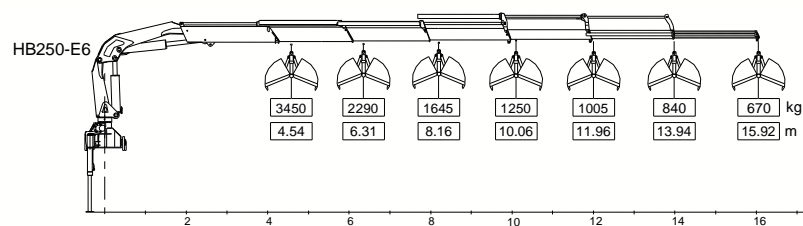
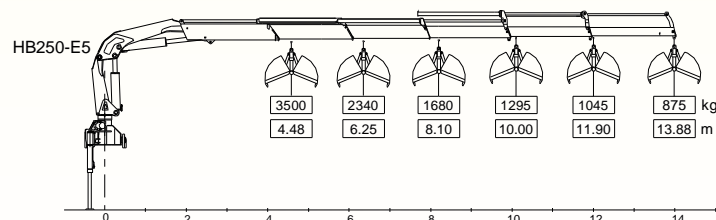
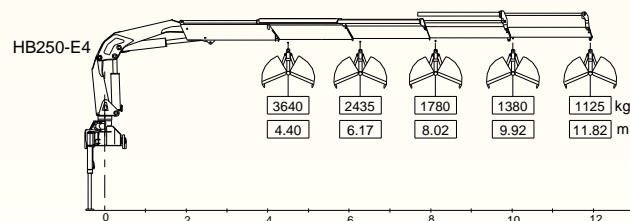
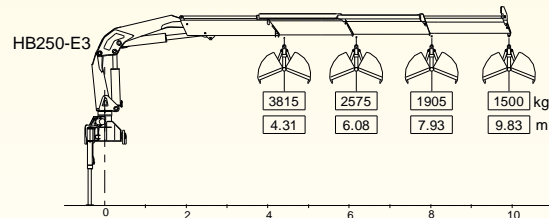
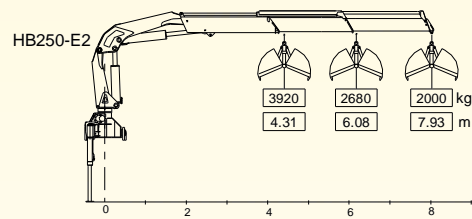
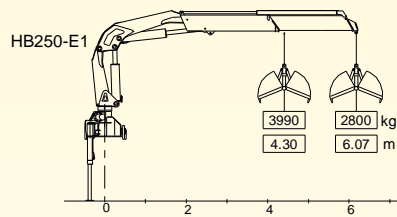


(\*\*) = Min distance for using the winch if this is installed on jib boom

(\*\*) = Min Abstand für Benutzung der Winde wenn aufm Jib-Ausleger installiert



<b>Max allowable weight [kg]</b>	420
<b>Max working pressure [bar]</b>	200
<b>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"</b>	



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