

Crane - Kran
Grue - Grua - Gru



933 - 936

RACCOLTA TECNICA **TECHNICAL BOOK**



CARATTERISTICHE GENERALI TECHNICAL DATA

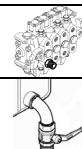
	933-936
Momento dinamico max (daNm) Max dynamic moment	38600

	Vers.	933	936
Portata max (kg) Max load	2S	11400	11700
	3S	11100	11400
	4S	10800	11100
	5S	10500	10800
	6S	10250	10550
	7S	10000	10300
	8S	9950	10250
	4SJ4	3000	3060
	5SJ4	2700	2760

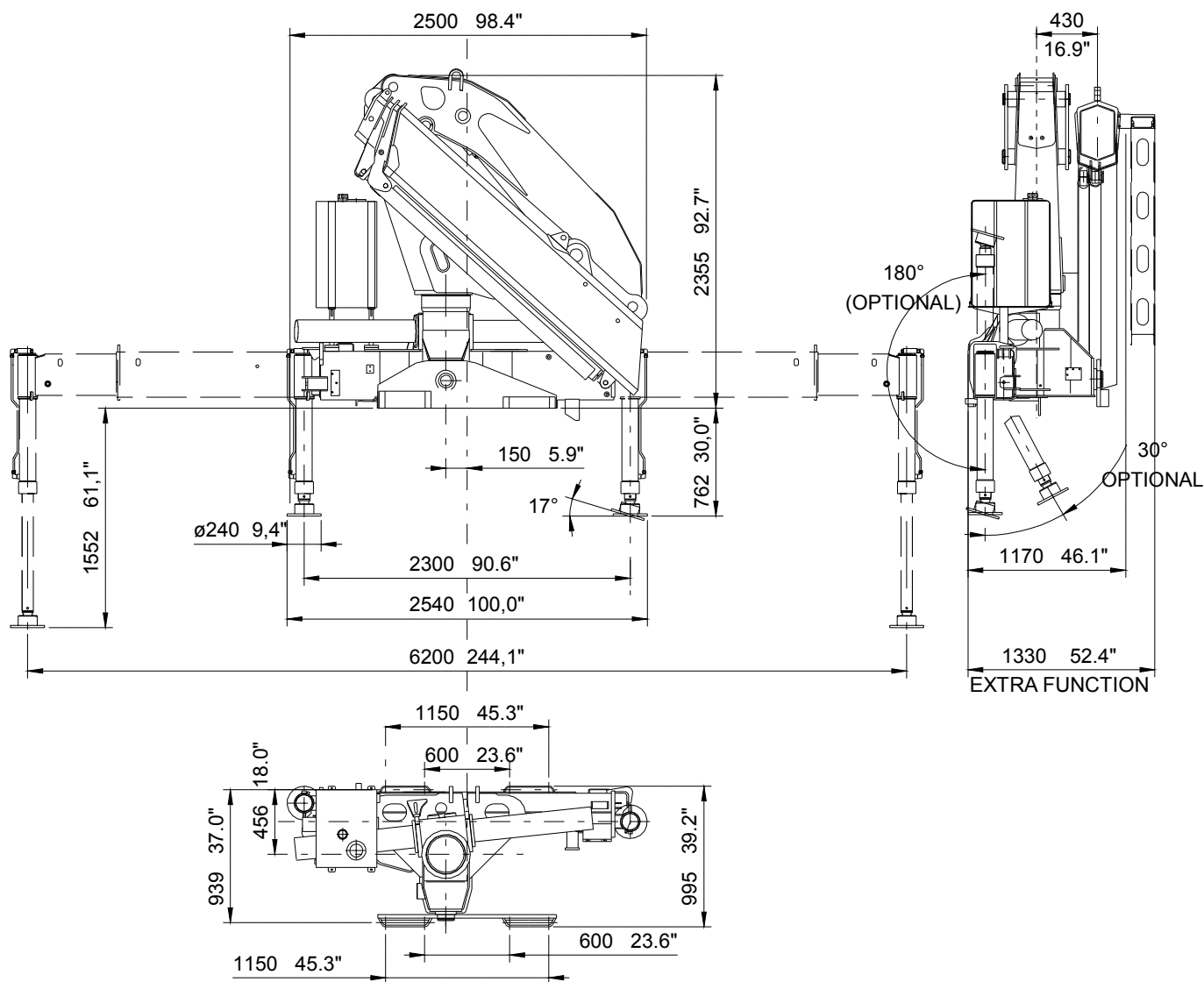
	Vers.	933-936
Massa in ordine di lavoro (kg) Crane weight	2S	3820
	3S	4040
	4S	4270
	5S	4440
	6S	4600
	7S	4720
	8S	4840
	4SJ4	5110
	5SJ4	5280

Reazione massima sullo stabilizzatore standard Max force on the standard stabilizer leg	13000 daN		
Carico massimo trasmesso al suolo da stabilizzatori standard Max standard stabilizer pressure on the ground	28.8 daN/cm ²		
Pressione massima di esercizio Max working pressure	933	300 bar	290 bar (JIB)
	936	310 bar	300 bar (JIB)
Portata massima di olio Max oil flow to main relief valve	45 l/min 60 / 80 l/min (RDC)		
Capacità serbatoio olio Oil tank capacity	160 l		
Angolo di rotazione Rotation angle	397°		
Coppia di rotazione Slewing moment	3695 daNm		
Potenza assorbita Absorbed power	933	29.3 kW	52.0 kW (RDC)
	936	30.2 kW	53.7 kW (RDC)
Normativa di calcolo Design standard	DIN 15018 EN 12999		

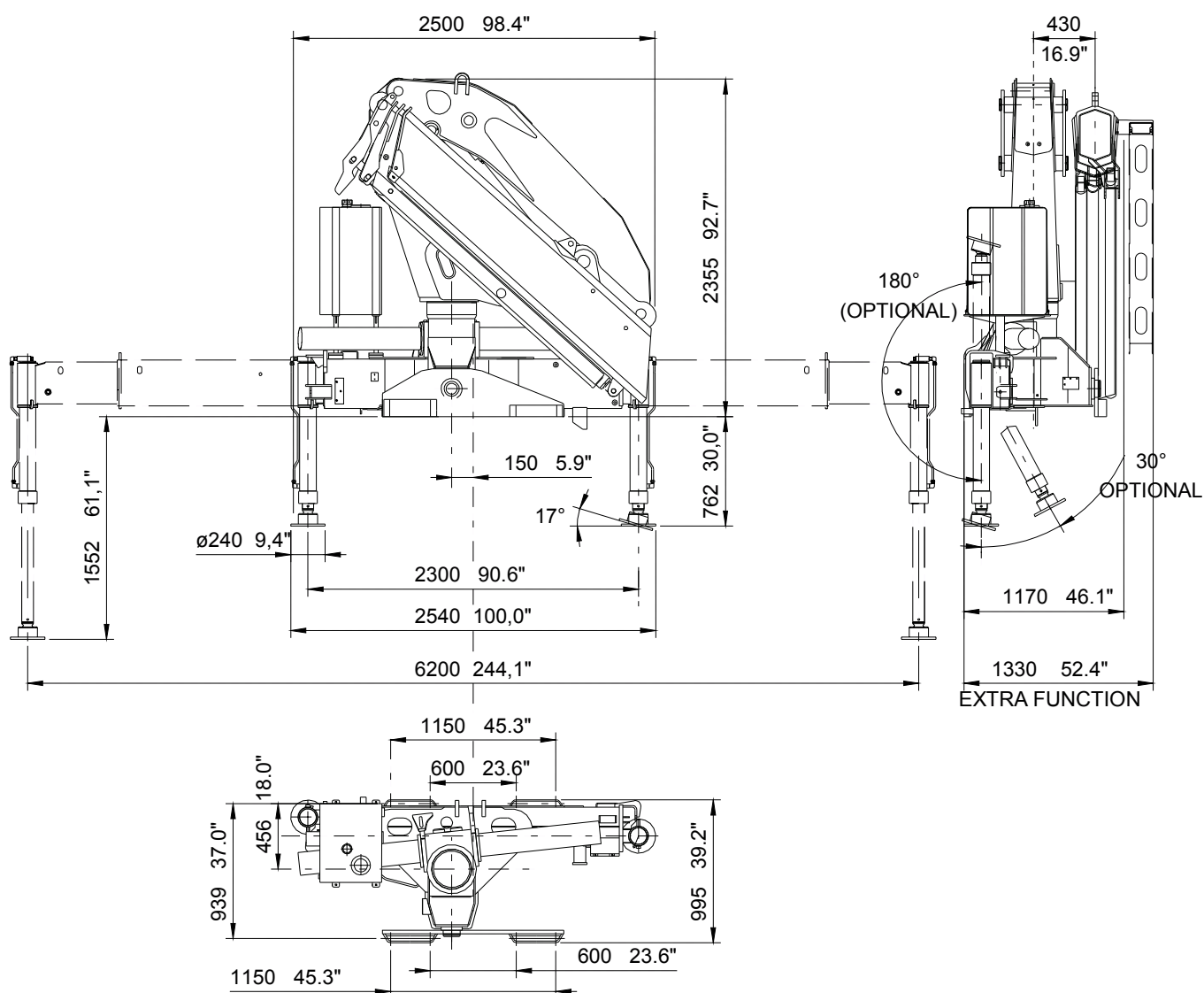
Raccordi di collegamento con pompa Fittings for connection with pump	NO RDC	RDC
Linea di pressione distributore Control valve pressure line	M 7/8" - 14 J	M 1" 1/16 J
Linea di aspirazione serbatoio Tank suction line	M 1" 1/2 G	M 1" 1/2 G



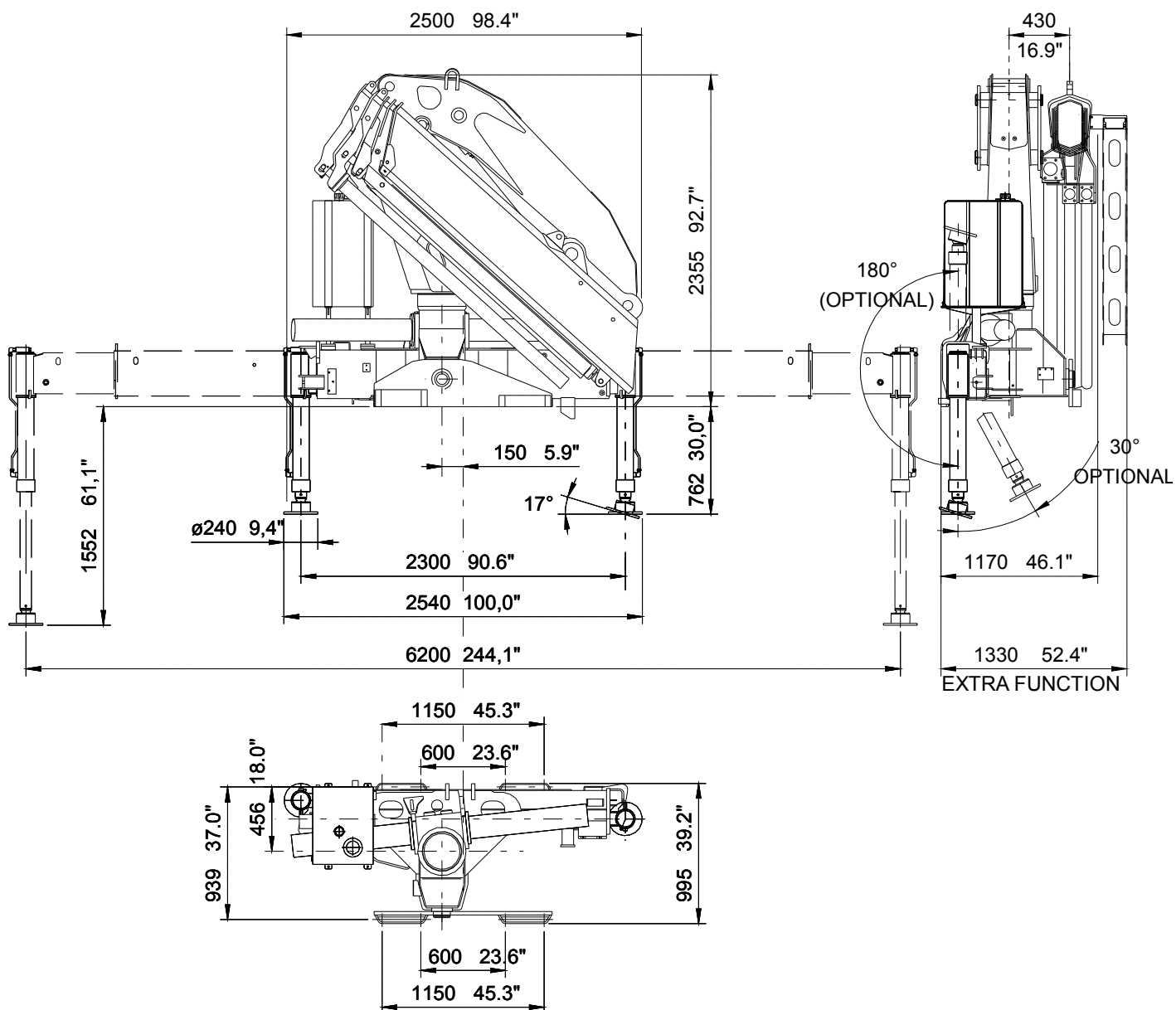
DIMENSIONI DI INGOMBRO
DIMENSIONS
2S



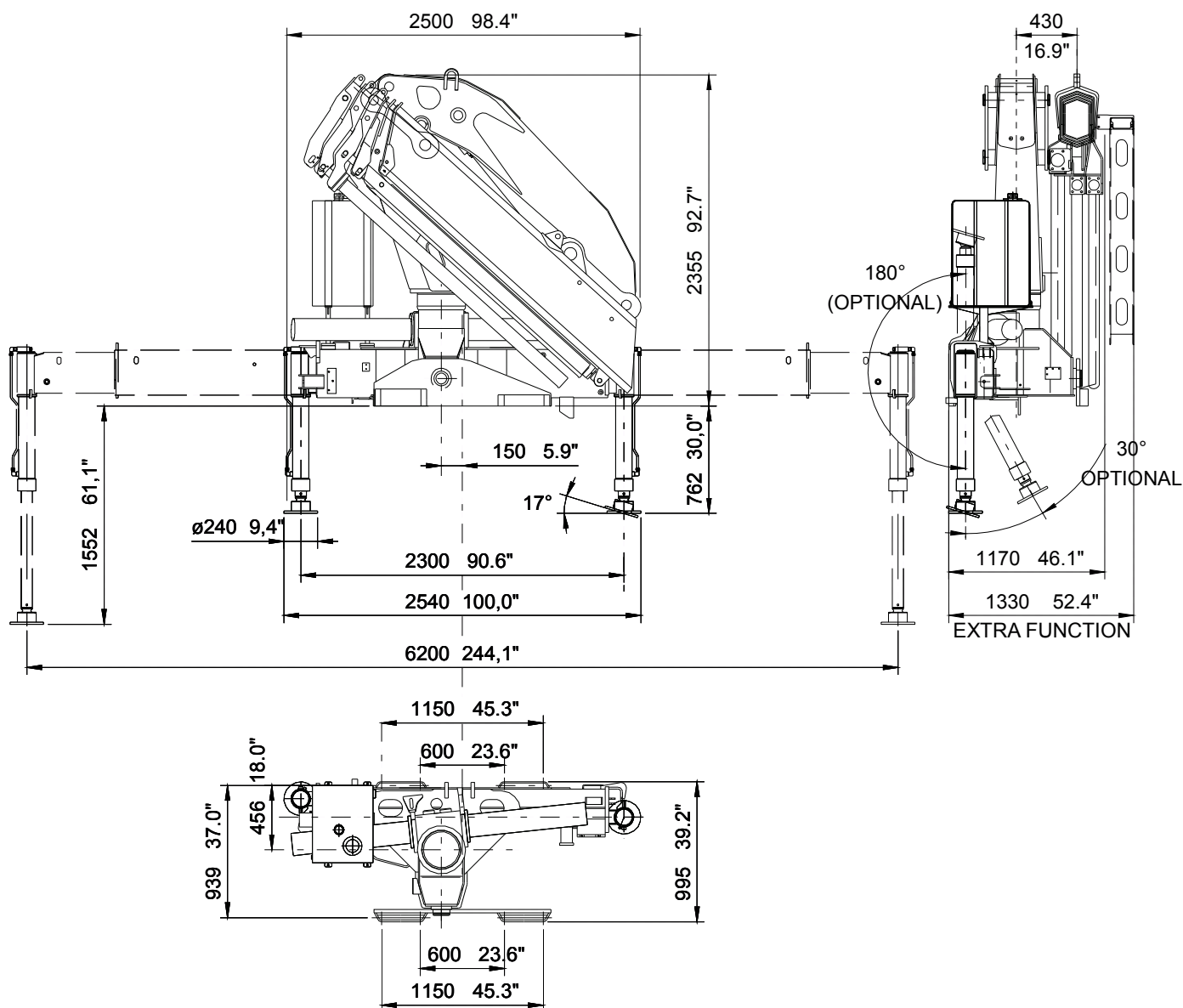
DIMENSIONI DI INGOMBRO DIMENSIONS 3S



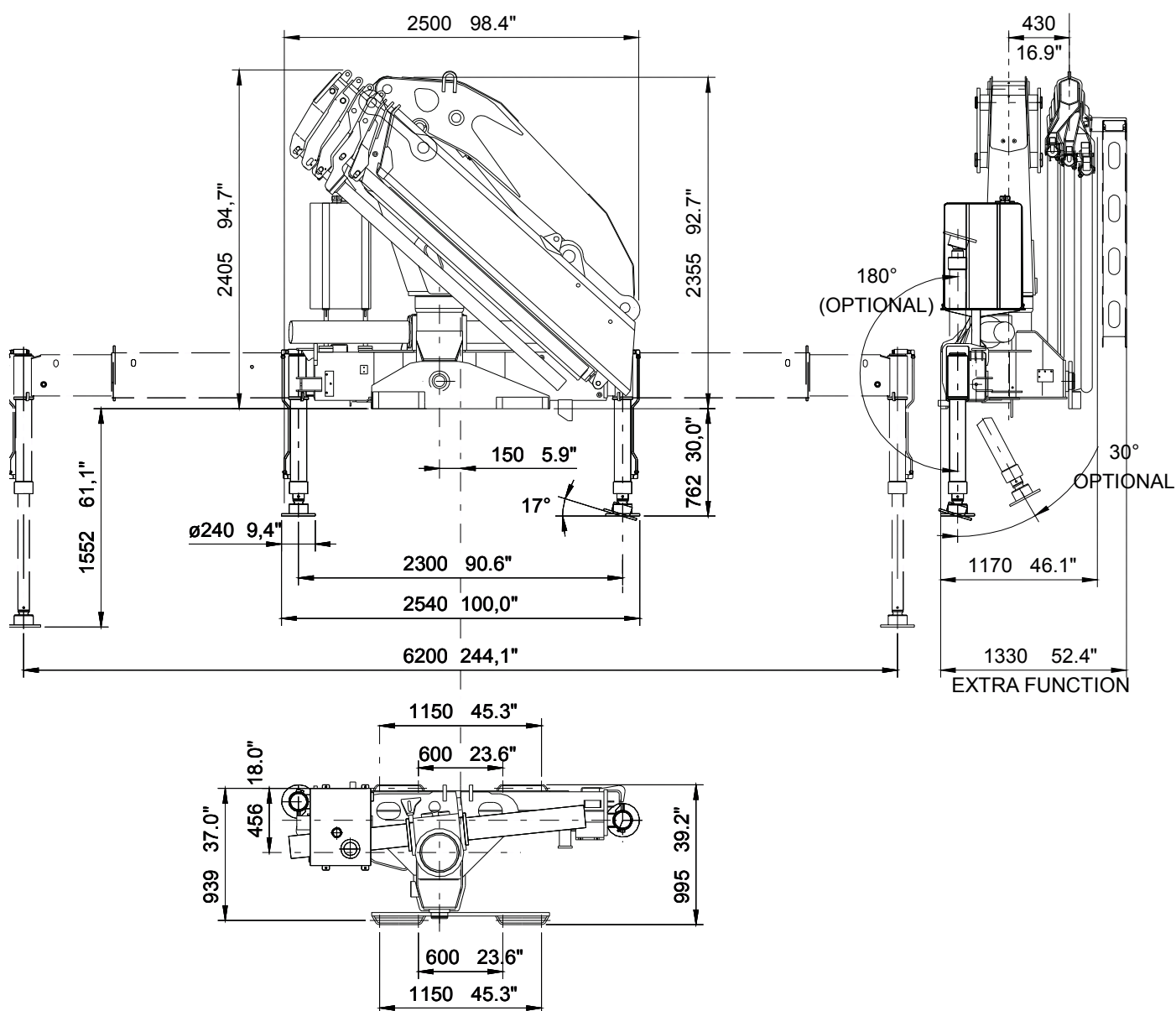
DIMENSIONI DI INGOMBRO
DIMENSIONS
4S



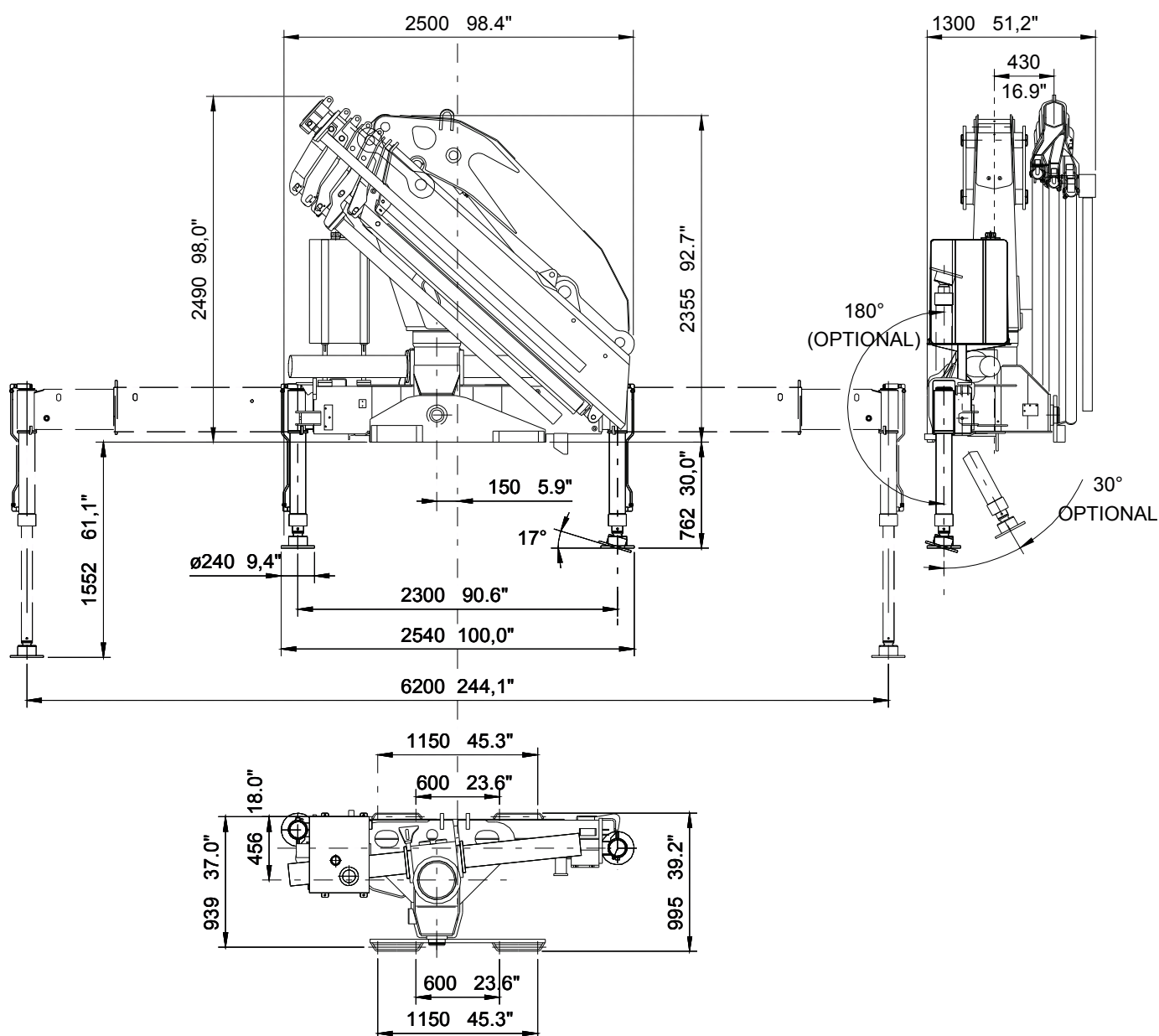
DIMENSIONI DI INGOMBRO DIMENSIONS 5S



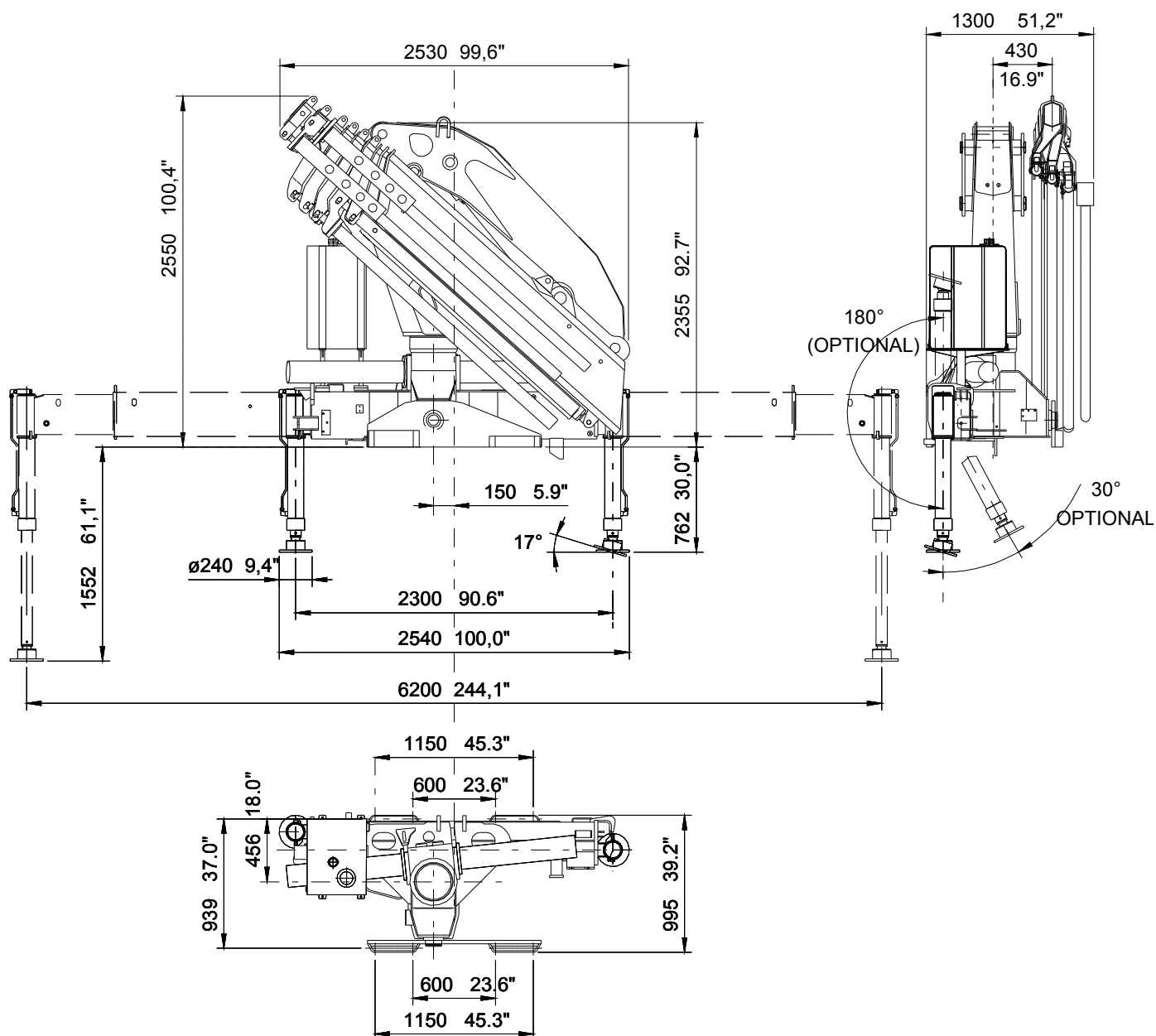
DIMENSIONI DI INGOMBRO DIMENSIONS 6S



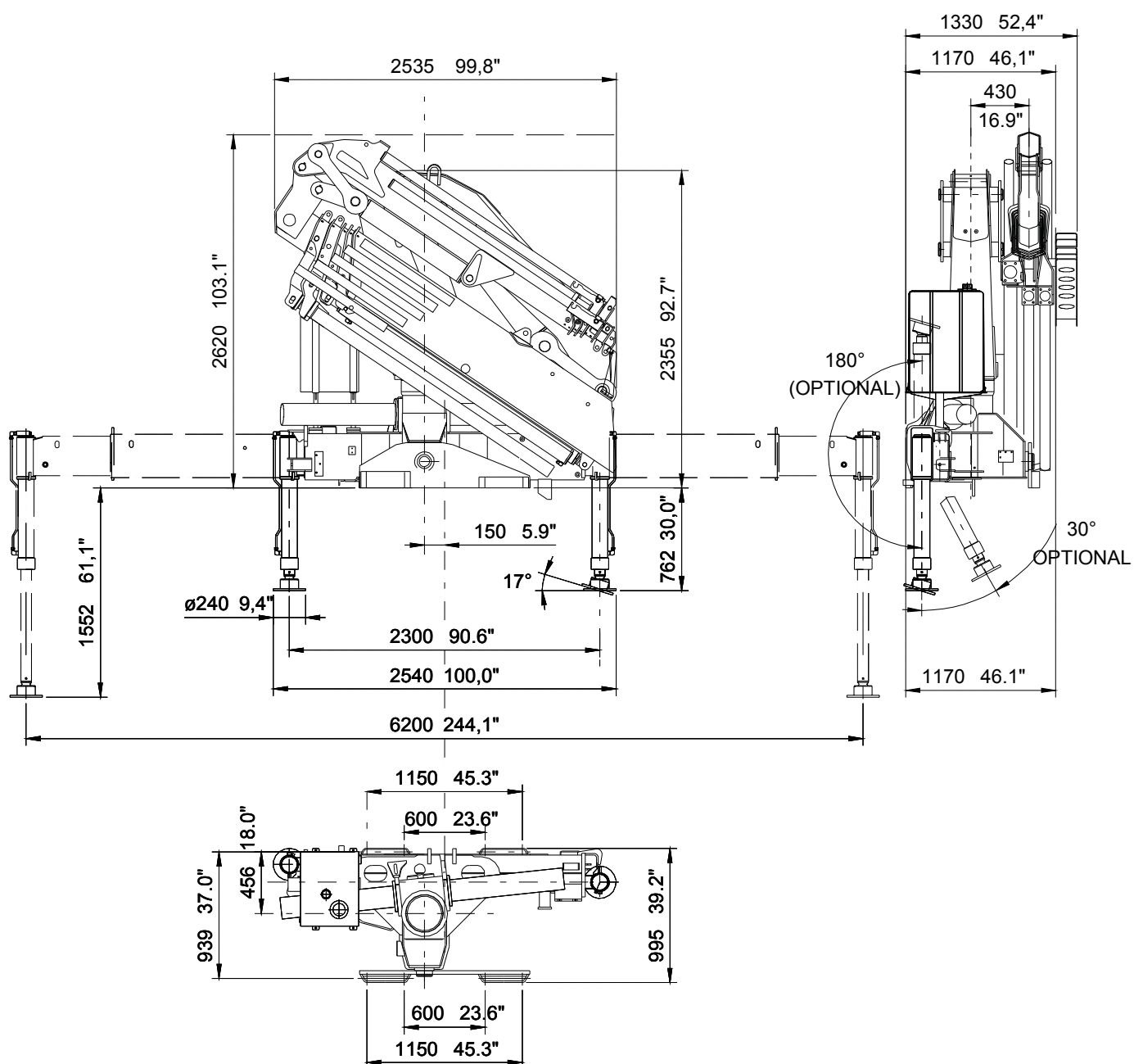
DIMENSIONI DI INGOMBRO DIMENSIONS 7S



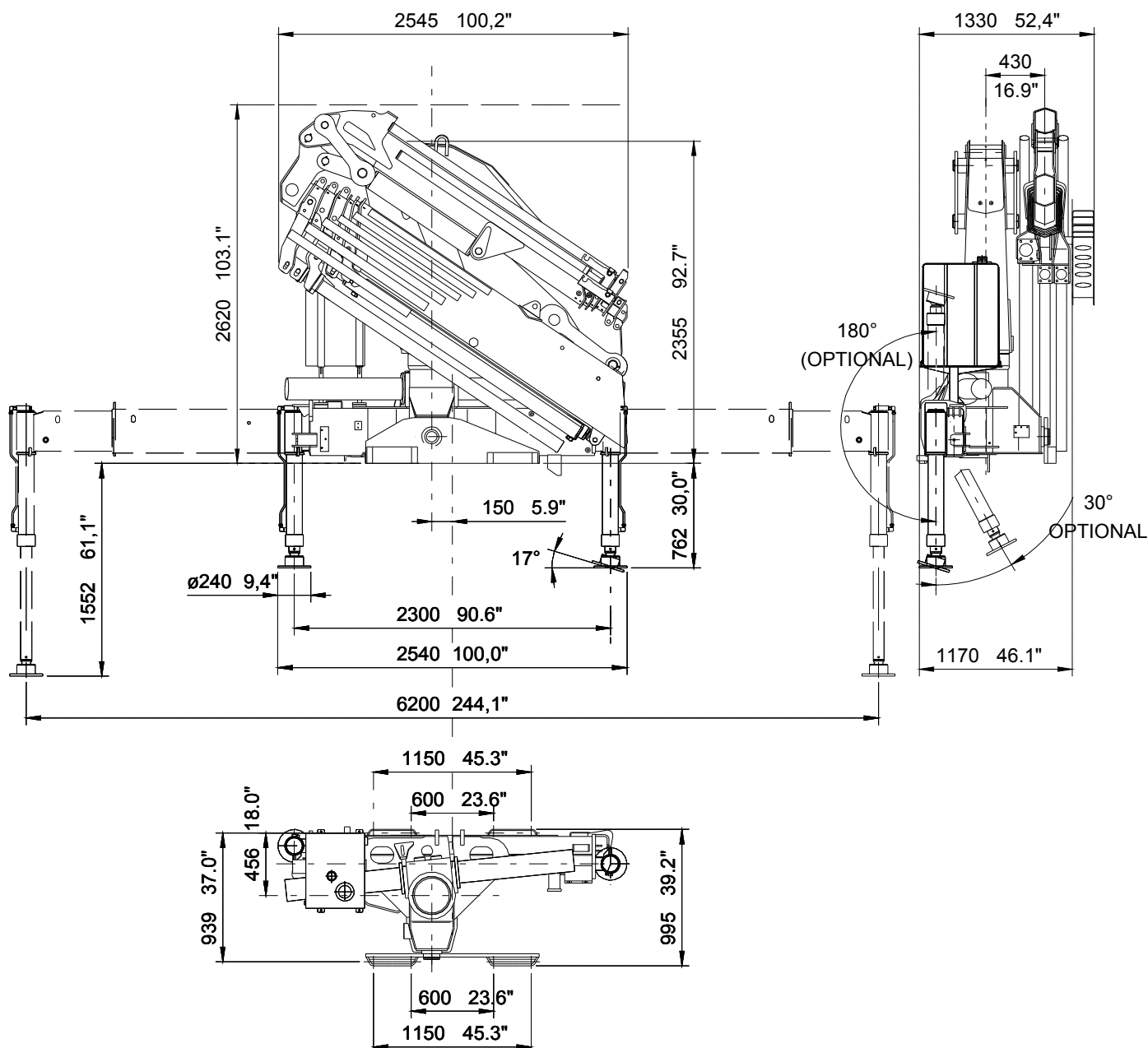
DIMENSIONI DI INGOMBRO DIMENSIONS 8S



DIMENSIONI DI INGOMBRO DIMENSIONS 4SJ4



DIMENSIONI DI INGOMBRO DIMENSIONS 5SJ4



933-936

Crane - Kran
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DIAGRAMMA PORTATE LOAD DIAGRAM 2S

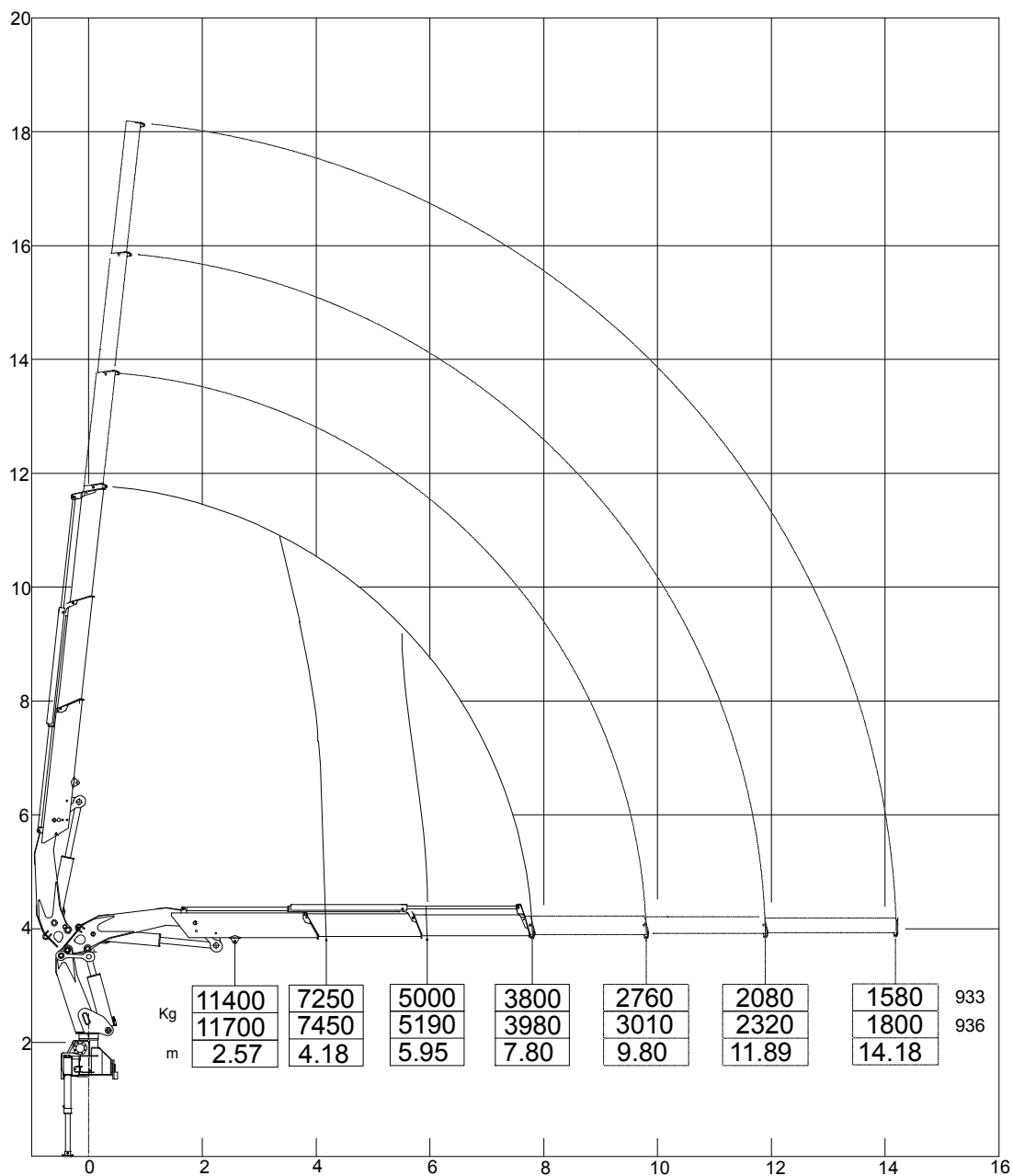


DIAGRAMMA PORTATE LOAD DIAGRAM 3S

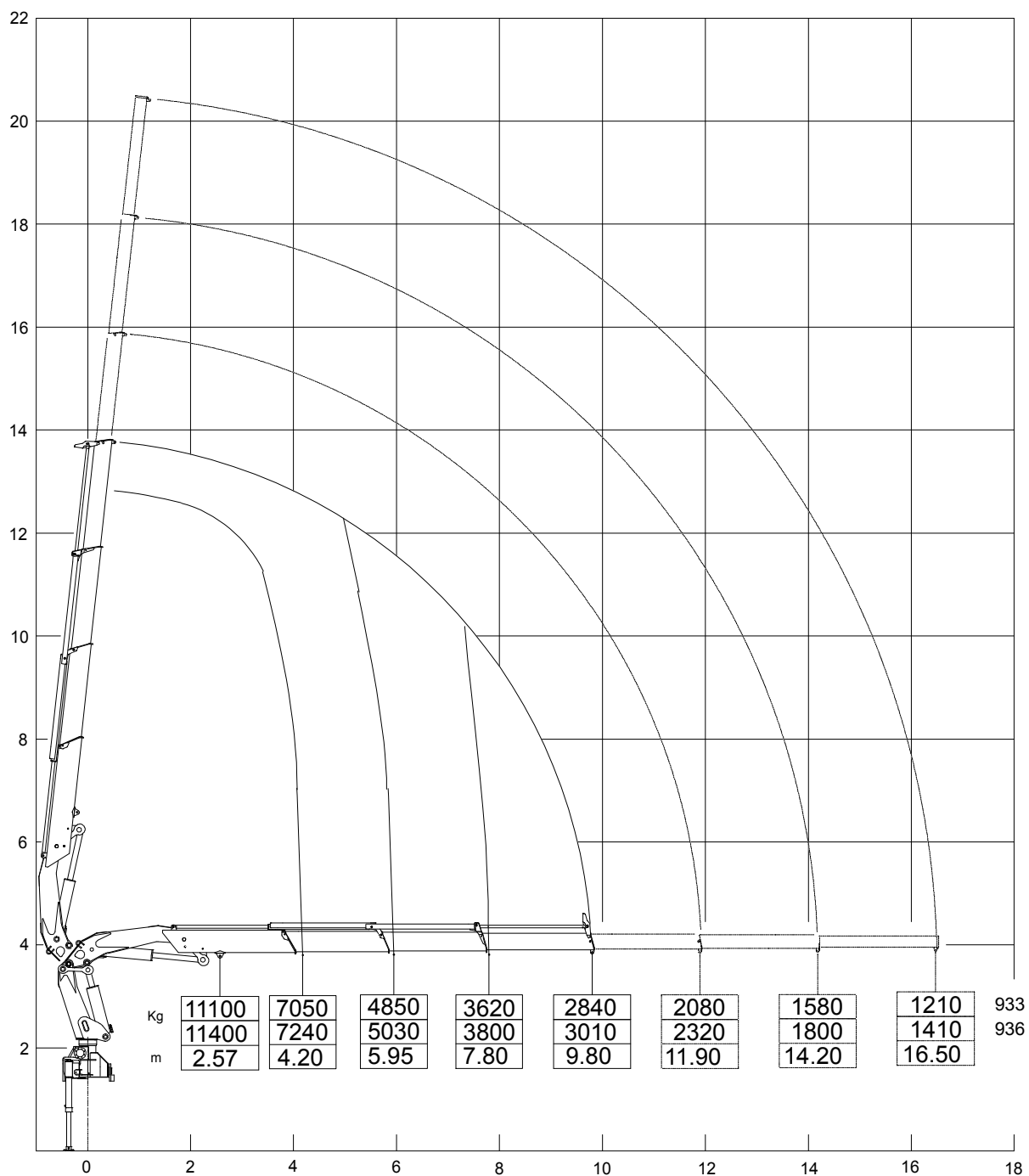
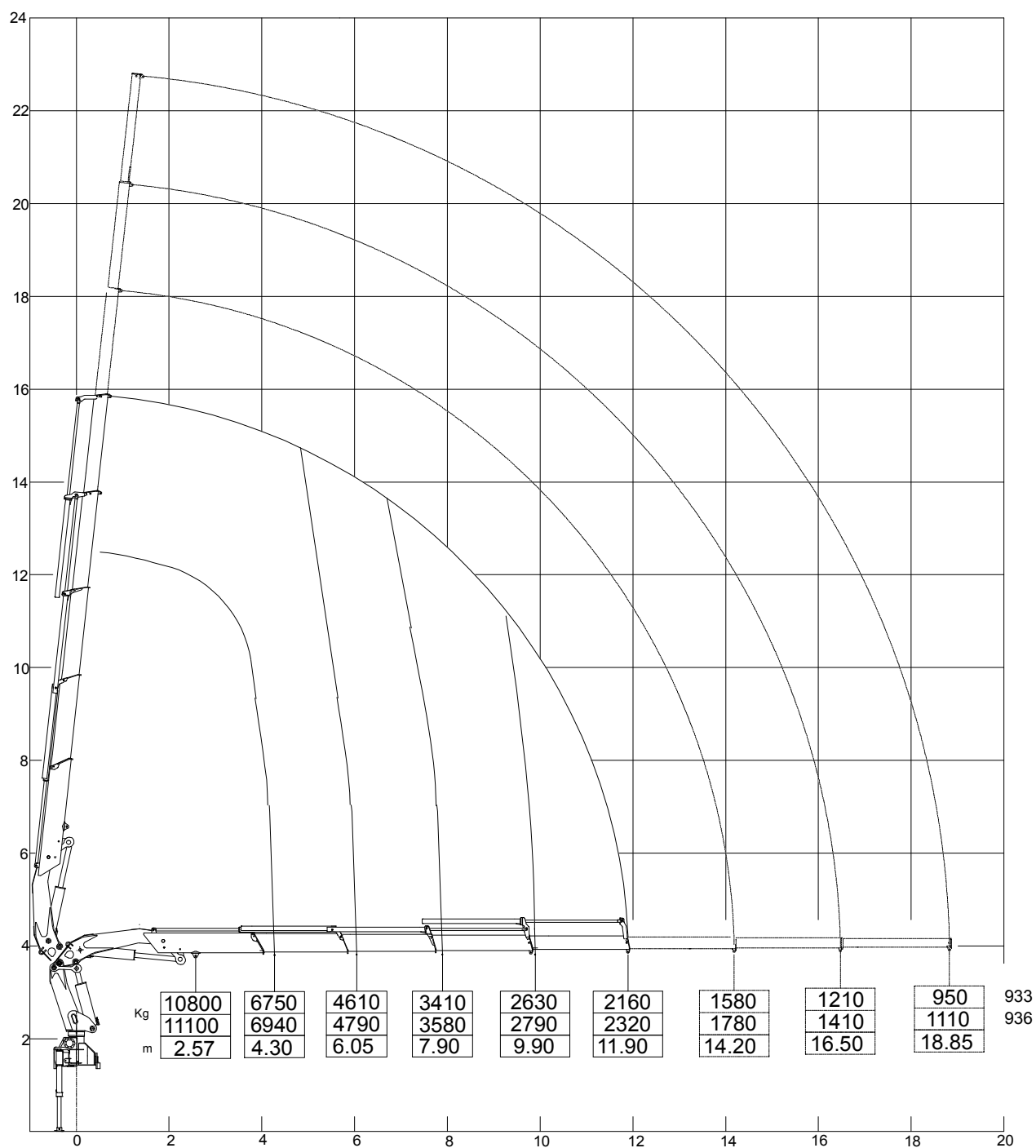


DIAGRAMMA PORTATE LOAD DIAGRAM 4S

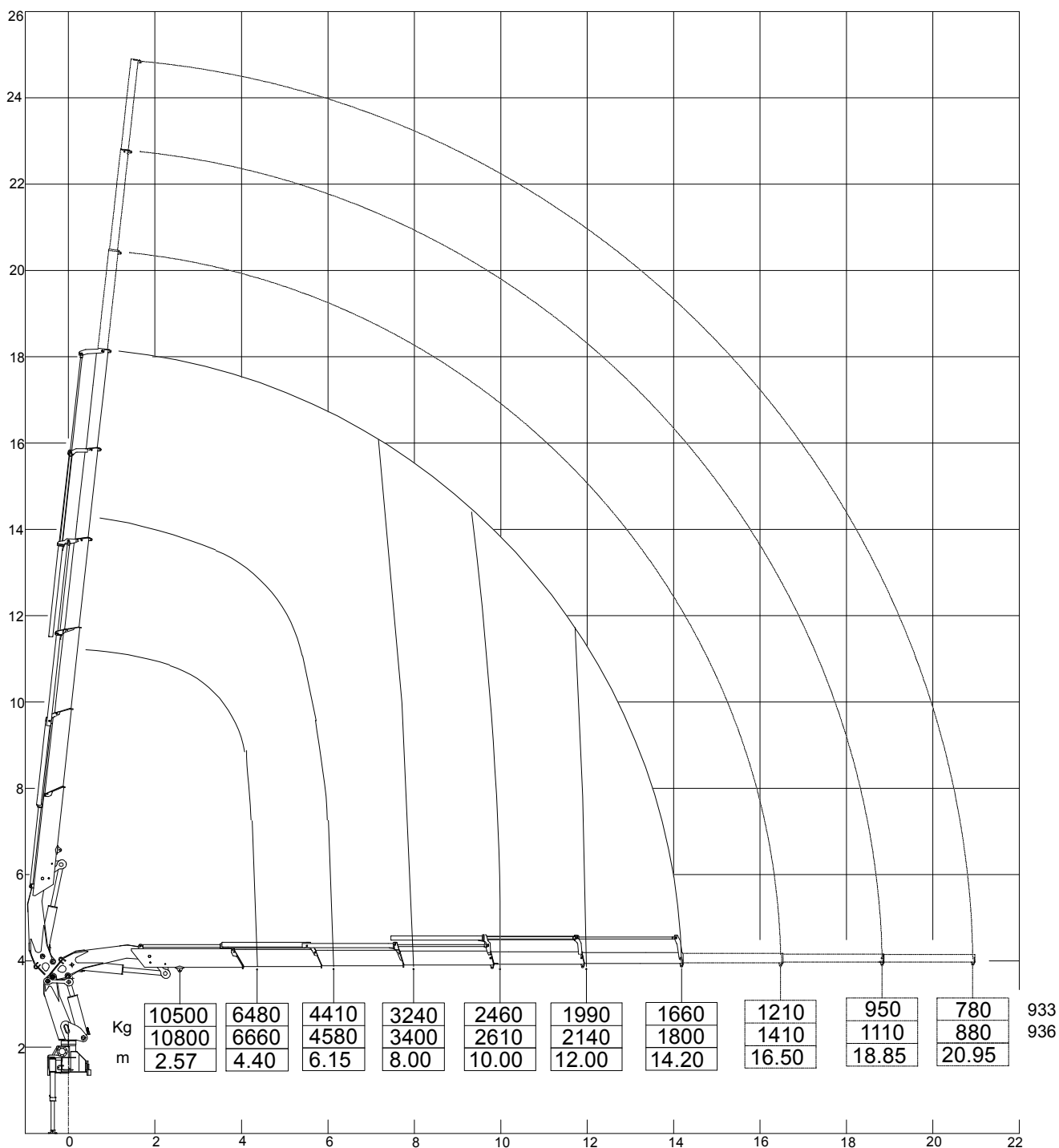


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DIAGRAMMA PORTATE LOAD DIAGRAM 5S

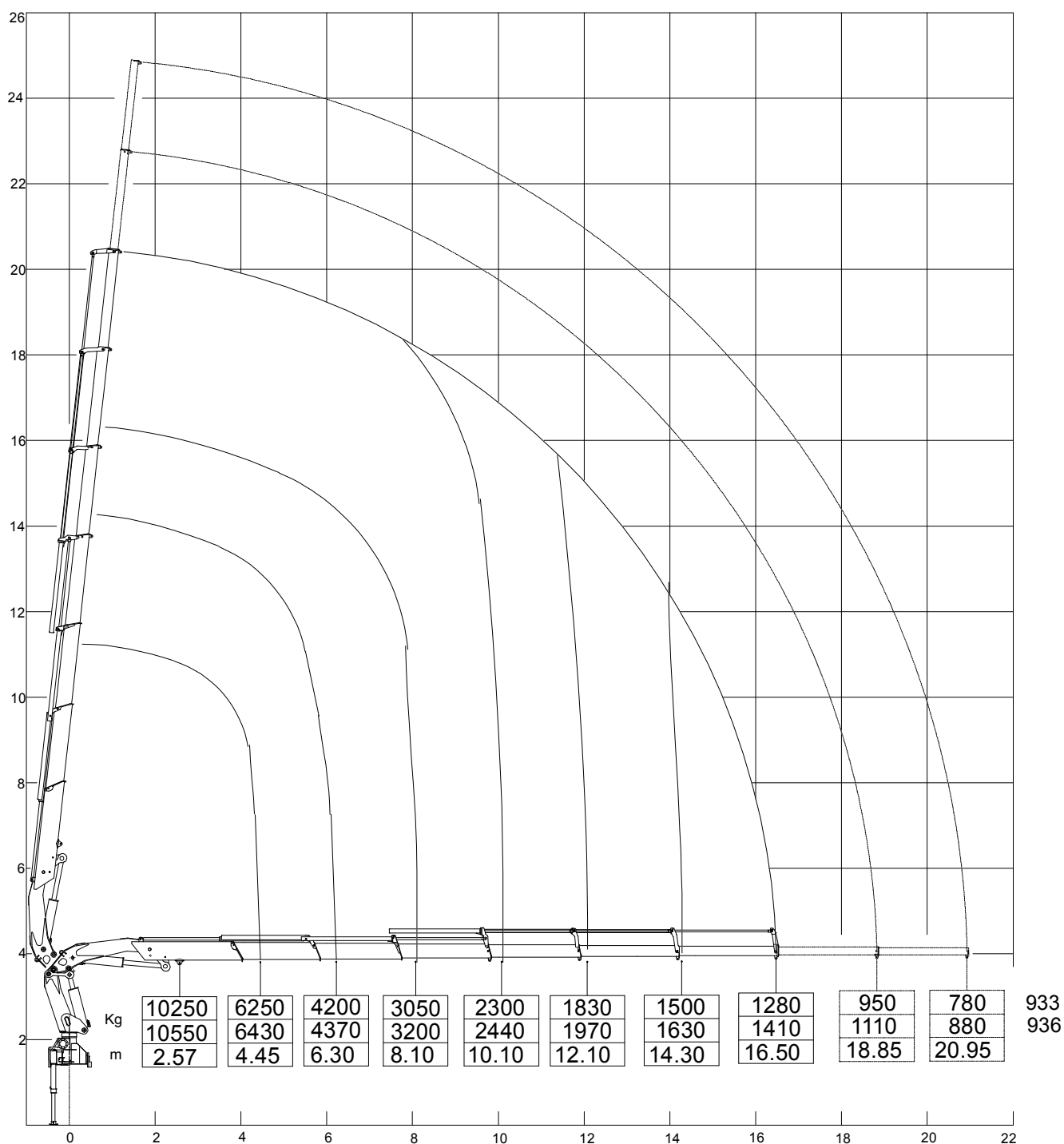


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DIAGRAMMA PORTATE LOAD DIAGRAM 6S

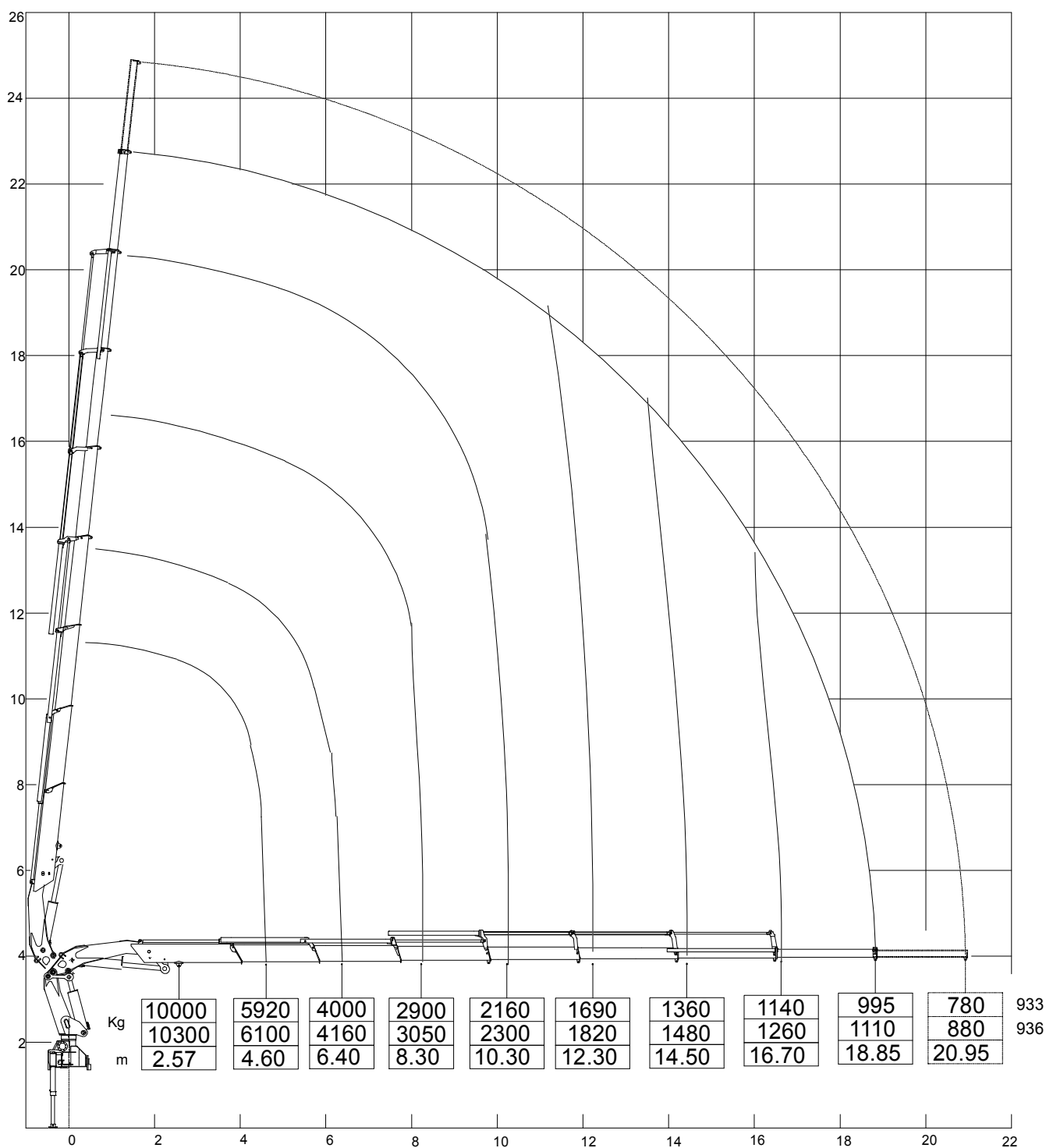


933-936

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DIAGRAMMA PORTATE LOAD DIAGRAM 7S



933-936

Crane - Kran
Grue - Grua - Gru



DIAGRAMMA PORTATE LOAD DIAGRAM 8S

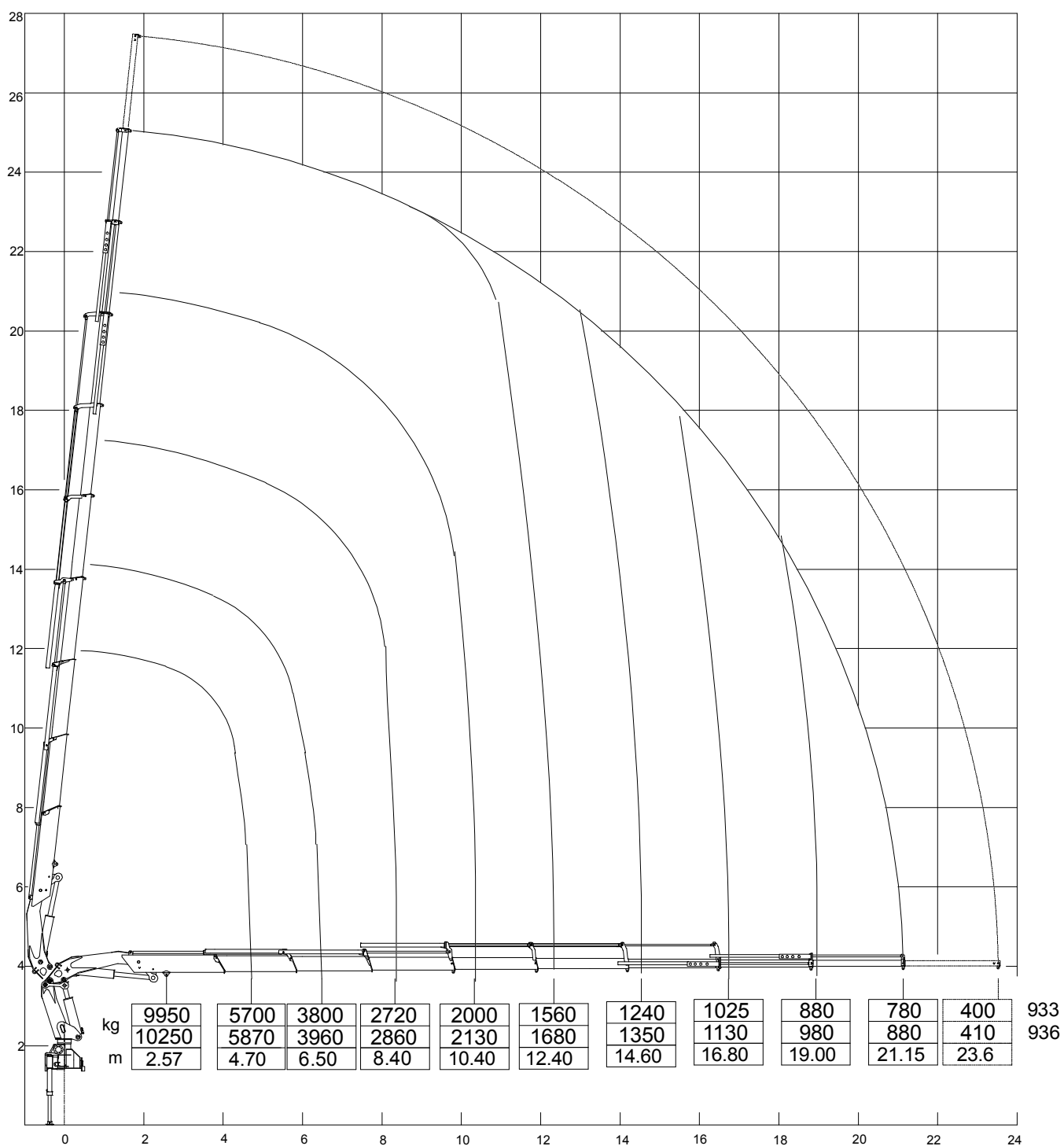
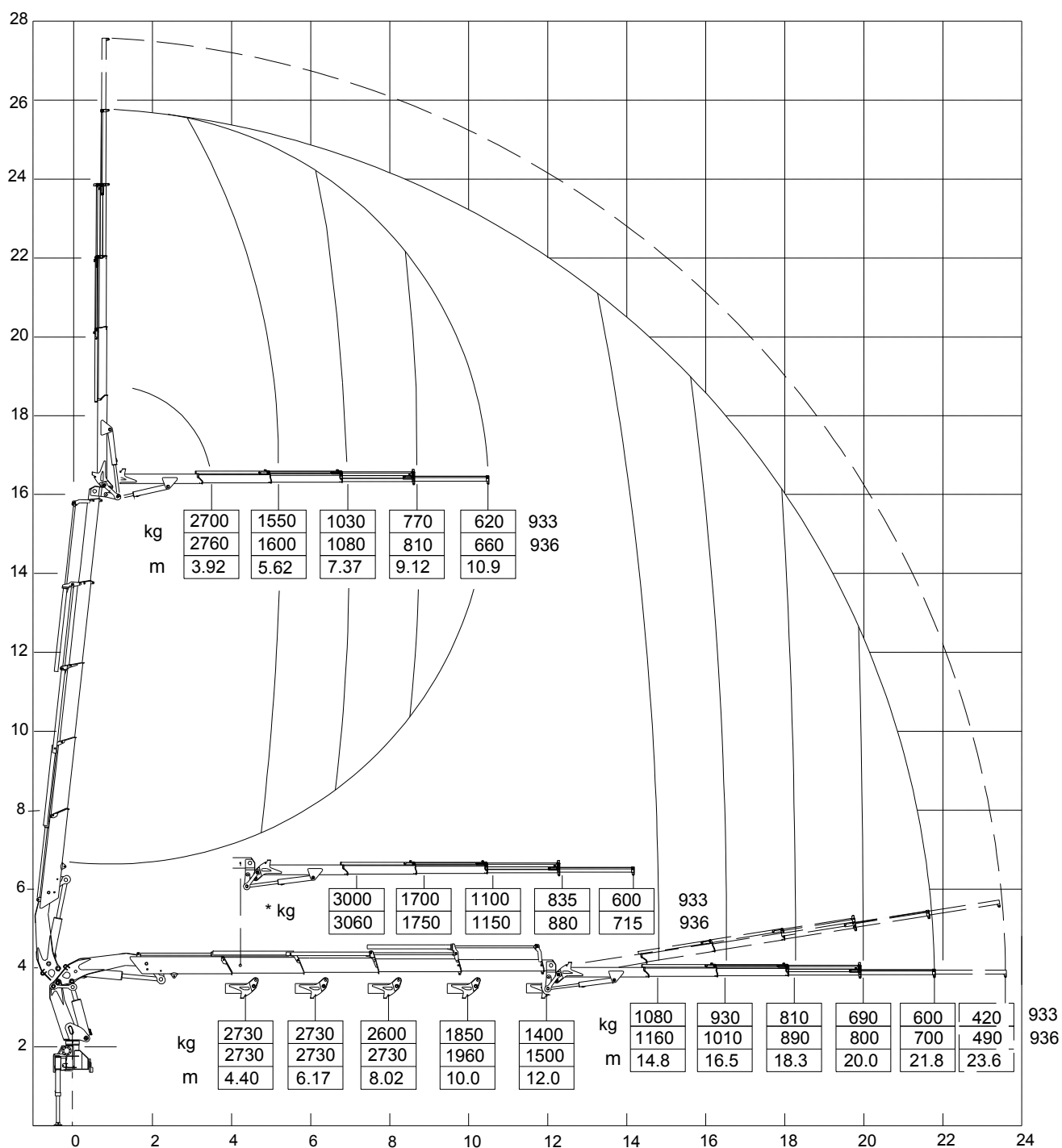
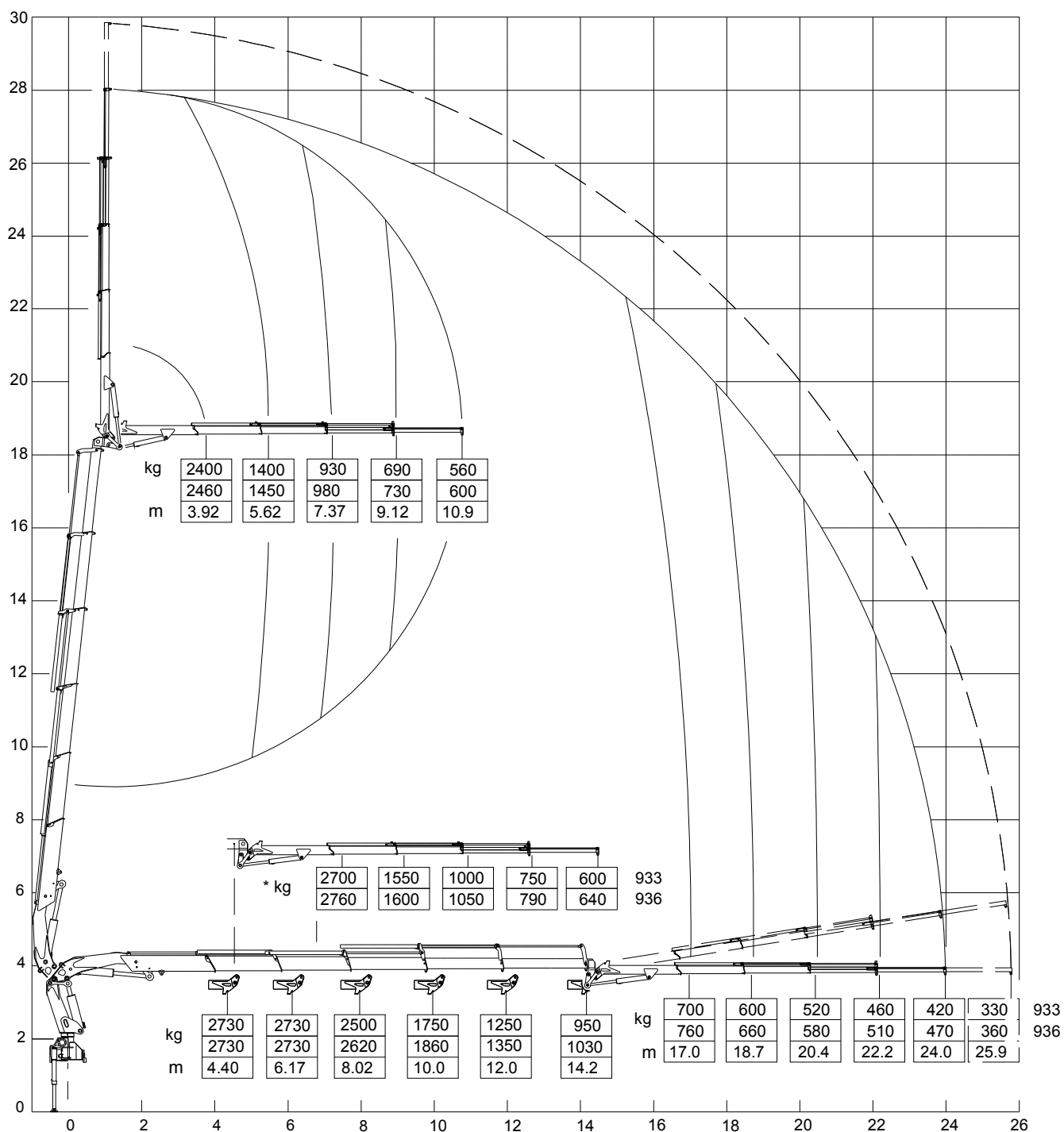


DIAGRAMMA PORTATE LOAD DIAGRAM 4SJ4



* PRESTAZIONE MASSIMA JIB ORIZZONTALE
* MAX CAPACITIES FOR HORIZONTAL JIB

DIAGRAMMA PORTATE LOAD DIAGRAM 5SJ4

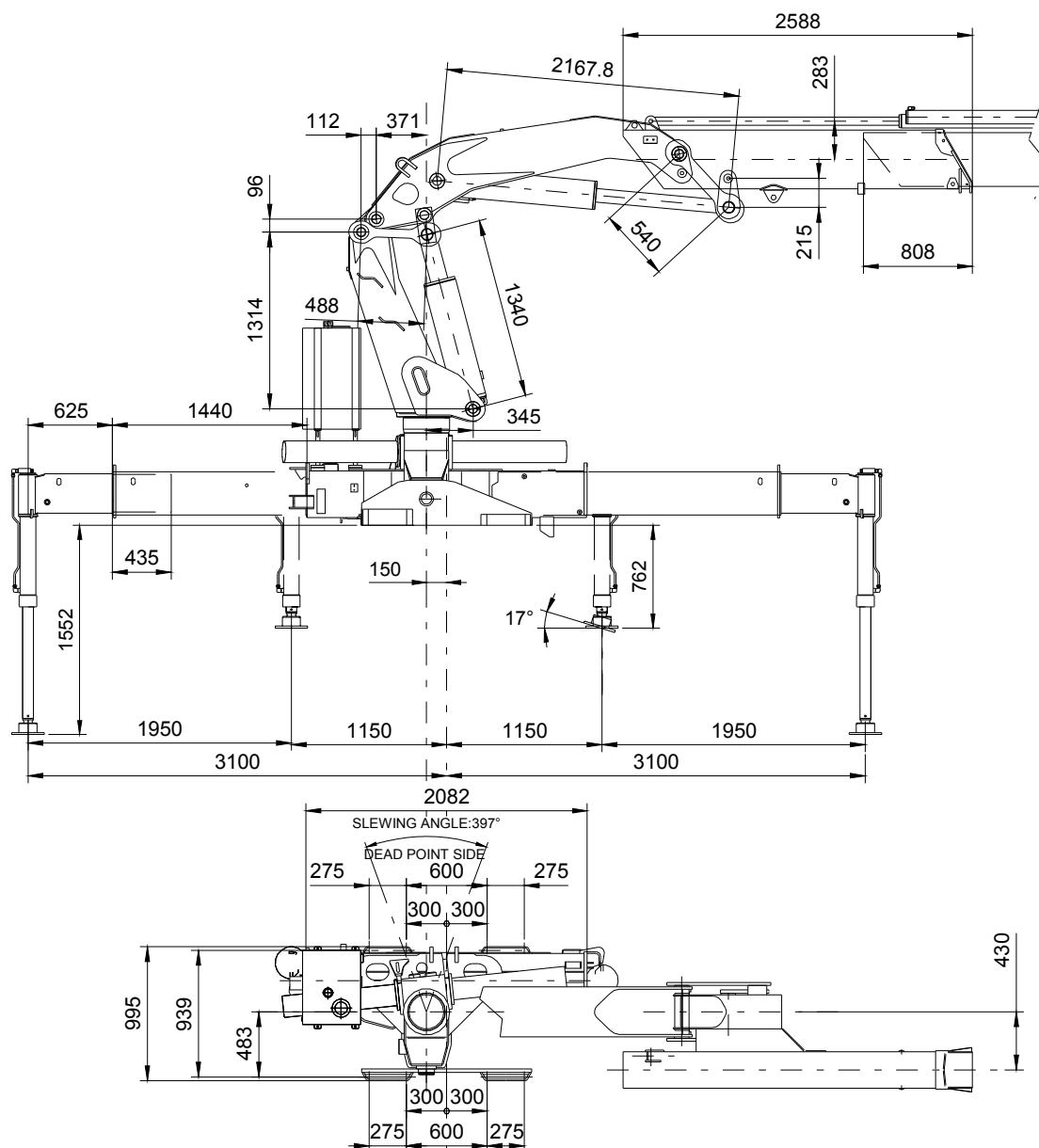


* PRESTAZIONE MASSIMA JIB ORIZZONTALE
* MAX CAPACITIES FOR HORIZONTAL JIB

DIMENSIONALE

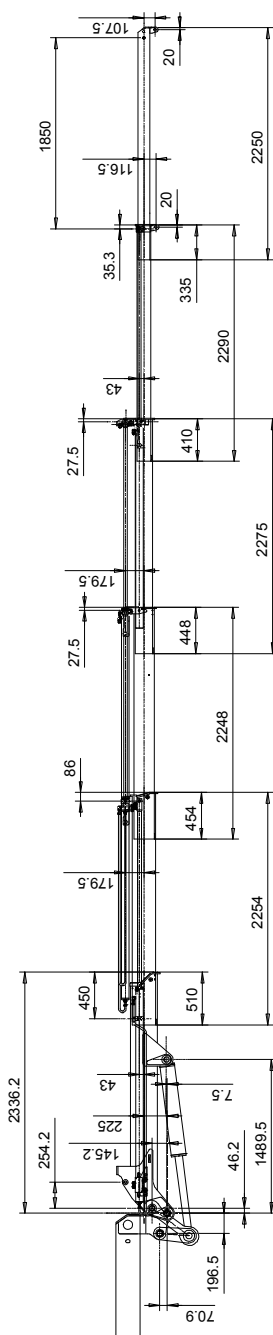
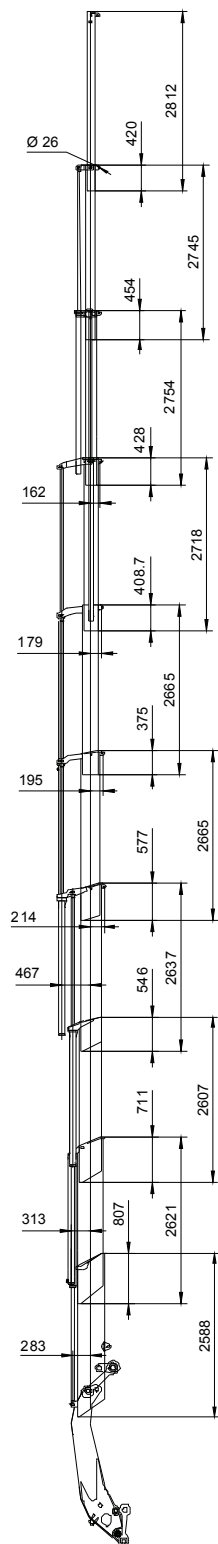
DIMENSIONI BASAMENTO, COLONNA, 1° BRACCIO, 2° BRACCIO, TIRANTI E VITI ROTAZIONE

BASE, COLUMN, BOOM DIMENSIONS, TIE RODS & ROTATION SCREWS



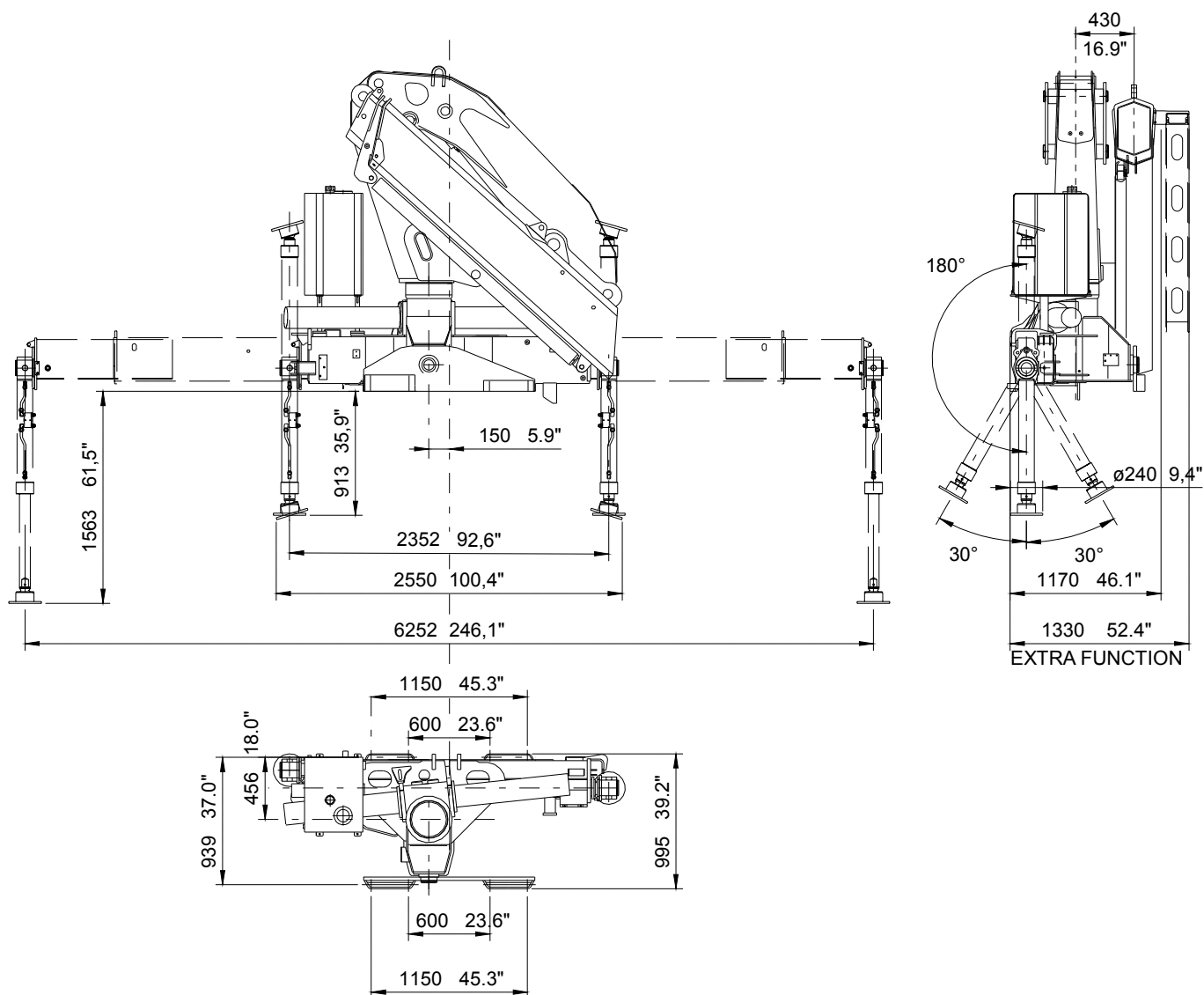
Tiranti di staffaggio <i>Mounting tie rods</i>	N°8 M30x2 42CrMo4 bonificato (<i>quenched and tempered</i>)
Viti fissaggio canna di rotazione <i>Rotation cylinder fixing bolts</i>	N°8 M16x45 8.8 UNI 5931 Coppia di serraggio (<i>Tightening torque</i>) 198 Nm

DIMENSIONALE BRACCI EXTENSIONS DIMENSION

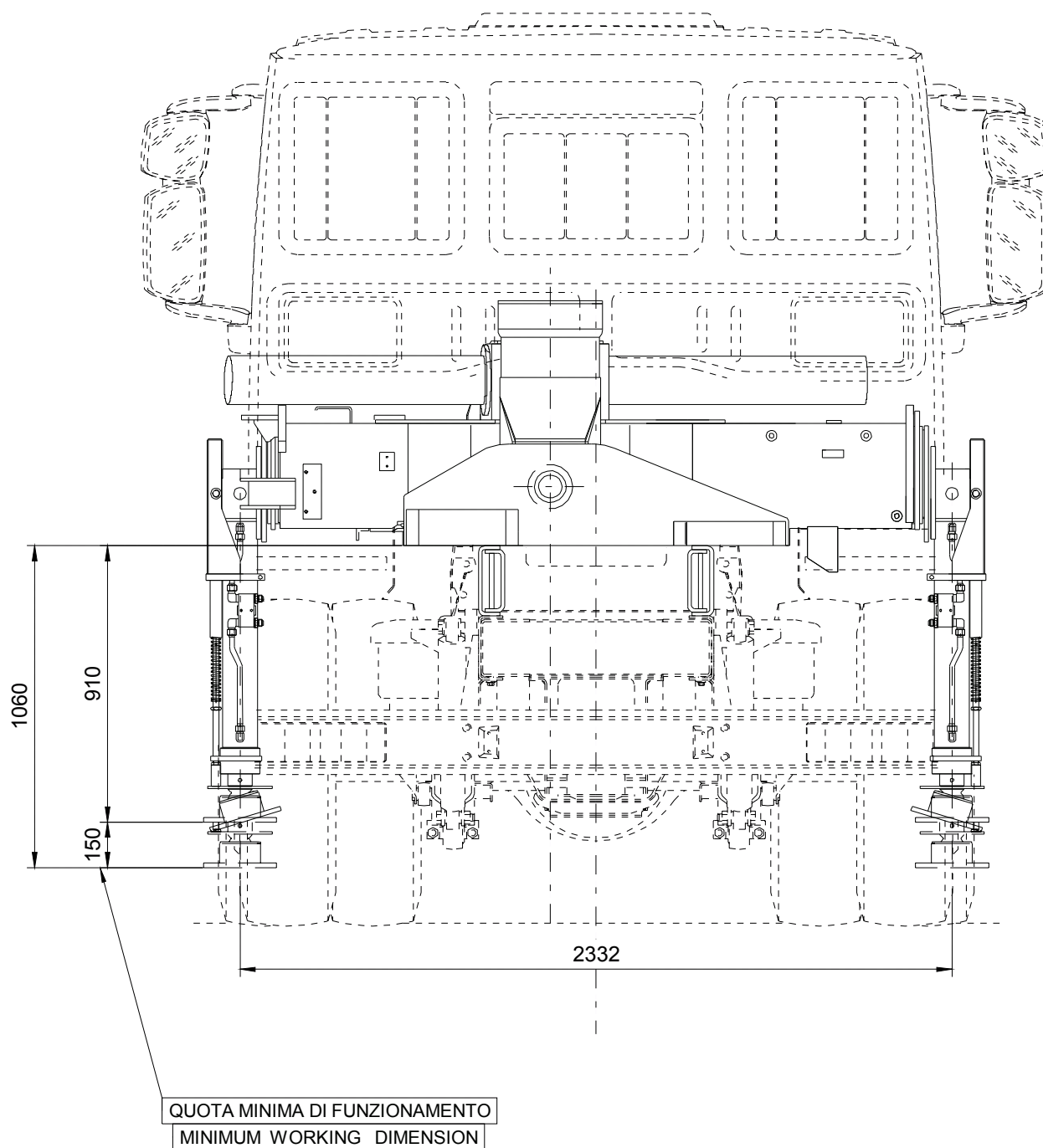


8S JIB4S

DIMENSIONI BASAMENTO CON STABILIZZATORI ROTANTI MANUALI



DIMENSIONI BASAMENTO CON STABILIZZATORI ROTANTI AUTOMATICI DIMENSIONS BASE WITH TILTING AUTOMATIC STABILIZERS



DIMENSIONI MARTINETTI E PERNI CYLINDERS AND PINS DIMENSIONS

CILINDRO DI SOLLEVAMENTO LIFTING CYLINDER

Alesaggio - Cylinder bore	210
Diametro esterno - Cyl. ext. diameter	240
Diametro stelo - Rod diameter	130 - 100
Interasse aperto - Wheelbase (open)	1825
Interasse chiuso - Wheelbase (closed)	1095
Corsa - Stroke	730
Ø perni articolazione - Artic. pin Ø	85 - 65
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO DI ARTICOLAZIONE ARTICULATION CYLINDER

Alesaggio - Cylinder bore	185
Diametro esterno - Cyl. ext. diameter	215
Diametro stelo - Rod diameter	100 - 60
Interasse aperto - Wheelbase (open)	2167
Interasse chiuso - Wheelbase (closed)	1267
Corsa - Stroke	900
Ø perno fissaggio - Fixing pin Ø	85 - 65
Mat. perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 1° SFILO 1ST EXTENSION CYL.

Alesaggio - Cylinder bore	85
Diametro esterno - Cyl. ext. diameter	100
Diametro stelo - Rod diameter	60 - 45
Interasse aperto - Wheelbase (open)	3856
Interasse chiuso - Wheelbase (closed)	2086
Corsa - Stroke	1770
Ø perni articolazione - Artic. pin Ø	30
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 2° SFILO 2ND EXTENSION CYL.

Alesaggio - Cylinder bore	85
Diametro esterno - Cyl. ext. diameter	100
Diametro stelo - Rod diameter	60 - 45
Interasse aperto - Wheelbase (open)	2005
Interasse chiuso - Wheelbase (closed)	155
Corsa - Stroke	1850
Ø perno fissaggio - Fixing pin Ø	30
Mat. perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 3° 4° SFILO 3RD 4TH EXTENSION CYL.

Alesaggio - Cylinder bore	80
Diametro esterno - Cyl. ext. diameter	95
Diametro stelo - Rod diameter	50 - 35
Interasse aperto - Wheelbase (open)	2153
Interasse chiuso - Wheelbase (closed)	153
Corsa - Stroke	2000
Ø perni articolazione - Artic. pin Ø	30
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 5° 6° SFILO 5TH 6TH EXTENSION CYL.

Alesaggio - Cylinder bore	65
Diametro esterno - Cyl. ext. diameter	75
Diametro stelo - Rod diameter	40 - 25
Interasse aperto - Wheelbase (open)	2240
Interasse chiuso - Wheelbase (closed)	140
Corsa - Stroke	2100
Ø perno fissaggio - Fixing pin Ø	25
Mat. perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 7° SFILO 7TH EXTENSION CYL.

Alesaggio - Cylinder bore	65
Diametro esterno - Cyl. ext. diameter	75
Diametro stelo - Rod diameter	40 - 25
Interasse aperto - Wheelbase (open)	2340
Interasse chiuso - Wheelbase (closed)	140
Corsa - Stroke	2200
Ø perni articolazione - Artic. pin Ø	25
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO 8° SFILO 8TH EXTENSION CYL.

Alesaggio - Cylinder bore	65
Diametro esterno - Cyl. ext. diameter	75
Diametro stelo - Rod diameter	40 - 25
Interasse aperto - Wheelbase (open)	2315
Interasse chiuso - Wheelbase (closed)	115
Corsa - Stroke	2200
Ø perni articolazione - Artic. pin Ø	25
Materiale perno/i - Pin steel	39NiCrMo3 BNF

CILINDRO DI ROTAZIONE ROTATION CYLINDER

Alesaggio - Cylinder bore	140
Diametro esterno - Cyl. ext. diameter	160
Diametro stelo - Rod diameter	-
Interasse aperto - Wheelbase (open)	-
Interasse chiuso - Wheelbase (closed)	-
Corsa - Stroke	834
Ø perni articolazione - Artic. pin Ø	-
Materiale perno/i - Pin steel	-

DIMENSIONI MARTINETTI E PERNI

CYLINDERS AND PINS DIMENSIONS

JIB 4S

CILINDRO ARTICOLAZIONE JIB **JIB ARTICULATION CYLINDER**

Alesaggio - <i>Cylinder bore</i>	125
Diametro esterno - <i>Cyl. ext. diameter</i>	145
Diametro stelo - <i>Rod diameter</i>	70 - 0
Interasse aperto - <i>Wheelbase (open)</i>	1903
Interasse chiuso - <i>Wheelbase (closed)</i>	1200
Corsa - <i>Stroke</i>	703
Ø perni articolazione - <i>Artic. pin Ø</i>	60 - 45
Materiale perno/i - <i>Pin steel</i>	39NiCrMo3 BNF - C45

CILINDRO 1° SFILO **1ST EXTENSION CYL.**

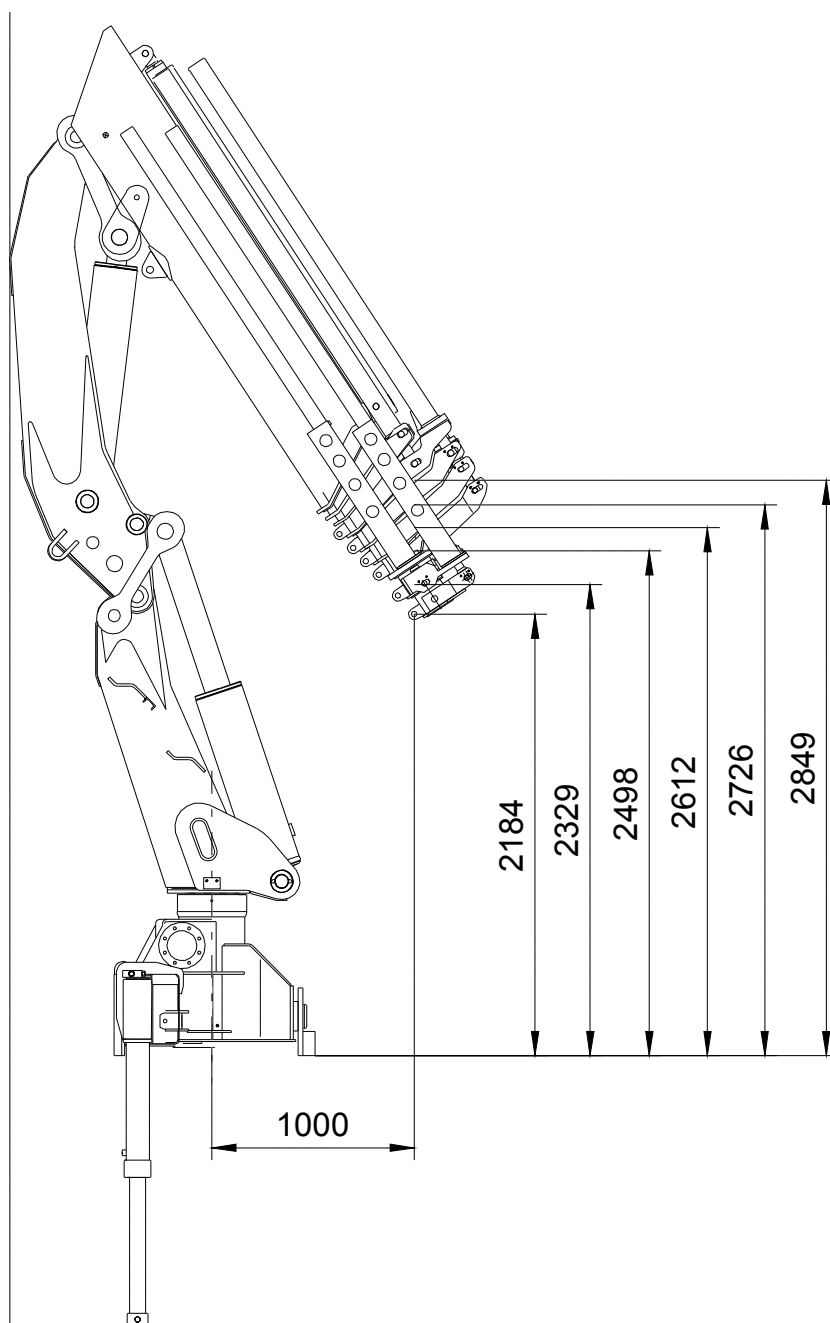
Alesaggio - <i>Cylinder bore</i>	65
Diametro esterno - <i>Cyl. ext. diameter</i>	75
Diametro stelo - <i>Rod diameter</i>	40 - 25
Interasse aperto - <i>Wheelbase (open)</i>	2180
Interasse chiuso - <i>Wheelbase (closed)</i>	408
Corsa - <i>Stroke</i>	1700
Ø perni articolazione - <i>Artic. pin Ø</i>	25
Materiale perno/i - <i>Pin steel</i>	C45

CILINDRO 2° 3° SFILO **2ND 3RD EXTENSION CYL.**

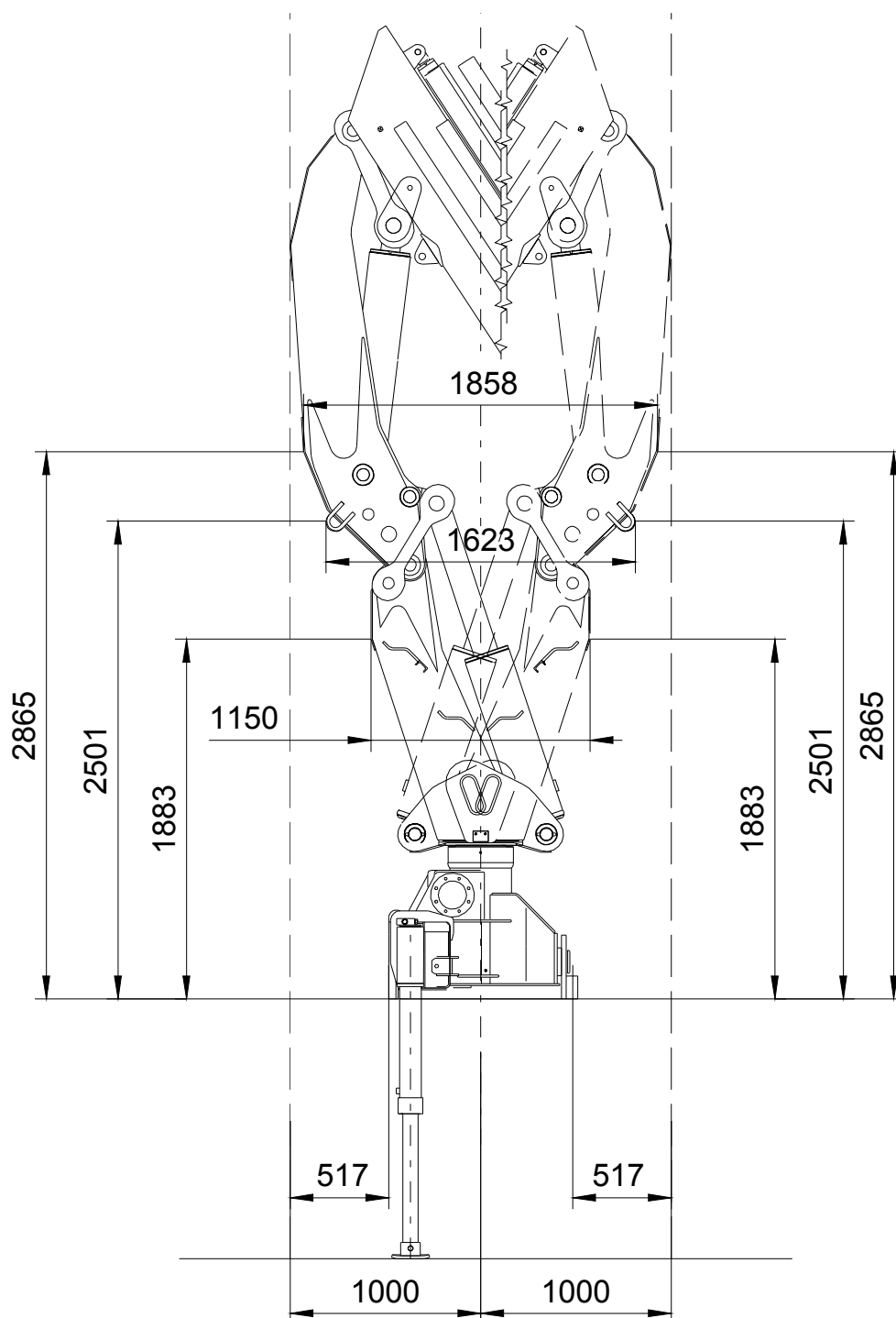
Alesaggio - <i>Cylinder bore</i>	60
Diametro esterno - <i>Cyl. ext. diameter</i>	70
Diametro stelo - <i>Rod diameter</i>	35 - 25
Interasse aperto - <i>Wheelbase (open)</i>	1854
Interasse chiuso - <i>Wheelbase (closed)</i>	104
Corsa - <i>Stroke</i>	1750
Ø perni articolazione - <i>Artic. pin Ø</i>	25
Materiale perno/i - <i>Pin steel</i>	C40

CILINDRO 4° SFILO **4TH EXTENSION CYL.**

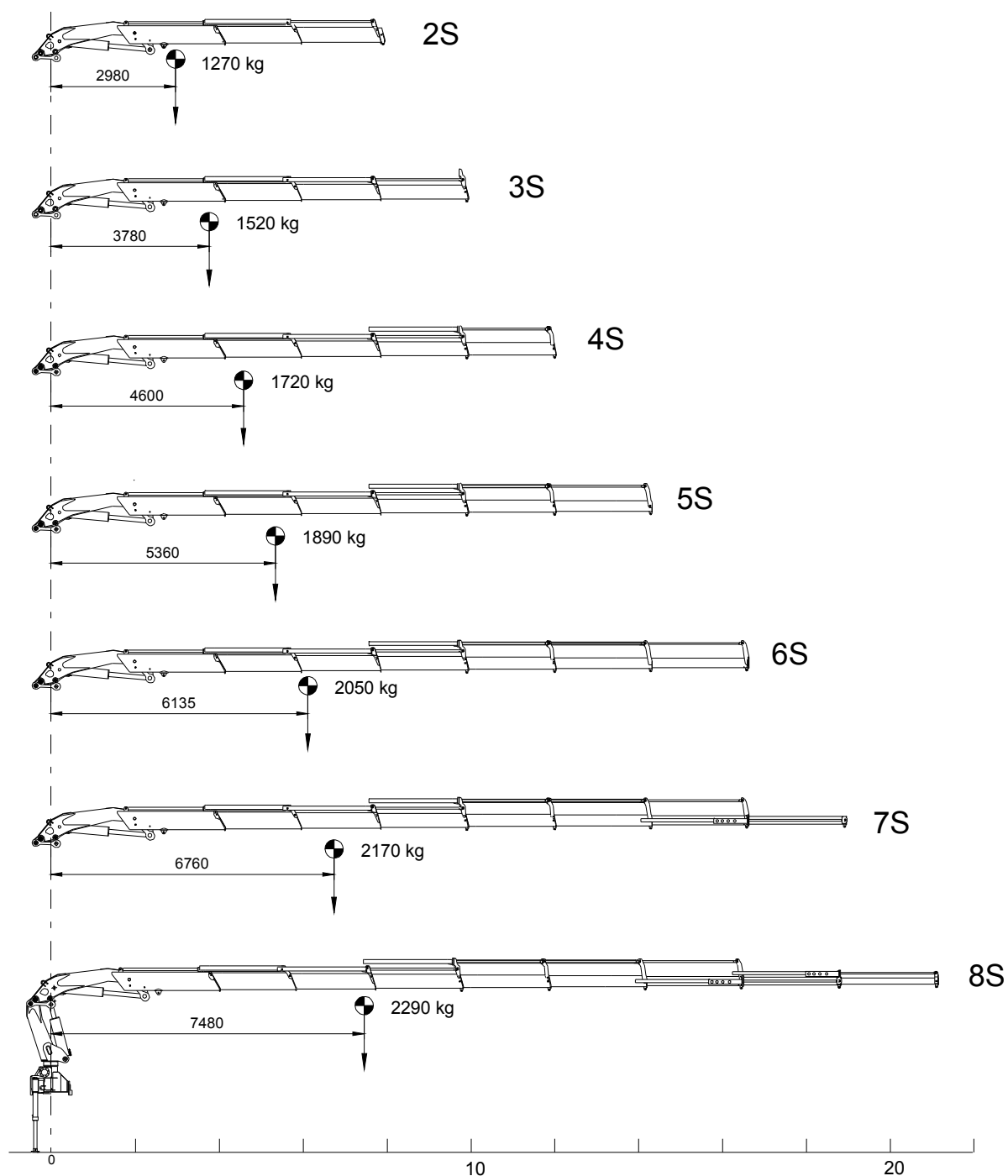
Alesaggio - <i>Cylinder bore</i>	60
Diametro esterno - <i>Cyl. ext. diameter</i>	70
Diametro stelo - <i>Rod diameter</i>	35 - 0
Interasse aperto - <i>Wheelbase (open)</i>	1900
Interasse chiuso - <i>Wheelbase (closed)</i>	100
Corsa - <i>Stroke</i>	1800
Ø perno fissaggio - <i>Fixing pin Ø</i>	20
Mat. perno/i - <i>Pin steel</i>	C40

ALTEZZA ATTACCO GANCIO
HOOK HEIGHT

INGOMBRI DI ROTAZIONE OVERALL ROTATION DIMENSIONS



PESI – BARICENTRI WEIGHTS – CENTER OF GRAVITY 2S - 8S

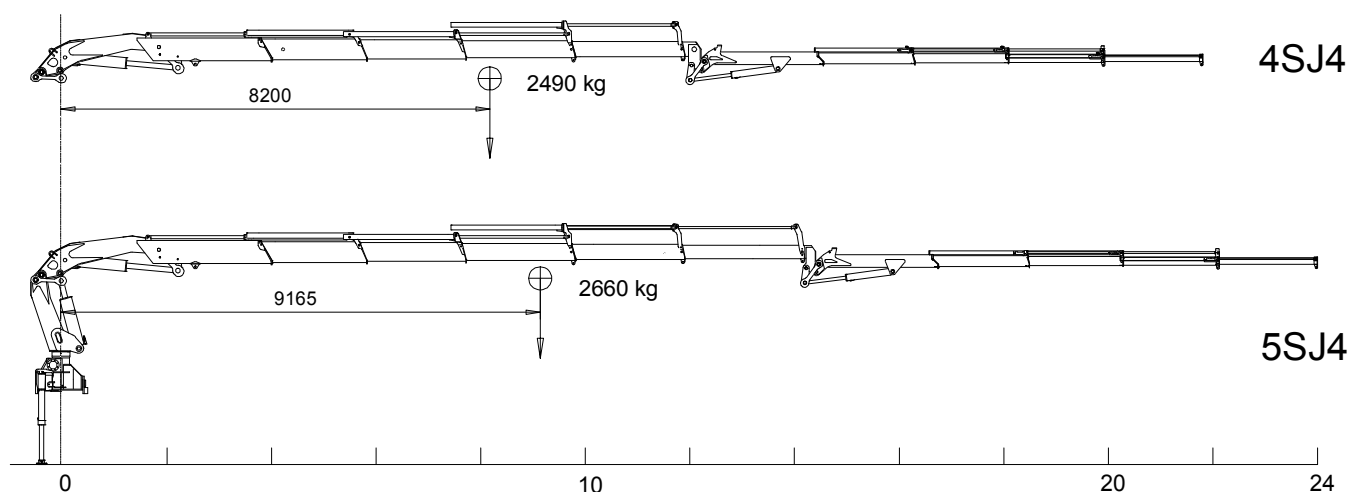


Massa parti fisse (kg)
Fixed parts weight

933 - 936

2550

PESI – BARICENTRI WEIGHTS – CENTER OF GRAVITY JIB



Massa parti fisse (kg)
Fixed parts weight

933 - 936

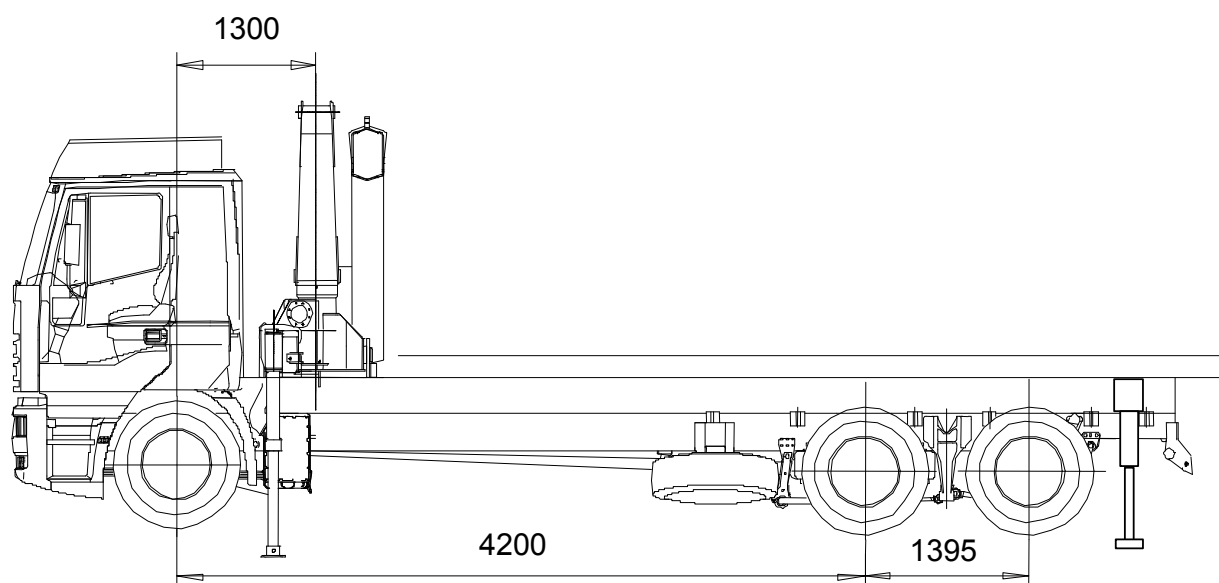
2620

933-936

Crane - Kran
Grue - Grua - Gru



AUTOCARRO MINIMO CON STABILIZZATORI SUPPLEMENTARI MIN TRUCK WITH SUPPLEMENTARY STABILIZERS 933 - 936



PTT (GVW) = 240 q

DATI AUTOCARRO A VUOTO

Asse anteriore

Tara asse anteriore = 4615 kg

Tara ammissibile asse anteriore = 9000 kg

Asse posteriore

Tara asse posteriore = 3340 kg

PESI ALLESTIMENTO

Peso cassone = 1000 kg

Peso gru = 4600 kg (936 6S)

Peso stabilizzatori = 550 kg

Peso controtelaio = 870 kg

CHASSIS DATA

Front axle

Front axle tare weight = 46150 kg

Allowable front axle weight = 9000 kg

Rear axle

Rear axle tare weight = 3340 kg

OUTFIT WEIGHTS

Body weight = 1000 kg

Crane weight = 4600 kg (936 6S)

Stabilizers weight = 550 kg

Counterframe weight = 870 kg

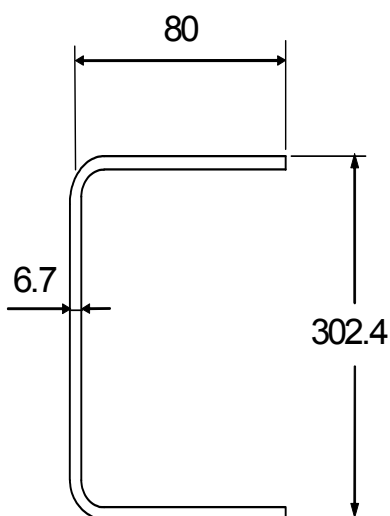
Coefficiente di stabilità = 1,61

Stability index = 1,61

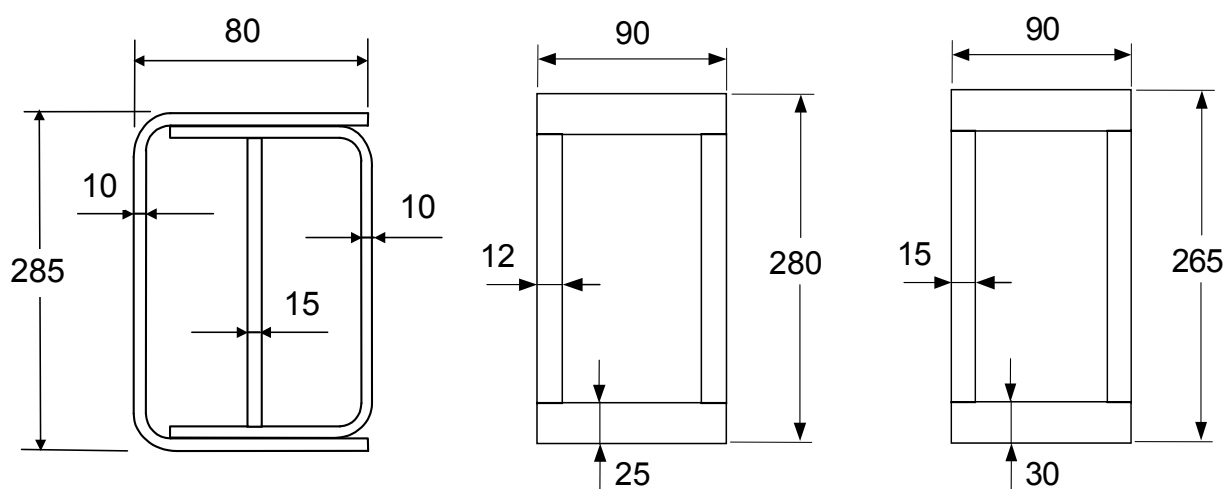
CONTROTELAIO MINIMO MIN COUNTERFRAME

Momento dinamico max (daNm) Max dynamic moment	38600
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Sezione telaio minima (autocarro PTT=240 q)
Min frame section (truck GVW 24 ton)



Sezione minima contro telaio (materiale Fe510 - S355)
Min counterframe section (steel S355)



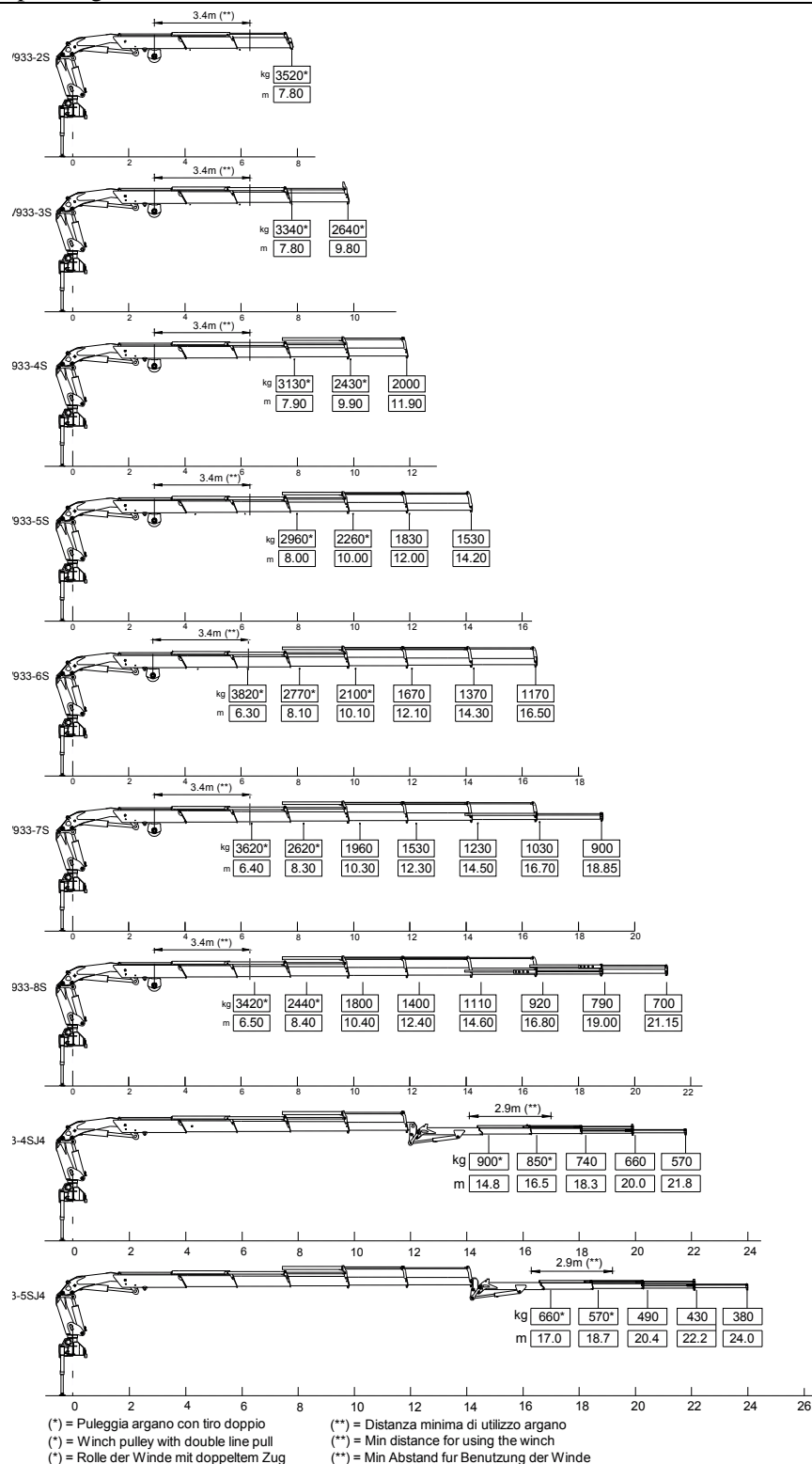
CARATTERISTICHE VERRICELLO IDRAULICO HYDRAULIC WINCH DATA

GRU CRANE V933

Max tiro diretto (kg)

Max winch direct pull (kg)

2000 kg

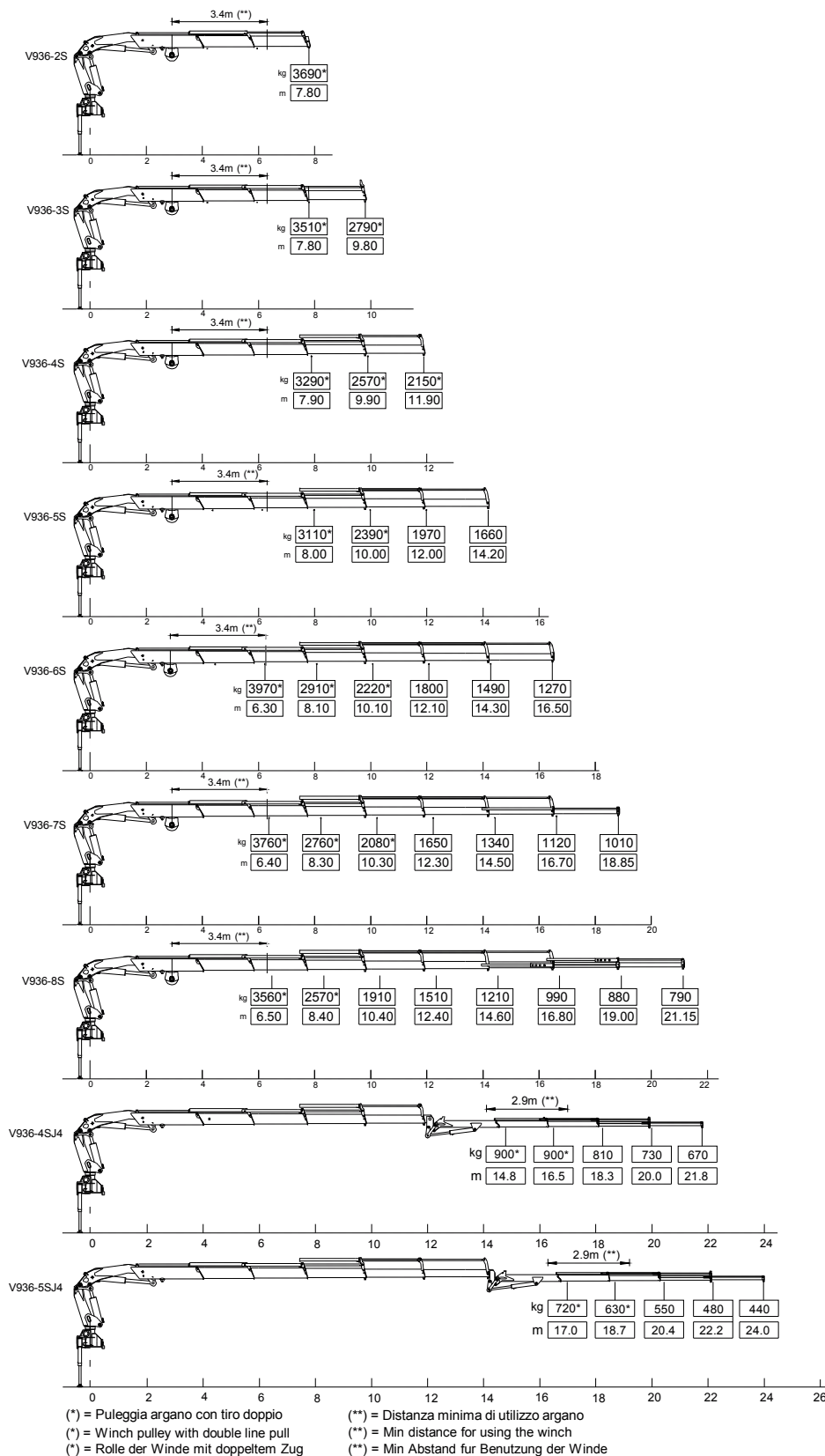


GRU CRANE V936

Max tiro diretto (kg)

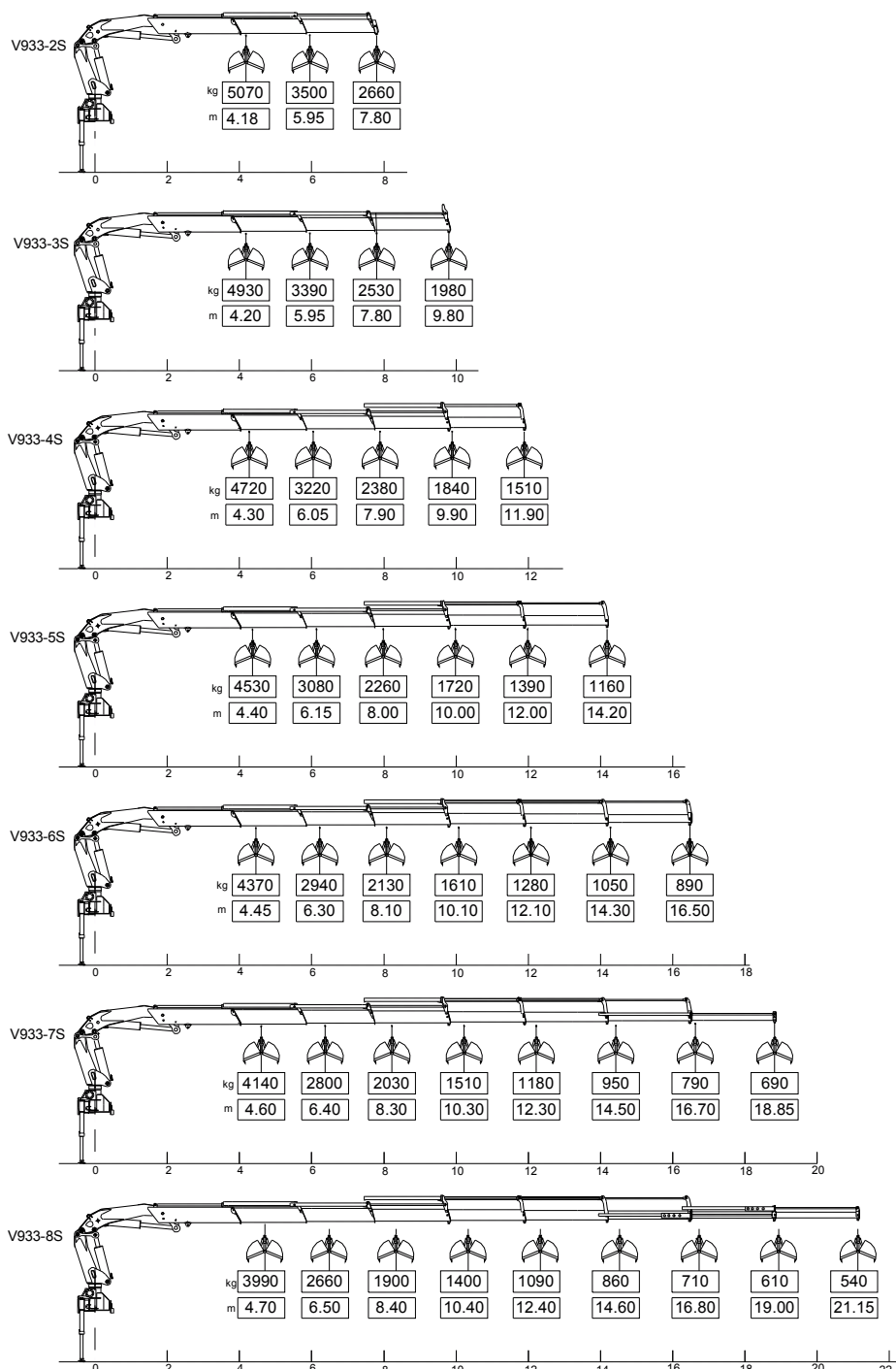
Max winch direct pull (kg)

2000 kg



CARATTERISTICHE ACCESSORI BENNA-POLIPO V933 GRAB - BUCKET DATA

Peso massimo ammissibile Max allowable weight	420 kg
Capacità massima Max capacity	300 L
Pressione max. di esercizio Max working pressure	250 bar



CARATTERISTICHE ACCESSORI BENNA-POLIPO V936 GRAB - BUCKET DATA

Peso massimo ammissibile Max allowable weight	420 kg
Capacità massima Max capacity	300 L
Pressione max. di esercizio Max working pressure	260 bar

