



TRUCK MOUNTED CRANE

HB50

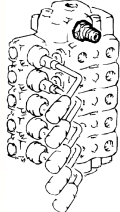
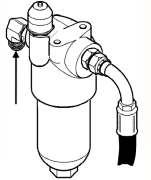
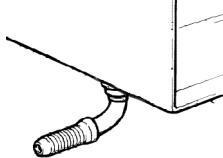


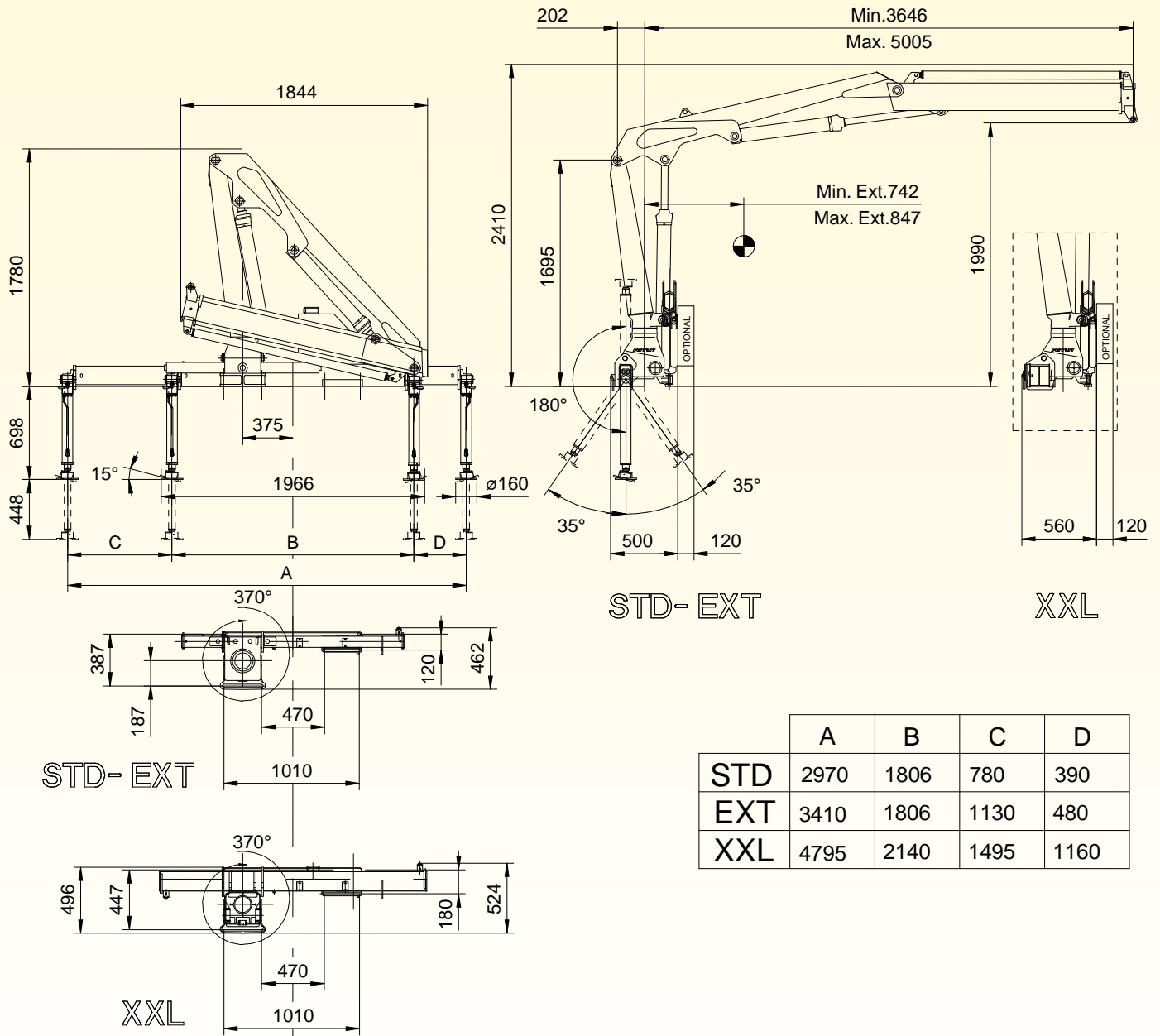
www.hyvacrane.com
www.hyva.com

Max dynamic moment [daNm]	6112
---------------------------	------

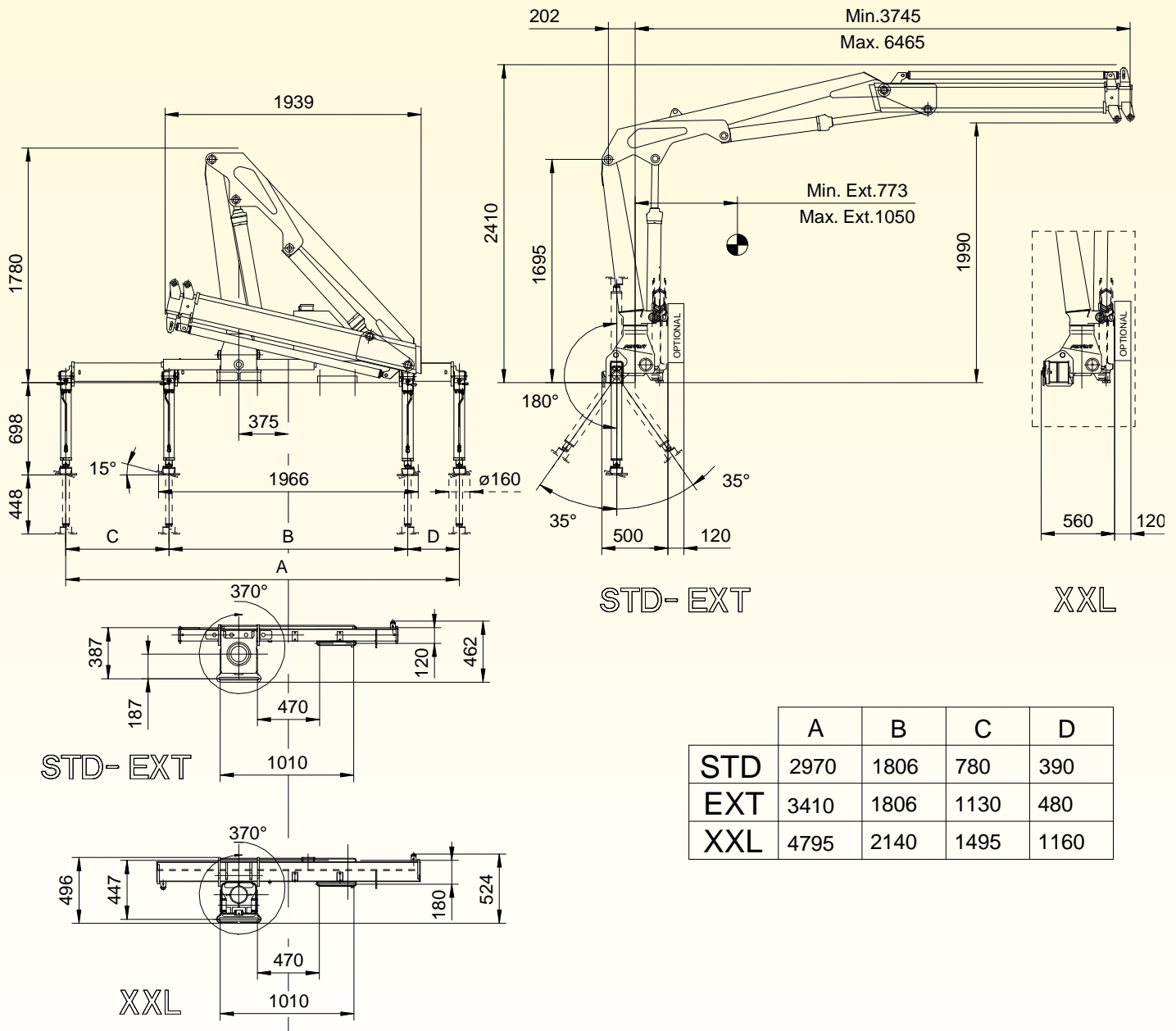
Max capacity [kg]	Version	Q _{max}
	E1	1890
	E2	1785
	E3	1700

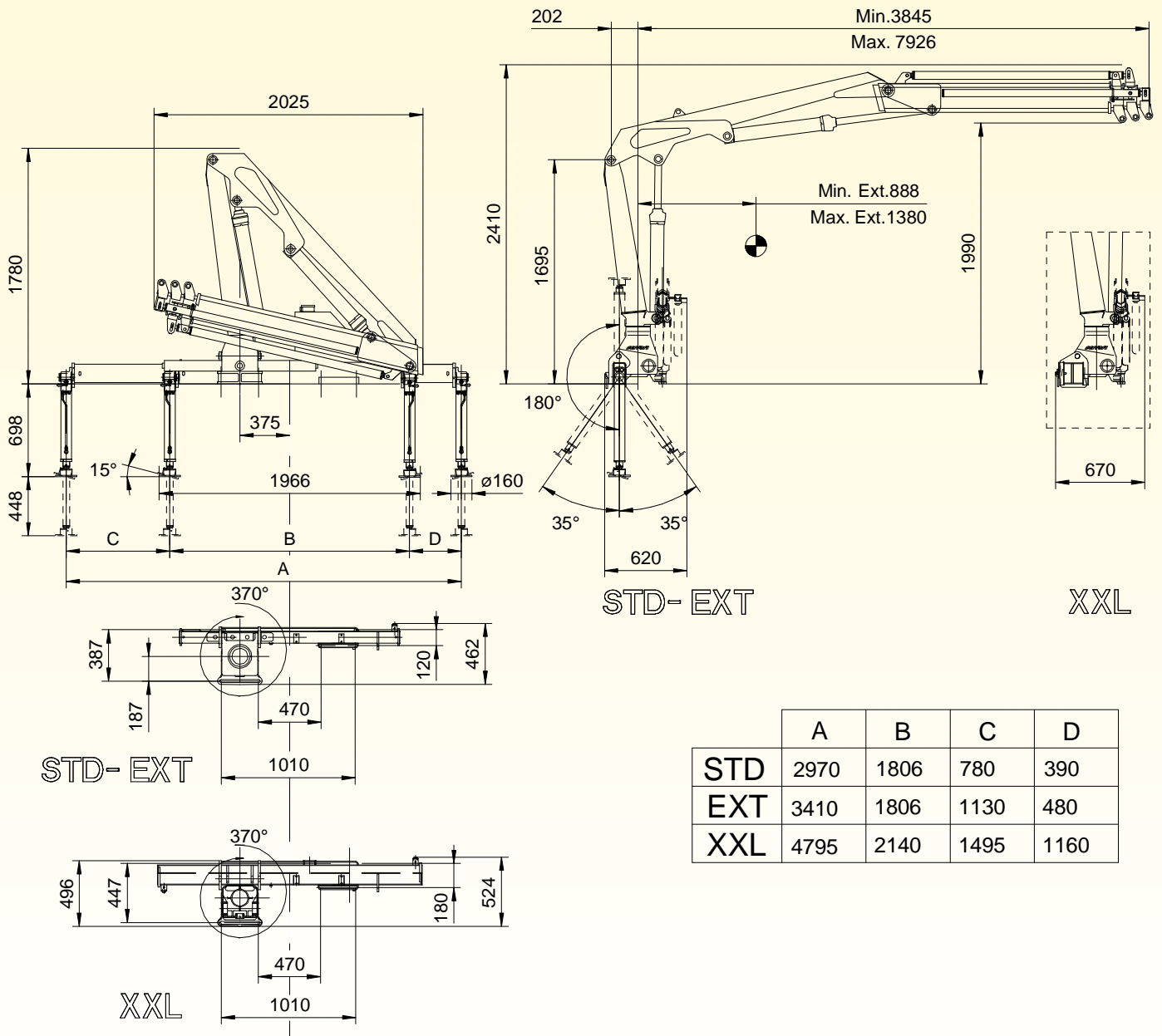
Crane weight [kg]	Version	STD	EXT	XXL
	E1	601	623	707
	E2	636	658	742
	E3	686	708	792

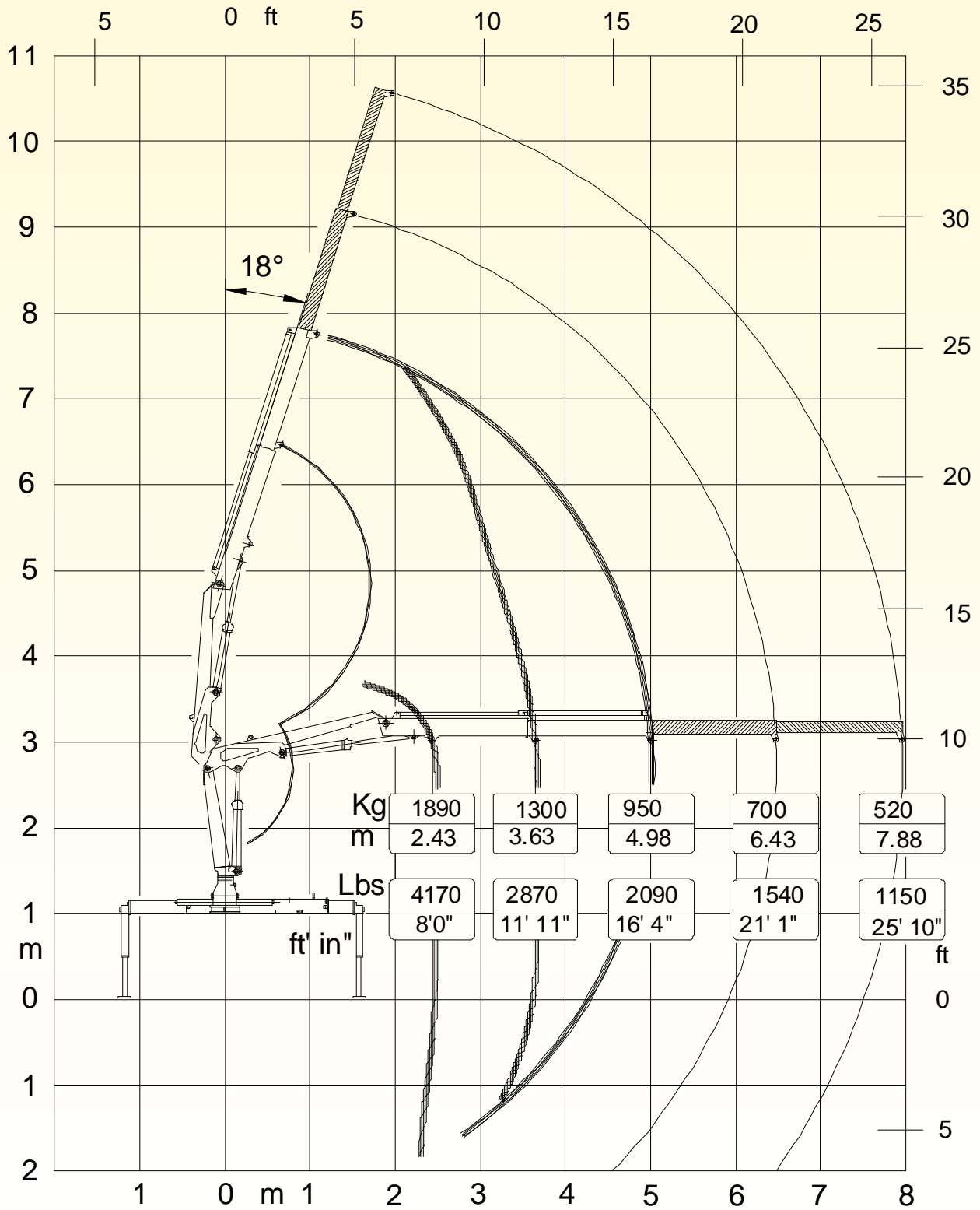
Max force on the stabilizer leg	STD: 4528 daN EX: 4232 daN SE: 2680 daN		
Max standard stabilizer pressure on the ground	STD: 2.25 MPa EX: 2.10 MPa SE: 1.33 MPa		
Max working pressure	250 bar		
Max oil flow to main relief valve	16 dm ³ /min		
Oil tank capacity	30 dm ³		
Slewing moment	610 daNm		
Slewing angle	370°		
Absorbed power	6.7 kW 9 HP		
Design standard	DIN 15018 EN 12999		
Fittings for connection with pump	NO RDC	RDC	
Control valve pressure line	 M 3/4" - 16 JIC		M 3/4" - 16 JIC
Tank suction line	 F 1" BSP	F 1" BSP	

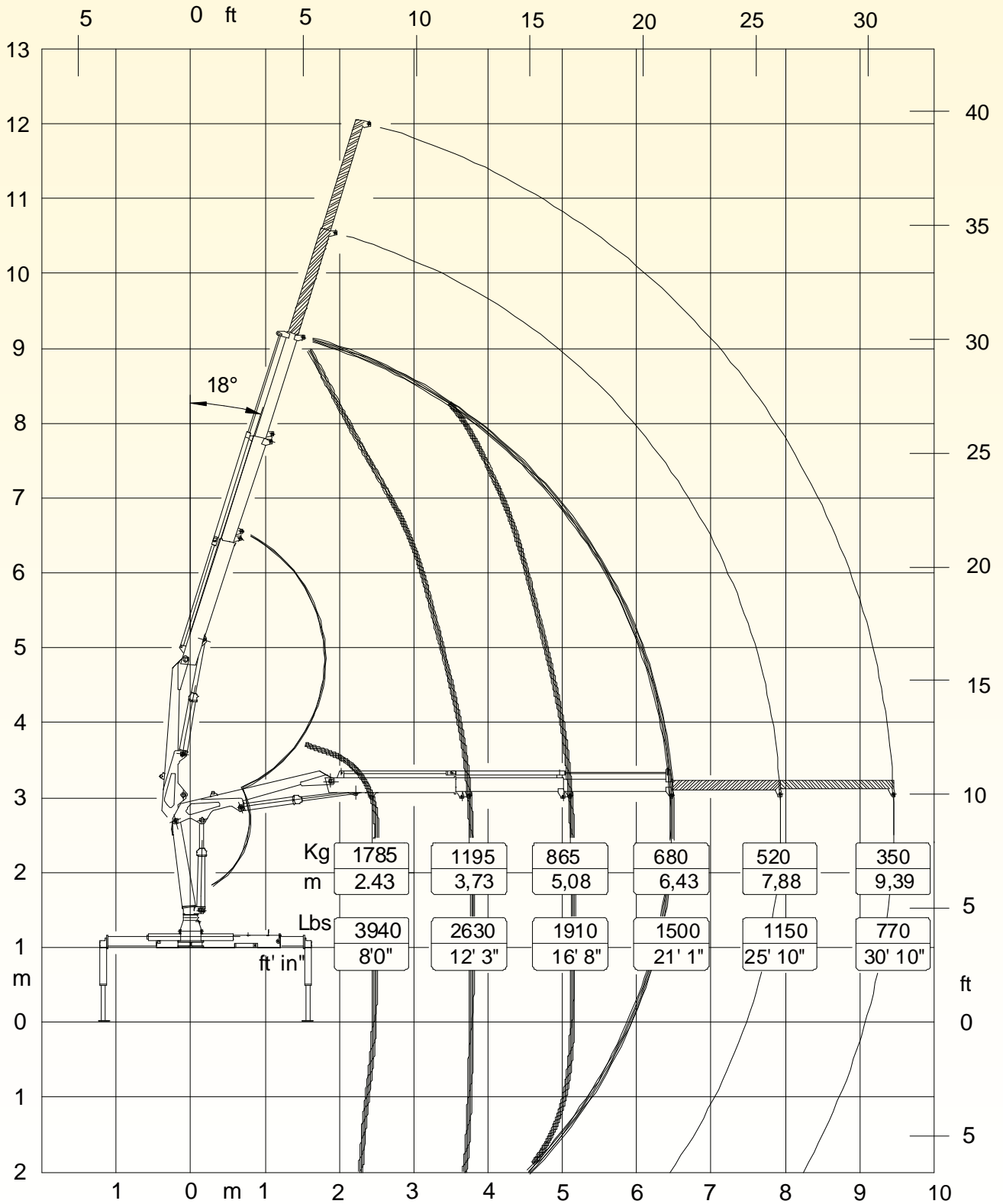


	A	B	C	D
STD	2970	1806	780	390
EXT	3410	1806	1130	480
XXL	4795	2140	1495	1160



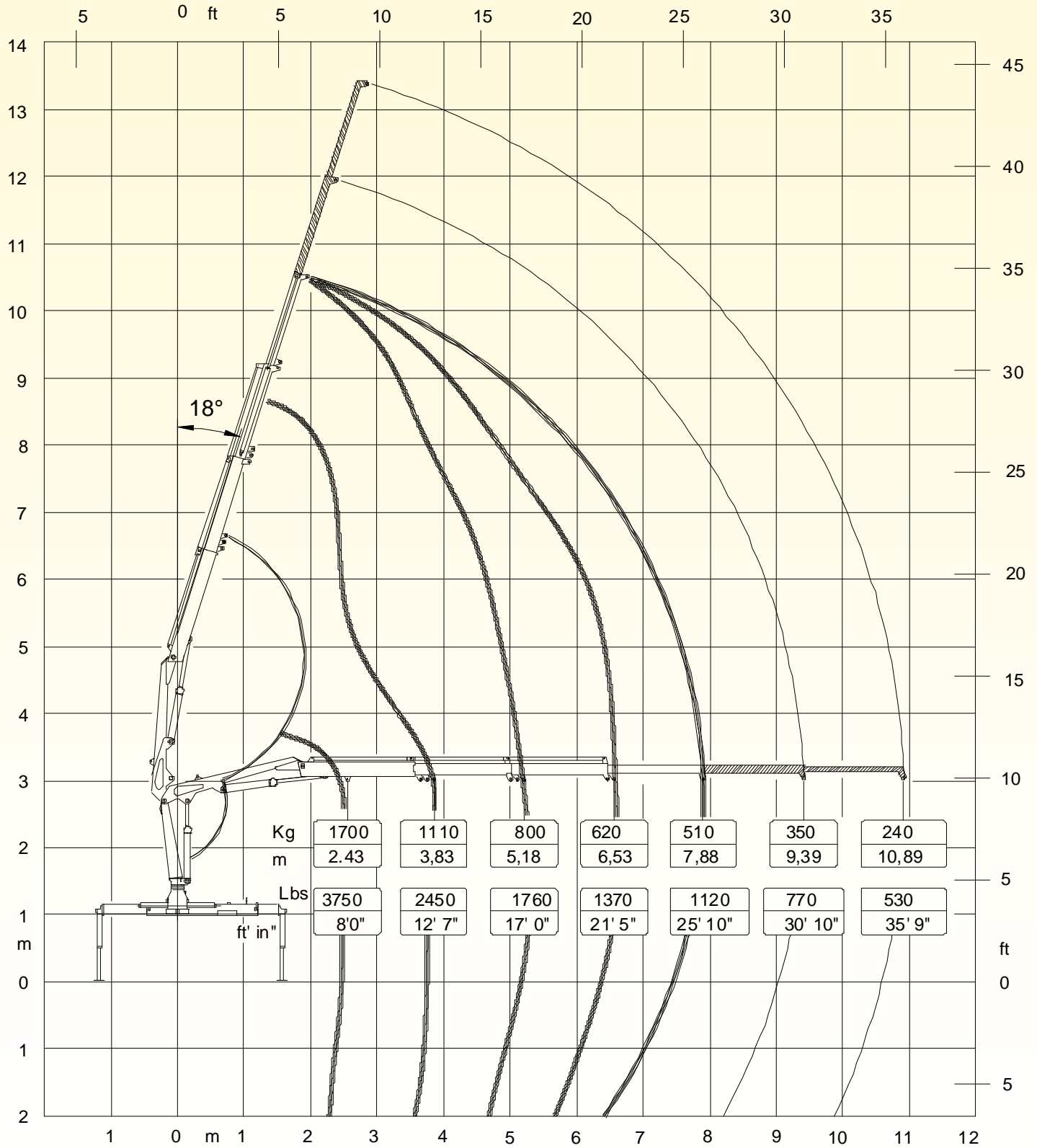


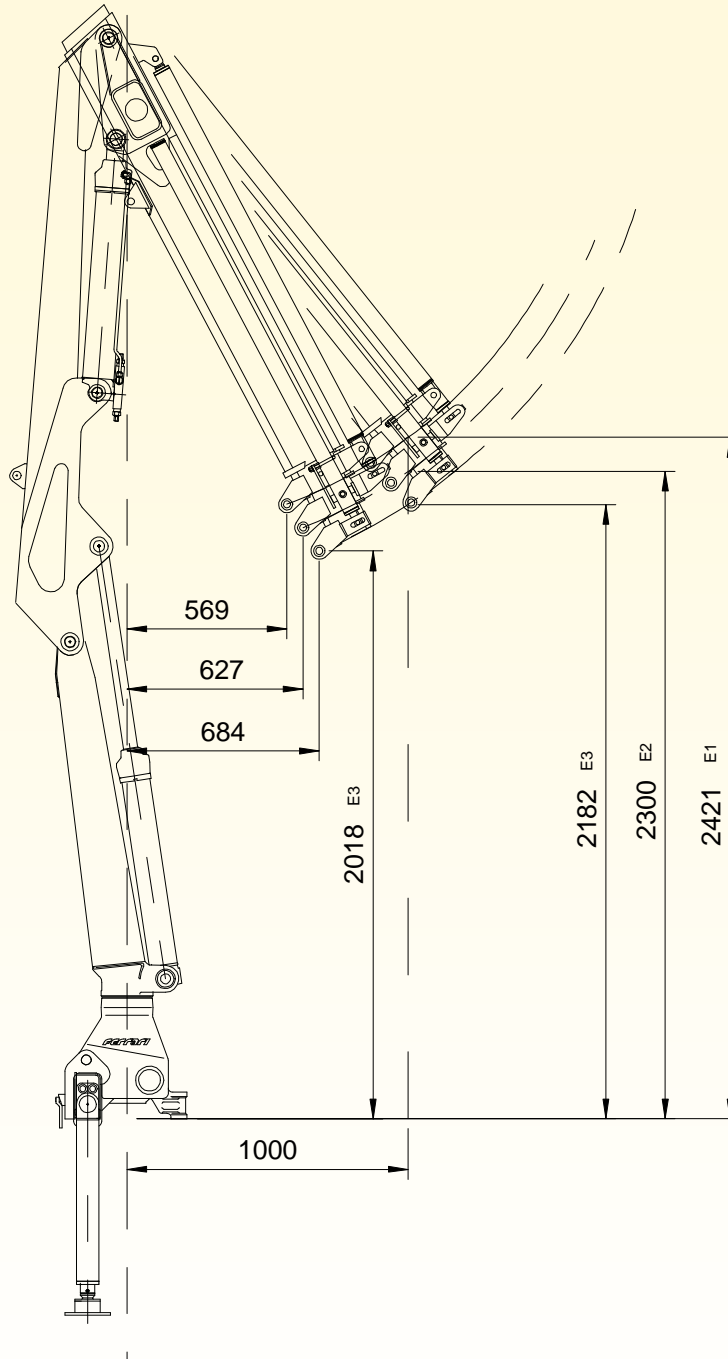




HB50 TECHNICAL SHEET

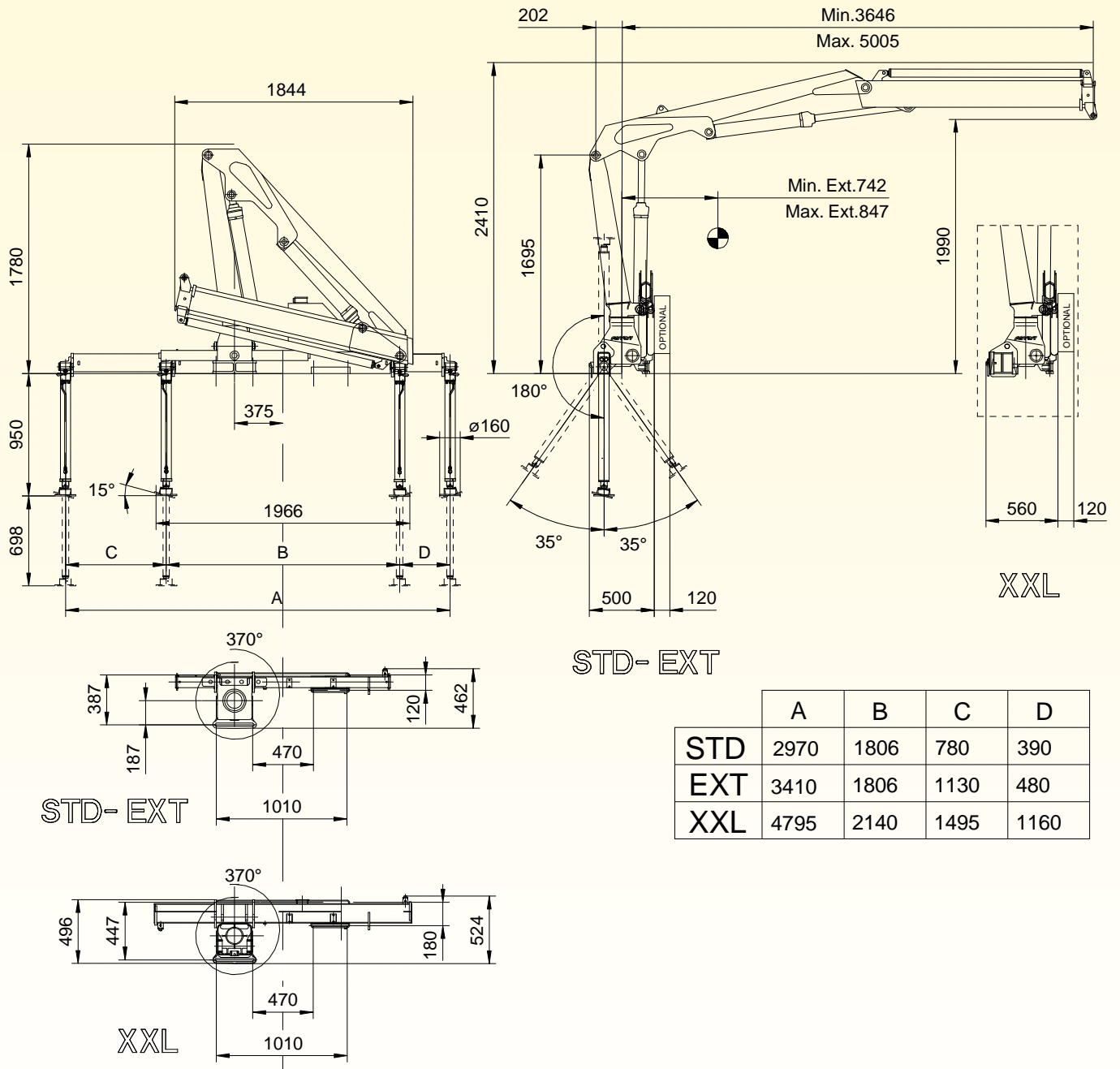
LOAD DIAGRAM E3





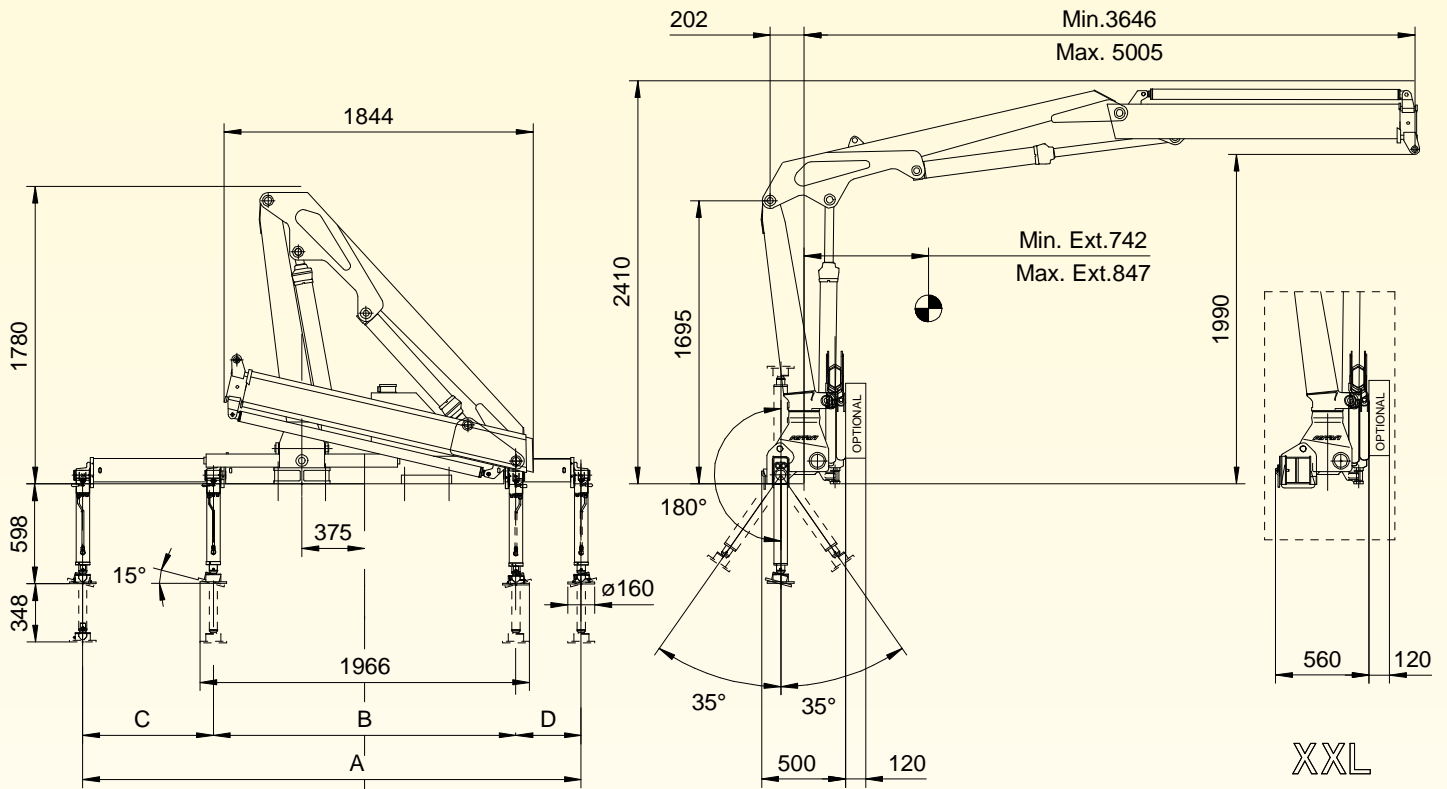
HB50 TECHNICAL SHEET

Base Dimensions With Tall Tilting Cylinders



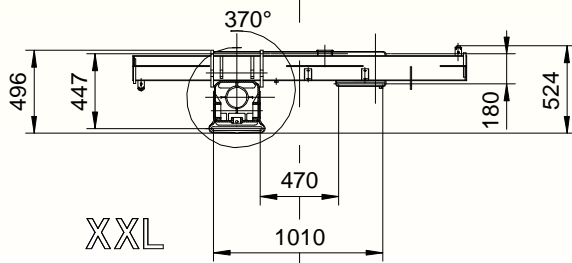
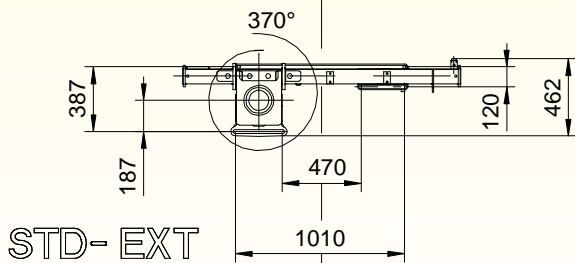
HB50 TECHNICAL SHEET

BASE DIMENSIONS WITH SHORT TILTING CYLINDERS



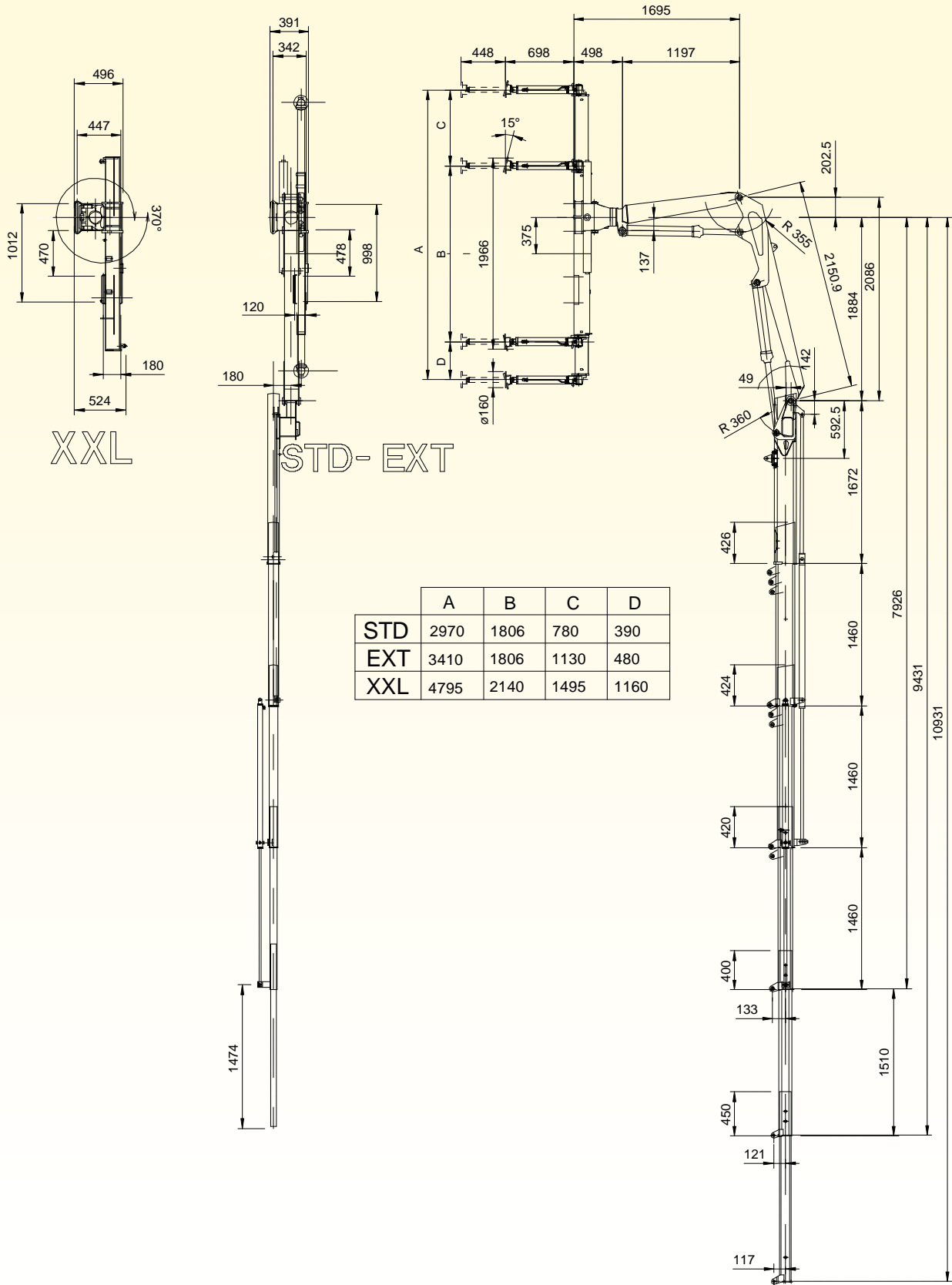
STD- EXT

	A	B	C	D
STD	2970	1806	780	390
EXT	3410	1806	1130	480
XXL	4795	2140	1495	1160



HB50 TECHNICAL SHEET

BASE – COLUMN – BOOM DIMENSIONS



HB50 TECHNICAL SHEET

CYLINDERS AND PINS DIMENSIONS

LIFTING CYLINDER

<i>Cylinder bore</i>	90
<i>Cyl. ext. diameter</i>	102
<i>Rod diameter</i>	55
<i>Centers (open)</i>	1555
<i>Centers (closed)</i>	905
<i>Stroke</i>	650
<i>Artic. pin Ø</i>	40
<i>Pin material</i>	C40 NORM

ARTICULATION CYLINDER

<i>Cylinder bore</i>	100
<i>Cyl. ext. diameter</i>	112
<i>Rod diameter</i>	60
<i>Centers (open)</i>	1555
<i>Centers (closed)</i>	903
<i>Stroke</i>	652
<i>Artic. pin Ø</i>	40
<i>Pin material</i>	C40 NORM

1ST EXTENSION CYLINDER

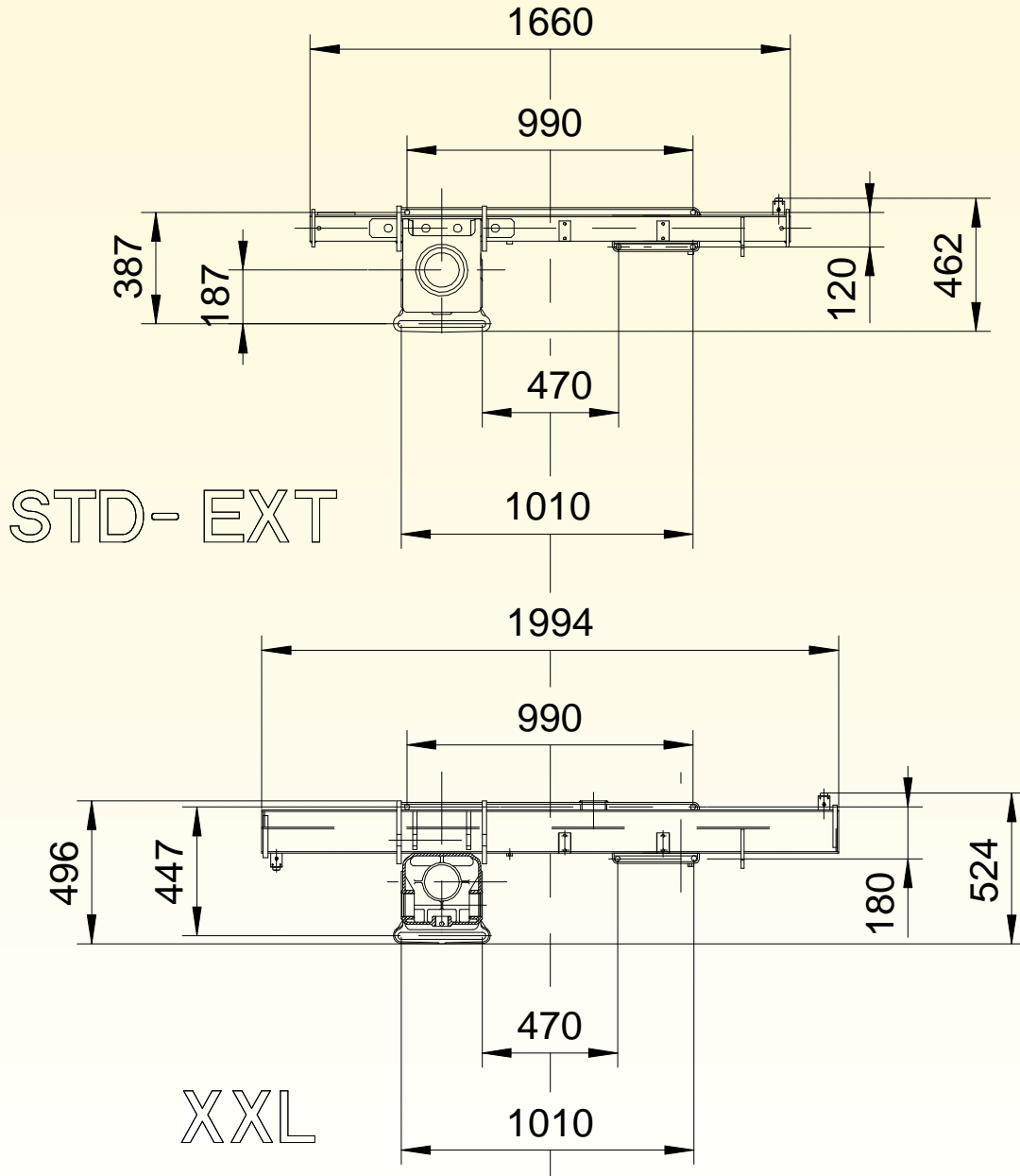
<i>Cylinder bore</i>	50
<i>Cyl. ext. diameter</i>	60
<i>Rod diameter</i>	35
<i>Centers (open)</i>	2930
<i>Centers (closed)</i>	1570
<i>Stroke</i>	1360
<i>Artic. pin Ø</i>	20
<i>Pin material</i>	C40 NORM

2ND - 3RD EXTENSION CYLINDER

<i>Cylinder bore</i>	40
<i>Cyl. ext. diameter</i>	50
<i>Rod diameter</i>	25
<i>Centers (open)</i>	2865
<i>Centers (closed)</i>	1535
<i>Stroke</i>	1330
<i>Artic. pin Ø</i>	35-16
<i>Pin material</i>	39NiCrMo3 QT

ROTATION CYLINDER

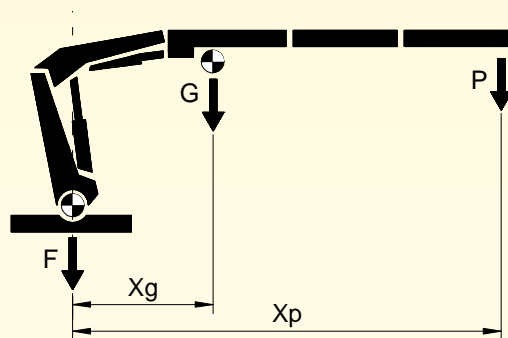
<i>Cylinder bore</i>	70
<i>Cyl. ext. diameter</i>	80
<i>Rod diameter</i>	-
<i>Centers (open)</i>	-
<i>Centers (closed)</i>	-
<i>Stroke</i>	426
<i>Artic. pin Ø</i>	-
<i>Pin material</i>	-


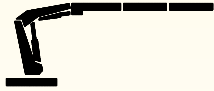



Tie mounting rods	N°8 M20x1,5 39NiCrMo3 QT	Tightening torque	240 Nm
Fixing bolts 1 rotation cylinder	N°1 M80x2 St52.3	-	-

HB50 TECHNICAL SHEET

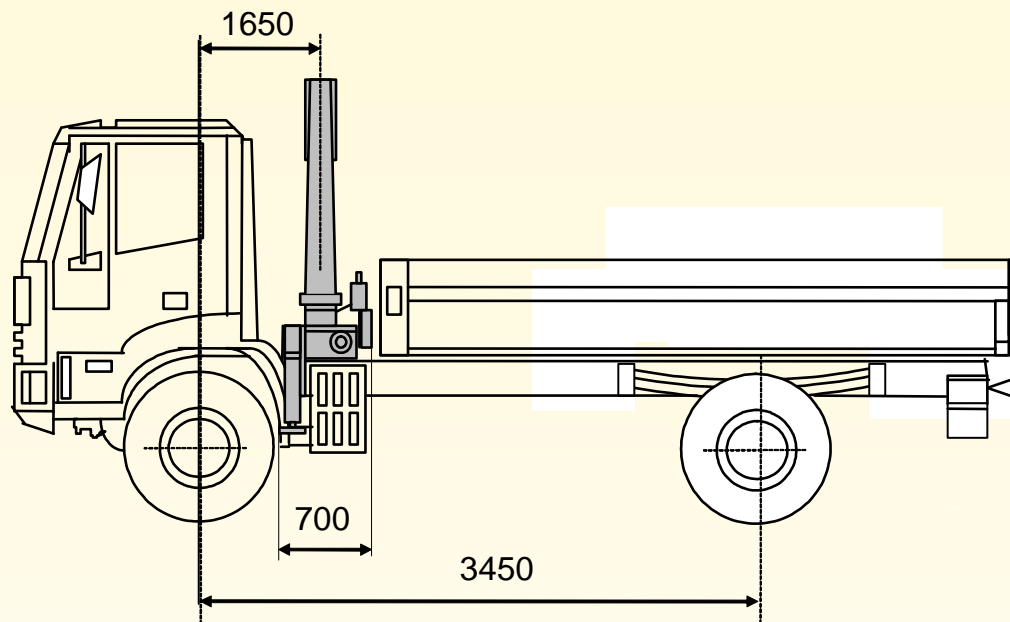
WEIGHTS – CENTER OF GRAVITY



HB50	F [kg]	G [kg]	Xg [m]	P [kg]	Xp [m]	Gb [kg]	Ks	TL [kg]
E1 	STD: 383 EX : 403 SE : 487	210	2,06	950	4,98	87	1.2	1188
E2 		253	2,61	680	6,43	103		850
E3 		294	3,18	510	7,88	119		638

HB50 TECHNICAL SHEET

MIN TRUCK WITH SUPPLEMENTARY STABILIZERS



GVW = 6.5 ton

CHASSIS DATA

Front axle

Front axle tare weight = 1435 kg

Allowable front axle weight = 2300 kg

Rear axle

Rear axle tare weight = 795 kg

OUTFIT WEIGHTS

Body weight = 300 kg

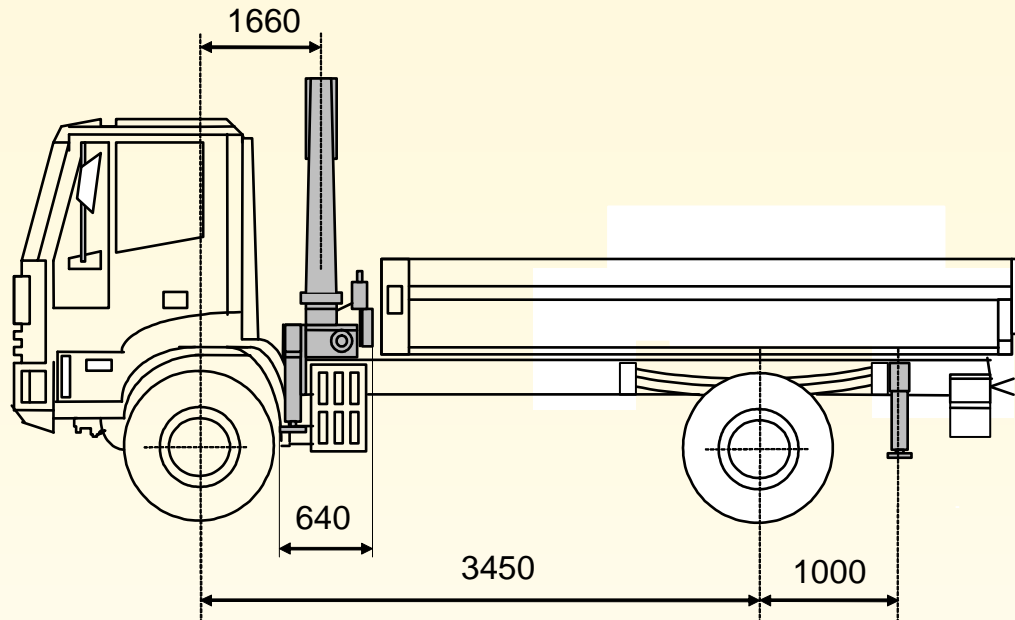
Crane weight = 792 kg (HB50 E3 XXL)

Counterframe weight = 120 kg

Stability index = 1.4

HB50 TECHNICAL SHEET

MIN TRUCK WITH SUPPLEMENTARY STABILIZERS



GVW = 6.5 ton

CHASSIS DATA

Front axle

Front axle tare weight = 1435 kg
Allowable front axle weight = 2300 kg

Rear axle

Rear axle tare weight = 795 kg

OUTFIT WEIGHTS

Body weight = 200 kg
Crane weight = 708 kg (HB50 E3 EXT)
Counterframe weight = 200 kg

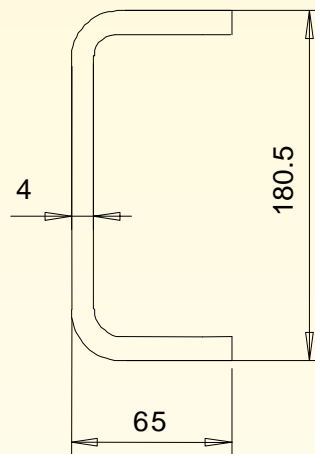
Rear beam stabilizers

Min. width = 2860 mm
Rear stabilizer weight = 130 kg

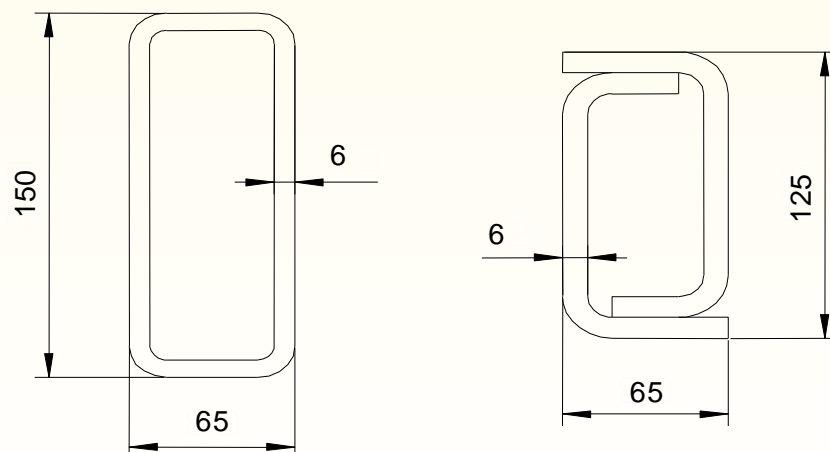
Stability index = 1.39

Max dynamic moment [daNm]	6112
----------------------------------	------

Min frame section (truck GVW = 6.5 ton ; steel S355)



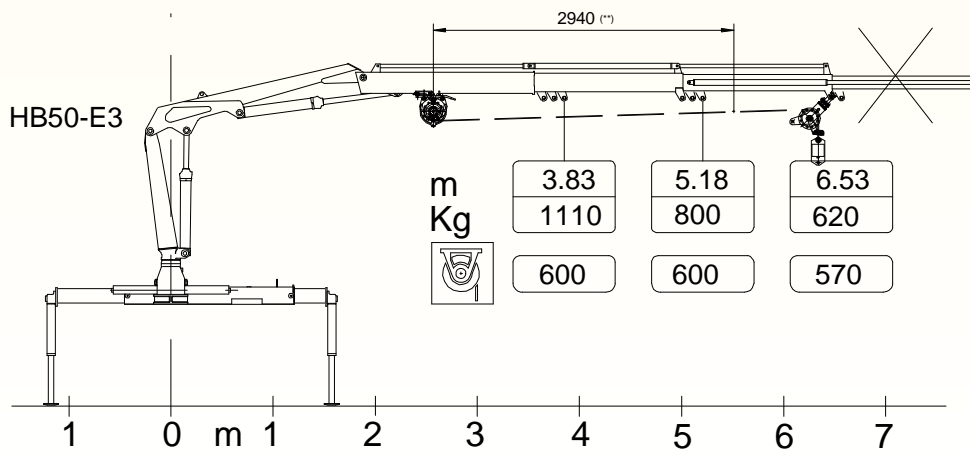
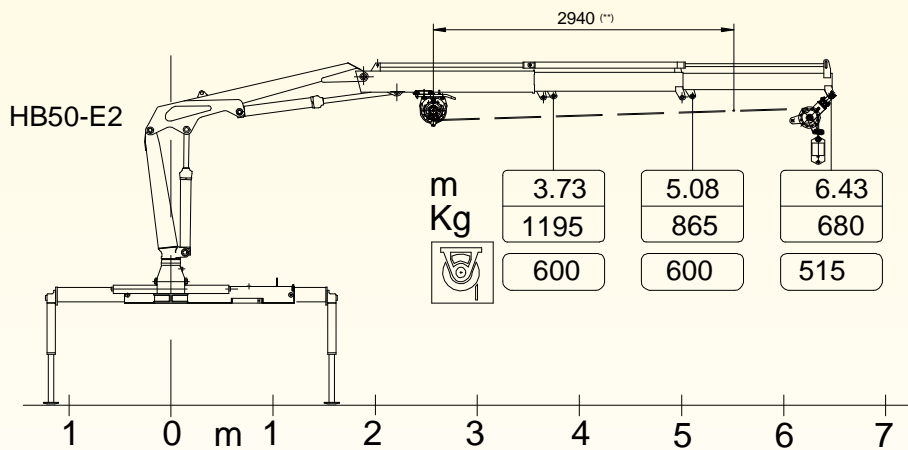
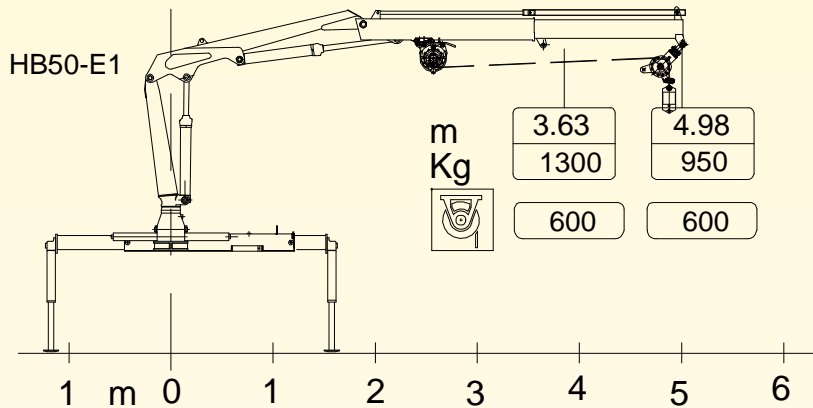
Min counterframe section (steel S355)



Min truck frame that does not need a counterframe (W_{min}) [cm³]	130
--	-----

CRANE E1 - E2

Max winch direct pull [kg]	600
----------------------------	-----



(**) = Min distance for using the winch
 (**) = Min Abstand für Benutzung der Winde

Max allowable weight [kg]	150
Max working pressure [bar]	250
THE CAPACITIES OF THE ACTIVATED CRANES (FOR GRAB OR BUCKET) ARE DERATED BY 30% RESPECT TO THE STANDARD CRANES	

