

VR65

TECHNICAL BOOK



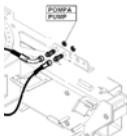
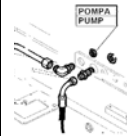
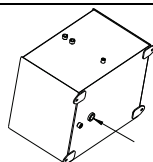
TECHNICAL DATA

Max dynamic moment (daNm)	78100
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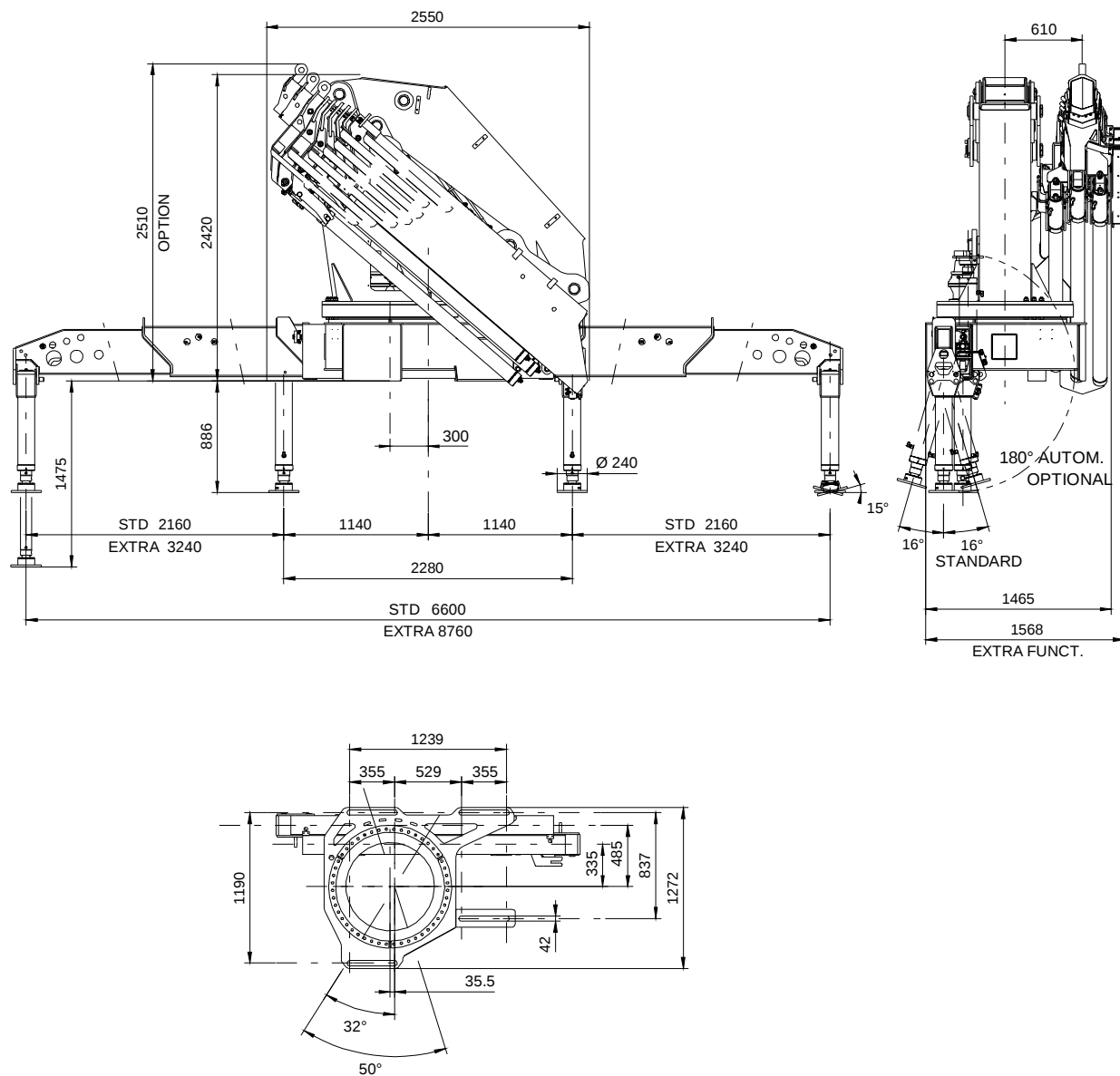
	Version	Q _{max}
Max load (kg)	2S	13700
	4S	12900
	6S	12200

	Version	STD	EX
Crane weight (kg)	2S	5430	5630
	4S	6000	6200
	6S	6500	6700

		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		290 bar	
Max oil flow		70 l/min	
Oil tank capacity		250 l	
Slewing moment		4500 daNm	
Slewing angle		420°	
Absorbed power		44.0 kW 59.0 HP	
Design standard		DIN 15018 EN 12999	

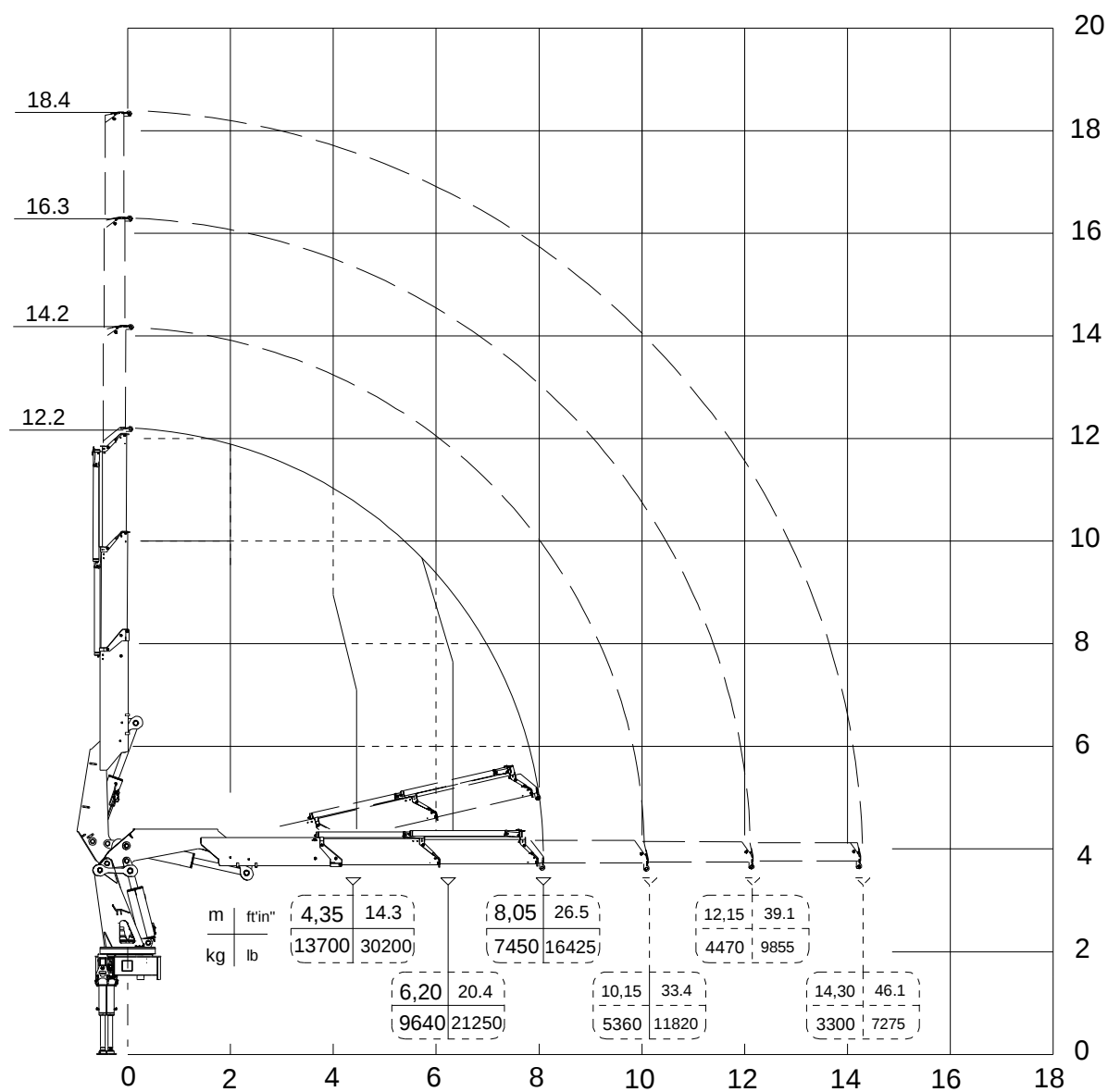
Fittings for connection with pump			NO RDC	RDC
Control valve pressure line			M1"1/16-12 JIC	M1"1/16-12 JIC
	NO RDC	RDC		
Tank suction line			F2" BPS	F2" BPS

OVERALL DIMENSIONS VR65

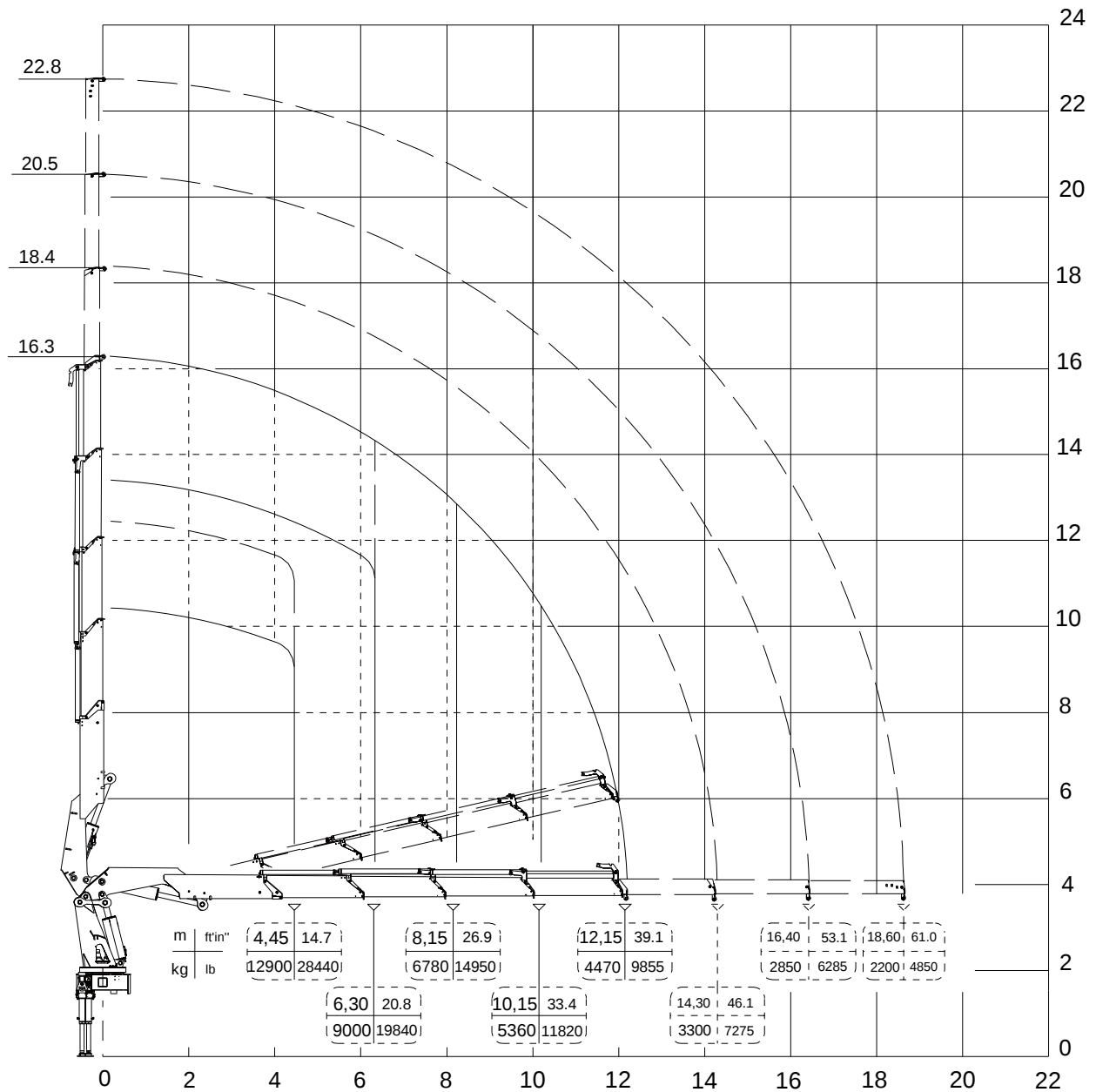


Crane mounting bolts	N°8 M39x3 39NiCrMo3 +QT
Tightening torque	1667 Nm

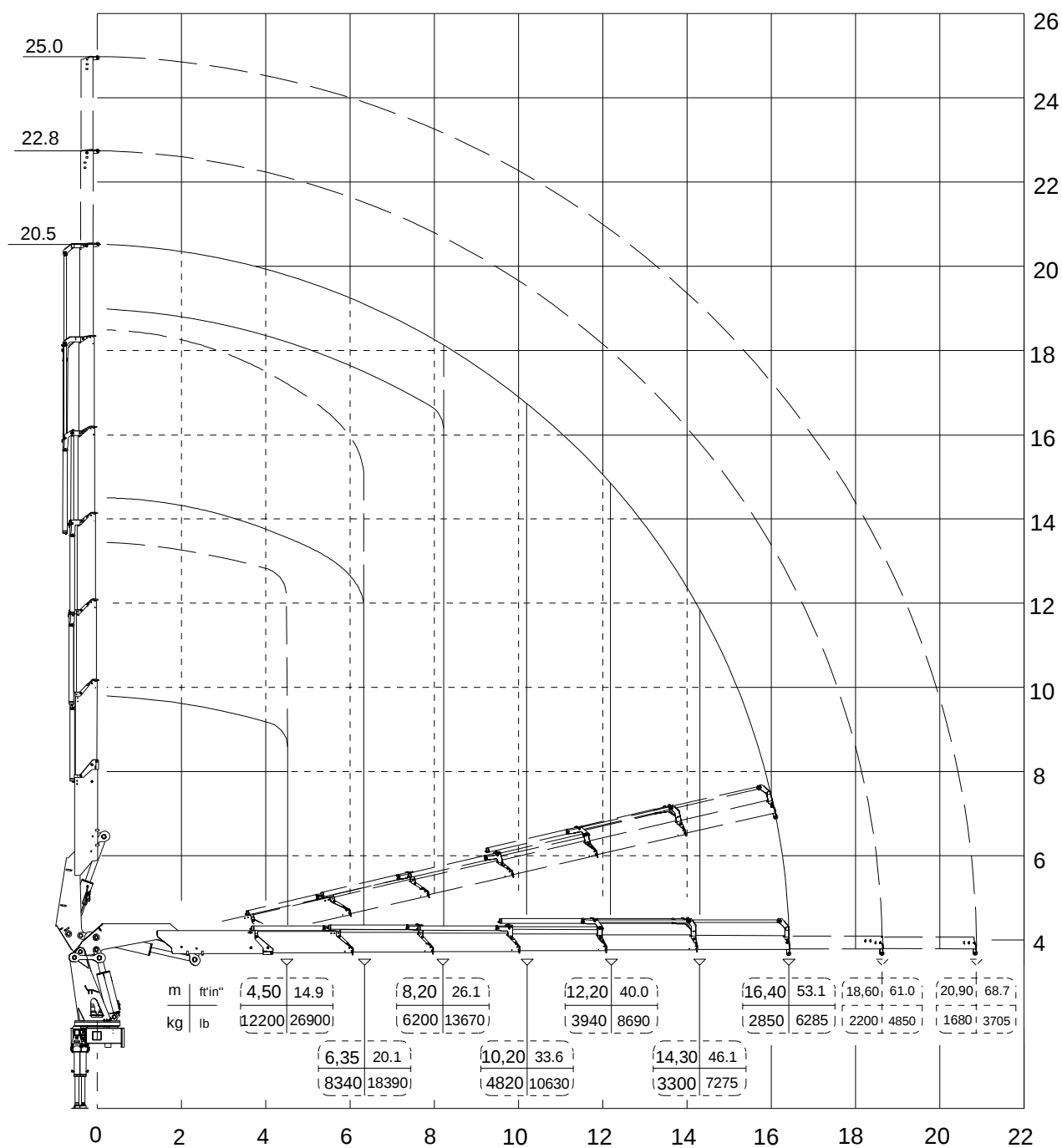
LOAD DIAGRAM VR65 2S



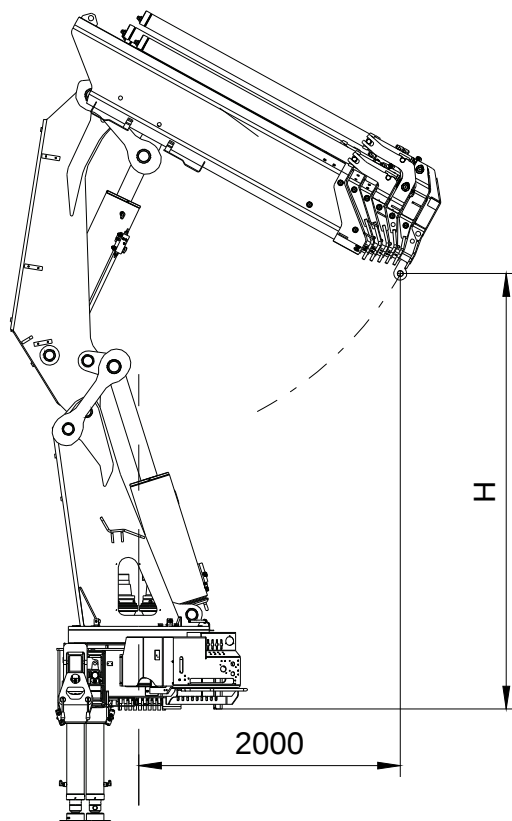
LOAD DIAGRAM VR65 4S



LOAD DIAGRAM VR65 6S

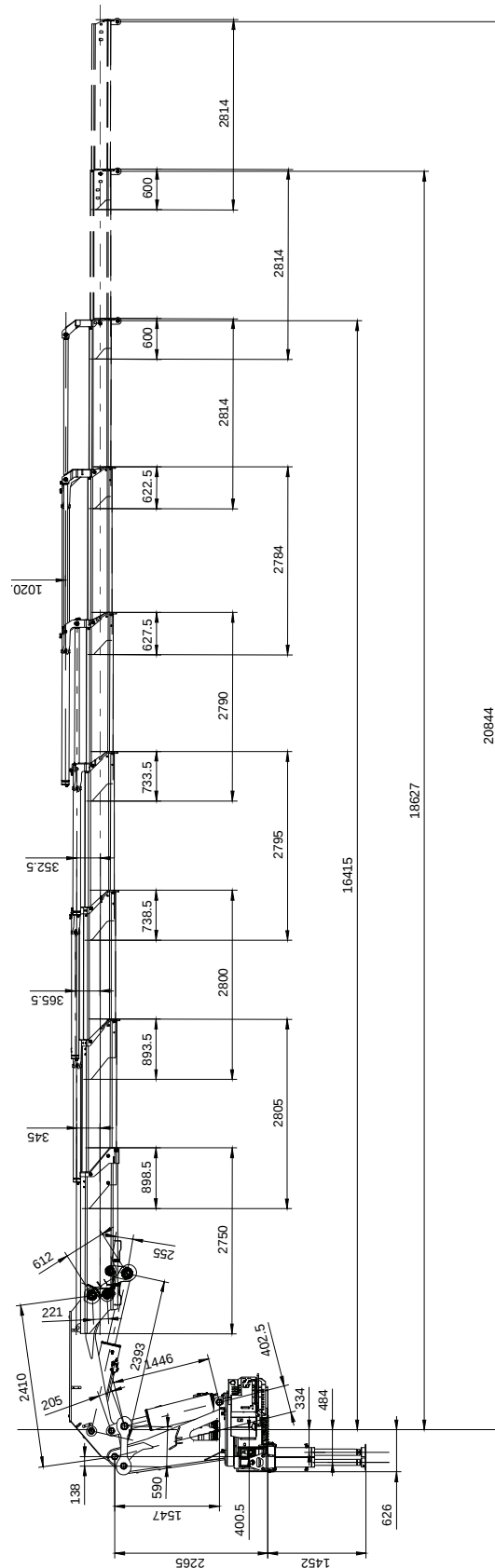


HOOK HEIGHT



	H [mm]
2S	3750
4S	3420
6S	3320

COLUMN - BOOM DIMENSIONS



HYDRAULIC CYLINDERS

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

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

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 QT

STABILIZER BEAMS 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	C45

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

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

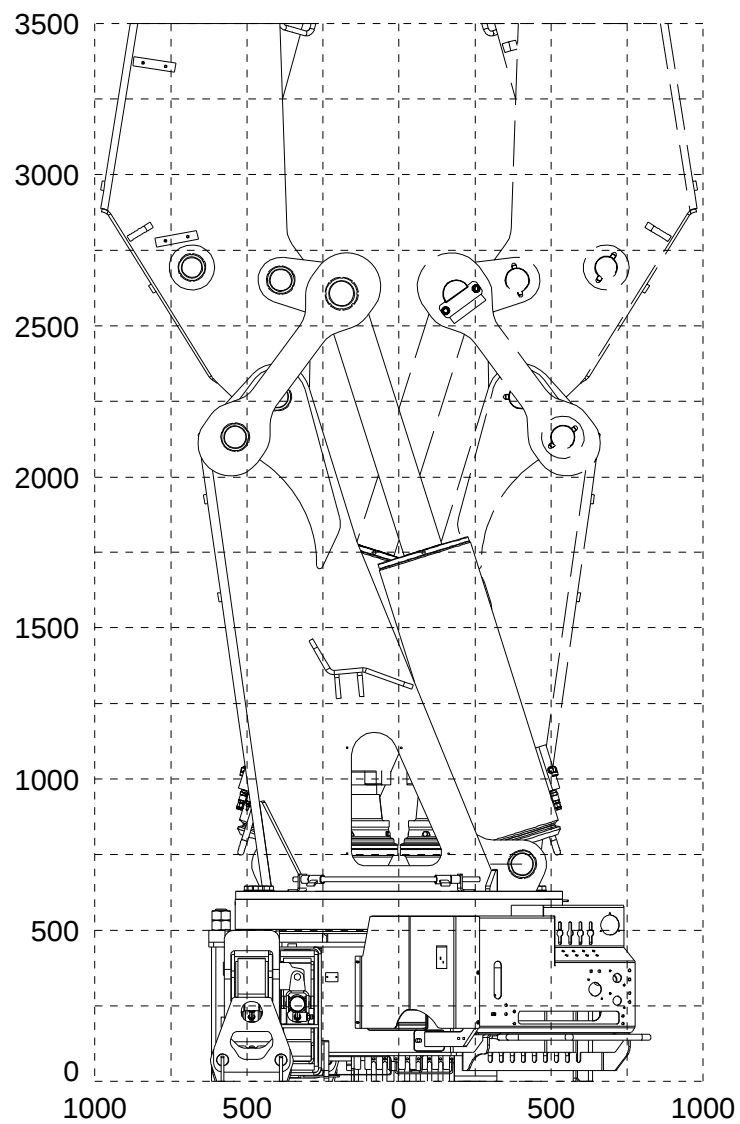
6TH EXTENSION CYLINDER

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

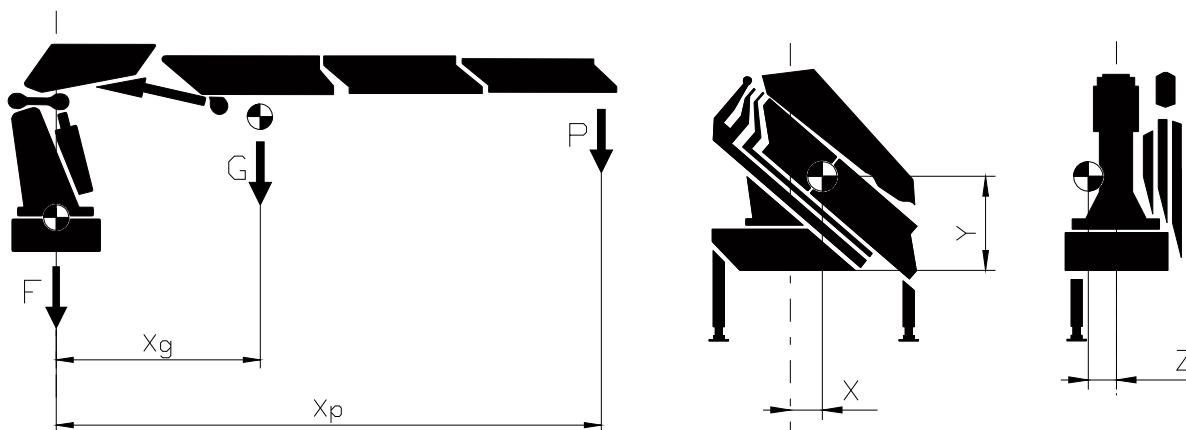
STABILIZER CYLINDER

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	-

OVERALL ROTATION RADIUS



WEIGHTS - CENTER OF GRAVITY



VR65	F [kg]	G [kg]	Xg [m]	P [kg]	Xp [m]	TL [kg]	X [mm]	Y [mm]	Z [mm]
2S 	STD: 3300 EX: 3500	2130	2.67	7450	8.05	9313	335	895	40
4S 		2700	4.17	4470	12.15	5588	318	906	82
6S 		3200	5.71	2850	16.40	3643	303	925	126

where:

F = weight of fixed parts

G = weight of extension booms

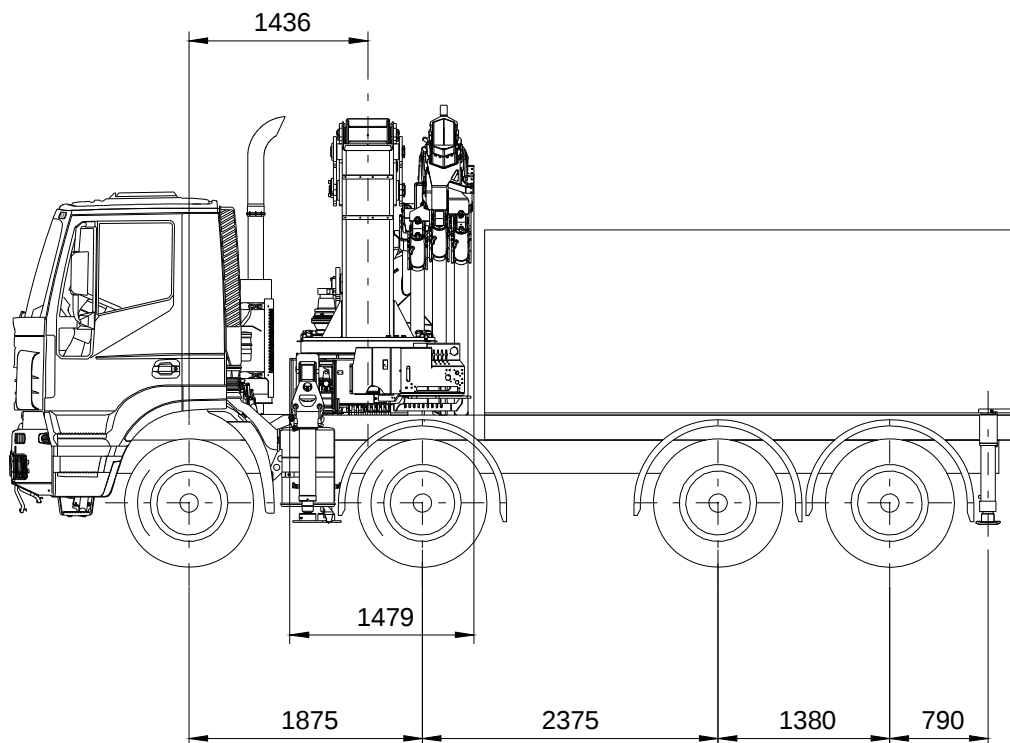
Xg = distance of G from column axis

P = nominal load

Xp = distance of P from column axis

TL = stability test load

X, Y, Z = center of gravity coordinates (folded crane)

MIN. TRUCK WITH ADDITIONAL STABILIZERS**GVW= 34 t****CHASSIS DATA****Front axle**

Front axle tare weight = 6520 kg

1ST Allowable front axle weight = 8000 kg2ND Allowable front axle weight = 8000 kg**Rear axle**

Rear axle tare weight = 3350 kg

OUTFIT WEIGHTS

Body weight = 1000 kg

Crane weight = 6700 kg (VR65 6S EX)

Counterframe weight = 1500 kg

Rear beam stabilizers

Min. width = 5000 mm

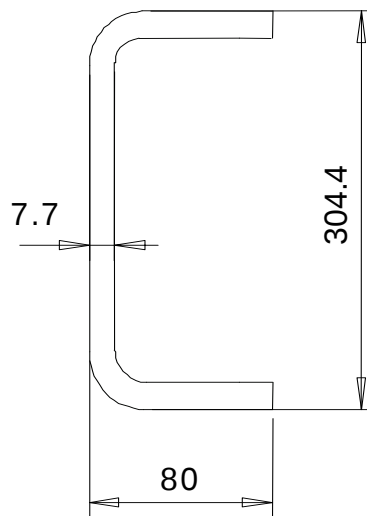
Rear stabilizer weight = 1075 kg

Stability index = 1,43

MIN COUNTERFRAME

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



Min counterframe section (steel S355)

