

TRUCK MOUNTED CRANE HBR660



HYVA[®] CRANE

HBR660 TECHNICAL SHEET

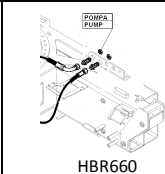
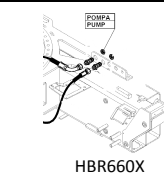
TECHNICAL SHEET

Max dynamic moment (daNm)	78100
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Max load (kg)	Version	Q _{max}
	-	-
	E4	13220
	E6	12500

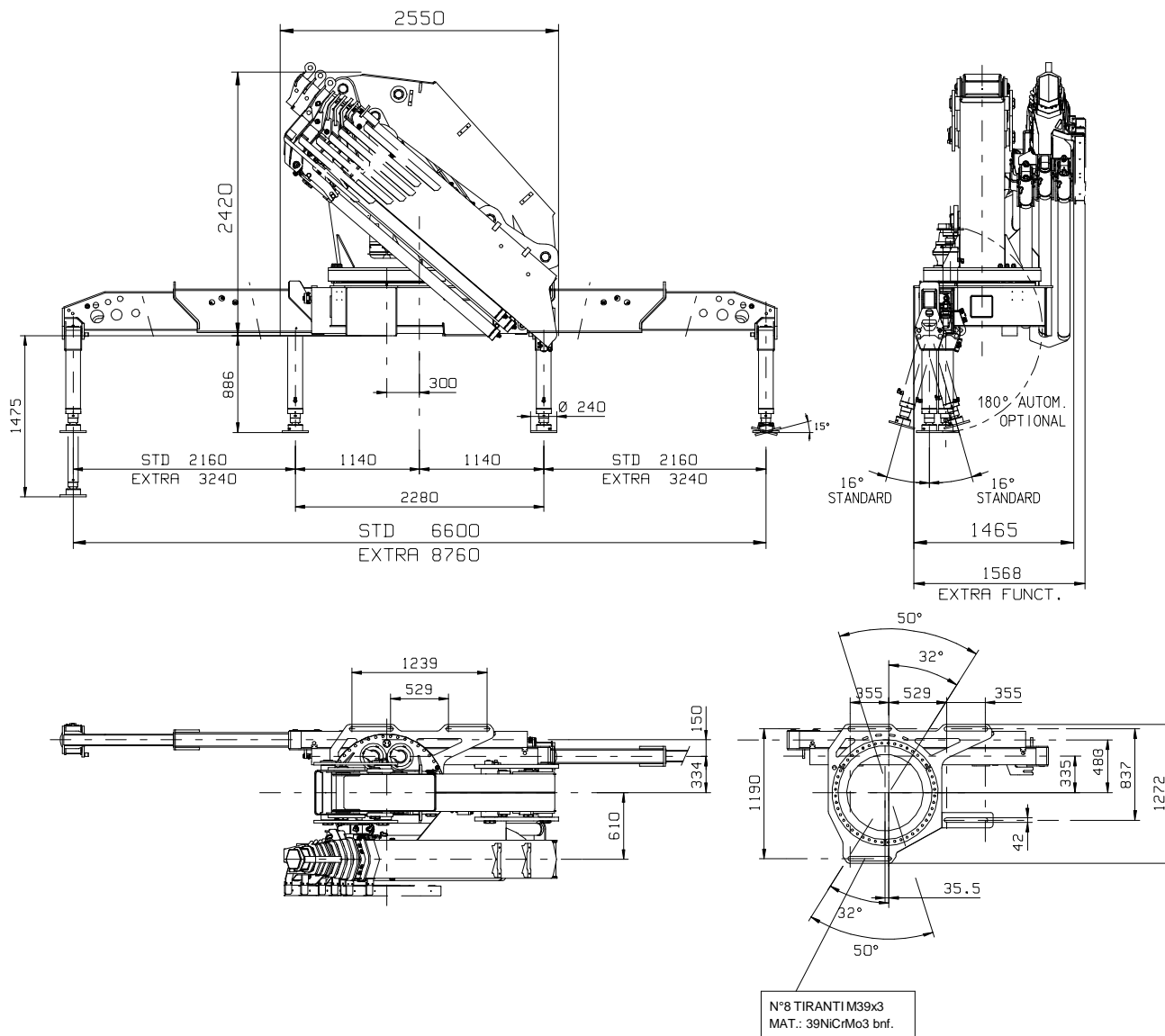
Crane weight (kg)	Version	STD	EX
	-	-	-
	E4	6050	6250
	E6	6550	6750

		STD	EX
Max force on the stabilizer leg	(daN)	26035	19145
Max standard stabilizer pressure on the ground	(daN/cm ²)	57.6	42.4
Max working pressure		300 bar	
Max oil flow		70 l/min	
Oil tank capacity		250 l	
Slewing moment		4500 daNm	
Slewing angle		420°	
Absorbed power		35.0 kW 46.9 HP	
Design standard		DIN 15018 EN 12999	

Fittings for connection with pump		HBR660	HBR660X
Control valve pressure line	 HBR660	 HBR660X	M1"1/16-12 JIC
Tank suction line		F2" BPS	F2" BPS

HBR660 TECHNICAL SHEET

OVERALL DIMENSION

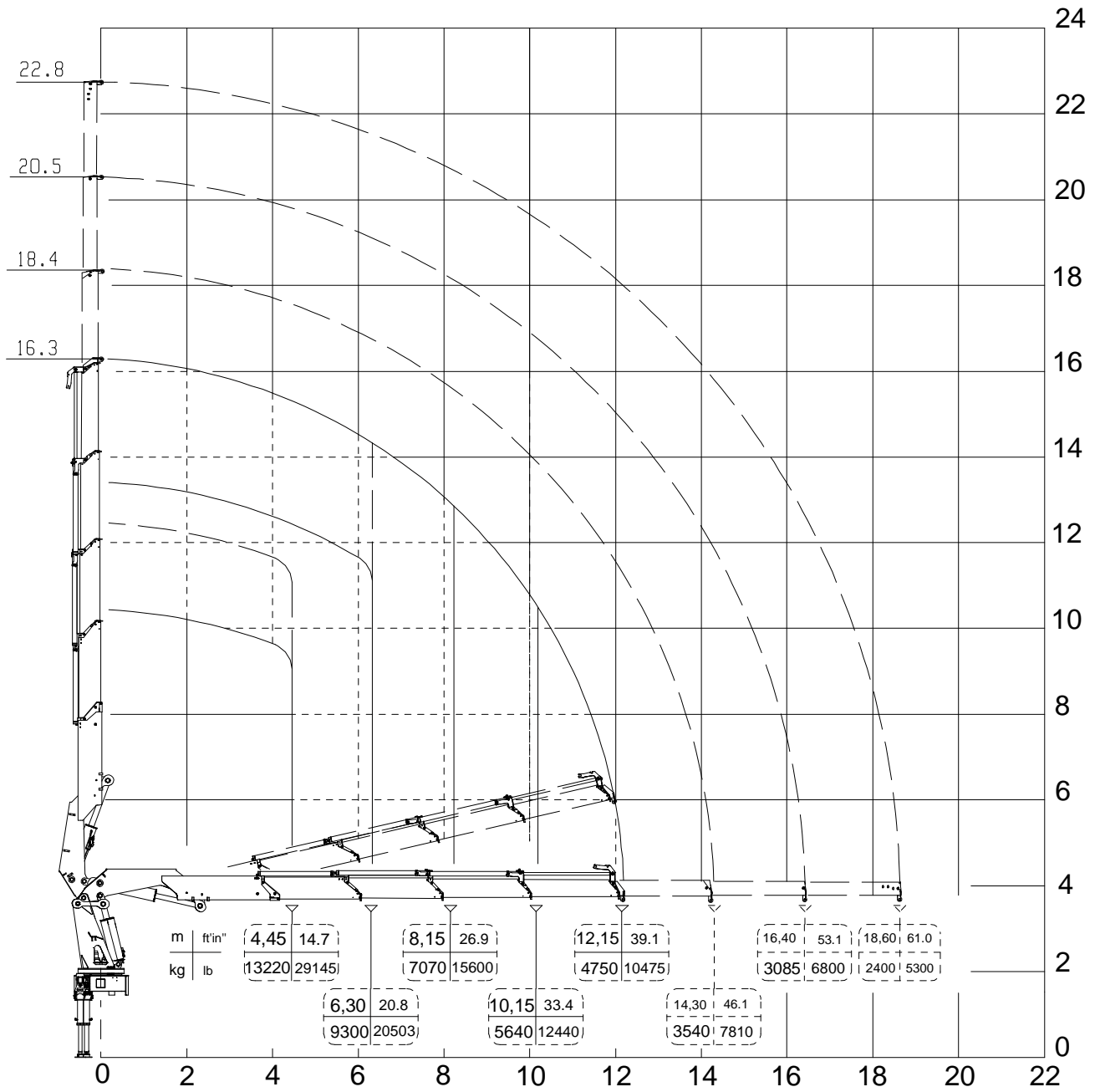


Tie mounting rods	N°8 M39x3 39NiCrMo3 BNF
Tightening torque	1667 Nm

HBR660 TECHNICAL SHEET

LOAD DIAGRAM

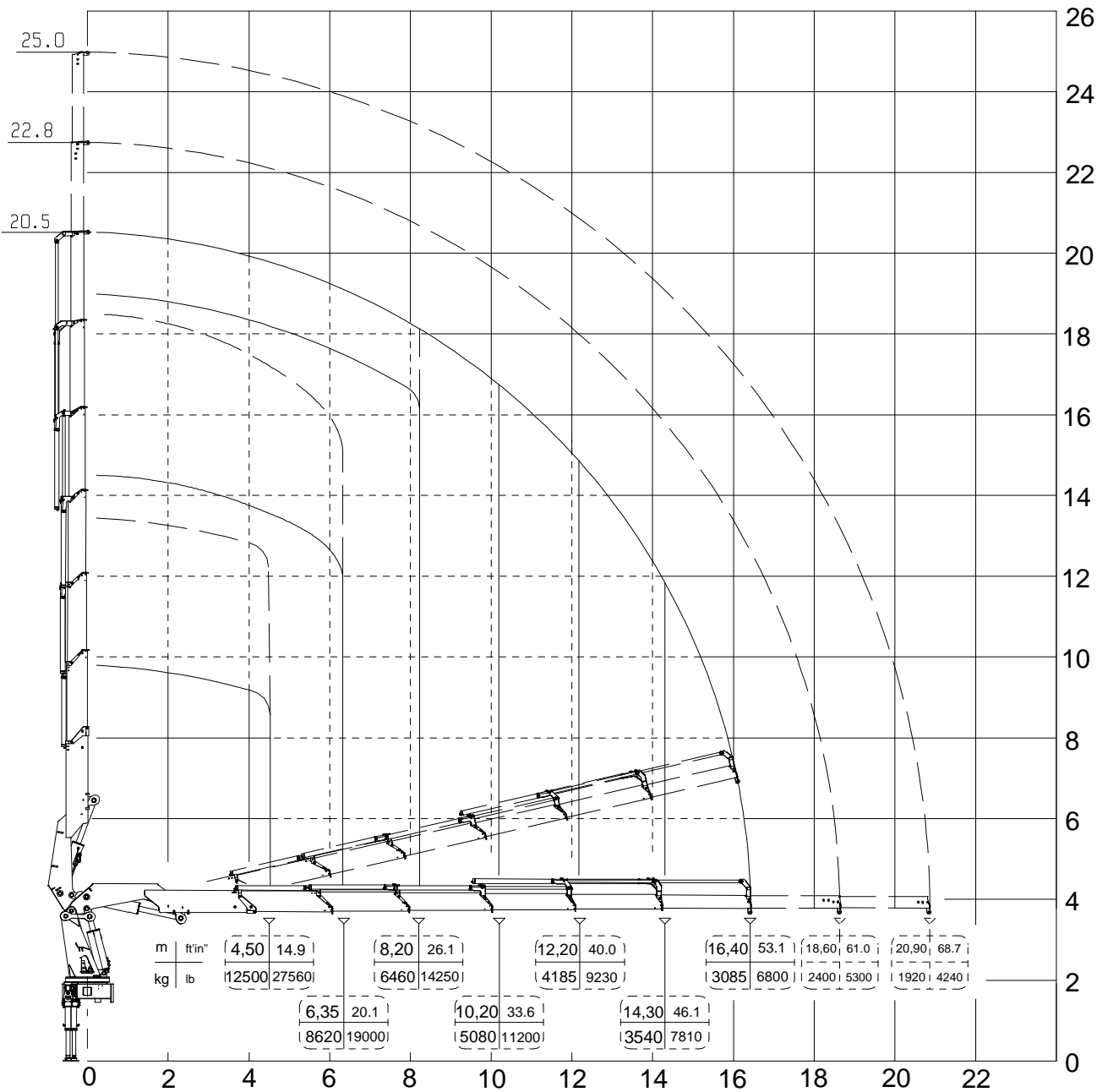
HBR660 E4



HBR660 TECHNICAL SHEET

LOAD DIAGRAM

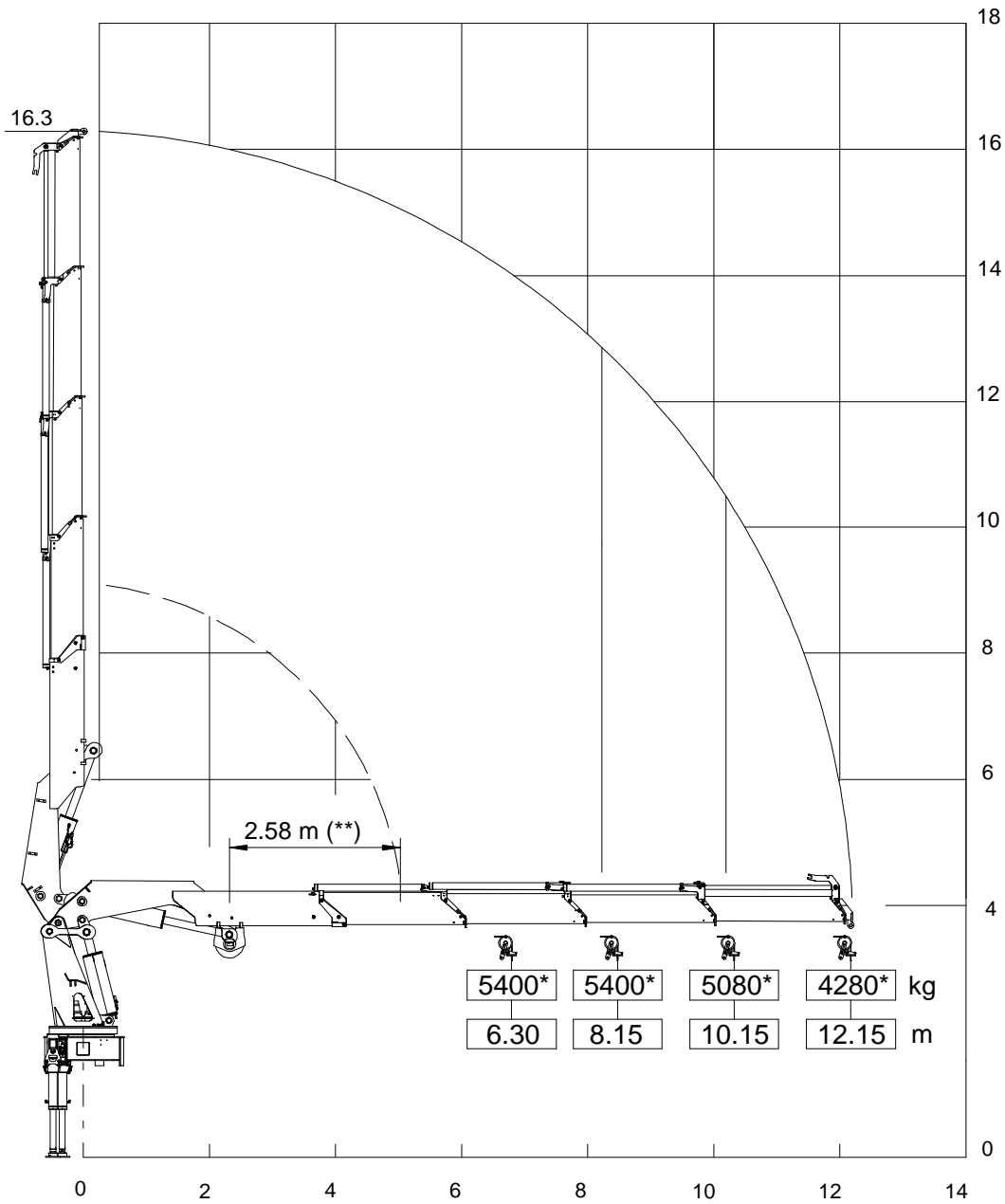
HBR660 E6



HBR660 TECHNICAL SHEET

WINCH LOAD DIAGRAM

HBR660 E4



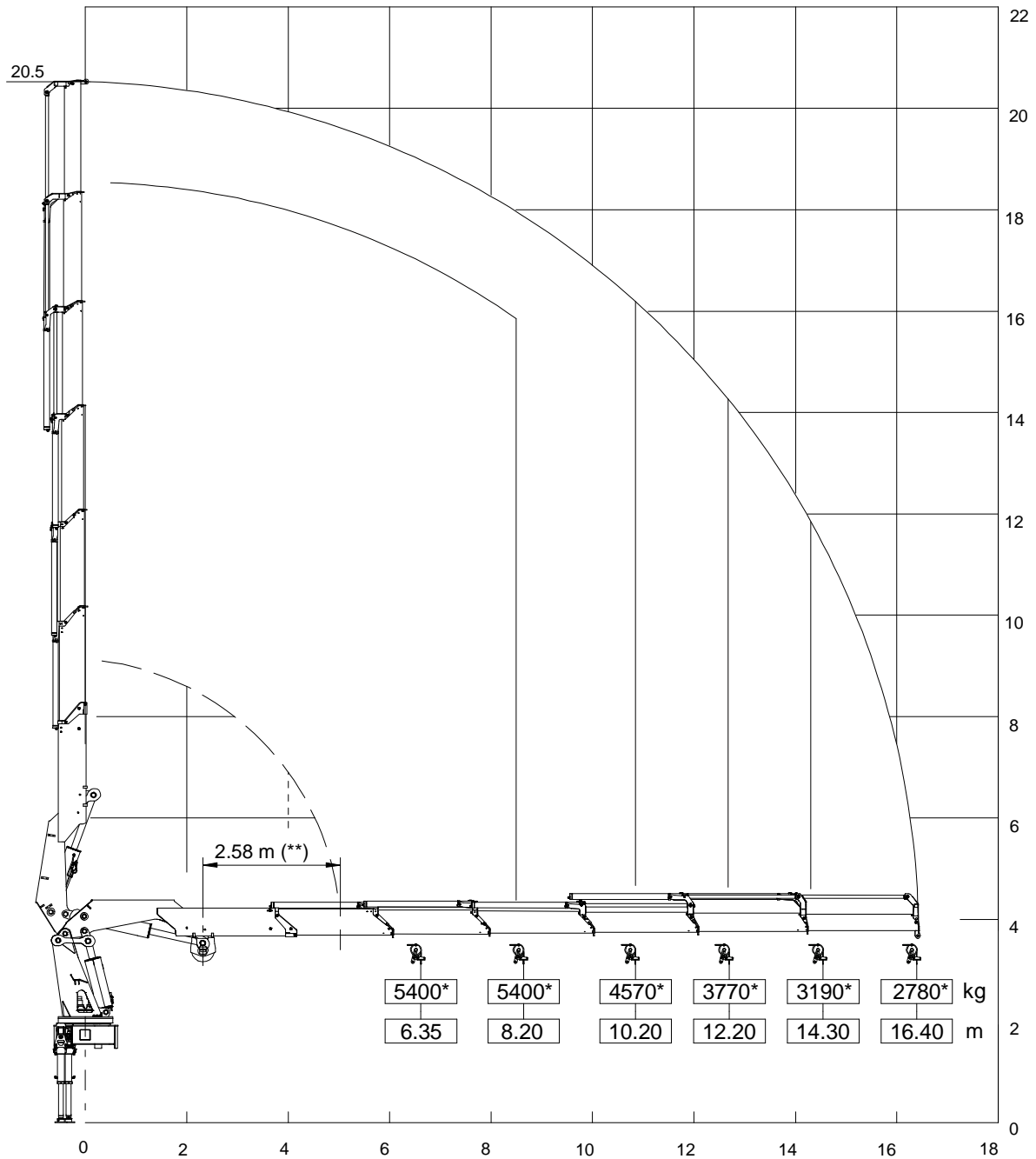
(*) = Winch pulley with double line pull (**) = Min distance for using the winch

OSTA Winch OS-3500 -- MAX Winch direct pull 2700 kg

HBR660 TECHNICAL SHEET

WINCH LOAD DIAGRAM

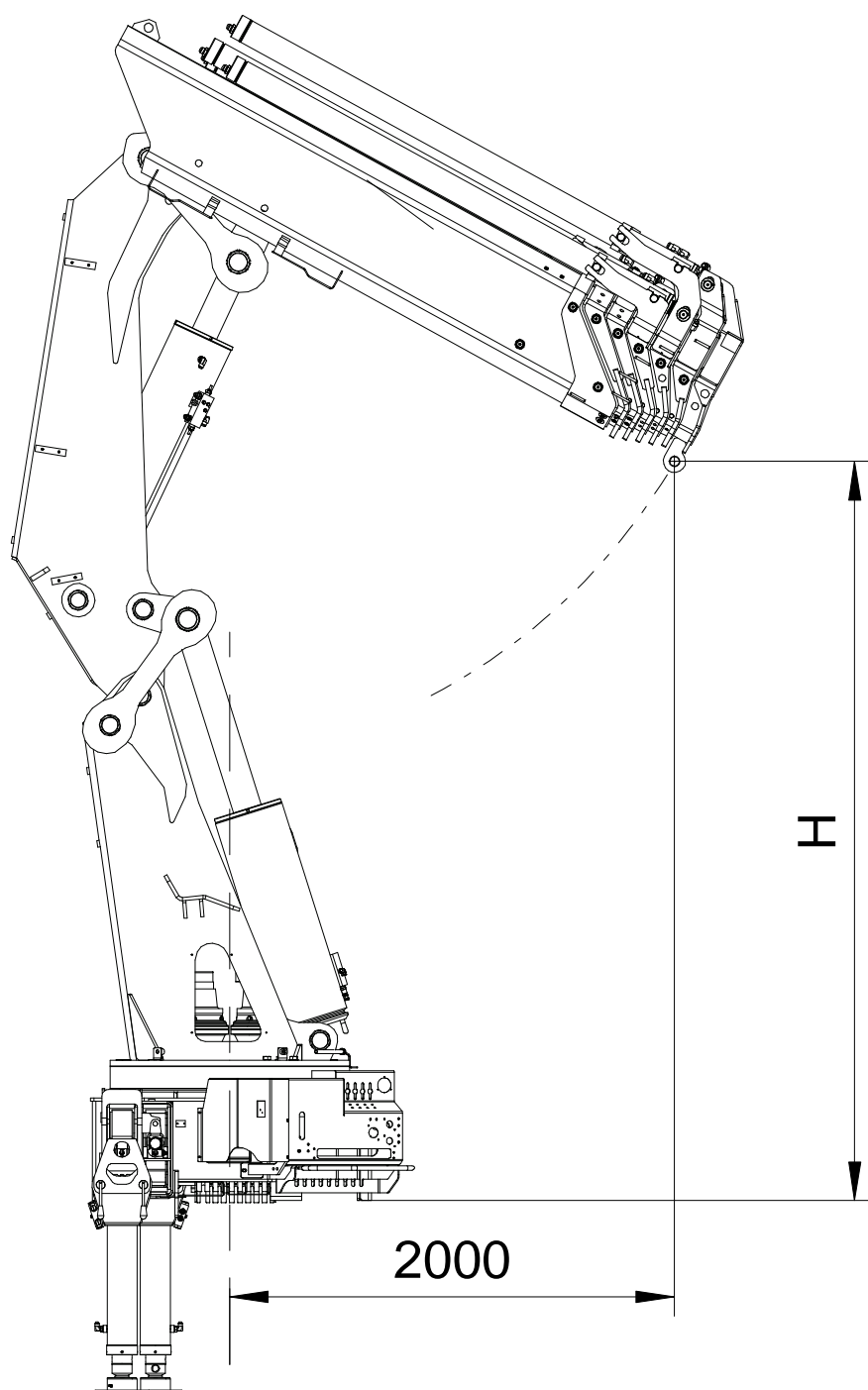
HBR660 E6



(*): winch pull with double line
 (**): min distance between winch and pulley
 Max single pull: 2700 kg

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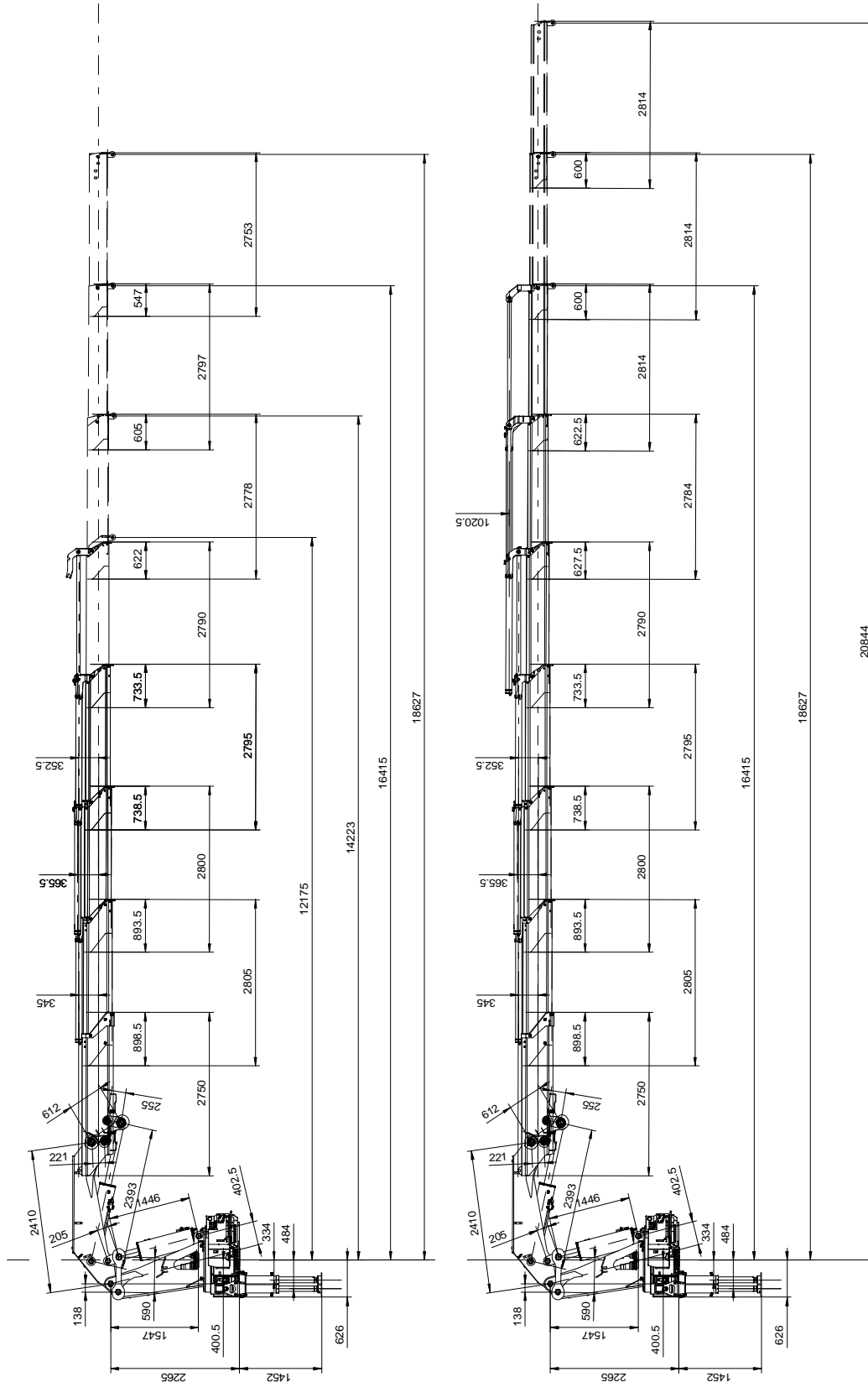
HOOK HEIGHT



	H [mm]
E2	-
E4	3420
E6	3320

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COLUMN - BOOM - DIMENSIONS



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CYLINDERS 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

1ST 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

3RD 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

5TH 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

2ND 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

4TH 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

6TH EXTENSION CYLINDER

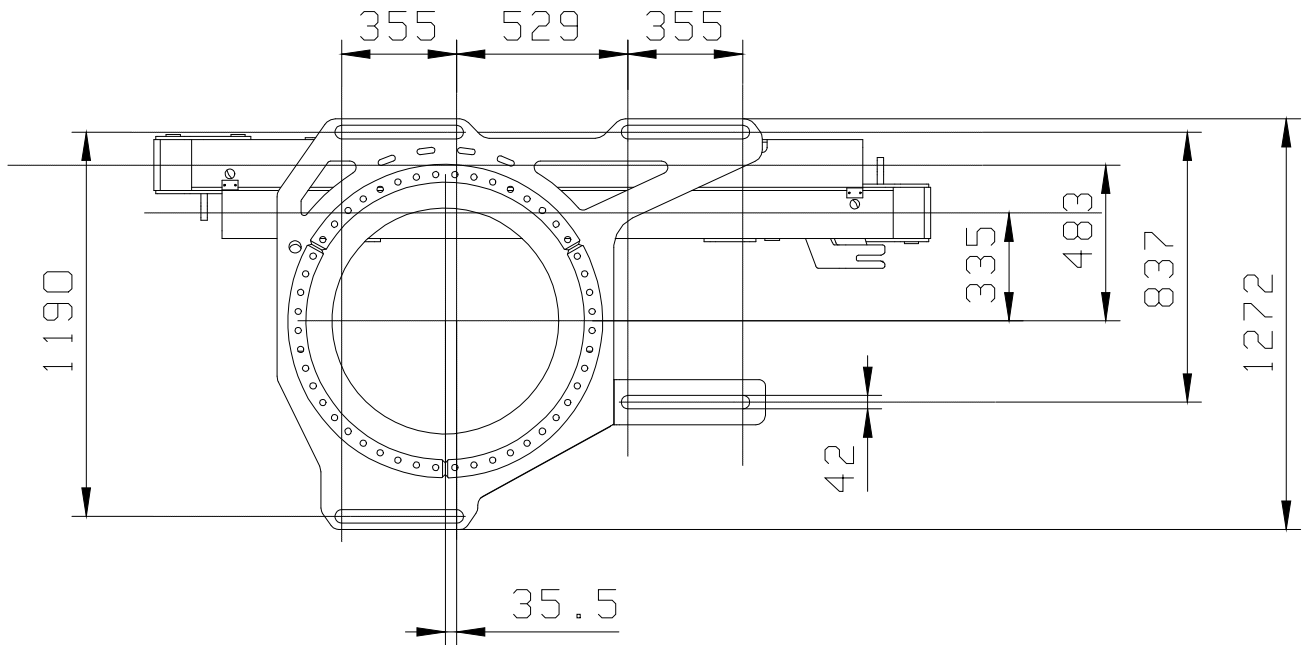
Cylinder bore	95
Cylinder external diameter	110
Rod diameter	60 - 45
Pitch (open)	2250
Pitch (closed)	150
Stroke	2100
Fittings	3/4" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

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	-

HBR660 TECHNICAL SHEET

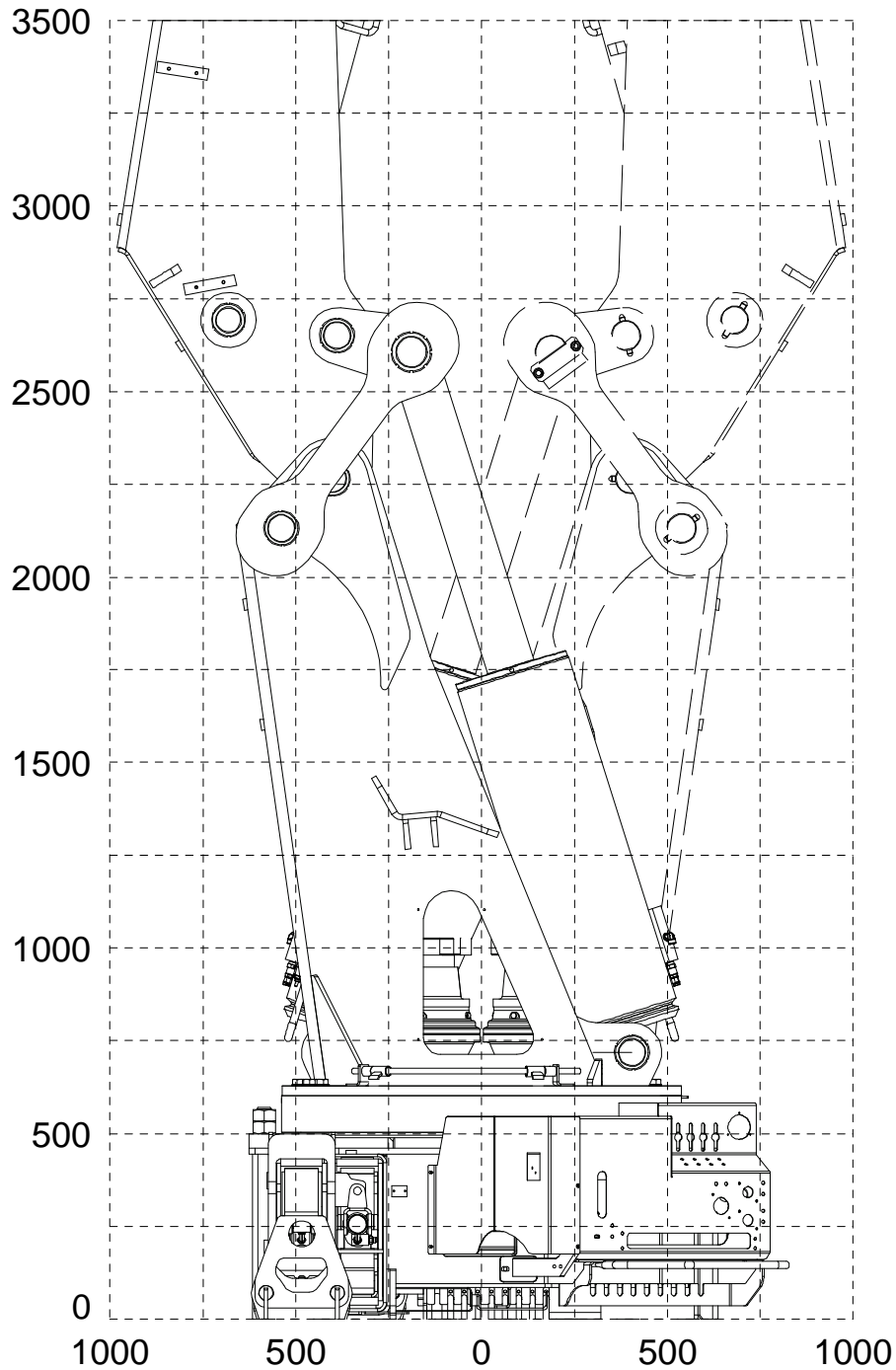
BASE DIMENSIONS



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

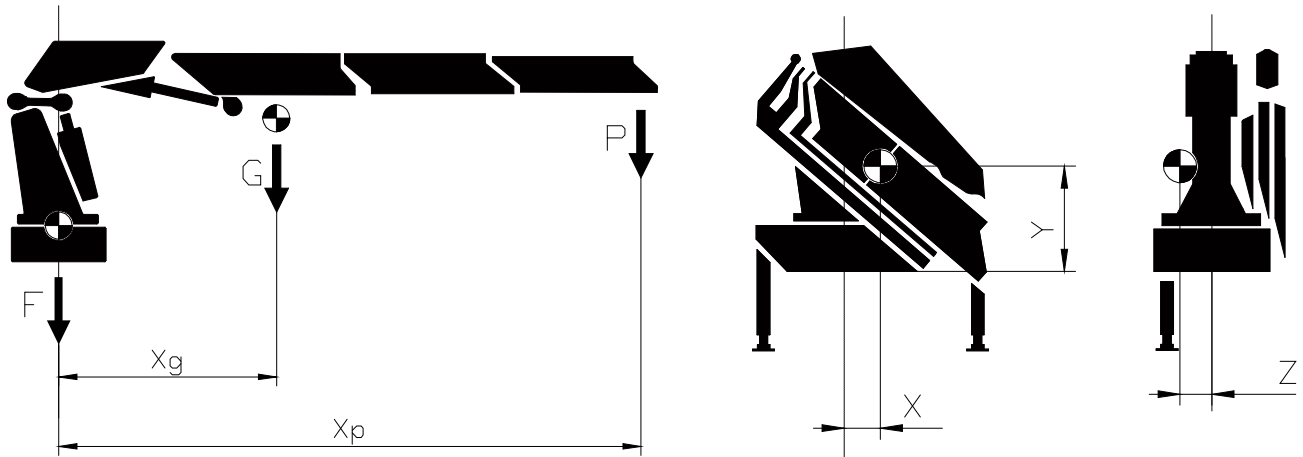
HBR660 TECHNICAL SHEET




ROTATION RADIUS



HBR660 TECHNICAL SHEET

WEIGHTS - CENTER OF GRAVITY

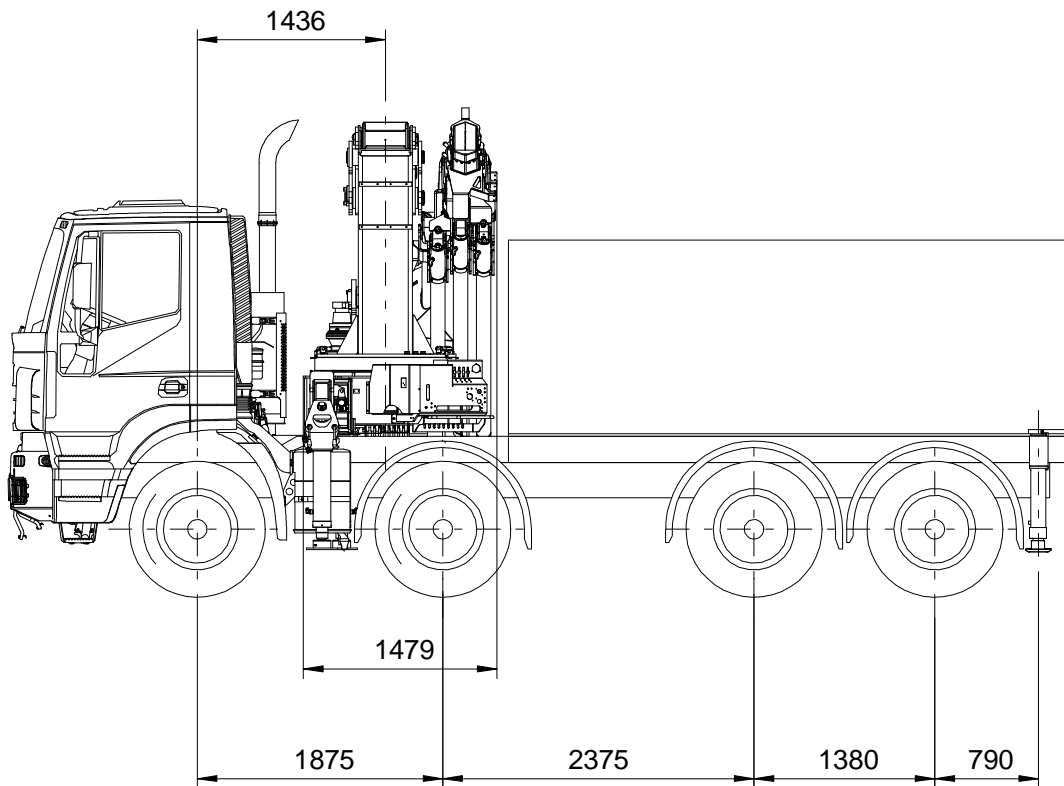


HBR660	F [kg]	G [kg]	Xg [m]	P [kg]	Xp [m]	TL [kg]	X [mm]	Y [mm]	Z [mm]
E2 	STD:3350 EX:3550	-	-	-	-	-	-	-	-
E4 		2700	4.17	4470	12.15	5588	318	906	82
E6 		3200	5.71	2850	16.40	3644	303	925	126

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)

HBR660 TECHNICAL SHEET

MIN TRUCK WITH SUPPLEMENTARY STABILIZERS



GVW= 34 t

CHASSIS DATA

Front axle

Front axle tare weight = 6520 kg

1ST Allowable front axle weight = 8000 kg

2ND Allowable front axle weight = 8000 kg

Rear axle

Rear axle tare weight = 3350 kg

OUTFIT WEIGHTS

Body weight = 1500 kg

Crane weight = 6750 kg (HBR660 EX-E6)

Counterframe weight = 1500 kg

Rear beam stabilizers

Min. width = 5000 mm

Rear stabilizer weight = 1075 kg

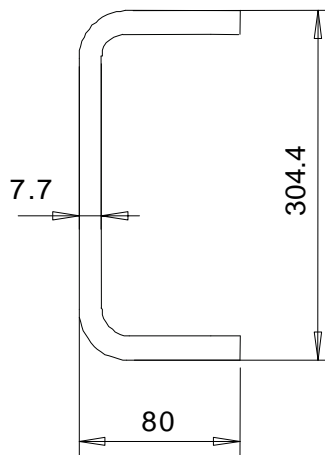
Stability index = 1,36

HBR660 TECHNICAL SHEET

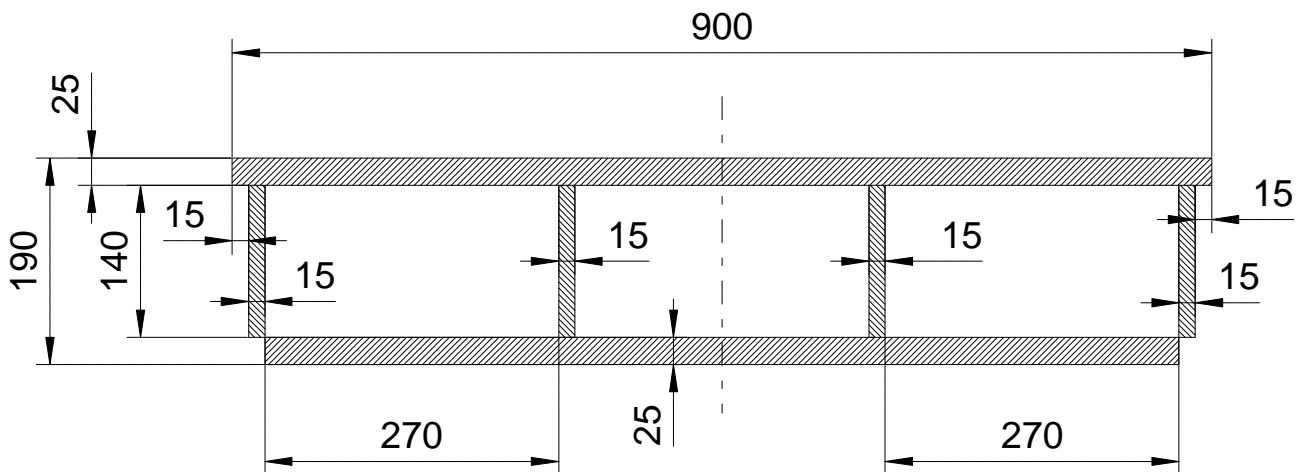
MIN COUNTERFRAME

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



Min counterframe section (steel S355)

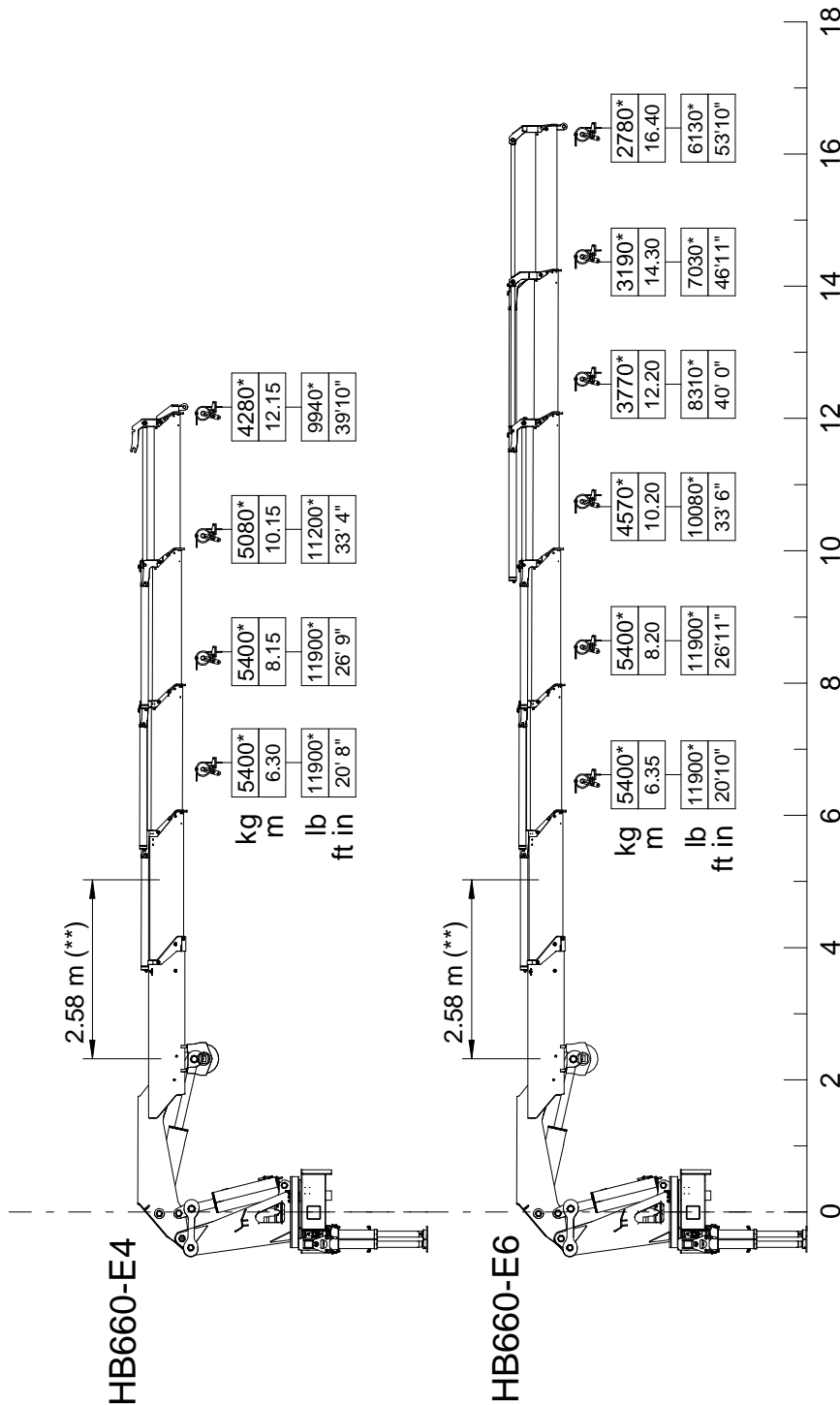


HBR660 TECHNICAL SHEET

HYDRAULIC WINCH DATA

Max winch direct pull (kg)

2700



(*) = Winch pulley with double line pull (***) = Min distance for using the winch
 OSTA Winch OS-3500 --- MAX Winch direct pull 2700 kg

HBR660 TECHNICAL SHEET

GRAB BUCKET DATA

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

