

816N

RACCOLTA TECNICA **TECHNICAL BOOK**



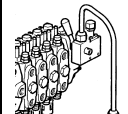
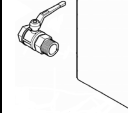
CARATTERISTICHE GENERALI
TECHNICAL DATA

Momento dinamico max (daNm) Max dynamic moment	18110
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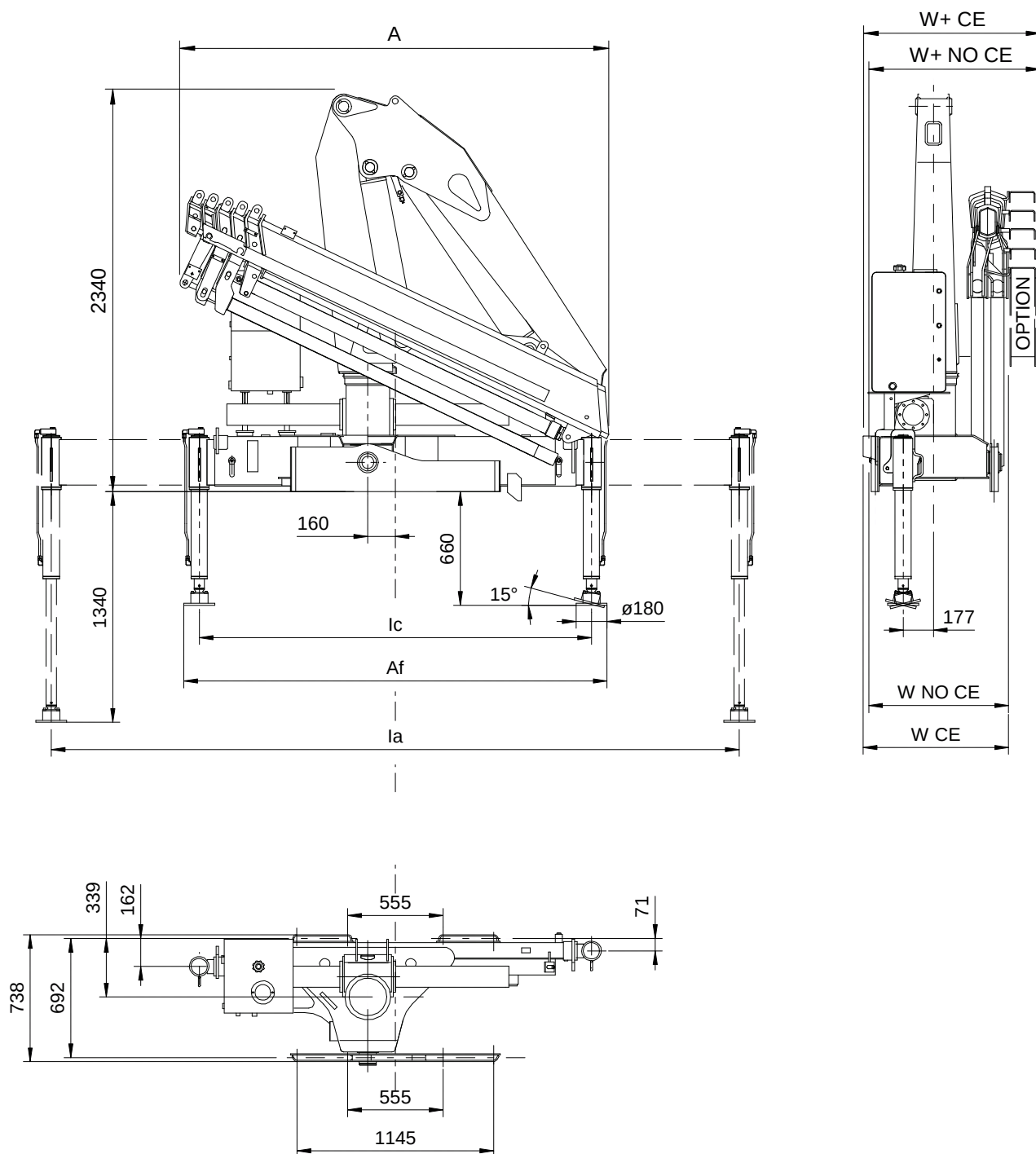
	Versione	Q _{max}
Portata max (kg) Max load	1S	5830
	2S	5580
	3S	5380
	4S	5280
	5S	5180

	Versione	STD	EX hydr.	SE hydr.	ME hydr
Massa in ordine di lavoro (kg) Crane weight	1S	1670	1770	1780	1885
	2S	1800	1900	1910	2015
	3S	1920	2020	2030	2135
	4S	2020	2120	2130	2235
	5S	2100	2200	2210	2315

	STD	EX	SE	ME
Reazione massima sullo stabilizzatore (daN) Max force on the stabilizer leg	9845	7515	6750	5770
Carico massimo trasmesso al suolo da stabilizzatori (daN/cm²) Max stabilizer pressure on the ground	39	30	27	23
Pressione massima di esercizio Max working pressure	300 bar			
Portata massima di olio Max oil flow	25 l/min (AVPS mode 12 l/min)			
Capacità serbatoio olio Oil tank capacity	100 l			
Coppia di rotazione Slewing moment	1825 daNm			
Angolo di rotazione Slewing angle	Possible: 380° (std) - 410° (on request) - 425° (on request)			
Potenza assorbita Absorbed power	16,3 kW 21,8 HP			
Normativa di calcolo Design standard	DIN 15018 EN 12999			

Raccordi di collegamento con pompa Fittings for connection with pump		NO RDC	RDC
Linea di pressione distributore Control valve pressure line		F 7/8" - 14 Jic	M 7/8" - 14 Jic
Linea di aspirazione serbatoio Tank suction line		F 1" 1/2 BSP	F 1" 1/2 BSP

DIMENSIONI DI INGOMBRO DIMENSIONS 816N



DIMENSIONI DI INGOMBRO
DIMENSIONS
816N

ME	1S	2S	3S	4S	5S
A	2155	2290	2405	2485	2500
W NO CE	885				940
W CE	915				970
W+ NO CE	1030				-
W+ CE	1060				-

NO ME	1S	2S	3S	4S	5S
A	2155	2290	2405	2485	2500
W NO CE	855				910
W CE	885				940
W+ NO CE	1000				-
W+ CE	1030				-

	STD	EX	SE	ME
Ic	2280	2280	2350	2350
Ia	4000	5140	5500	6200
Af	2460	2460	2530	2530

DIAGRAMMA PORTATE LOAD DIAGRAM 816N 1S

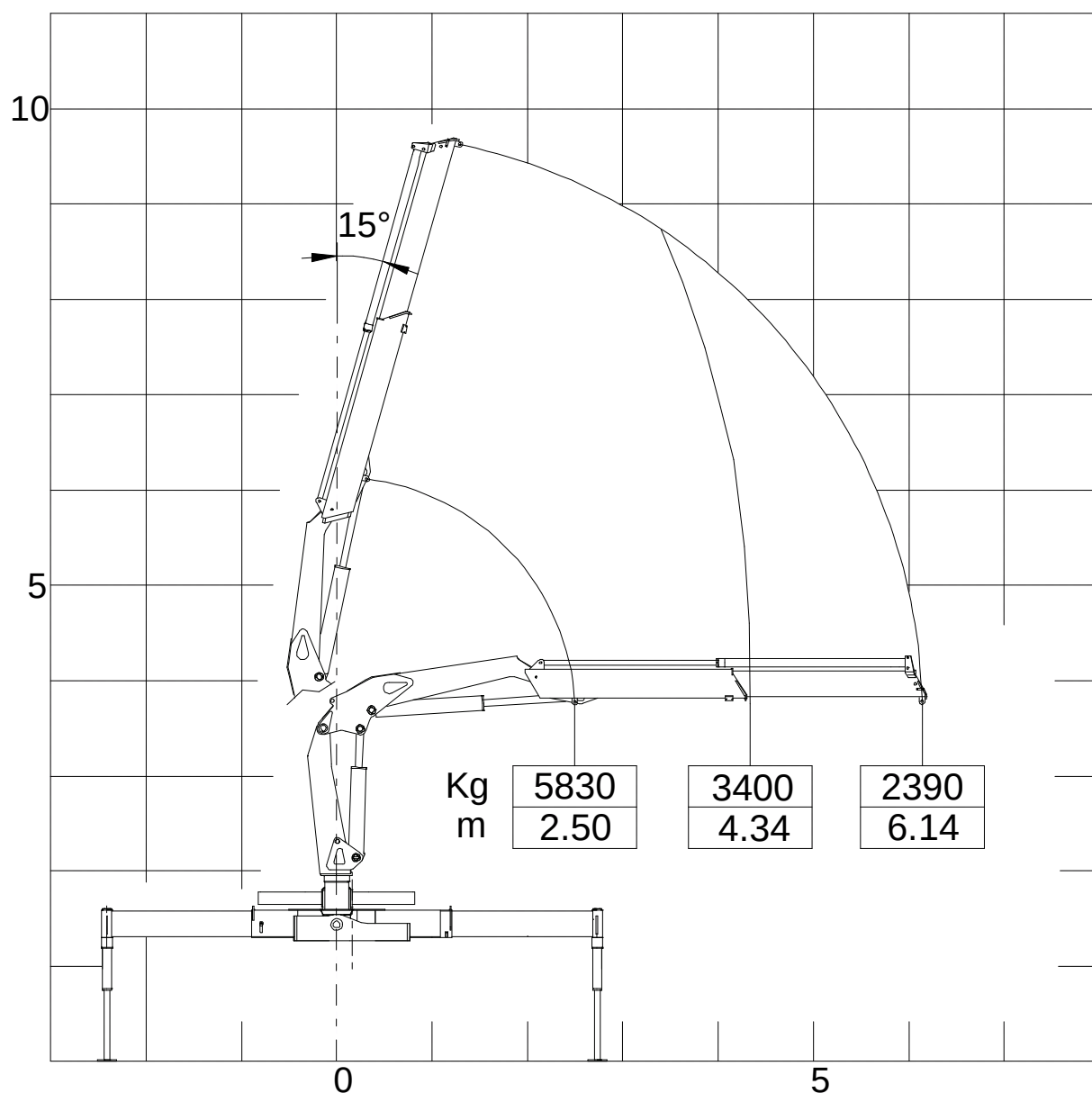


DIAGRAMMA PORTATE LOAD DIAGRAM 816N 2S

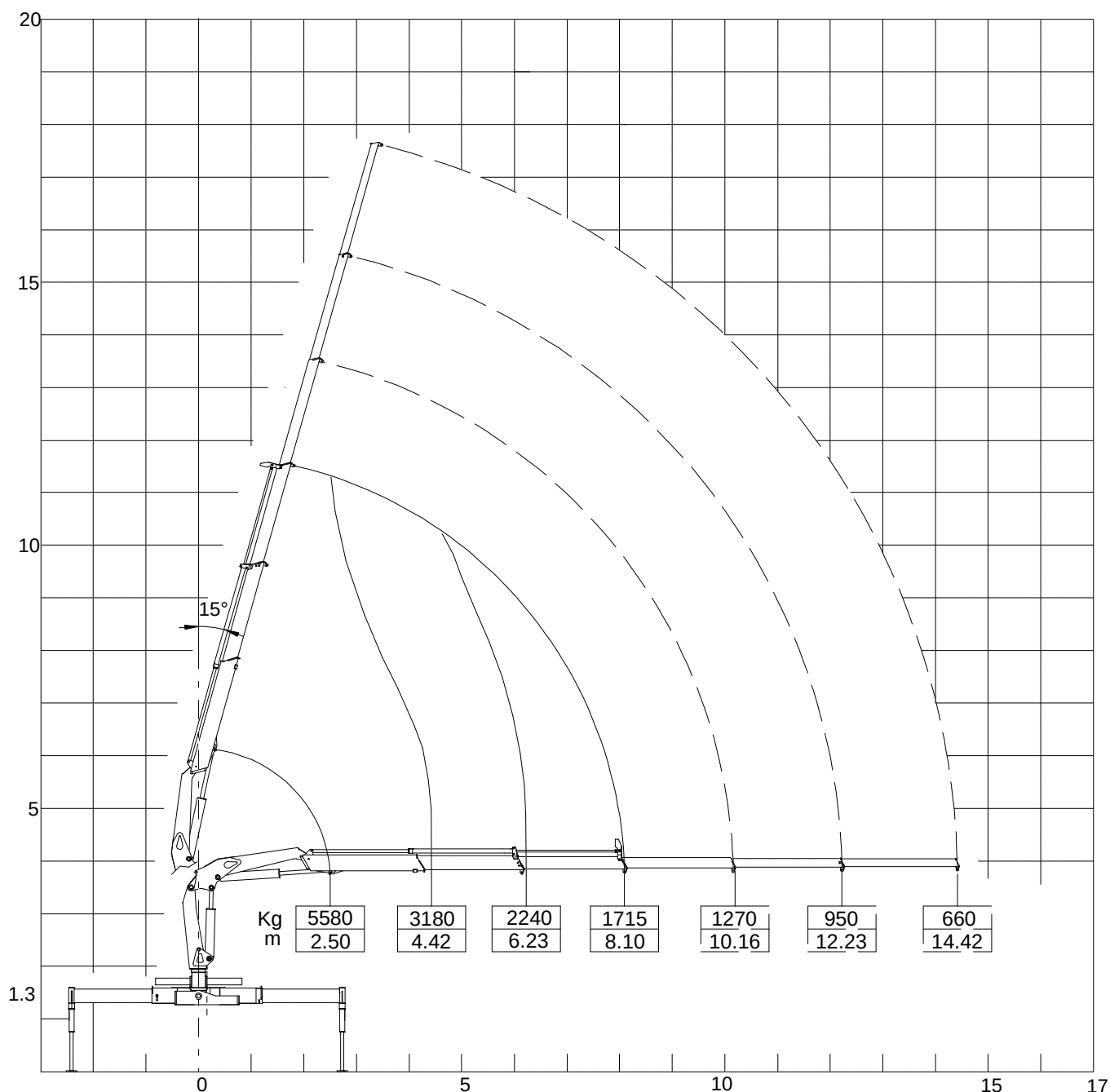


DIAGRAMMA PORTATE LOAD DIAGRAM 816N 3S

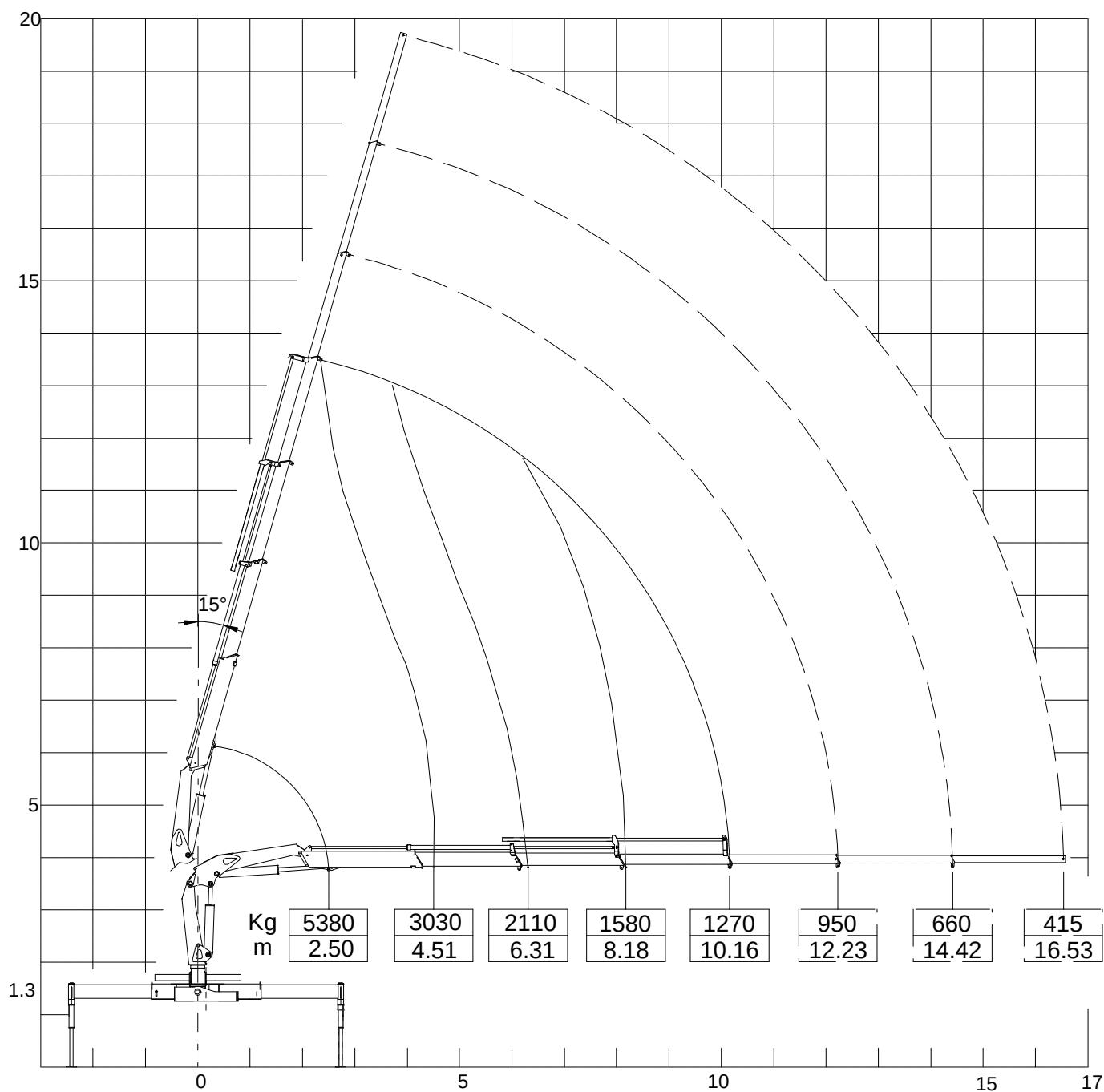


DIAGRAMMA PORTATE LOAD DIAGRAM 816N 4S

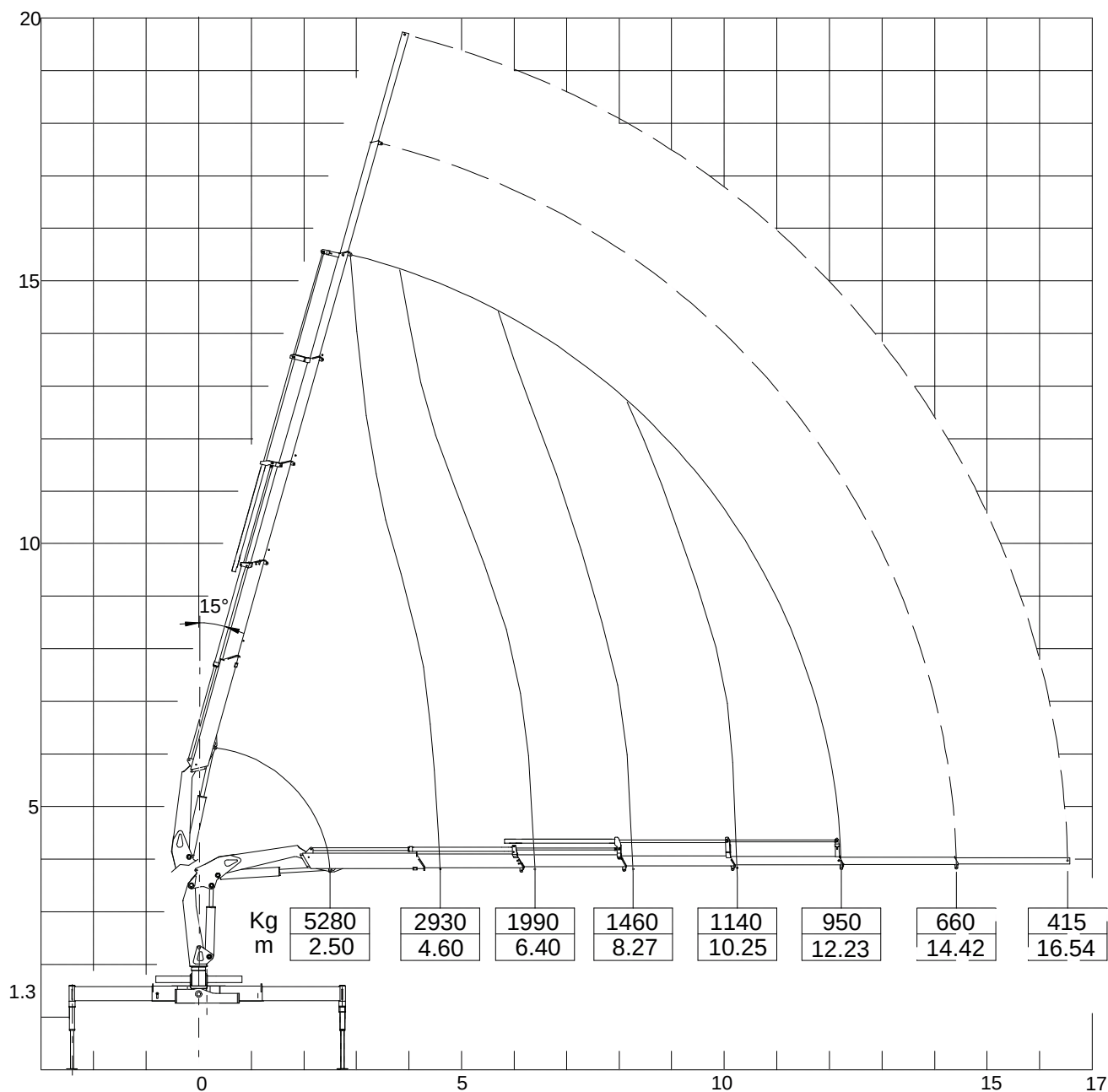
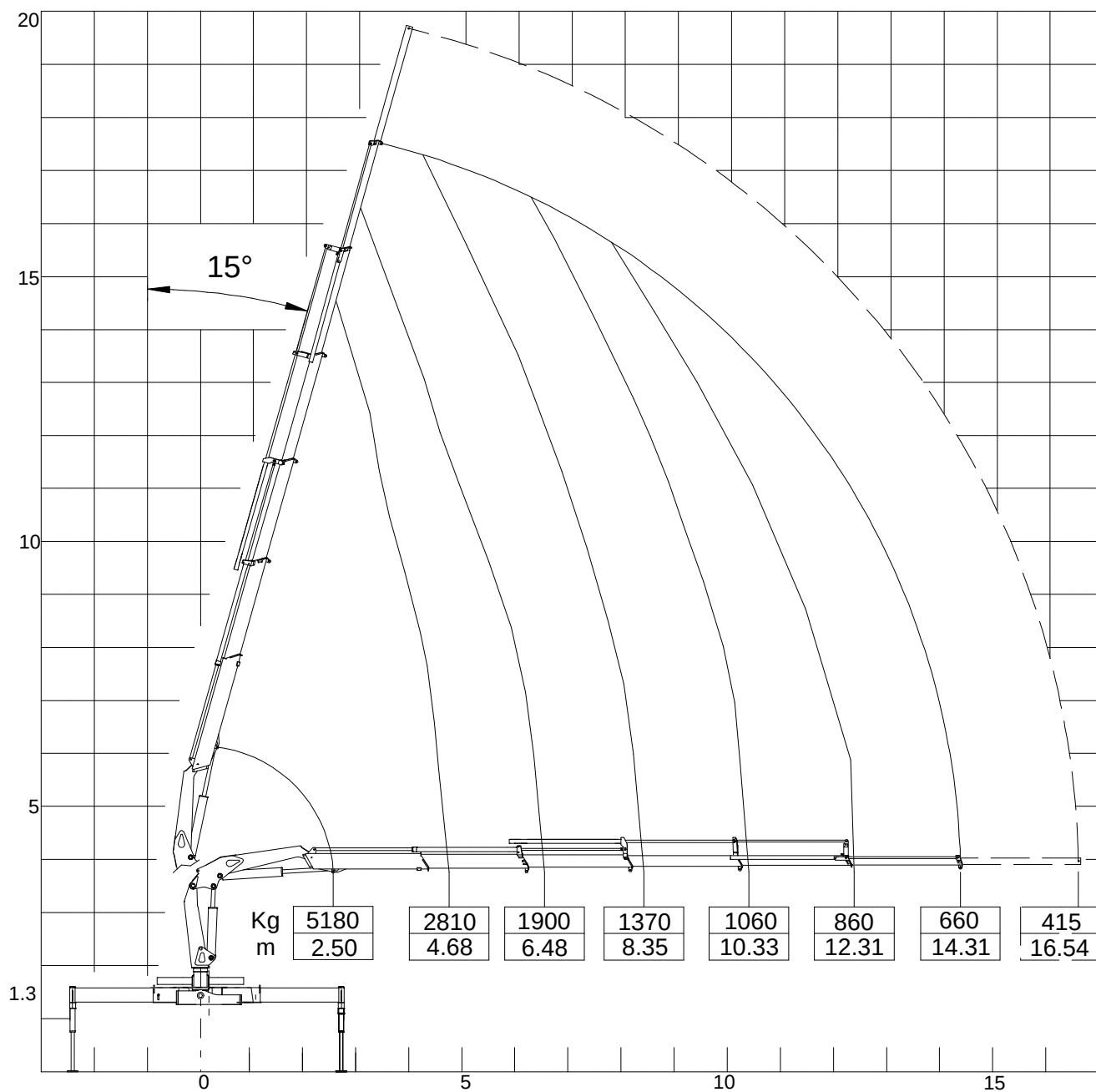
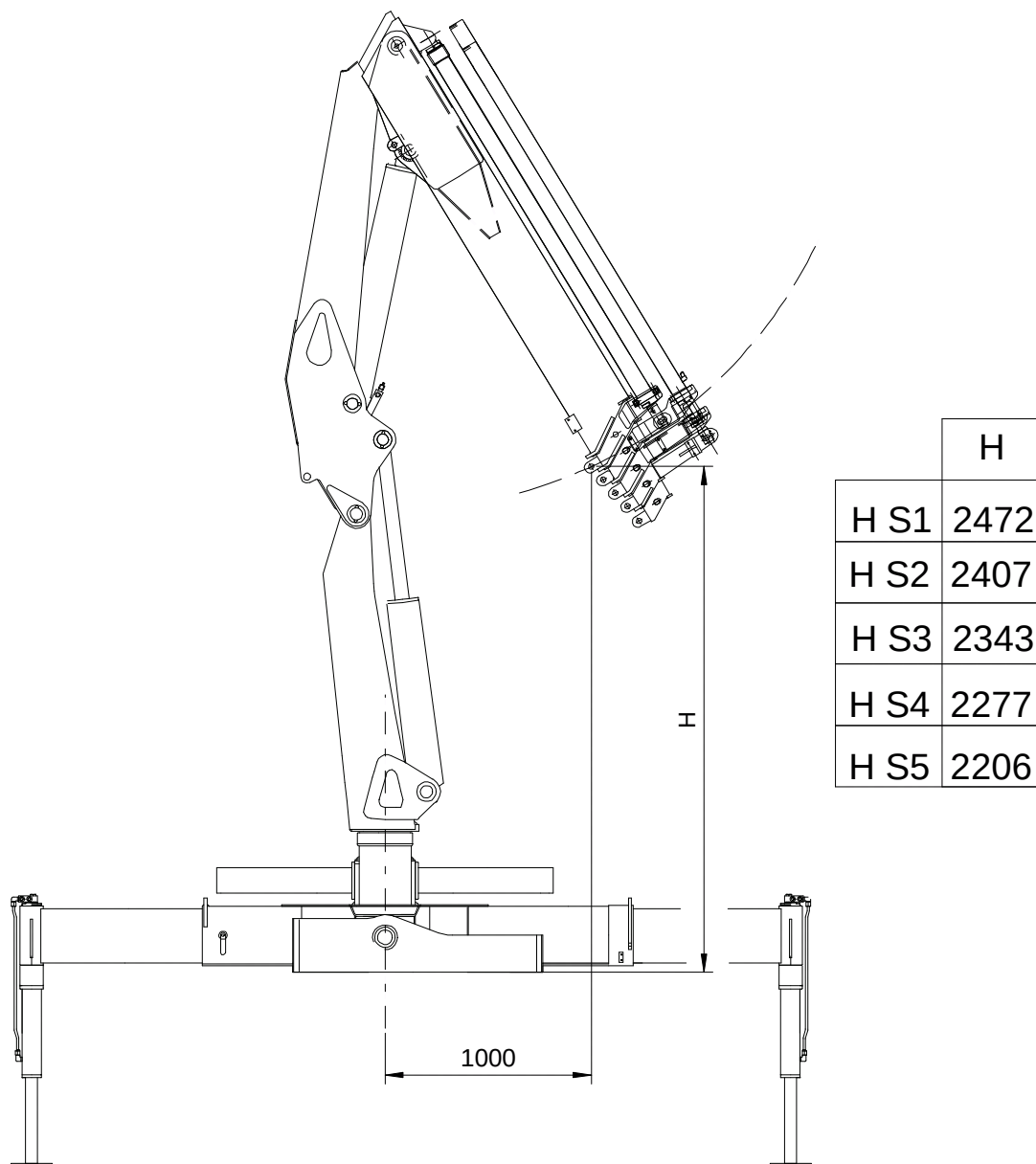
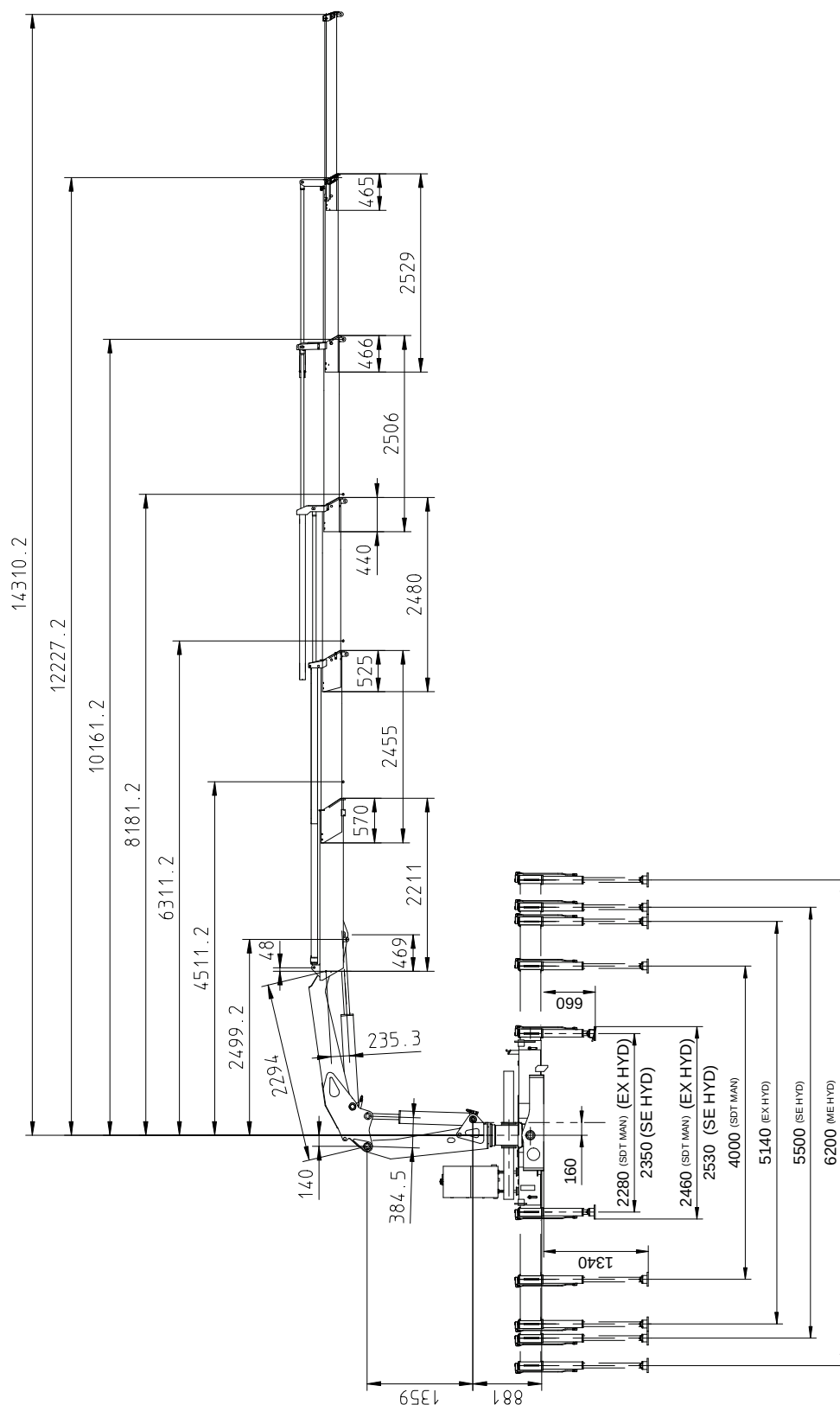


DIAGRAMMA PORTATE LOAD DIAGRAM 816N 5S



ALTEZZA ATTACCO GANCIO
HOOK HEIGHT

DIMENSIONI BASAMENTO – COLONNA – BRACCI BASE – COLUMN – BOOM DIMENSIONS



DIMENSIONALE CILINDRI E PERNI CYLINDERS AND PINS DIMENSIONS

CILINDRO DI SOLLEVAMENTO LIFTING CYLINDER

Alesaggio - Cylinder bore	140
Diametro esterno - Cyl. ext. diameter	160
Diametro stelo - Rod diameter	70 - 0
Interasse aperto - Pitch (open)	1743
Interasse chiuso - Pitch (closed)	1023
Corsa - Stroke	720
Ø perni articolazione - Artic. pin Ø	55
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO DI ARTICOLAZIONE ARTICULATION CYLINDER

Alesaggio - Cylinder bore	140
Diametro esterno - Cyl. ext. diameter	160
Diametro stelo - Rod diameter	70 - 0
Interasse aperto - Pitch (open)	2195
Interasse chiuso - Pitch (closed)	1249
Corsa - Stroke	946
Ø perno fissaggio - Fixing pin Ø	55
Mat. perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 1° SFILO 1ST EXTENSION CYL.

Alesaggio - Cylinder bore	70
Diametro esterno - Cyl. ext. diameter	80
Diametro stelo - Rod diameter	50 - 0
Interasse aperto - Pitch (open)	3849
Interasse chiuso - Pitch (closed)	2049
Corsa - Stroke	1800
Ø perni articolazione - Artic. pin Ø	25
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 2° SFILO 2ND EXTENSION CYL.

Alesaggio - Cylinder bore	70
Diametro esterno - Cyl. ext. diameter	80
Diametro stelo - Rod diameter	45 - 30
Interasse aperto - Pitch (open)	2010
Interasse chiuso - Pitch (closed)	140
Corsa - Stroke	1870
Ø perno fissaggio - Fixing pin Ø	25
Mat. perno/i - Pin steel	C40 NORM.

CILINDRO 3° SFILO 3RD EXTENSION CYL.

Alesaggio - Cylinder bore	65
Diametro esterno - Cyl. ext. diameter	75
Diametro stelo - Rod diameter	40 - 25
Interasse aperto - Pitch (open)	2120
Interasse chiuso - Pitch (closed)	140
Corsa - Stroke	1980
Ø perni articolazione - Artic. pin Ø	25
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 4° SFILO 4TH EXTENSION CYL.

Alesaggio - Cylinder bore	65
Diametro esterno - Cyl. ext. diameter	75
Diametro stelo - Rod diameter	40 - 0
Interasse aperto - Pitch (open)	2120
Interasse chiuso - Pitch (closed)	140
Corsa - Stroke	1980
Ø perno fissaggio - Fixing pin Ø	25
Mat. perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 5° SFILO 5TH EXTENSION CYL.

Alesaggio - Cylinder bore	60
Diametro esterno - Cyl. ext. diameter	70
Diametro stelo - Rod diameter	40 - 0
Interasse aperto - Pitch (open)	2100
Interasse chiuso - Pitch (closed)	140
Corsa - Stroke	2000
Ø perni articolazione - Artic. pin Ø	25
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO DI ROTAZIONE ROTATION CYLINDER

Alesaggio - Cylinder bore	110
Diametro esterno - Cyl. ext. diameter	125
Diametro stelo - Rod diameter	-
Interasse aperto - Pitch (open)	-
Interasse chiuso - Pitch (closed)	-
Corsa - Stroke	636
Ø perno fissaggio - Fixing pin Ø	-
Mat. perno/i - Pin steel	-

DIMENSIONALE CILINDRI E PERNI JIB

JIB CYLINDERS AND PINS DIMENSIONS

CILINDRO ARTICOLAZIONE JIB JIB ARTICULATION CYLINDER

Alesaggio - <i>Cylinder bore</i>	80
Diametro esterno - <i>Cyl. ext. diameter</i>	90
Diametro stelo - <i>Rod diameter</i>	50 - 0
Interasse aperto - <i>Pitch (open)</i>	1427
Interasse chiuso - <i>Pitch (closed)</i>	842
Corsa - <i>Stroke</i>	585
Ø perno fissaggio - <i>Fixing pin Ø</i>	45 - 30
Mat. perno/i - <i>Pin steel</i>	39NiCrMo3 BNF

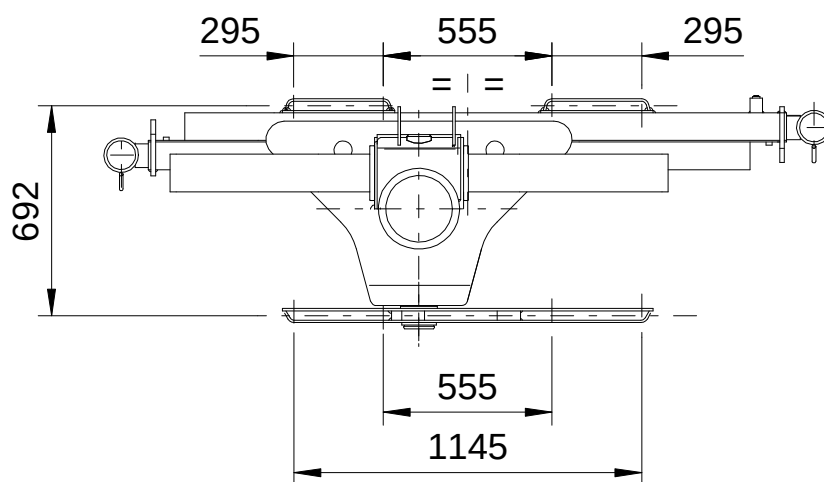
CILINDRO 1° SFILO JIB 1ST EXTENSION CYL. OF JIB

Alesaggio - <i>Cylinder bore</i>	55
Diametro esterno - <i>Cyl. ext. diameter</i>	65
Diametro stelo - <i>Rod diameter</i>	40 - 0
Interasse aperto - <i>Pitch (open)</i>	2997
Interasse chiuso - <i>Pitch (closed)</i>	1617
Corsa - <i>Stroke</i>	1380
Ø perni articolazione - <i>Artic. pin Ø</i>	30
Materiale perno/i - <i>Pin steel</i>	C40 NORM.

Alesaggio - <i>Cylinder bore</i>	50
Diametro esterno - <i>Cyl. ext. diameter</i>	60
Diametro stelo - <i>Rod diameter</i>	30 - 0
Interasse aperto - <i>Pitch (open)</i>	1568
Interasse chiuso - <i>Pitch (closed)</i>	88
Corsa - <i>Stroke</i>	1480
Ø perno fissaggio - <i>Fixing pin Ø</i>	20
Mat. perno/i - <i>Pin steel</i>	39NiCrMo3 BNF

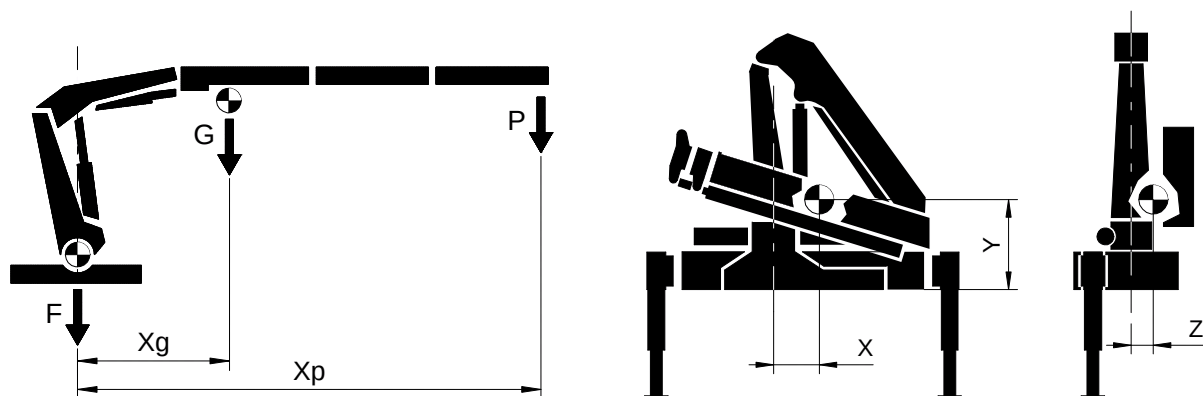
TIRANTI DI STAFFAGGIO E VITI ROTAZIONE

TIE MOUNTING RODS & ROTATION SCREWS



Tiranti di staffaggio Tie mounting rods	N°8 M24x2 39NiCrMo3 BNF
Viti fissaggio 1 canna di rotazione Fixing bolts for 1 rotation cylinder	N°8 M14x35 8.8 UNI 5931 Coppia di serraggio (Tightening torque) 80 Nm

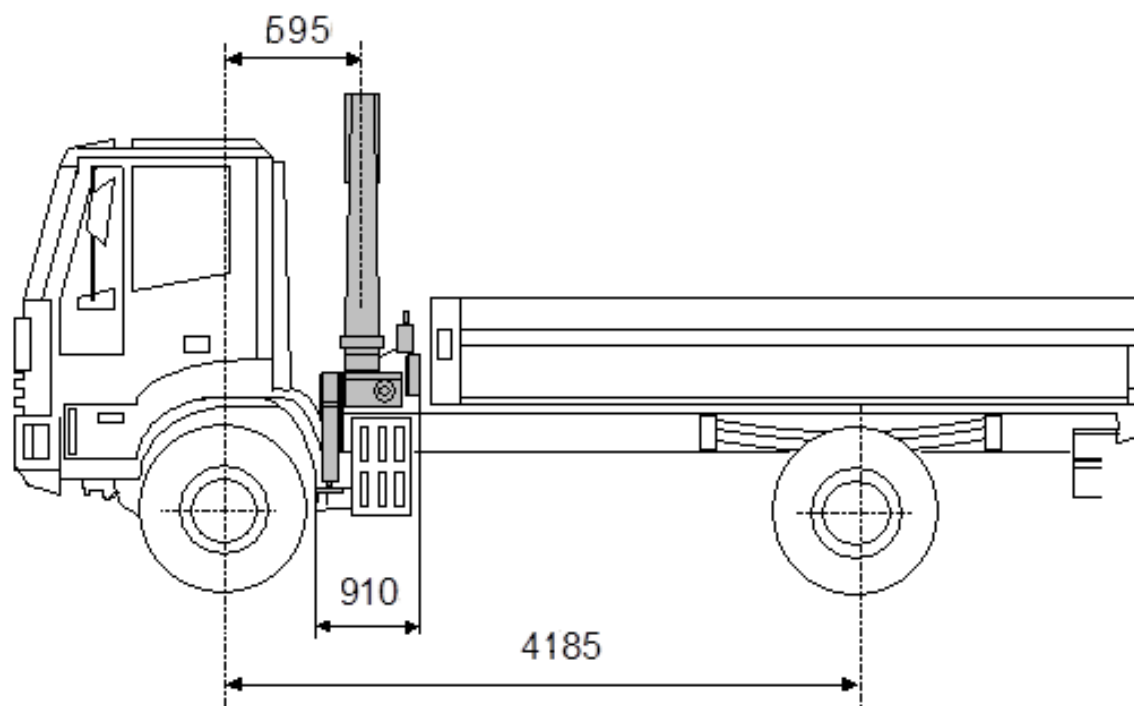
PESI – BARICENTRI
WEIGHTS – CENTER OF GRAVITY
816N



816N	F [kg]	G [kg]	Xg [m]	P [kg]	Xp [m]	TL [kg]	(X,Y,Z) mm
1S 	Std. man.: 1100 kg Extra hydr.: 1200 kg SE hydr.: 1210 kg ME hydr.: 1315 kg	570	2.57	2240	6.14	2800	(145,755,0)
2S 		700	3.34	1600	8.10	2000	(140,770,25)
3S 		820	4.11	1180	10.16	1482	(135,785,40)
4S 		920	4.82	880	12.23	1129	(125,800,55)
5S 		1000	5.25	610	14.31	805	(120,816N,65)

F = peso parti fisse
 G = peso bracci a sbalzo
 Xg = distanza di G da asse colonna
 P = carico nominale
 Xp = distanza di P da asse colonna
 TL = carico per prova di stabilità
 X, Y, Z = coordinate baricentro (gru chiusa)

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)

AUTOCARRO MINIMO SENZA STABILIZZATORI SUPPLEMENTARI
MIN TRUCK WITHOUT SUPPLEMENTARY STABILIZERS**PTT (GVW) = 150 q****DATI AUTOCARRO A VUOTO****Asse anteriore**

Tara asse anteriore = 3110 kg

Tara ammissibile asse anteriore = 5300 kg

Asse posteriore

Tara asse posteriore = 1657 kg

PESI ALLESTIMENTO

Peso cassone = 450 kg

Peso gru = 2345 kg (816N 5S ME)

Peso controtelaio = 265 kg

CHASSIS DATA**Front axle**

Front axle tare weight = 3110 kg

Allowable front axle weight = 5300 kg

Rear axle

Rear axle tare weight = 1657 kg

OUTFIT WEIGHTS

Body weight = 450 kg

Crane weight = 2345 kg (816N 5S ME)

Counterframe weight = 265 kg

Coefficiente di stabilità = 1,42**Stability index = 1,42**

CONTROTELAIO MINIMO

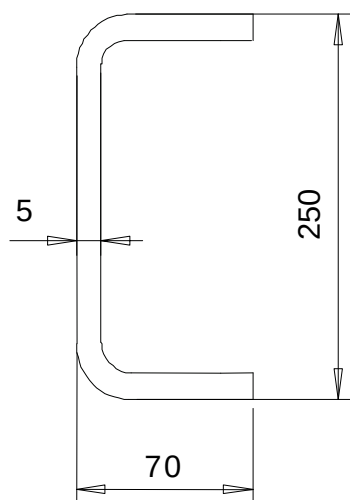
MIN COUNTERFRAME

Momento dinamico max (daNm)
Max dynamic moment

18110

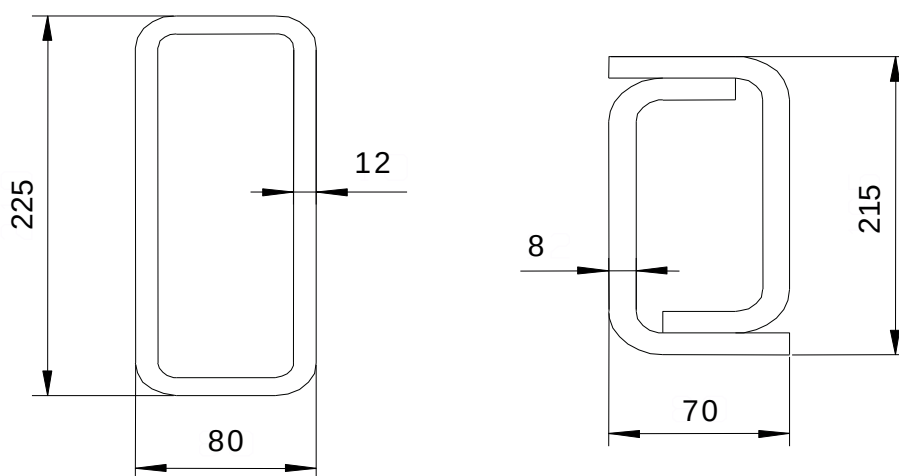
Sezione telaio minima (autocarro PTT=130 q) (materiale Fe510 - S355)

Min frame section (truck GVW 13 ton) (steel S355)



Sezione minima contro telaio (materiale Fe510 - S355)

Min counterframe section (steel S355)



816N**Crane – Kran
Grue – Grua - Gru****AMCO**  **VEBA**

CARATTERISTICHE VERRICELLO IDRAULICO

HYDRAULIC WINCH DATA

Max tiro diretto (kg) Max winch direct pull (kg)	1100 kg
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CARATTERISTICHE ACCESSORI BENNA-POLIPO

GRAB - BUCKET DATA

Peso massimo ammissibile Max allowable weight	420 kg
Pressione max. di esercizio Max working pressure	200 bar