



# TECHNICAL SHEET


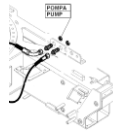
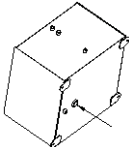
**TECHNICAL DATA**

<b>Max dynamic moment (daNm)</b>	78100
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<b>Max load (kg)</b>	<b>Version</b>	<b>Q<sub>max</sub></b>
	E4	12900
	E6	12500

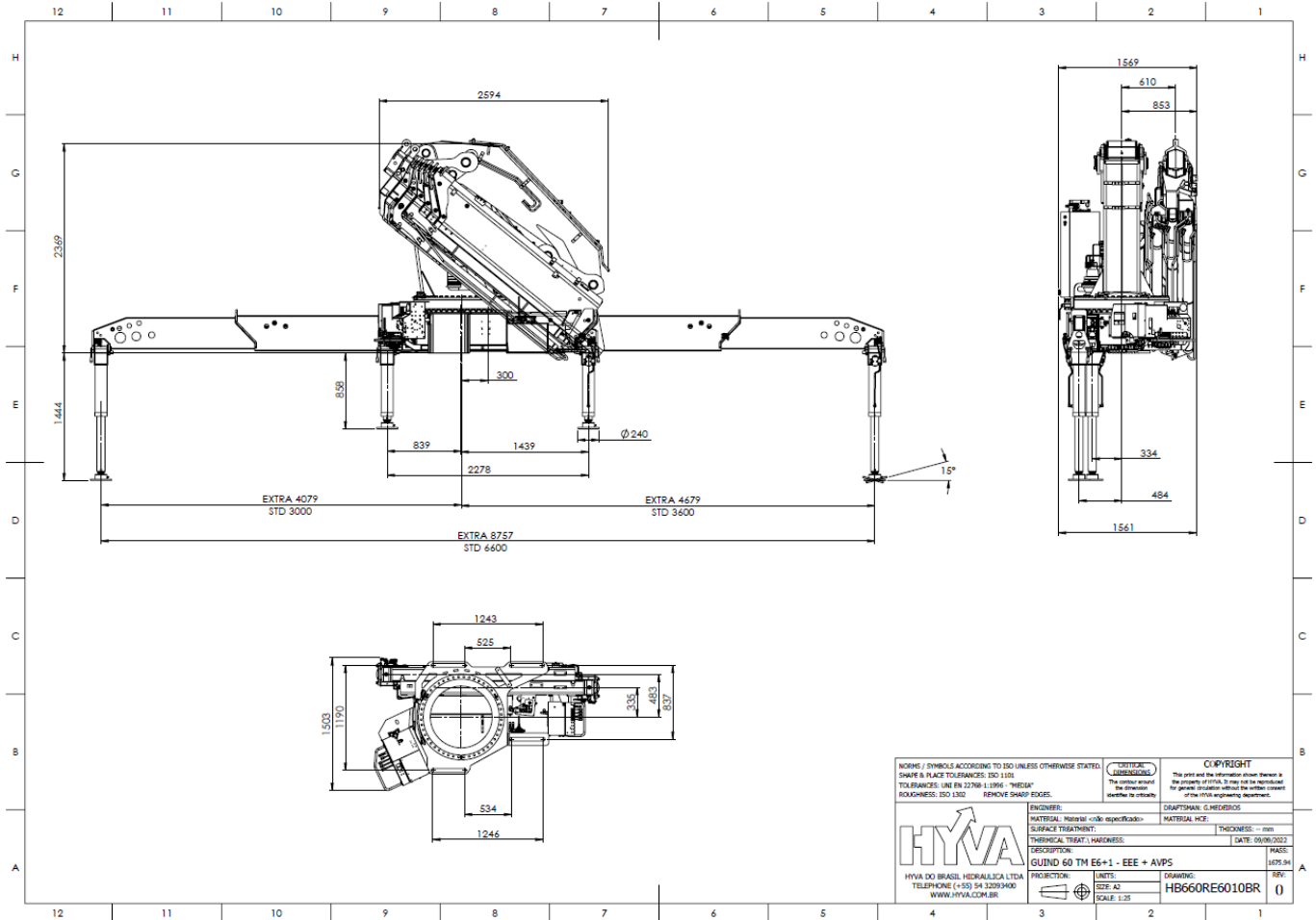
<b>Crane weight (kg)</b>	<b>Version</b>	<b>STD</b>	<b>EX</b>
	E4	6050	6250
	E6	6550	6750

		<b>STD</b>	<b>EX</b>
<b>Max force on the stabilizer leg</b>	(daN)	26035	19145
<b>Max standard stabilizer pressure on the ground</b>	(daN/cm <sup>2</sup> )	57.6	42.4
<b>Max working pressure</b>		300 bar	
<b>Max oil flow</b>		70 l/min	
<b>Oil tank capacity</b>		250 l	
<b>Slewing moment</b>		4500 daNm	
<b>Slewing angle</b>		428°	
<b>Absorbed power</b>		35.0 kW 46.9 HP	
<b>Design standard</b>		DIN 15018 EN 12999	

<b>Fittings for connection with pump</b>		<b>HB660R</b>	<b>HB660RX</b>	
<b>Control valve pressure line</b>	 <p>HB660R</p>	 <p>HB660RX</p>	M1"1/16- 12 JIC	M1"1/16- 12 JIC
<b>Tank suction line</b>			F2" BPS	F2" BPS

## LOAD DIAGRAM

### HB660RE6010BR

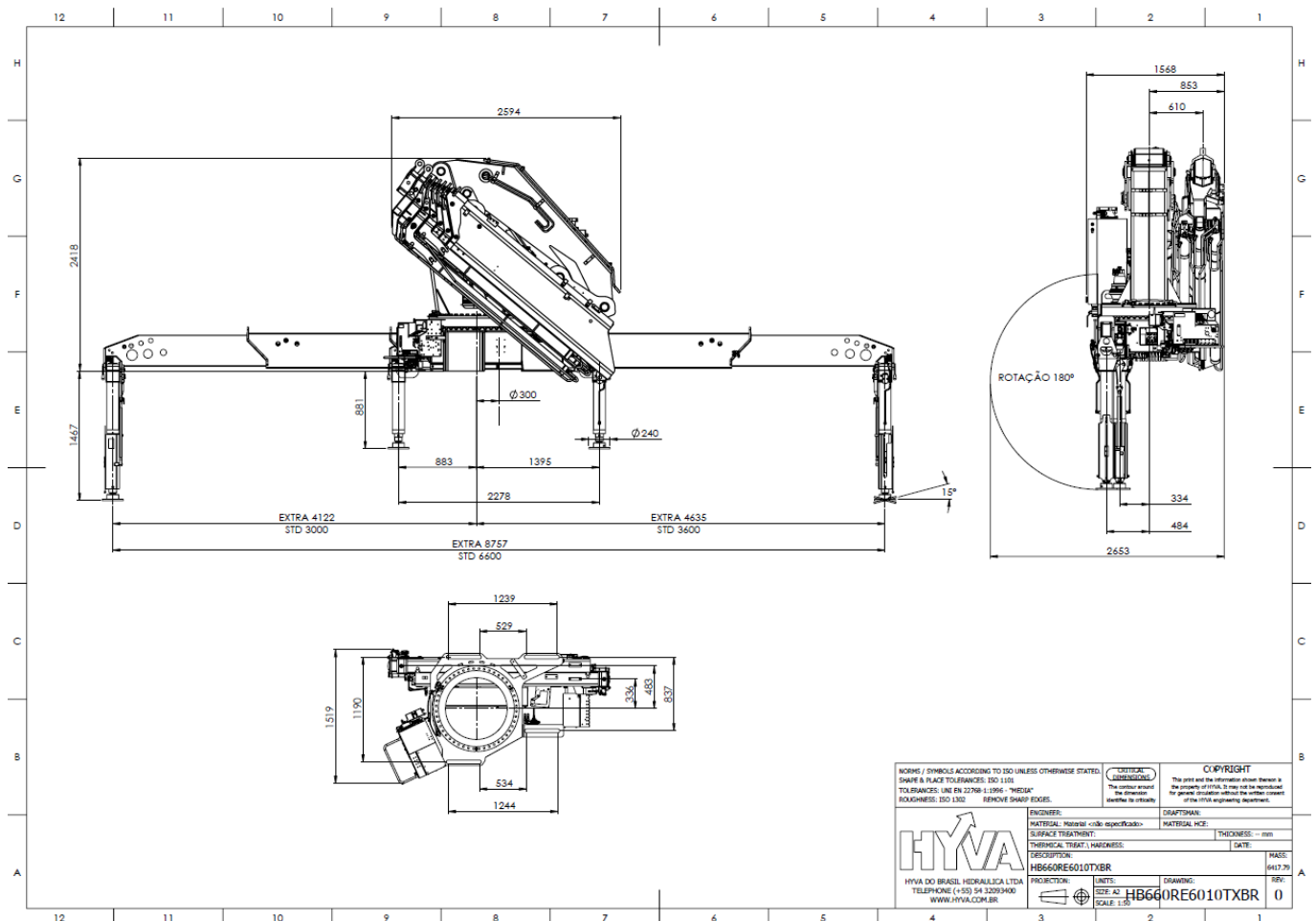


<b>Tie mounting rods</b>	<b>N°8 M39x3 39NiCrMo3 BNF</b>
<b>Tightening torque</b>	<b>1667 Nm</b>

For details regarding other versions, please contact Technical Department  
*Para detalhes a respeito de outras versões, por gentileza contatar o Departamento Técnico*  
*Para detalles sobre otras versiones, por favor contacte al Departamento Técnico*

## LOAD DIAGRAM

### HB660RE6010TXBR

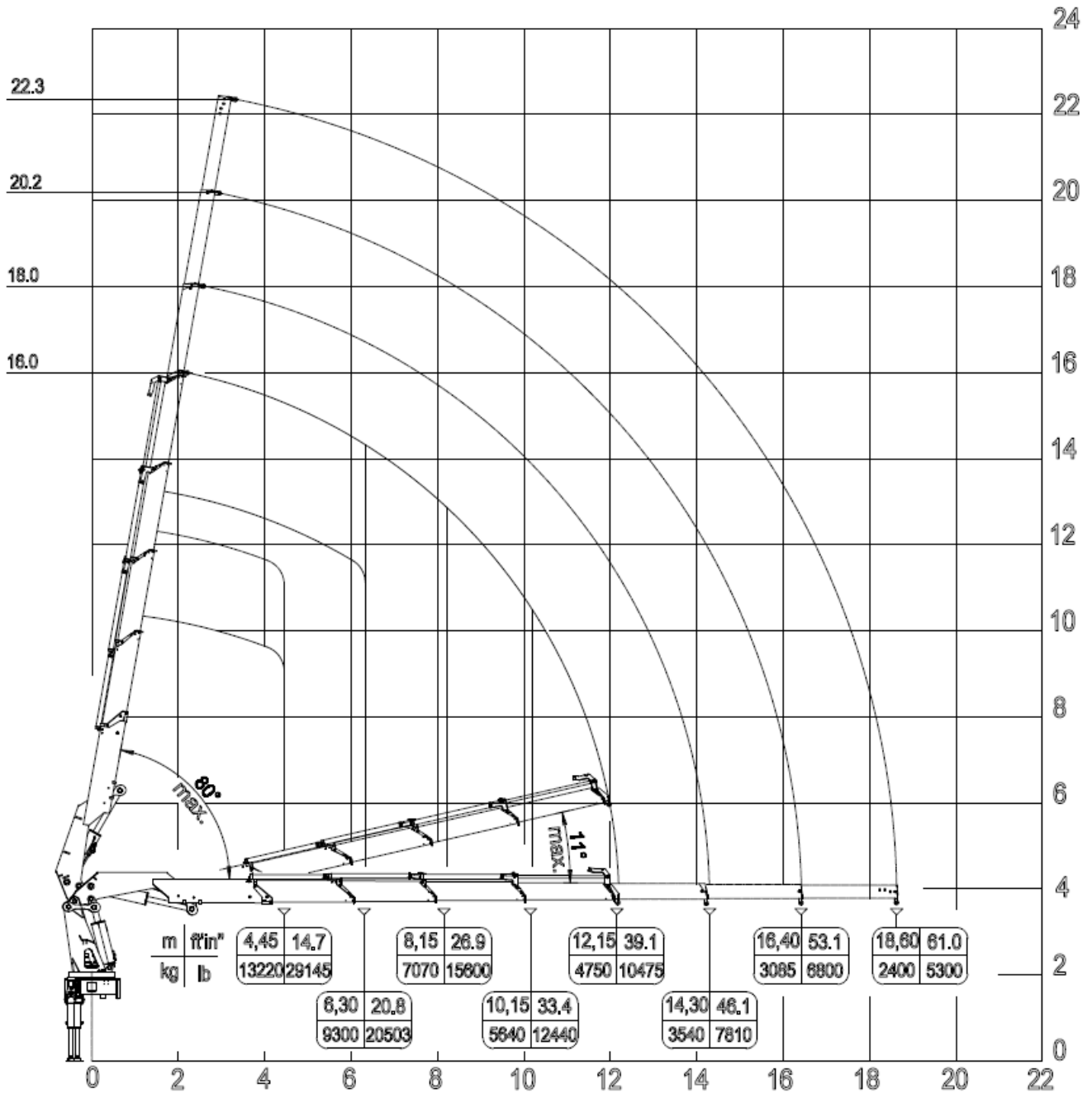


<b>Tie mounting rods</b>	<b>N°8 M39x3 39NiCrMo3 BNF</b>
<b>Tightening torque</b>	<b>1667 Nm</b>

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**LOAD DIAGRAM**

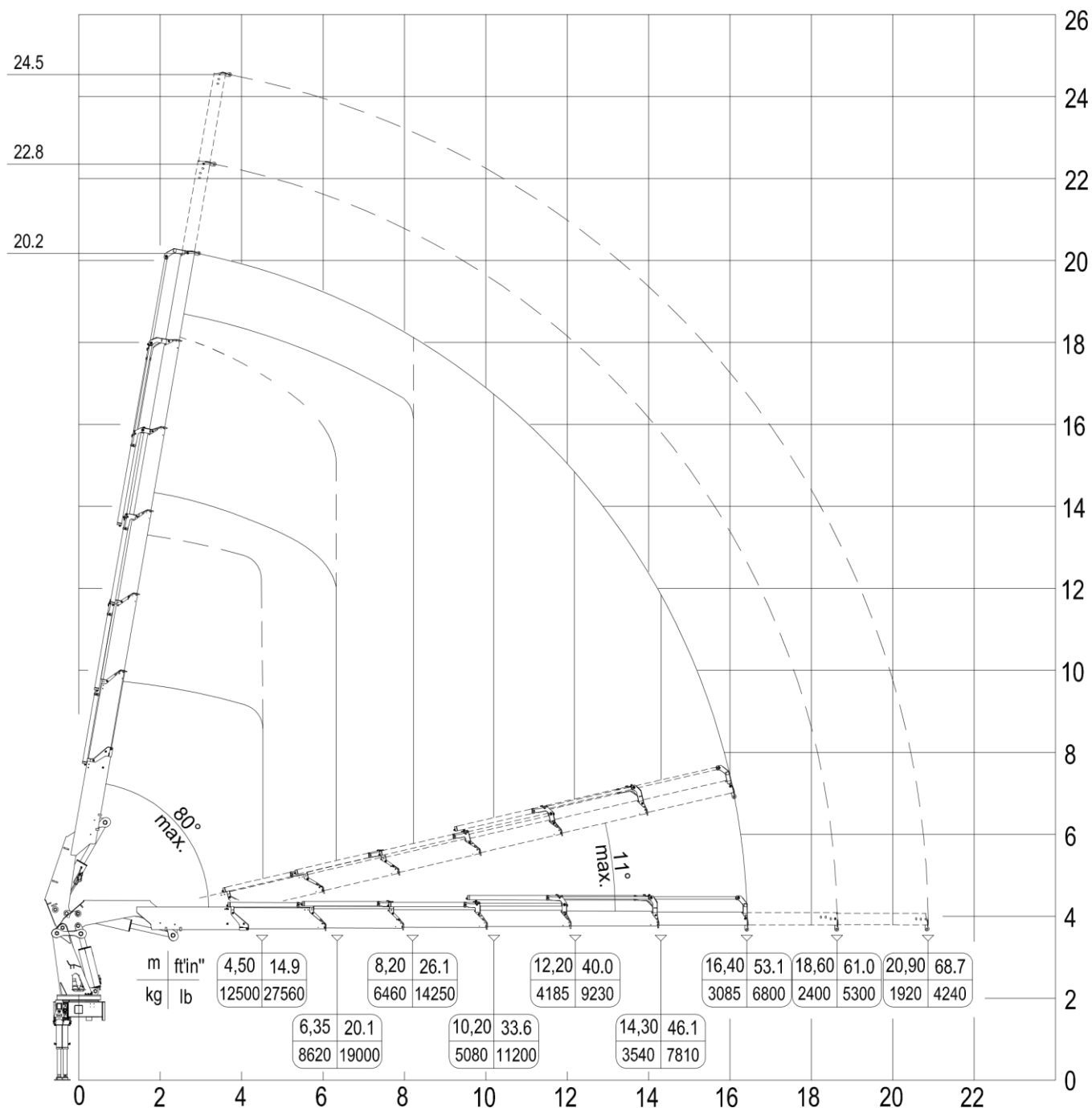
**HB660R e4**



Lifting capacity = 58,8 tm

**LOAD DIAGRAM**

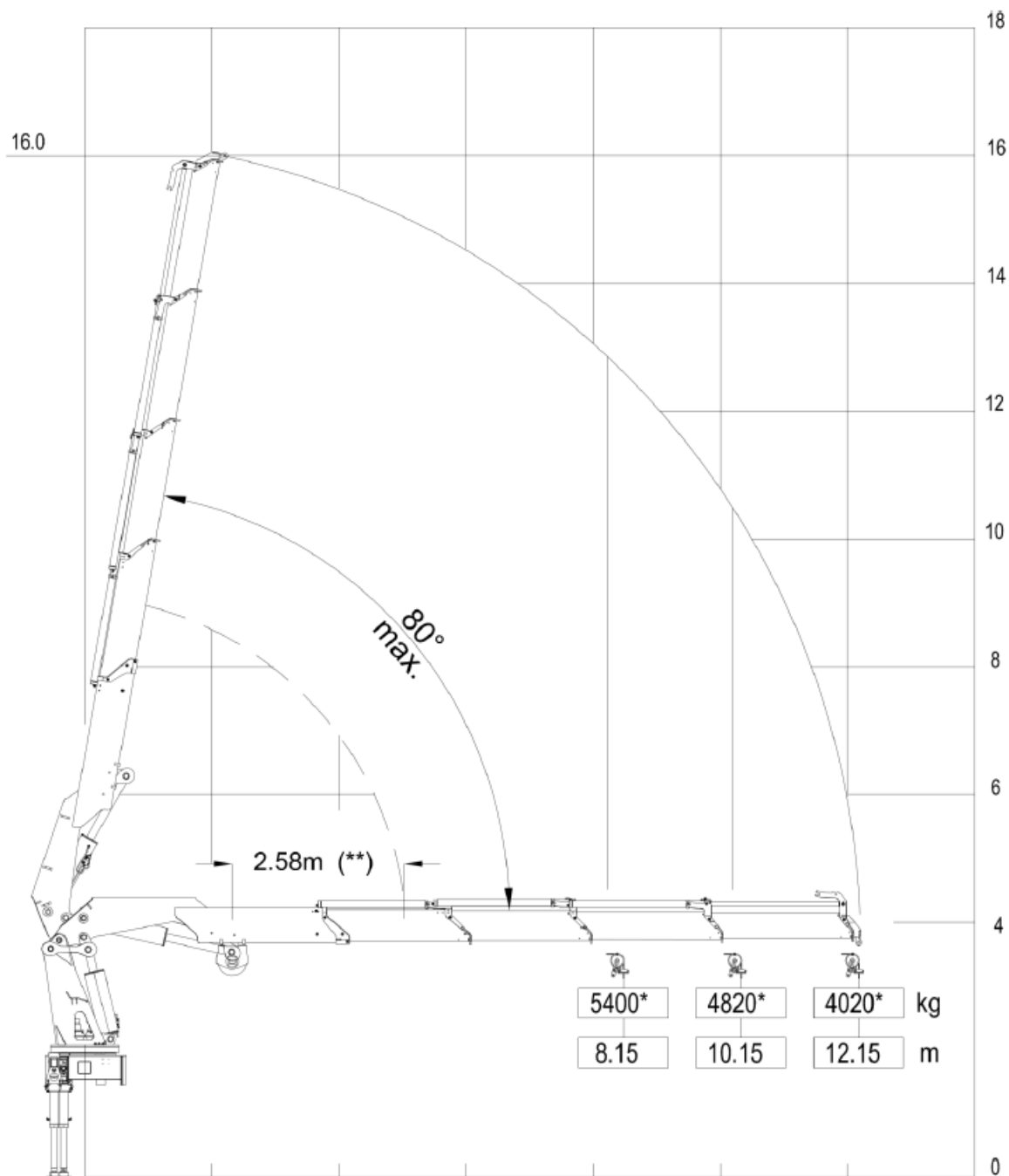
**HB660R E6**



Lifting capacity = 56,2 tm

**WINCH LOAD DIAGRAM**

**HB660R E4**

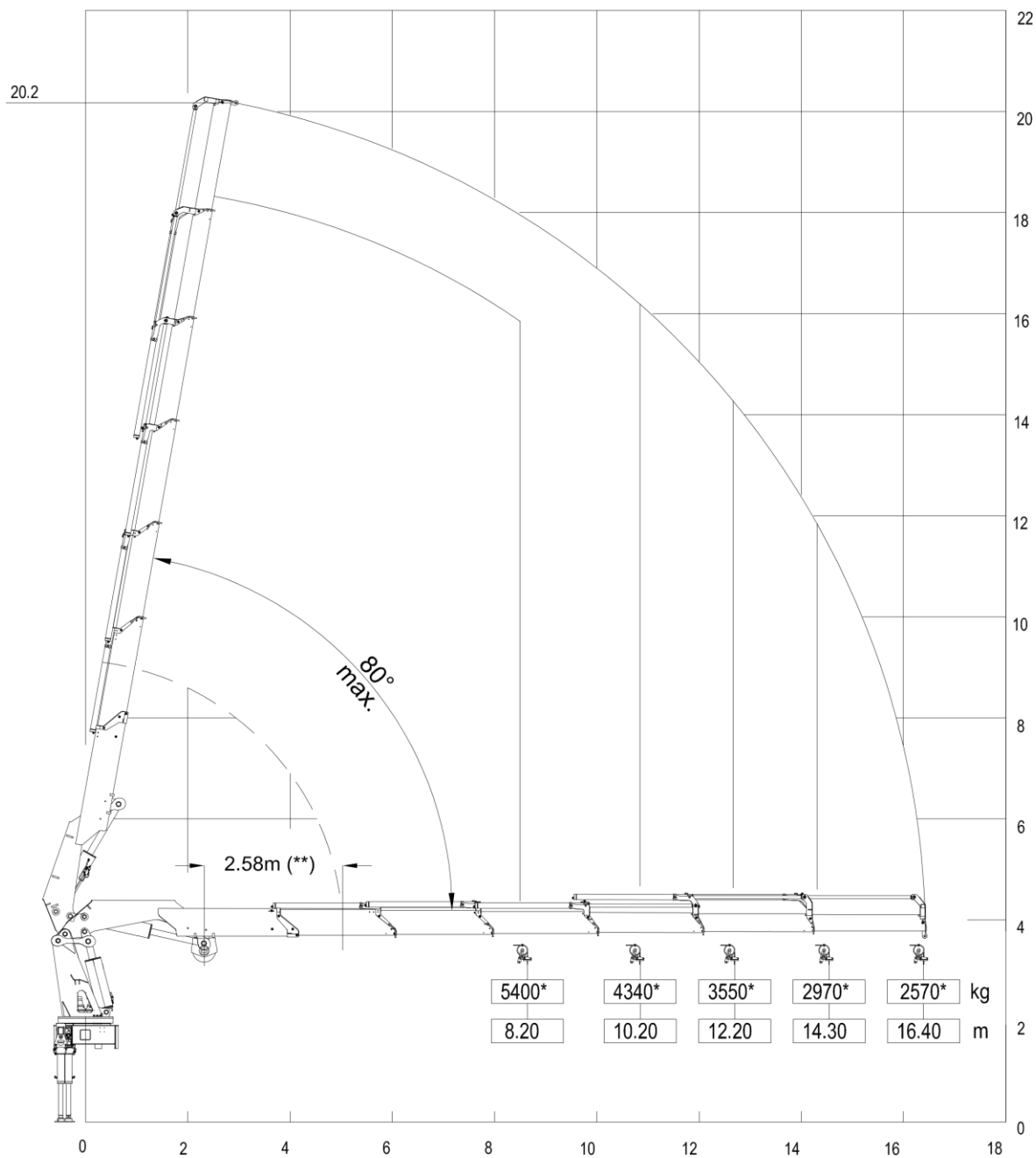


(\*) Polia da talha com tração dupla  
Winch pulley with double line pull  
Polea de ármano con tracción doble

(\*\*) Distância mínima entre a talha e a polia  
Min distance between winch and pulley  
Distancia mínima entre el ármano y la polea

## WINCH LOAD DIAGRAM

### HB660R E6

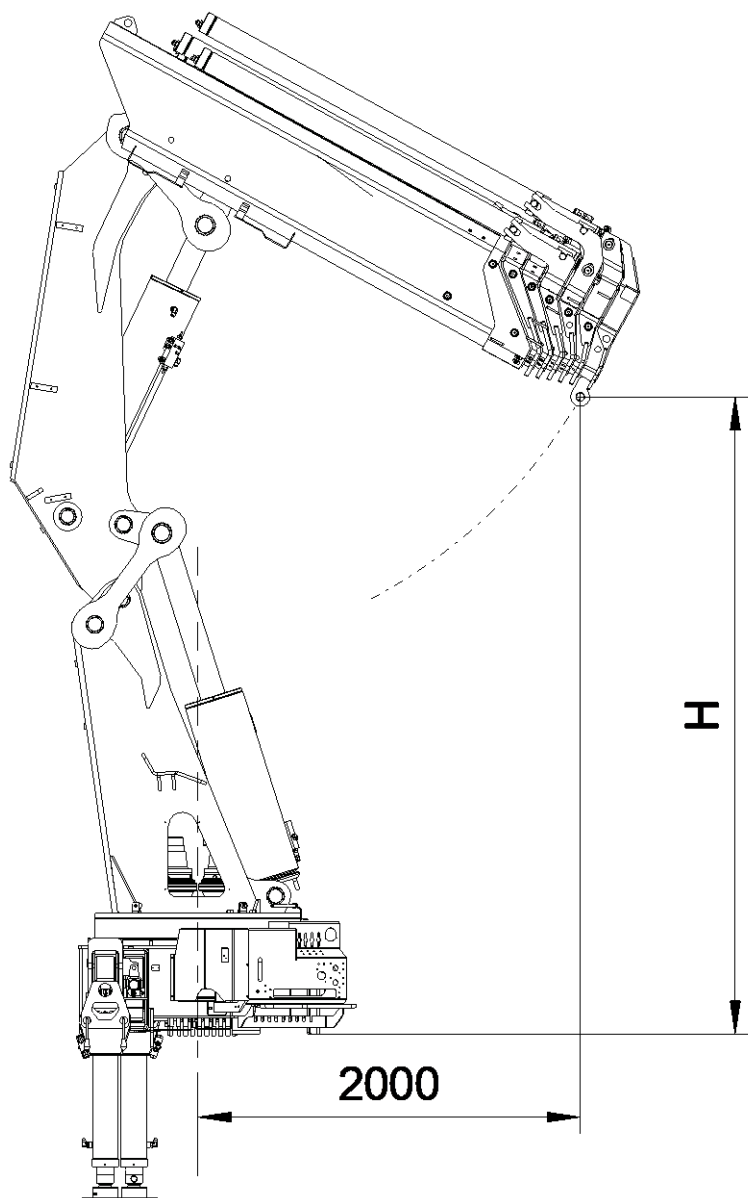


(\*) Polia da talha com tração dupla  
 Winch pulley with double line pull  
 Polea de ármano con tracción doble

(\*\*) Distância mínima entre a talha e a polia  
 Min distance between winch and pulley  
 Distancia mínima entre el ármano y la polea



**HOOK HEIGHT**



	H [mm]
<b>E4</b>	3420
<b>E6</b>	3320



# CYLINDERS AND PINS DIMENSIONS

## LIFTING CYLINDER

Cylinder bore	280
Cylinder external diameter	315
Rod diameter	130
Pitch (open)	1980
Pitch (closed)	1189
Stroke	791
Fittings	1/2" G
Articulation pin Ø	100
Pin steel	39NiCrMo3

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

Cylinder bore	95
Cylinder external diameter	110
Rod diameter	70 - 55
Pitch (open)	2000
Pitch (closed)	150
Stroke	1850
Fittings	3/4" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

## 3<sup>RD</sup> EXTENSION CYLINDER

Cylinder bore	95
Cylinder external diameter	110
Rod diameter	65 - 50
Pitch (open)	2150
Pitch (closed)	150
Stroke	2000
Fittings	3/4" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

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

Cylinder bore	95
Cylinder external diameter	110
Rod diameter	60 - 45
Pitch (open)	2250
Pitch (closed)	150
Stroke	2100
Fittings	3/4" G-1/2" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

## STABILIZER EXTENSION CYLINDER

Cylinder bore	40
Cylinder external diameter	50
Rod diameter	25
Pitch (open)	4238
Pitch (closed)	2088
Stroke	2150
Fittings	9/16" - 18
Articulation pin Ø	20
Pin steel	C40

## ARTICULATION CYLINDER

Cylinder bore	250
Cylinder external diameter	285
Rod diameter	120
Pitch (open)	2464
Pitch (closed)	1423
Stroke	1041
Fittings	1/2" G
Articulation pin Ø	110
Pin steel	18NiCrMo5

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

Cylinder bore	95
Cylinder external diameter	110
Rod diameter	70 - 55
Pitch (open)	2000
Pitch (closed)	150
Stroke	1850
Fittings	3/4" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

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

Cylinder bore	95
Cylinder external diameter	110
Rod diameter	65 - 50
Pitch (open)	2150
Pitch (closed)	150
Stroke	2000
Fittings	3/4" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

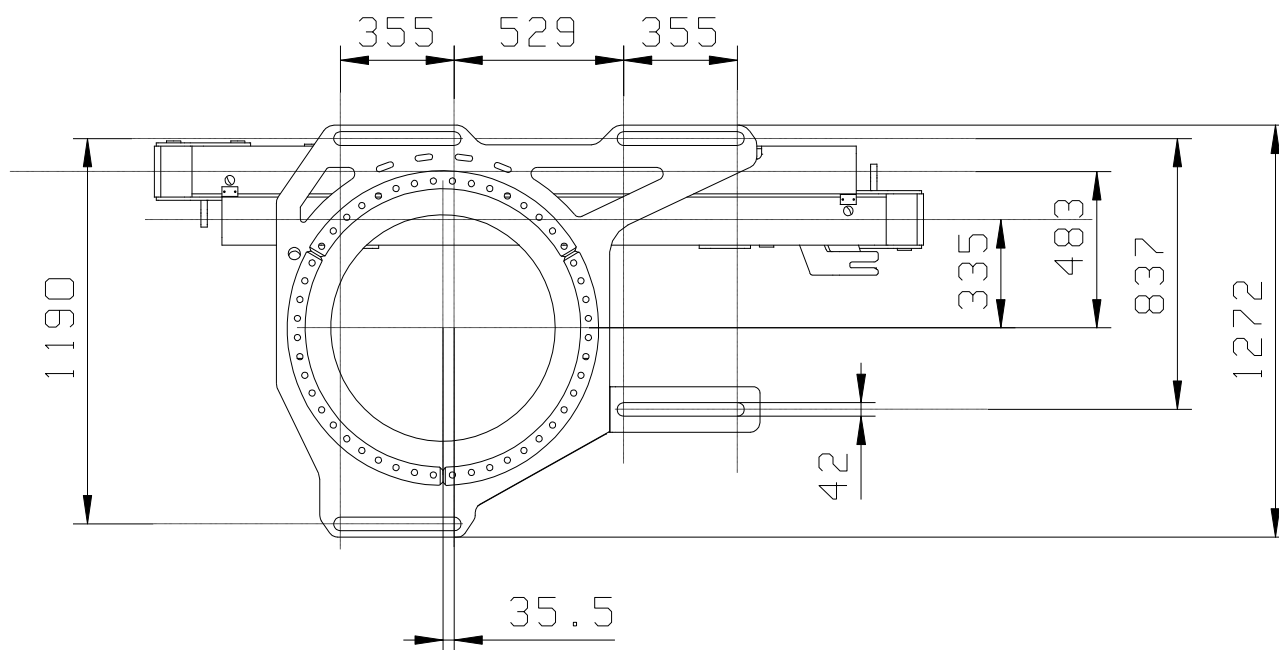
## 6<sup>TH</sup> EXTENSION CYLINDER

Cylinder bore	95
Cylinder external diameter	110
Rod diameter	60 - 45
Pitch (open)	2250
Pitch (closed)	150
Stroke	2100
Fittings	3/4" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

## STABILIZER CYLINDER

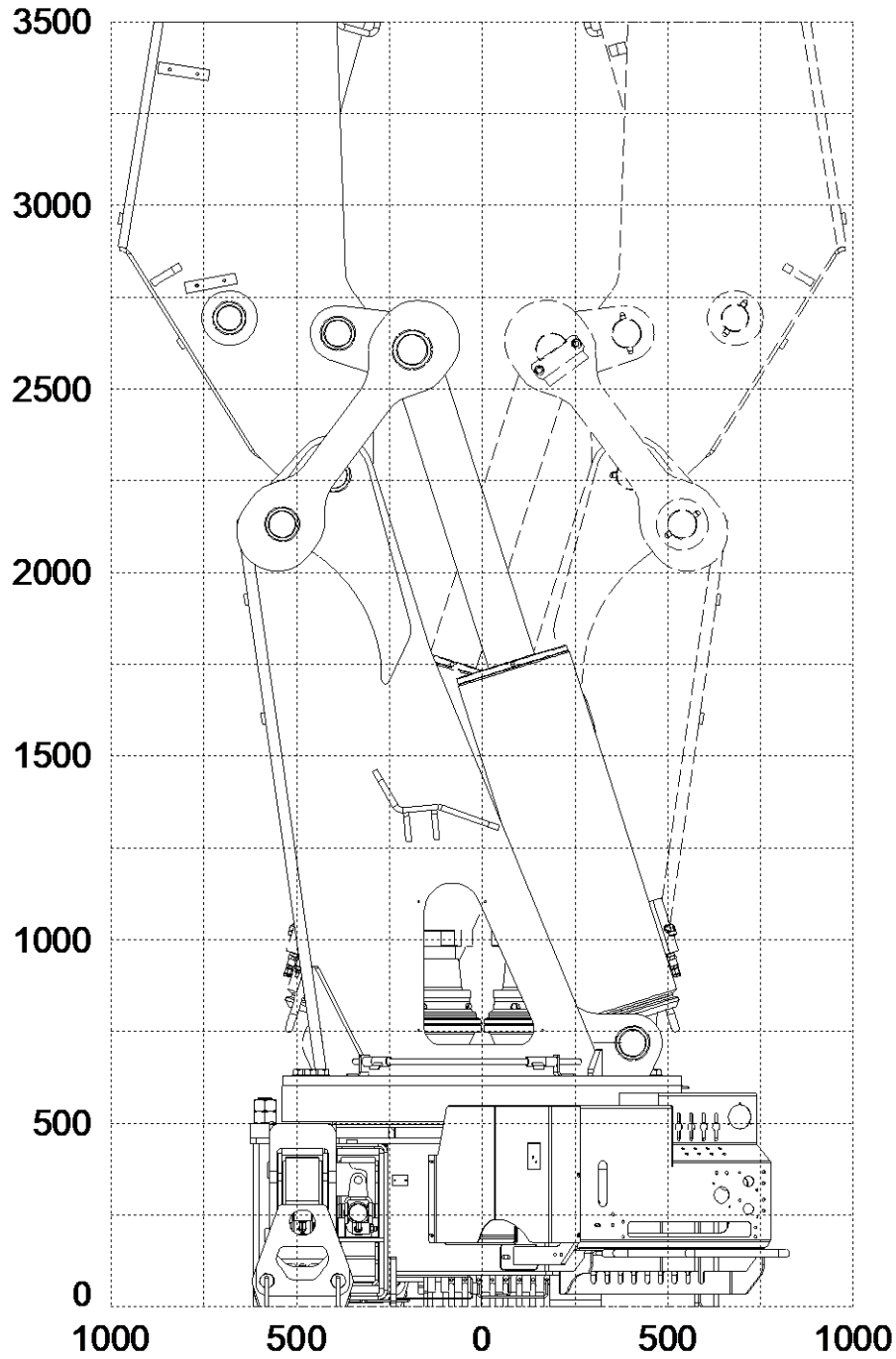
Cylinder bore	120
Cylinder external diameter	135
Rod diameter	90
Pitch (open)	1390
Pitch (closed)	804
Stroke	586
Fittings	3/8" G
Fixing pin Ø	-
Pin steel	-

**BASE DIMENSIONS**

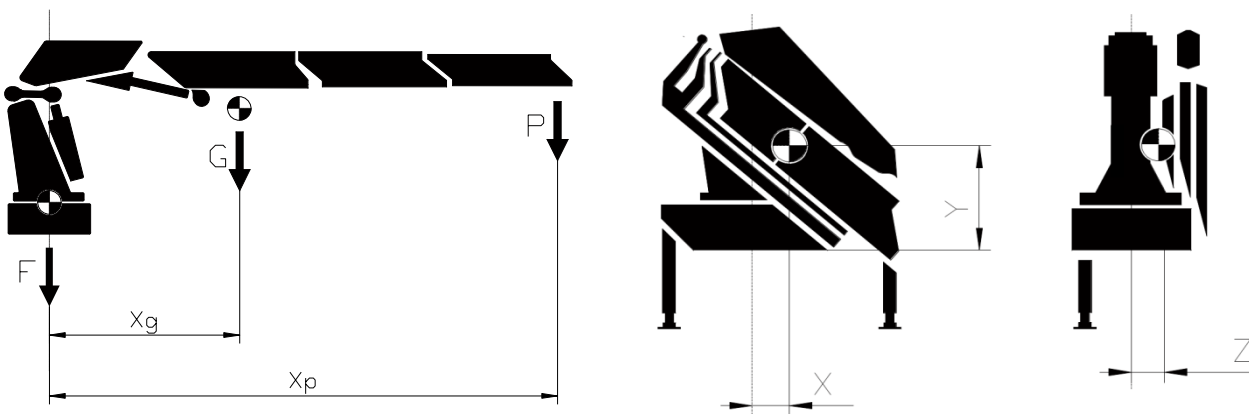


<b>Tie mounting rods</b>	N°8 M39x3 39NiCrMo3 QT
<b>Fixing bolts for bearing</b>	N°48 M22X160 10.9 UNI 5737 N°48 M22X145 10.9 UNI 5737

**ROTATION RADIUS**



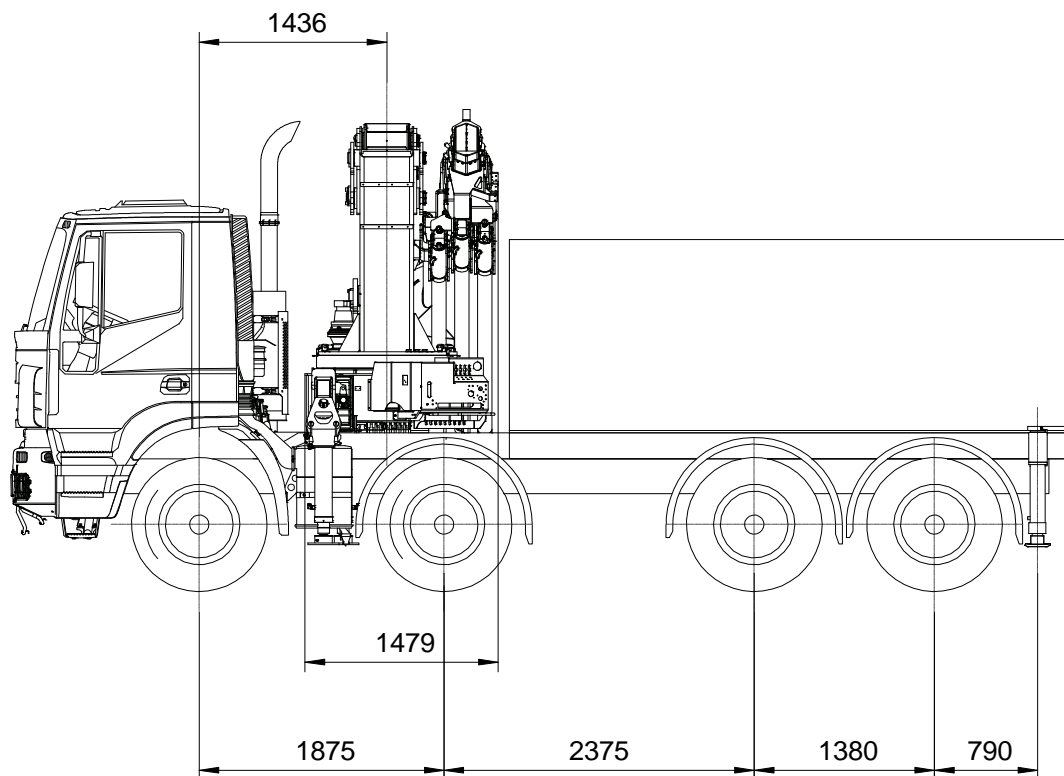
## WEIGHTS – CENTER OF GRAVITY



HB660R	F [kg]	G [kg]	Xg [m]	P [kg]	Xp [m]	TL [kg]	X [mm]	Y [mm]	Z [mm]
E4	STD:3350 EX:3550	2700	4.17	4470	12.15	5588	318	906	82
E6		3200	5.71	2850	16.40	3644	303	925	126

F = weight of fixed parts  
 G = weight of extension booms  
 Xg = distance of G from column axis  
 P = nominal load  
 Xp = distance of P from column axis  
 TL = stability test load  
 X, Y, Z = center of gravity coordinates (closed crane)

# MIN TRUCK WITH SUPPLEMENTARY STABILIZERS



**GVW= 34 t**

## CHASSIS DATA

### Front axle

Front axle tare weight = 6520 kg

1<sup>ST</sup> Allowable front axle weight = 8000 kg

2<sup>ND</sup> Allowable front axle weight = 8000 kg

### Rear axle

Rear axle tare weight = 3350 kg

## OUTFIT WEIGHTS

Body weight = 1500 kg

Crane weight = 6750 kg (HB660R EX-E6)

Counterframe weight = 1500 kg

## Rear beam stabilizers

Min. width = 5000 mm

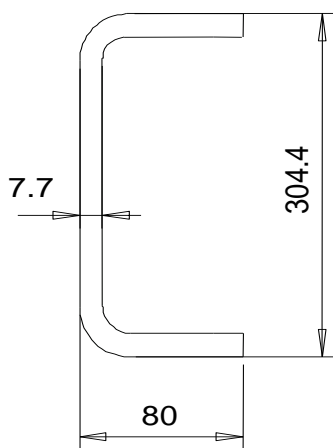
Rear stabilizer weight = 1075 kg

**Stability index = 1,36**

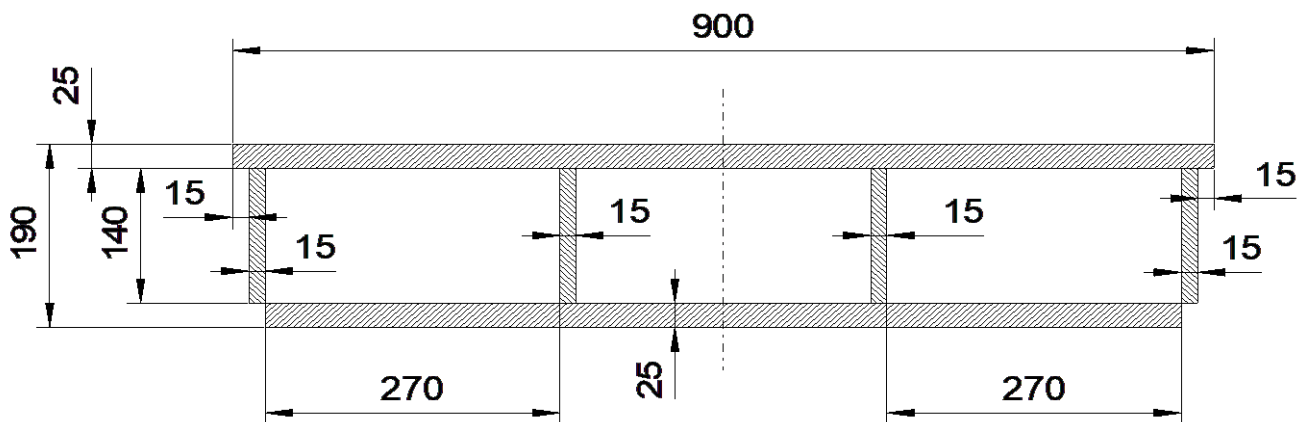
**MIN COUNTERFRAME**

Max dynamic moment [daNm]	78100
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Min frame section (truck GVW = 34 ton)



Min counterframe section (steel S355)





**GRAB BUCKET DATA**

Max allowable weight (kg)	420
Max working pressure (bar)	240

