





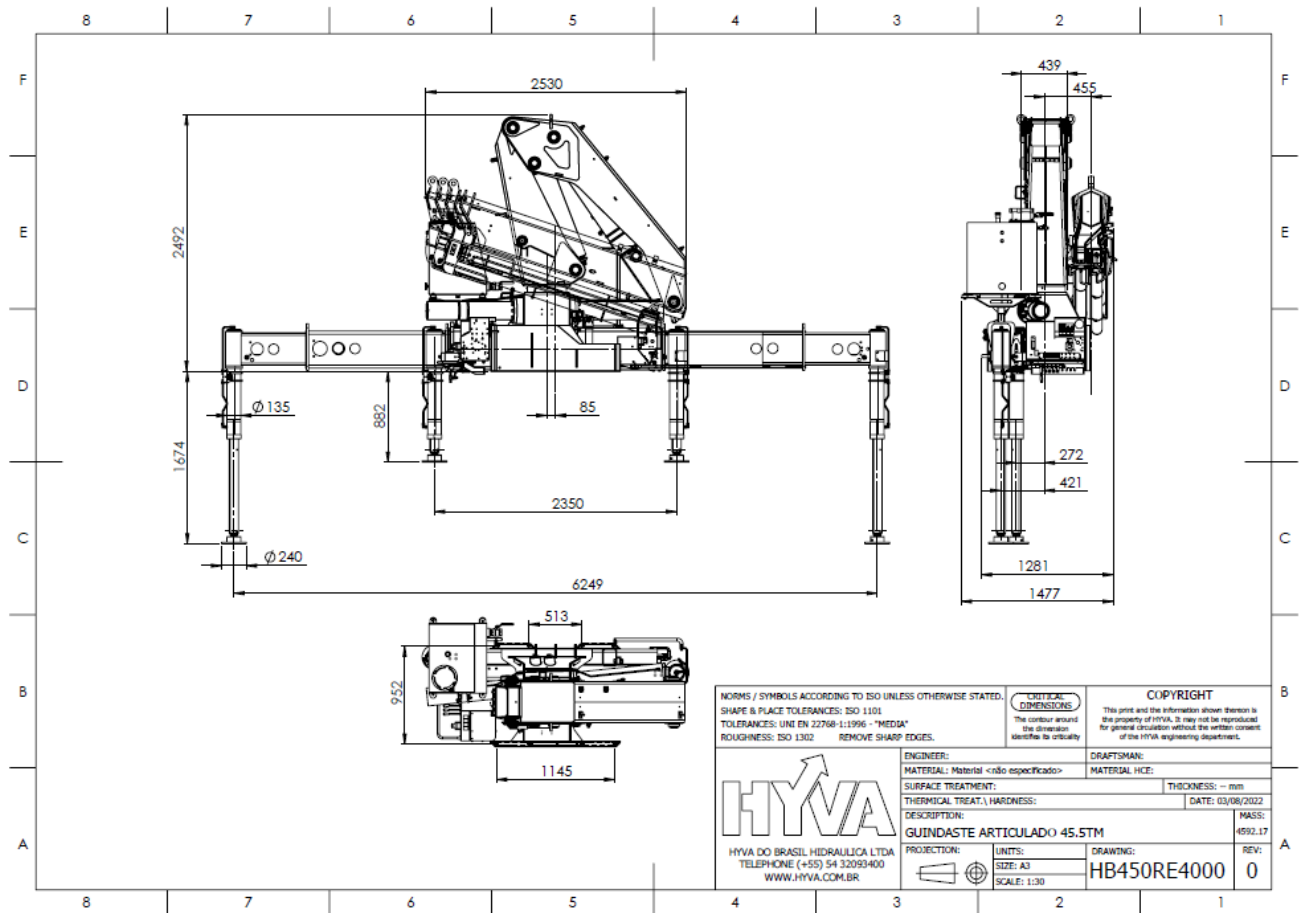
TECHNICAL SHEET

Max dynamic moment (daNm)		54730
Max load (kg)	Version	Q_{max}
	E2	10700
	E3	10300
	E4	10030
Crane weight (kg)	Version	STD
	E6	9900
	E2	4625
	E3	4865
	E4	5070
	E6	5430
		STD
Max force on the stabilizer leg		13420 daN
Max standard stabilizer pressure on the ground		57,5 daN/cm ²
Max working pressure		270 bar
Max oil flow		50 l/min
Oil tank capacity		250 l
Slewing moment		6500 daNm
Slewing angle		385°
Absorbed power		29.3 kW 40.2 HP
Design standard		EN 12999 DIN 15018

Fittings for connection with pump		
Control valve pressure line	 <p>HB451R</p>	3/4" BSP-S
Tank suction line		F2" BSP

HB450R TECHNICAL SHEET OVERALL DIMENSION

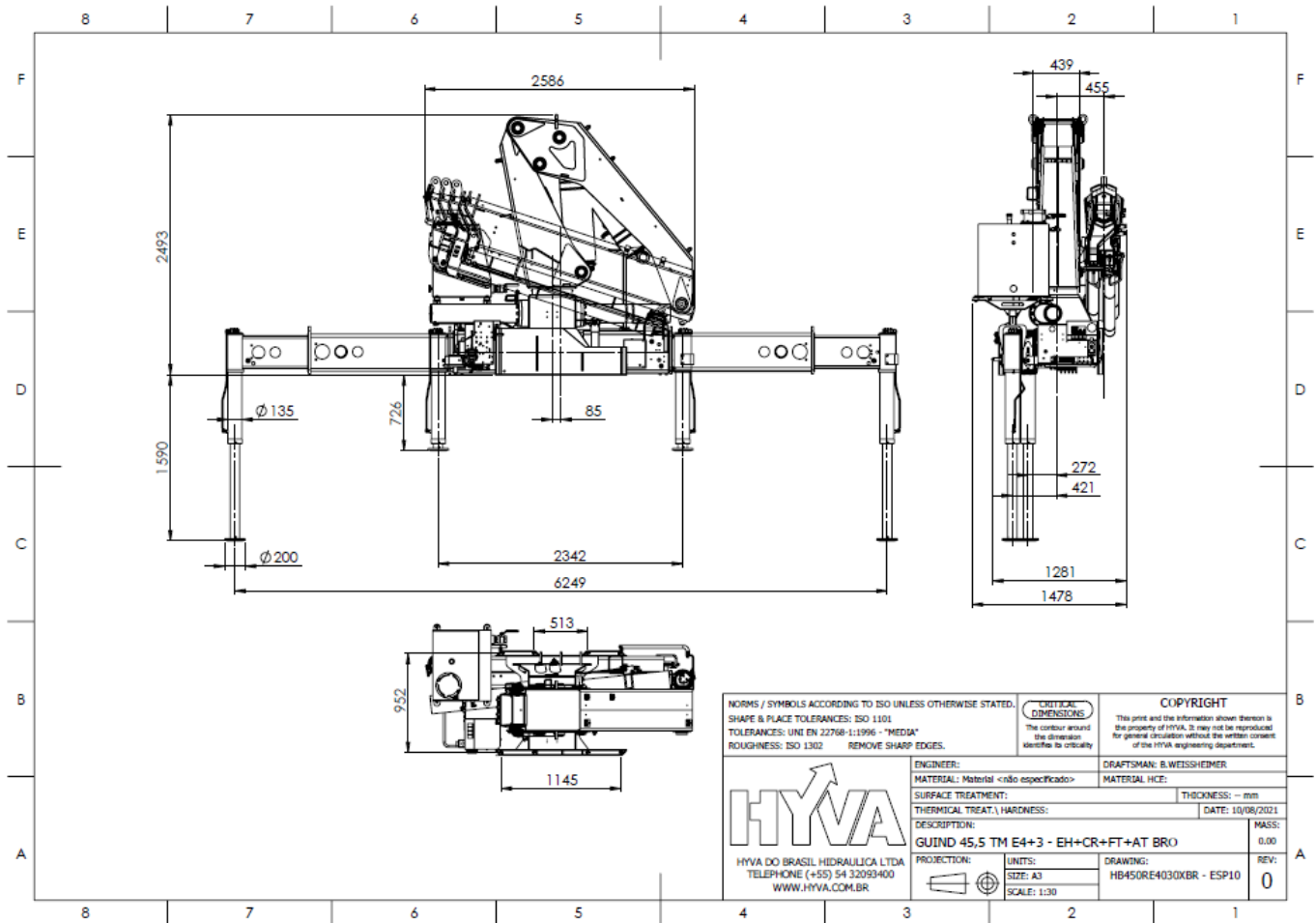
NO X





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HB450R TECHNICAL SHEET OVERALL DIMENSION

X

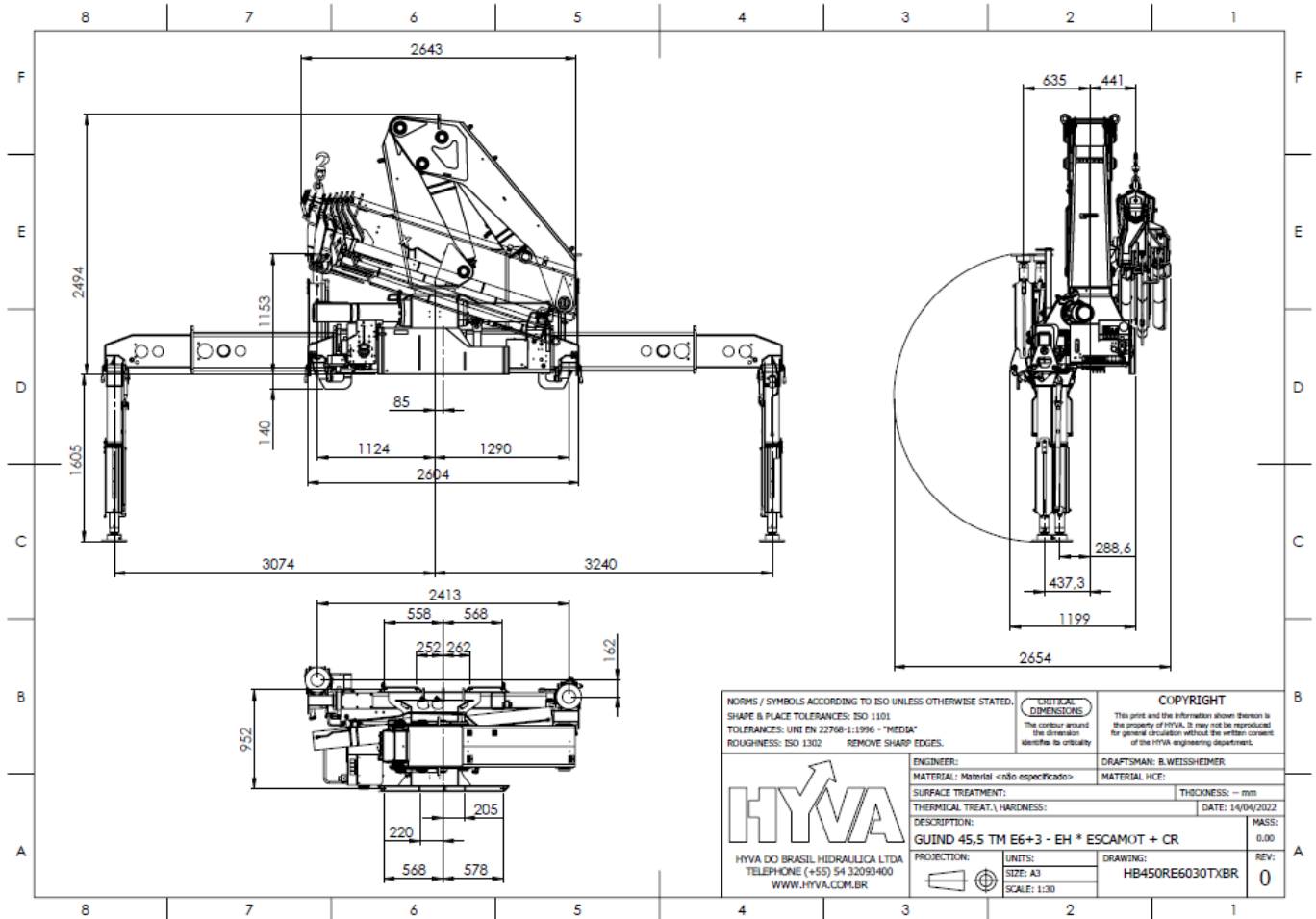


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NORMS / SYMBOLS ACCORDING TO ISO UNLESS OTHERWISE STATED. SHAPE & PLACE TOLERANCES: ISO 1101 TOLERANCES: UN EN 22768-1:1996 - "MEDIA" ROUGHNESS: ISO 1302 REMOVE SHARP EDGES.		CRITICAL DIMENSIONS The contour around the dimension identifies its criticality.	COPYRIGHT This print and the information shown thereon is the property of HYVA. It may not be reproduced for general circulation without the written consent of the HYVA engineering department.
ENGINEER: MATERIAL: Material <não especificado>	DRAFTSMAN: B. WEISSHEIMER MATERIAL HCE:		THICKNESS: - mm
SURFACE TREATMENT: THERMAL TREAT., HARDNESS:	DATE: 10/08/2021		MASS: 0.00
DESCRIPTION: GUIND 45,5 TM E4+3 - EH+CR+FT+AT BRO			REV: 0
 HYVA DO BRASIL HIDRAULICA LTDA TELEPHONE (+55) 54 32093400 WWW.HYVA.COM.BR		PROJECTION: 	UNITS: SIZE: A3 SCALE: 1:30

HB450R TECHNICAL SHEET OVERALL DIMENSION

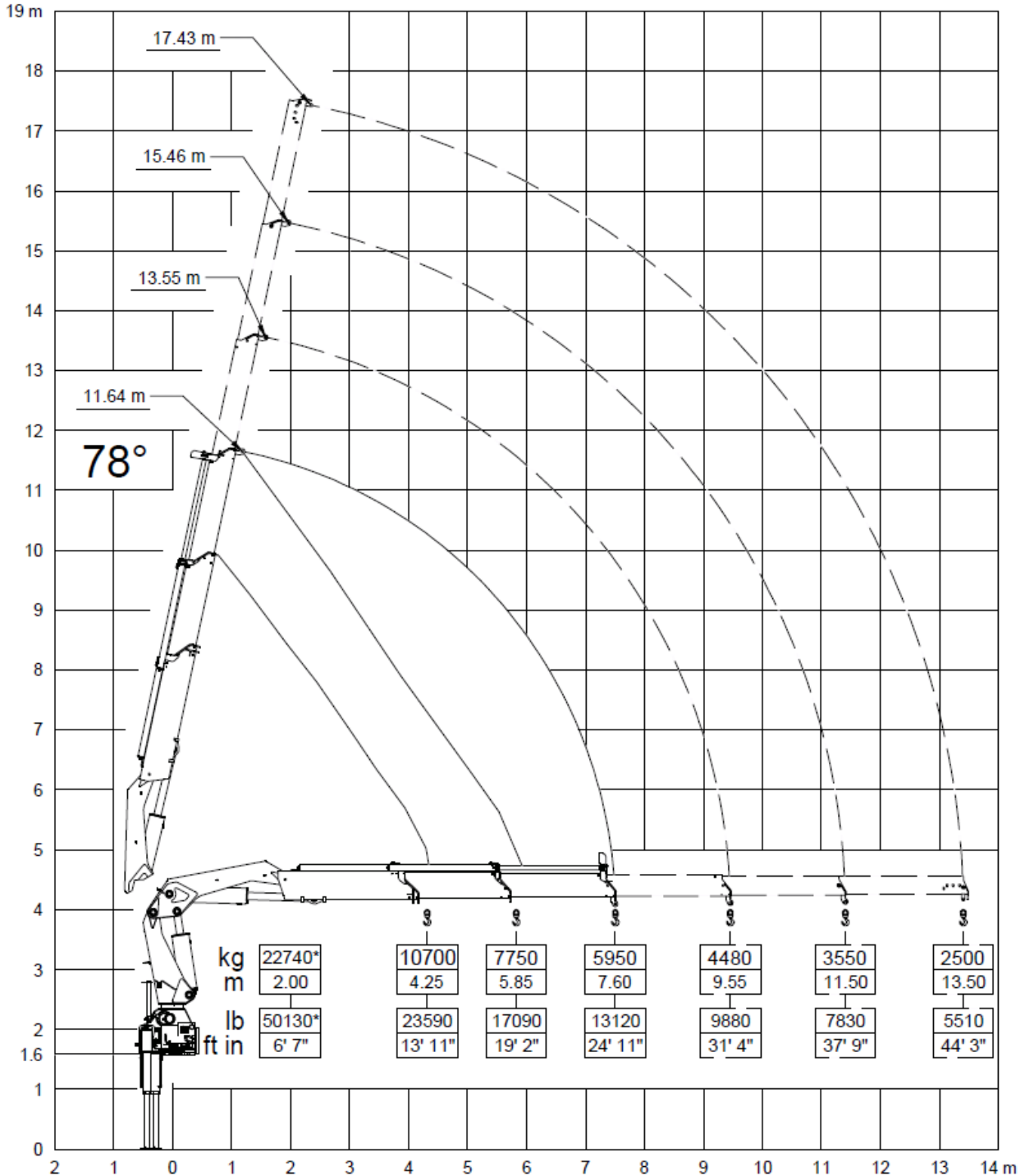
FOLDABLE



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HB450R TECHNICAL SHEET LOAD DIAGRAM

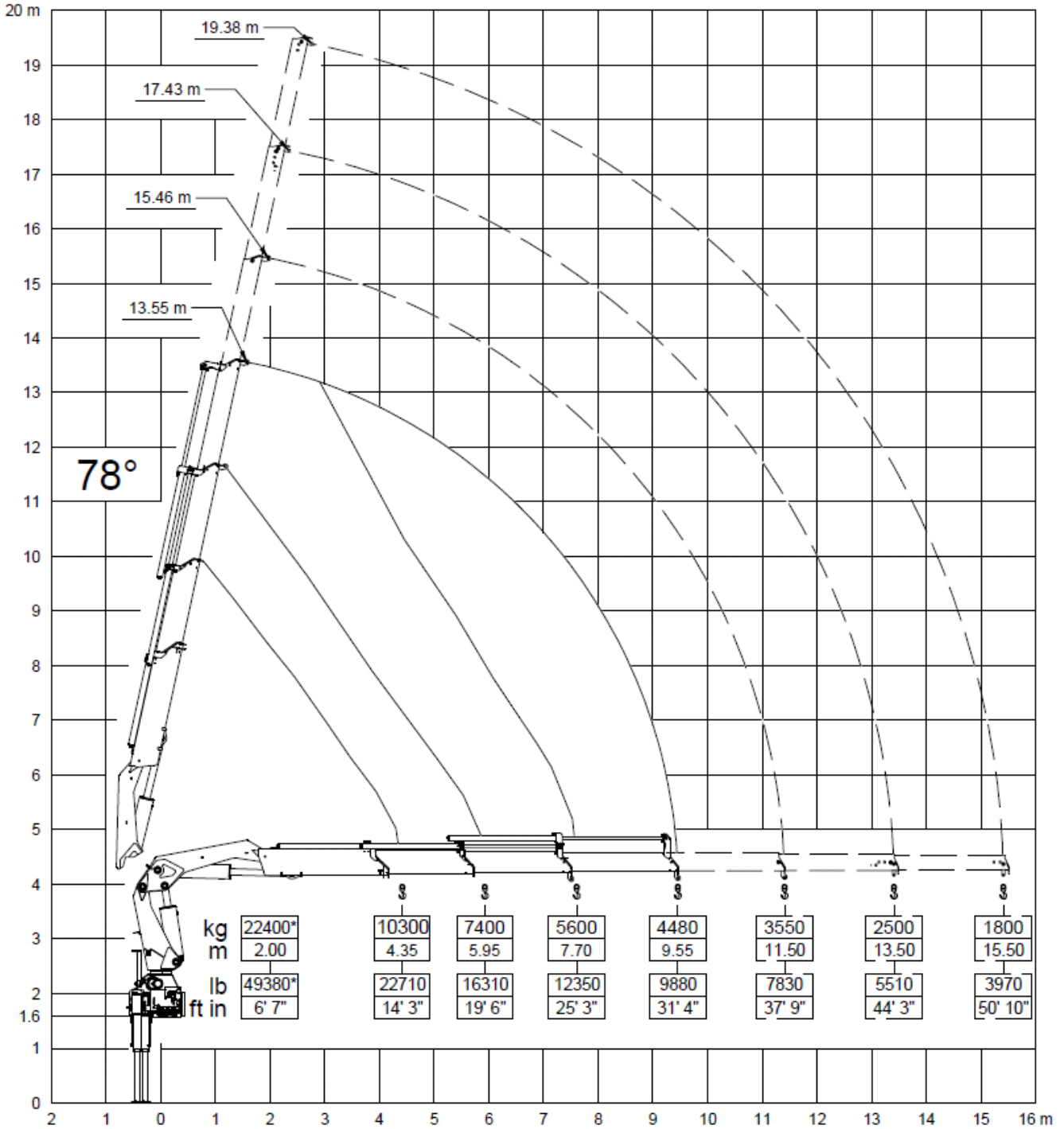
HB450R E2



* Theoretical lifting capacity

Lifting capacity = 45,48 tm

HB450R E3

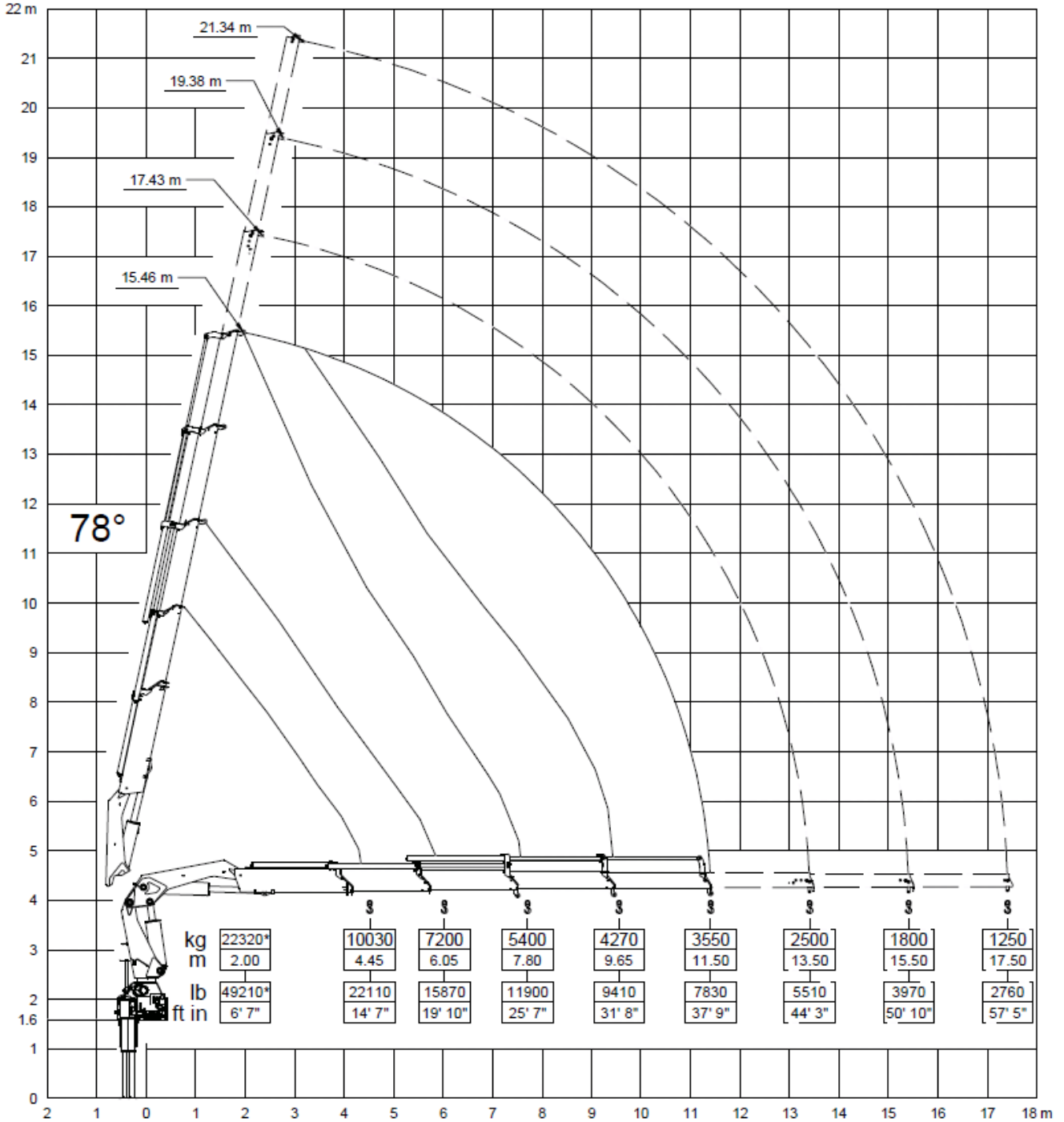


* Theoretical lifting capacity

Lifting capacity = 44,8 tm

HB450R TECHNICAL SHEET LOAD DIAGRAM

HB450R E4



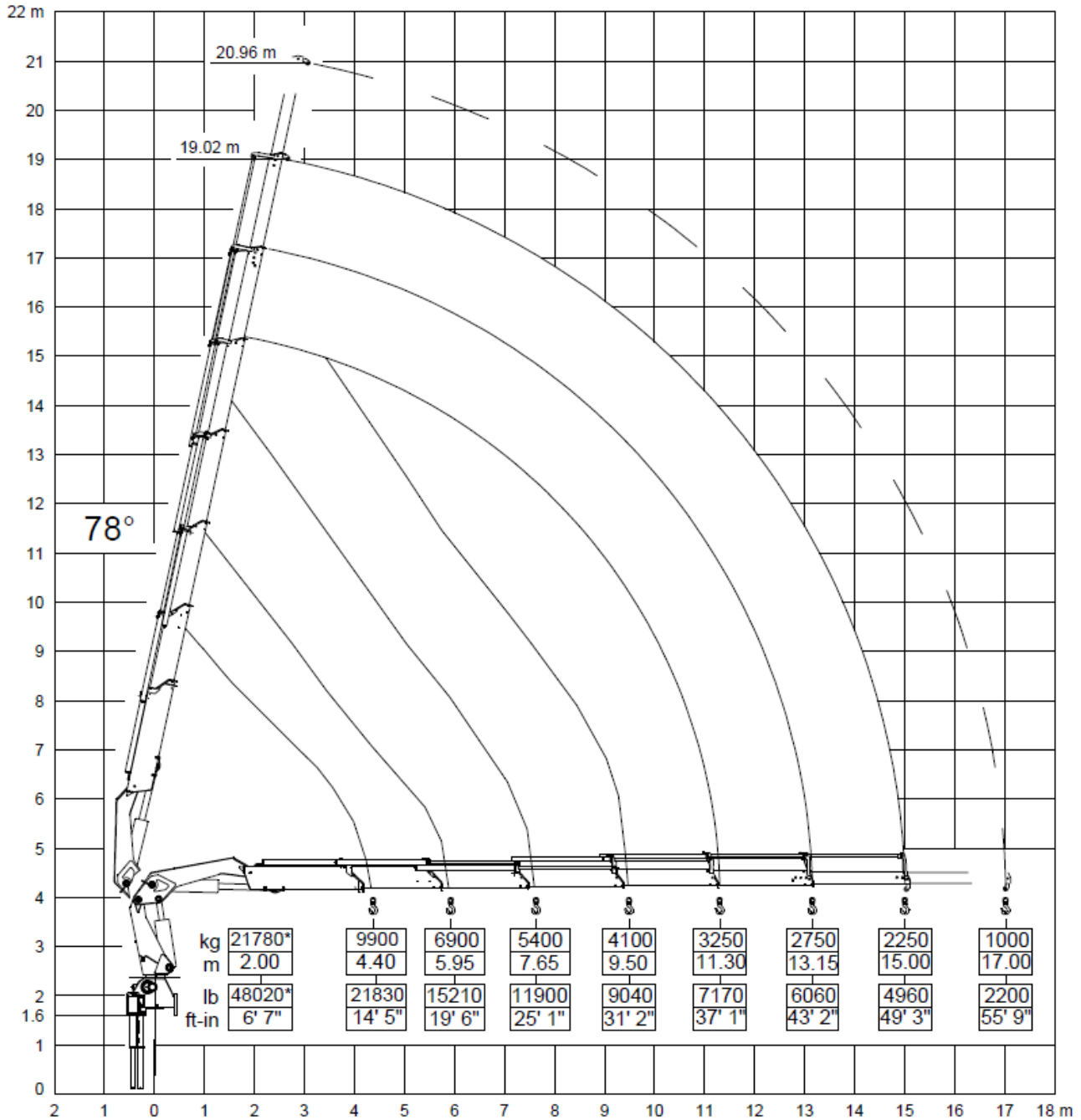
* Theoretical lifting capacity

Lifting capacity = 44,64 tm

HB450R TECHNICAL SHEET

LOAD DIAGRAM

HB450R E6

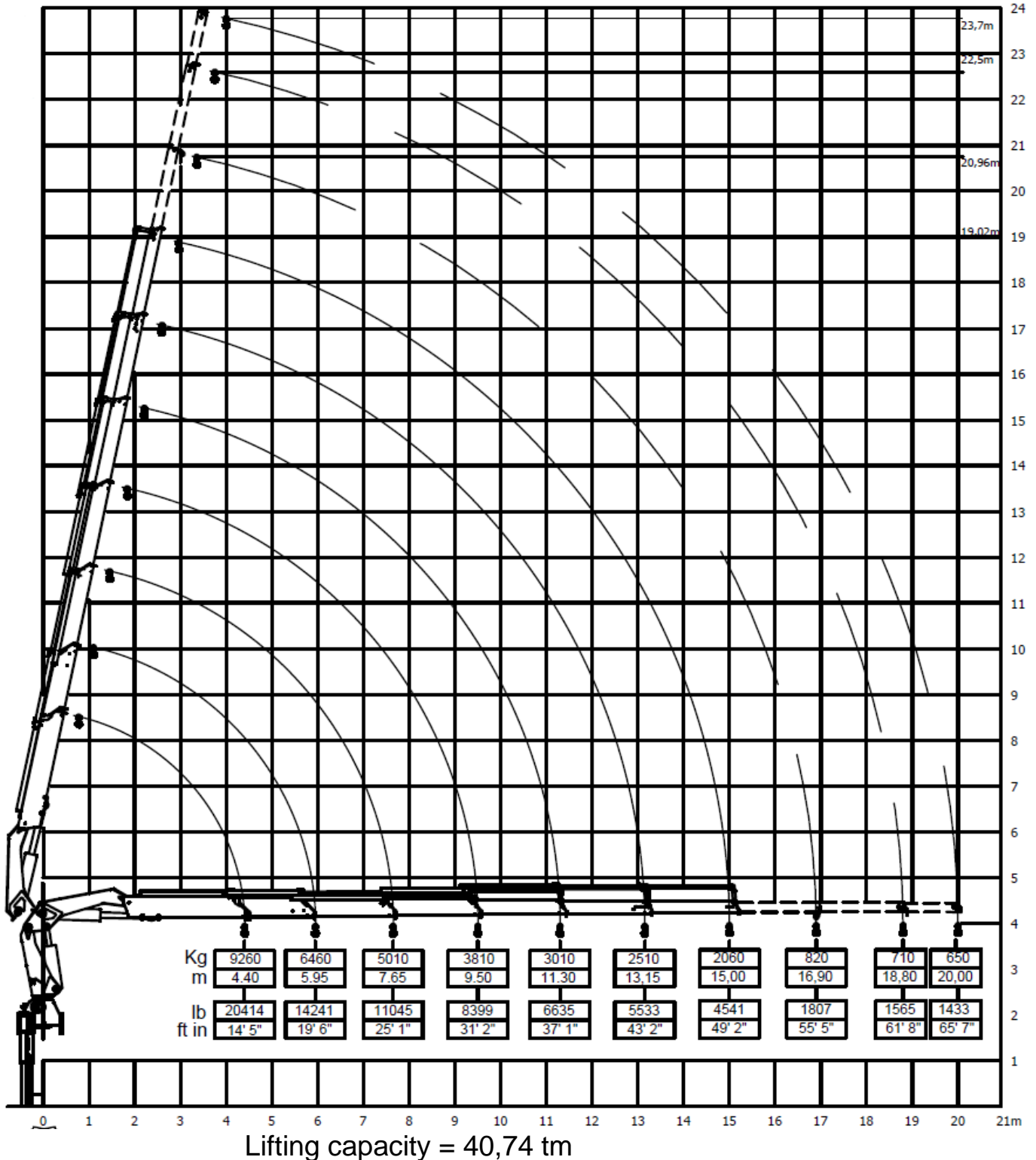


* Theoretical lifting capacity

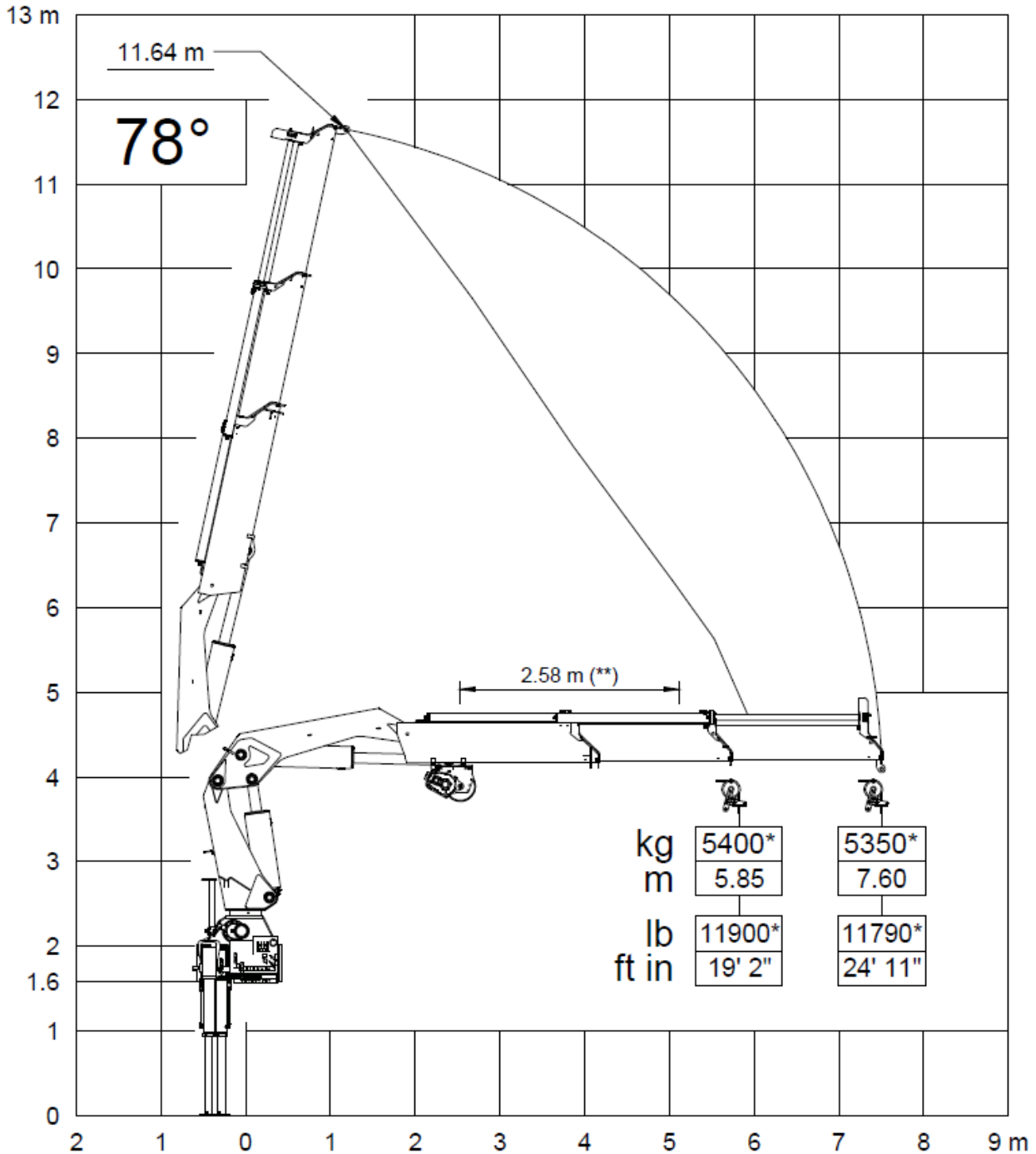
Lifting capacity = 43,56 tm

HB450R TECHNICAL SHEET LOAD DIAGRAM

HB450R E6+3



HB450R E2



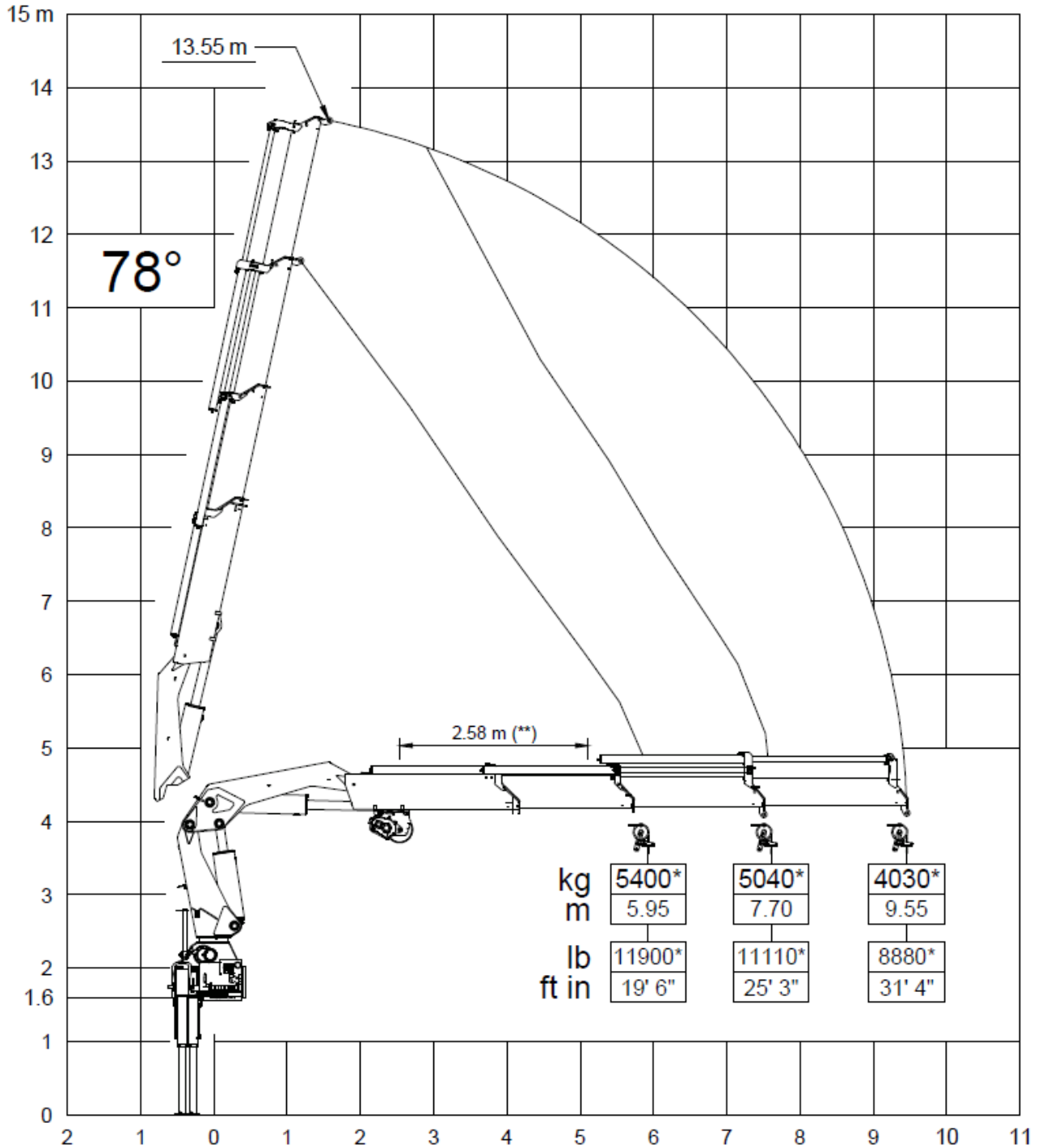
(*) = Winch pulley with double line pull (**) = Min distance for using the winch

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

HB450R TECHNICAL SHEET

WINCH LOAD DIAGRAM

HB450R E3

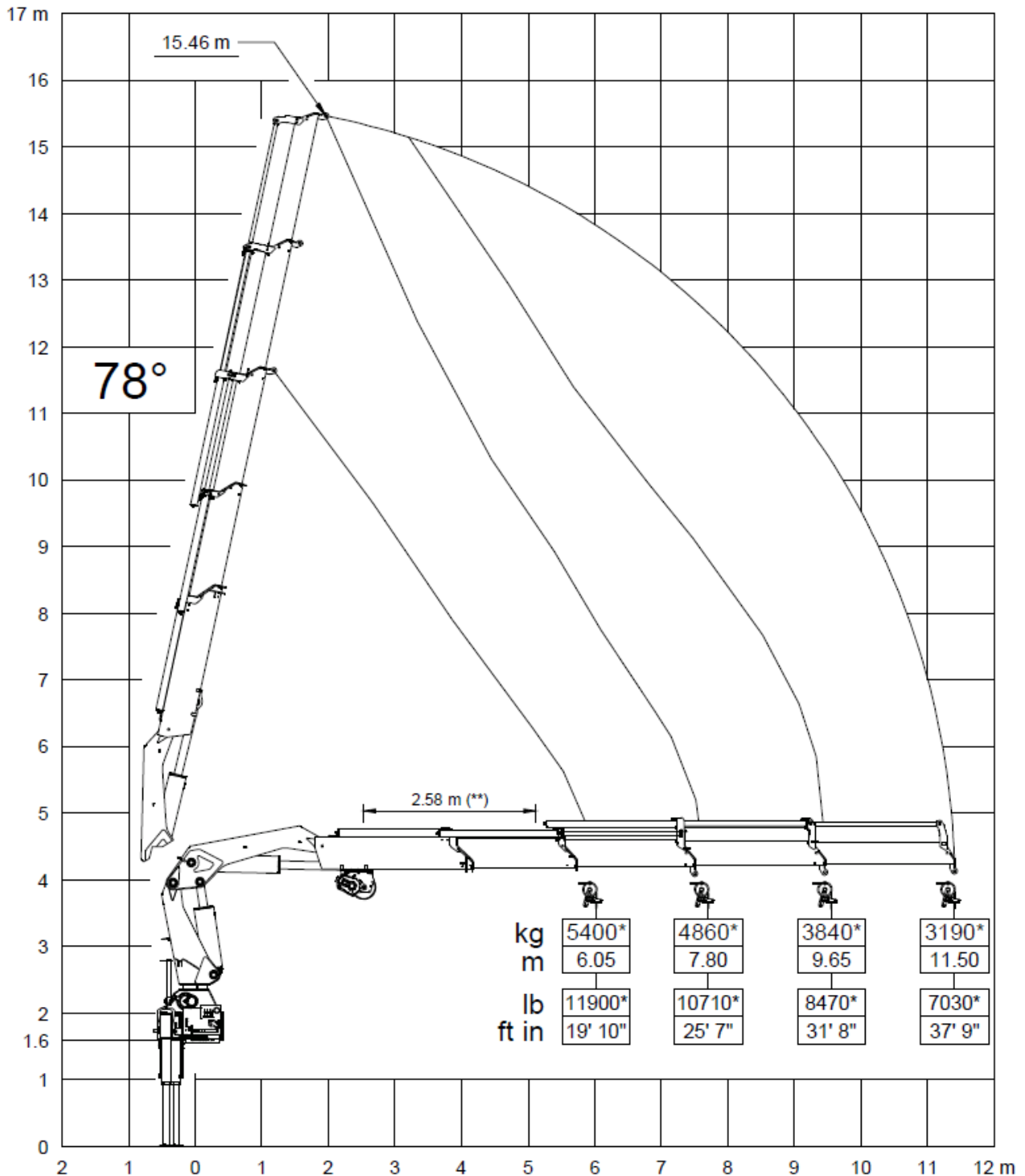


(*) = Winch pulley with double line pull (**) = Min distance for using the winch

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

HB450R TECHNICAL SHEET WINCH LOAD DIAGRAM

HB450R E4

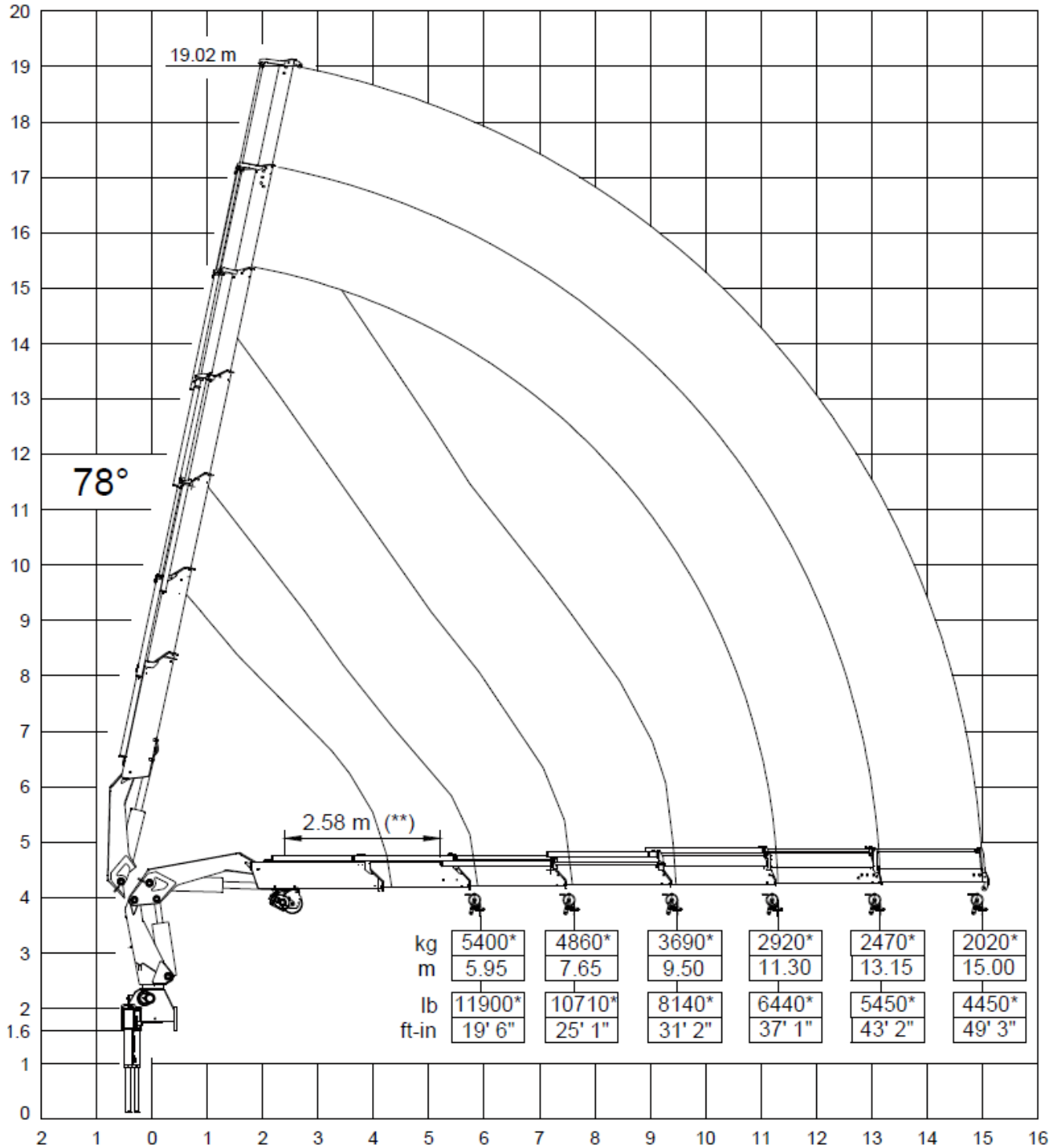


(*) = Winch pulley with double line pull (**) = Min distance for using the winch

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

HB450R TECHNICAL SHEET WINCH LOAD DIAGRAM

HB450R E6

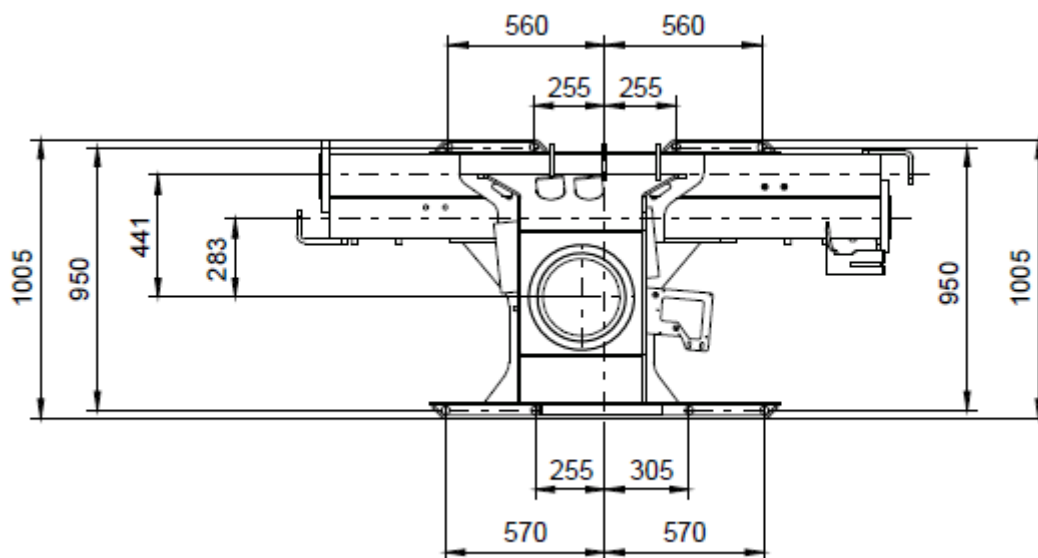


(*) = Winch pulley with double line pull (**) = Min distance for using the winch

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

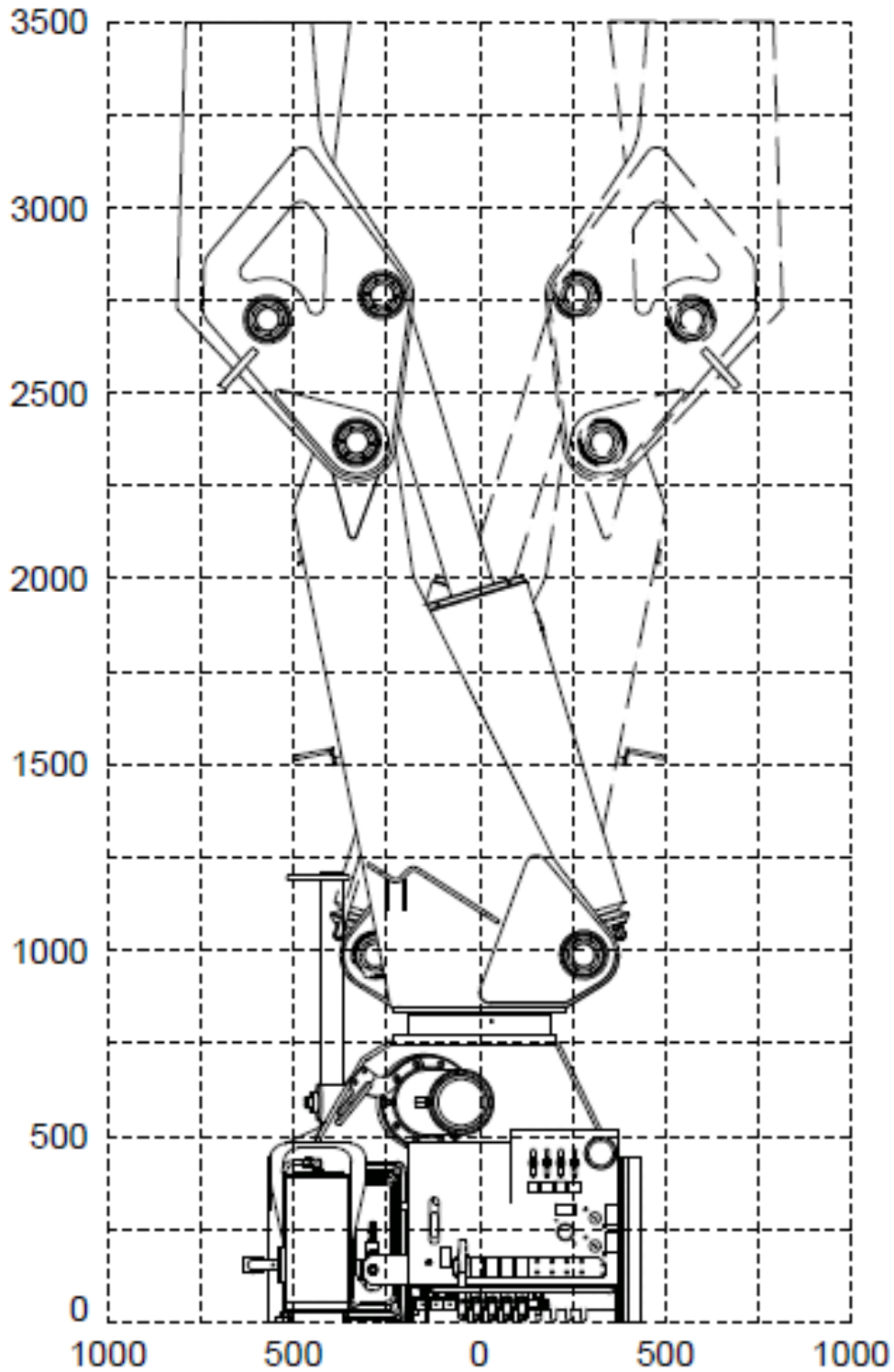
HB450R TECHNICAL SHEET

BASE DIMENSIONS, TIE MOUNTING RODS & ROTATION SCREWS

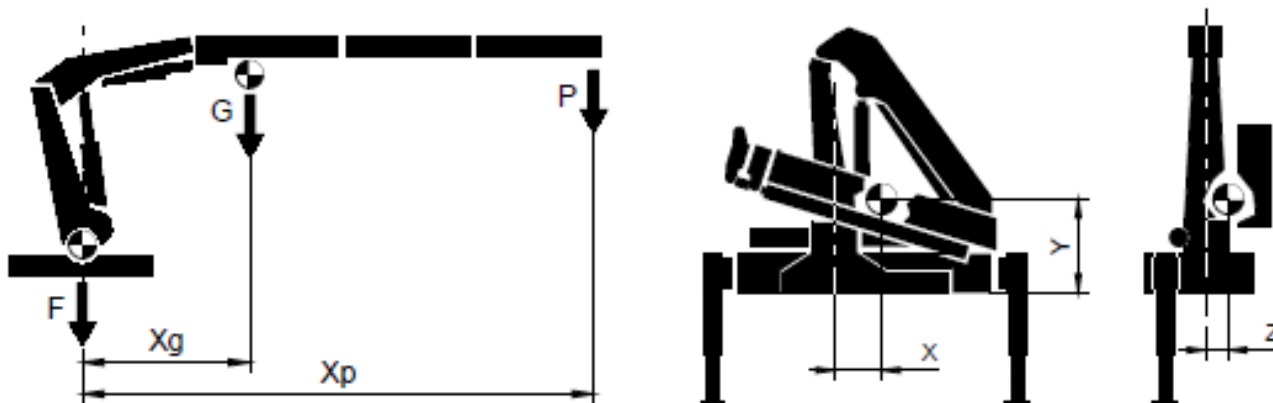






Tie mounting rods	N°8 M30x2 42CrMo4 BNF.
Rotation cylinder fixing bolts	N°10 M16X60 12.9 UNI 5931 Tightening torque 235 Nm

HB450R TECHNICAL SHEET ROTATION RADIUS



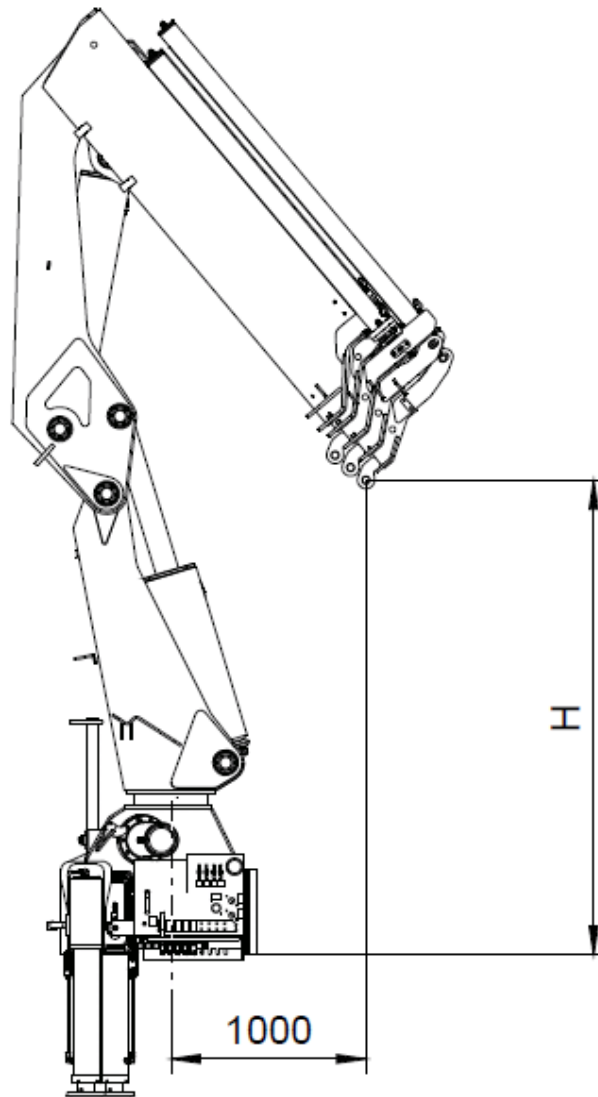
HB450R TECHNICAL SHEET WEIGHTS – CENTER OF GRAVITY



HB450R	F [kg]	G [kg]	Xg [m]	P [kg]	TL [kg]	Xp [m]	X [mm]	Y [mm]	Z [mm]
E2 	2940	1685	2,59	5950	7438	7,60	145	895	-25
E3 		1925	3,26	4480	5600	9,55	135	900	0
E4 		2130	3,88	3550	4438	11,5	120	910	15
E6 		2490	5,24	2250	2874	15,0	110	920	50

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)

HB450R TECHNICAL SHEET HOOK HEIGHT



	H [mm]
E2	2665
E3	2550
E4	2435
E6	2450

HB450R TECHNICAL SHEET

CYLINDERS DIMENSIONS

LIFTING CYLINDER

Cylinder bore	250
Cylinder external diameter	280
Rod diameter	120
Pitch (open)	1858
Pitch (closed)	1111
Stroke	747
Fittings	1/2" G
Articulation pin Ø	70
Pin steel	39NiCrMo3

ARTICULATION CYLINDER

Cylinder bore	220
Cylinder external diameter	260
Rod diameter	120
Pitch (open)	2455
Pitch (closed)	1402
Stroke	1053
Fittings	1/2" G
Articulation pin Ø	70
Pin steel	39NiCrMo3

1ST EXTENSION CYLINDER

Cylinder bore	90
Cylinder external diameter	105
Rod diameter	65 – 50
Pitch (open)	1640
Pitch (closed)	130
Stroke	1510
Fittings	3/4" G
Fixing pin Ø	38
Pin steel	39NiCrMo3 BNF

2ND EXTENSION CYLINDER

Cylinder bore	90
Cylinder external diameter	105
Rod diameter	65 – 50
Pitch (open)	1810
Pitch (closed)	130
Stroke	1680
Fittings	3/4" G
Fixing pin Ø	38
Pin steel	39NiCrMo3 BNF

3RD EXTENSION CYLINDER

Cylinder bore	85
Cylinder external diameter	100
Rod diameter	65 – 40
Pitch (open)	1979
Pitch (closed)	129
Stroke	1850
Fittings	1/2" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 BNF

4TH EXTENSION CYLINDER

Cylinder bore	80
Cylinder external diameter	95
Rod diameter	50
Pitch (open)	1978
Pitch (closed)	128
Stroke	1850
Fittings	1/2" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 BNF

5TH EXTENSION CYLINDER

Cylinder bore	76,2
Cylinder external diameter	90
Rod diameter	50 – 32
Pitch (open)	1961
Pitch (closed)	111
Stroke	1850
Fittings	1/2" G
Fixing pin Ø	35,1
Pin steel	39NiCrMo3 BNF

6TH EXTENSION CYLINDER

Cylinder bore	76,2
Cylinder external diameter	90
Rod diameter	50
Pitch (open)	1961
Pitch (closed)	111
Stroke	1850
Fittings	1/2" G
Fixing pin Ø	35,1
Pin steel	39NiCrMo3 BNF

HB450R TECHNICAL SHEET

CYLINDERS DIMENSIONS

STABILIZER CYLINDER

Cylinder bore	120
Cylinder external diameter	135
Rod diameter	90
Pitch (open)	1627
Pitch (closed)	603
Stroke	764
Fittings	3/8"G
Articulation pin Ø	-
Pin steel	-

STABILIZER EXTENSION CYLINDER

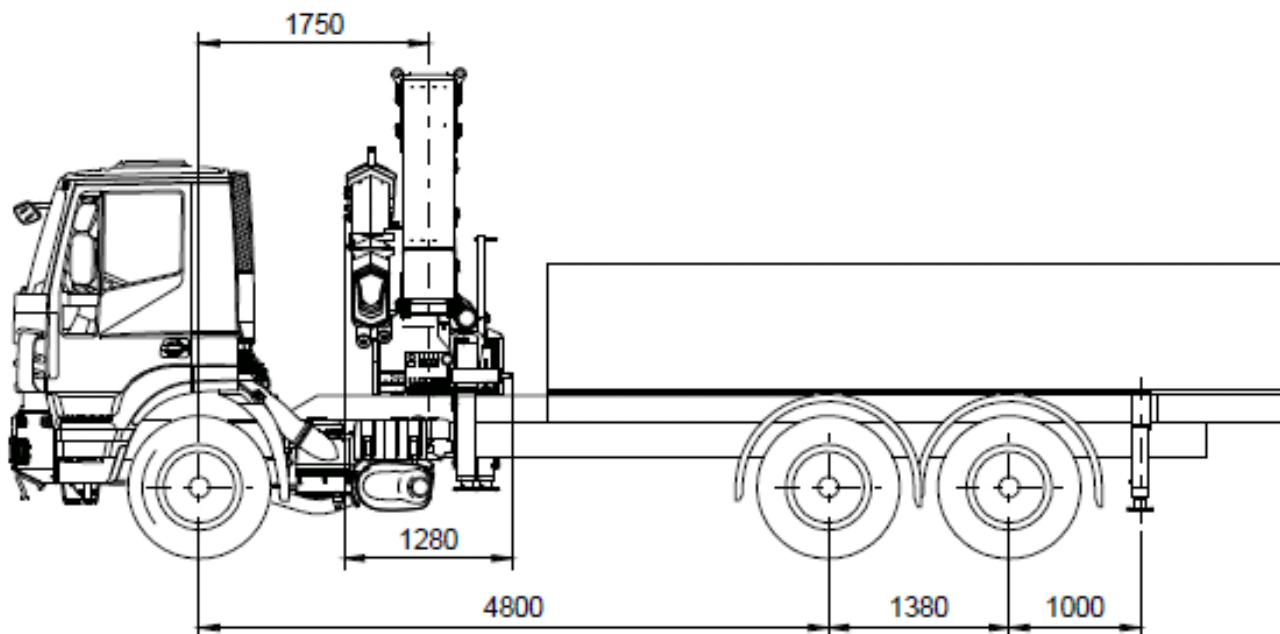
Cylinder bore	40
Cylinder external diameter	50
Rod diameter	25
Pitch (open)	4084
Pitch (closed)	2134
Stroke	1950
Fittings	9/16-18 JIC
Fixing pin Ø	20
Pin steel	C40

ROTATION CYLINDER

Cylinder bore	150
Cylinder external diameter	175
Rod diameter	-
Pitch (open)	-
Pitch (closed)	-
Stroke	922
Fittings	-
Fixing pin Ø	-
Pin steel	-

HB450R TECHNICAL SHEET

MIN TRUCK WITH SUPPLEMENTARY STABILIZERS



GVW= 26t

Front axle

Front Axle tare weight = 4515 kg

Allowable front axle weight = 8000 kg

Rear axle

Rear axle tare weight = 3975 kg

OUTFIT WEIGHTS

Body weight = 1500 kg

Crane weight = 5430 kg (HBR450R-E6)

Counterframe weight = 585 kg

Rear beam stabilizers

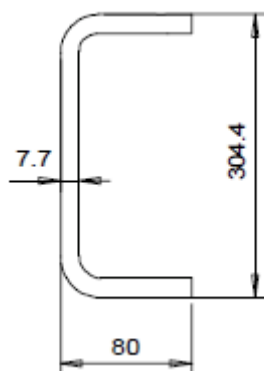
Min. Width = 5000 mm

Rear stabilizer weight = 575 kg

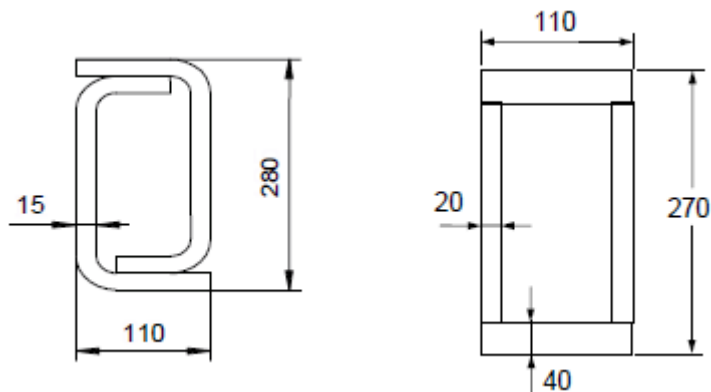
Stability index = 1,30

Max dynamic moment [daNm]	54730
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Min frame section (Truck GVW 26 ton)



Min counterframe section (steel S355)



HB450R TECHNICAL SHEET

GRAB BUCKET DATA

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

