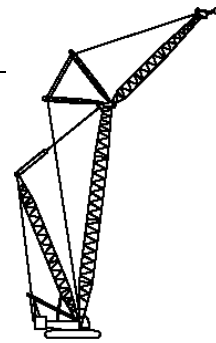


Liftcrane Luffing Jib Capacities

Luffing Jib No. 59 On Boom No. 58 HL
with 30,0 m Mast No. 59A
150 590 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating



16000 SERIES 3 With Mast



LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Luffing Jib Backward Stability: Capacities indicated by (b) require 4 310 kg minimum weight suspended beneath luffing jib point. Capacities indicated by (c) require 7 260 kg minimum weight suspended beneath luffing jib point. **Caution: Do not luff into areas indicated by (b) or (c) without required minimum weights.** Luffing jib will not luff down and luffing hoist wire rope may overhaul luffing jib and cause luffing hoist to go slack causing wire rope damage or failure.

Upper luffing jib point capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 kg with two part whip line. In all cases, upper luffing jib point capacities cannot exceed those listed for main luffing jib capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc. beneath boom and luffing jib point sheaves is considered part of luffing jib load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate on a firm uniformly supporting surface with mast up and bearing turntable level within a tolerance of 13 mm in 3 m and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to luffing jib assembly **No. A13416**, Wire Rope Specification chart **No. 8771-A**, Counterweight Arrangement chart **No. 8682-A**, Luffing Jib Raising Procedure chart **No. 8761-A**, and Wind Conditions chart **No. 8688-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse

operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Refer to Swing and Travel Specification chart **No. 8762-A**.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.

BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts.

LUFFING JIB ANGLE: Luffing jib angle in degrees (°) is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

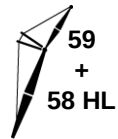
LUFFING JIB POINT ELEVATION: Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

MACHINE EQUIPMENT: Machine equipped with 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 30,0 m mast, 12 part boom hoist reeving, boom support straps, 17 part luffing jib hoist reeving, luffing jib and backstay support straps, 150 590 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

Boom and/or Jib Catwalks Deduct

Deduct 550 kg from capacities when boom and/or jib catwalks are attached.

Explanation of Symbols



Luffing Jib No. 59
+
Boom No. 58 Heavy Lift Top



Mast No. 59A



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Luffing Jib Length



Boom Angle
(see page 1)

Explanation of Symbols (continued)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



Luffing Jib Point Elevation
(see page 1)



Lifting Capacities
(see page 1)

REFERENCE
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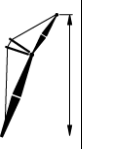
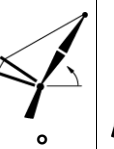
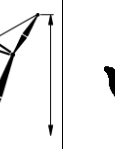
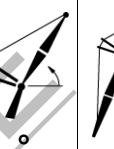
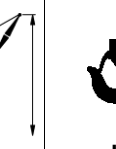
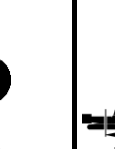
150 590 kg
+
54 430 kg



42,0 m



24,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
13,7	71,6	67,5	185 400 *c							13,7
14,0	70,9	67,4	181 300 c							14,0
16,0	65,7	66,5	153 400 b							16,0
18,0	60,2	65,4	130 600 b	66,2	66,3	126 900 b				18,0
20,0	54,4	64,0	113 800	60,8	65,3	110 300 b	66,7	66,1	107 000 b	20,0
22,0	48,1	62,3	100 600	55,0	63,9	97 500	61,3	65,0	94 400 b	22,0
24,0	41,1	60,2	89 900	48,8	62,2	87 200	55,6	63,7	84 500	24,0
26,0	32,8	57,3	81 200	41,9	60,1	78 700	49,4	62,0	76 300	26,0
28,0	21,6	53,1	73 700	33,7	57,4	71 600	42,6	60,0	69 400	28,0
30,0				23,0	53,4	65 500	34,6	57,3	63 500	30,0
32,0							24,3	53,5	58 400	32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0										42,0
44,0										44,0



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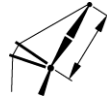
16000 S-3



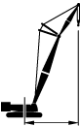
150 590 kg
+
54 430 kg

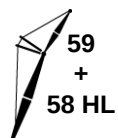


42,0 m



24,0 m

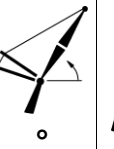
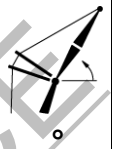
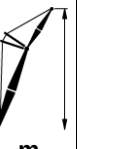
	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
13,7										13,7
14,0										14,0
16,0										16,0
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0	60,2	63,9	72 200 b							26,0
28,0	54,4	62,5	65 700							28,0
30,0	48,1	60,8	60 100							30,0
32,0	41,1	58,6	55 300	52,9	60,9	52 200				32,0
34,0	32,8	55,8	51 200	46,5	59,1	48 300				34,0
36,0	21,6	51,5	47 400	39,2	56,8	44 800				36,0
38,0				30,4	53,7	41 700	44,4	57,0	39 300	38,0
40,0							36,7	54,5	36 700	40,0
42,0							27,2	51,0	34 300	42,0
44,0							11,1	44,6	32 100	44,0



42,0 m

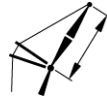


30,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
15,2	72,4	73,3	163 300 b							15,2
16,0	70,8	73,0	153 400 b							16,0
18,0	66,7	72,2	130 400 b							18,0
20,0	62,4	71,2	113 600	67,1	72,0	110 000 b				20,0
22,0	57,9	70,0	100 300	62,8	71,0	97 200				22,0
24,0	53,2	68,5	89 800	58,4	69,8	86 900	63,3	70,8	84 200	24,0
26,0	48,1	66,8	81 100	53,7	68,4	78 500	58,8	69,6	75 900	26,0
28,0	42,6	64,7	73 800	48,7	66,7	71 500	54,2	68,2	69 100	28,0
30,0	36,4	62,2	67 600	43,2	64,7	65 500	49,2	66,5	63 300	30,0
32,0	29,1	58,8	62 300	37,1	62,2	60 300	43,8	64,5	58 300	32,0
34,0	19,1	54,0	57 600	29,9	59,0	55 800	37,7	62,1	54 000	34,0
36,0				20,4	54,4	51 800	30,7	59,0	50 100	36,0
38,0							21,5	54,6	46 700	38,0
40,0										40,0
42,0										42,0
44,0										44,0
46,0										46,0
48,0										48,0
50,0										50,0



42,0 m



30,0 m

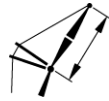
	75°			70°			65°			
m	m	m	kg	m	m	kg	m	m	kg	m
15,2										15,2
16,0										16,0
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0	57,9	68,4	59 800							30,0
32,0	53,2	67,0	55 000							32,0
34,0	48,1	65,3	50 900	56,8	66,9	47 900				34,0
36,0	42,6	63,2	47 300	52,0	65,4	44 400				36,0
38,0	36,4	60,6	44 100	46,8	63,6	41 400				38,0
40,0	29,1	57,3	41 200	41,2	61,4	38 700	50,5	63,4	36 300	40,0
42,0	19,1	52,5	38 600	34,8	58,7	36 300	45,2	61,5	34 000	42,0
44,0				27,0	55,2	34 100	39,3	59,2	31 900	44,0
46,0							32,6	56,3	30 000	46,0
48,0							24,1	52,3	28 300	48,0
50,0							9,7	45,0	26 500	50,0



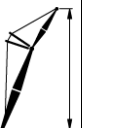
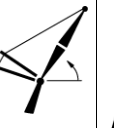
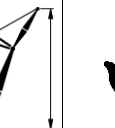
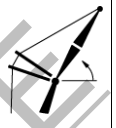
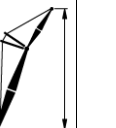
150 590 kg
+
54 430 kg



42,0 m

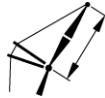


36,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8	72,8	79,1	143 000 b							16,8
18,0	70,8	78,7	130 200 b							18,0
20,0	67,3	77,9	113 100							20,0
22,0	63,8	76,9	99 900	67,7	77,7	96 800				22,0
24,0	60,1	75,8	89 400	64,2	76,8	86 400				24,0
26,0	56,3	74,5	80 700	60,5	75,7	78 000	64,5	76,5	75 300	26,0
28,0	52,4	73,0	73 400	56,8	74,4	71 000	60,9	75,4	68 500	28,0
30,0	48,2	71,3	67 300	52,8	72,9	65 000	57,1	74,1	62 700	30,0
32,0	43,6	69,2	62 000	48,6	71,2	59 900	53,2	72,7	57 800	32,0
34,0	38,7	66,8	57 400	44,1	69,2	55 400	49,0	71,0	53 500	34,0
36,0	33,0	63,9	53 300	39,2	66,8	51 500	44,6	69,0	49 700	36,0
38,0	26,4	60,2	49 700	33,7	64,0	48 000	39,7	66,7	46 300	38,0
40,0	17,3	54,9	46 400	27,1	60,4	44 900	34,2	63,9	43 300	40,0
42,0				18,5	55,3	42 100	27,8	60,4	40 600	42,0
44,0							19,5	55,6	38 100	44,0
46,0										46,0
48,0										48,0
50,0										50,0
52,0										52,0
54,0										54,0



42,0 m

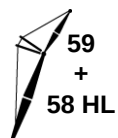


36,0 m

	75°			70°			65°			
	m	m	kg	m	m	kg	m	m	kg	m
16,8										16,8
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0	60,1	74,3	54 300							32,0
34,0	56,3	73,0	50 200							34,0
36,0	52,4	71,5	46 700							36,0
38,0	48,1	69,7	43 500							38,0
40,0	43,6	67,7	40 700	51,4	69,9	38 100				40,0
42,0	38,7	65,3	38 100	47,1	68,1	35 700				42,0
44,0	33,0	62,4	35 900	42,4	66,0	33 500	50,1	67,9	31 200	44,0
46,0	26,4	58,7	33 700	37,3	63,5	31 500	45,7	66,0	29 400	46,0
48,0	17,3	53,4	31 800	31,5	60,4	29 800	41,0	63,8	27 700	48,0
50,0				24,5	56,4	28 100	35,7	61,1	26 200	50,0
52,0							29,6	57,8	24 700	52,0
54,0							21,9	53,4	23 400	54,0

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150 590 kg
+
54 430 kg



42,0 m

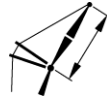


42,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
18,3	73,2	84,9	126 800 b							18,3
20,0	70,7	84,3	112 700							20,0
22,0	67,8	83,6	99 500							22,0
24,0	64,8	82,6	88 900	68,1	83,4	86 000				24,0
26,0	61,7	81,6	80 300	65,1	82,5	77 500				26,0
28,0	58,5	80,4	73 000	62,0	81,4	70 500	65,4	82,2	68 100	28,0
30,0	55,2	79,0	66 900	58,9	80,2	64 600	62,3	81,2	62 200	30,0
32,0	51,8	77,5	61 600	55,6	78,9	59 500	59,2	80,0	57 300	32,0
34,0	48,2	75,7	57 000	52,1	77,4	55 000	55,9	78,7	53 000	34,0
36,0	44,3	73,7	53 000	48,5	75,7	51 100	52,5	77,2	49 300	36,0
38,0	40,2	71,4	49 400	44,7	73,7	47 700	48,9	75,5	45 900	38,0
40,0	35,6	68,8	46 200	40,6	71,4	44 600	45,1	73,5	43 000	40,0
42,0	30,5	65,6	43 400	36,1	68,8	41 800	41,0	71,3	40 300	42,0
44,0	24,3	61,5	40 800	31,0	65,7	39 300	36,6	68,7	37 900	44,0
46,0	15,9	55,7	38 400	25,0	61,7	37 100	31,5	65,6	35 700	46,0
48,0				17,0	56,2	34 900	25,6	61,8	33 600	48,0
50,0							17,9	56,5	31 800	50,0
52,0										52,0
54,0										54,0
56,0										56,0
58,0										58,0
60,0										60,0



42,0 m



42,0 m

	75°			70°			65°			
m	m	m	kg	m	m	kg	m	m	kg	m
18,3										18,3
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0	61,7	80,1	49 700							34,0
36,0	58,5	78,9	46 100							36,0
38,0	55,2	77,5	43 000							38,0
40,0	51,8	76,0	40 200							40,0
42,0	48,2	74,2	37 700	54,4	75,9	35 100				42,0
44,0	44,3	72,2	35 400	50,9	74,4	33 000				44,0
46,0	40,2	69,9	33 300	47,2	72,6	31 000				46,0
48,0	35,6	67,3	31 500	43,3	70,5	29 300	49,8	72,3	27 100	48,0
50,0	30,5	64,1	29 700	39,1	68,1	27 700	46,1	70,5	25 600	50,0
52,0	24,3	60,0	28 100	34,4	65,3	26 200	42,1	68,3	24 200	52,0
54,0	15,9	54,2	26 600	29,1	62,0	24 800	37,7	65,8	22 900	54,0
56,0				22,5	57,6	23 500	32,9	62,9	21 700	56,0
58,0							27,2	59,3	20 600	58,0
60,0							20,1	54,5	19 500	60,0

16000 S-3

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150 590 kg
+
54 430 kg



42,0 m

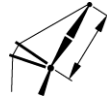


48,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
19,8	73,5	90,7	113 600							19,8
20,0	73,2	90,7	112 300							20,0
22,0	70,7	90,0	99 000							22,0
24,0	68,1	89,2	88 500							24,0
26,0	65,5	88,3	79 800							26,0
28,0	62,9	87,3	72 500	68,4	89,1	76 900				28,0
30,0	60,1	86,2	66 400	65,8	88,2	69 900				30,0
32,0	57,3	84,9	61 100	63,1	87,2	64 000	66,1	87,9	61 700	32,0
34,0	54,4	83,5	56 500	60,4	86,1	58 900	63,4	86,9	56 700	34,0
36,0	51,3	81,9	52 500	57,6	84,8	54 500	60,7	85,8	52 400	36,0
38,0	48,2	80,2	49 000	54,7	83,4	50 600	57,9	84,6	48 600	38,0
40,0	44,8	78,2	45 800	51,7	81,9	47 100	55,0	83,2	45 300	40,0
42,0	41,3	76,0	42 900	48,5	80,1	44 100	52,0	81,6	42 400	42,0
44,0	37,4	73,5	40 400	45,2	78,2	41 300	48,8	79,9	39 700	44,0
46,0	33,2	70,6	38 100	41,6	76,0	38 800	45,5	78,0	37 300	46,0
48,0	28,4	67,1	35 900	37,8	73,5	36 600	42,0	75,8	35 100	48,0
50,0	22,6	62,7	33 900	33,6	70,6	34 500	38,2	73,4	33 100	50,0
52,0	14,8	56,5	32 100	28,9	67,2	32 600	34,1	70,6	31 300	52,0
54,0				23,3	63,0	30 900	29,4	67,2	29 600	54,0
56,0				15,8	57,0	29 300	23,9	63,0	28 100	56,0
58,0							16,7	57,3	26 600	58,0
60,0										60,0
62,0										62,0
64,0										64,0
66,0										66,0



42,0 m



48,0 m

	75°			70°			65°			
19,8										19,8
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0	60,1	84,7	42 300							38,0
40,0	57,3	83,4	39 500							40,0
42,0	54,4	82,0	37 000							42,0
44,0	51,3	80,4	34 800							44,0
46,0	48,2	78,7	32 700	53,6	80,4	30 300				46,0
48,0	44,8	76,7	30 800	50,6	78,8	28 600				48,0
50,0	41,3	74,5	29 100	47,4	77,0	27 000				50,0
52,0	37,4	72,0	27 600	44,0	75,0	25 500	49,6	76,8	23 500	52,0
54,0	33,2	69,1	26 100	40,3	72,7	24 100	46,3	74,9	22 200	54,0
56,0	28,4	65,6	24 800	36,4	70,1	22 900	42,9	72,9	21 000	56,0
58,0	22,6	61,2	23 500	32,1	67,1	21 700	39,2	70,5	19 900	58,0
60,0	14,8	55,0	22 300	27,1	63,4	20 600	35,1	67,7	18 900	60,0
62,0				21,0	58,7	19 500	30,6	64,5	17 900	62,0
64,0				12,1	51,5	18 500	25,4	60,6	17 000	64,0
66,0							18,8	55,5	16 100	66,0

16000 S-3

ANSI B30.5



150 590 kg
+
54 430 kg



42,0 m

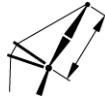


54,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
21,3	73,7	96,6	96 700 *							21,3
22,0	72,9	96,4	95 400							22,0
24,0	70,7	95,7	88 500							24,0
26,0	68,4	94,9	79 300							26,0
28,0	66,1	94,0	72 100	68,6	94,7	69 500				28,0
30,0	63,7	93,0	65 900	66,3	93,8	63 500				30,0
32,0	61,3	92,0	60 700	64,0	92,9	58 400	66,6	93,6	56 100	32,0
34,0	58,9	90,8	56 100	61,6	91,8	54 000	64,2	92,6	51 800	34,0
36,0	56,3	89,5	52 100	59,1	90,6	50 100	61,8	91,6	48 100	36,0
38,0	53,7	88,0	48 500	56,6	89,3	46 700	59,4	90,4	44 800	38,0
40,0	51,0	86,4	45 400	54,0	87,9	43 600	56,8	89,1	41 800	40,0
42,0	48,2	84,7	42 500	51,3	86,3	40 900	54,2	87,7	39 200	42,0
44,0	45,2	82,7	40 000	48,5	84,6	38 400	51,5	86,1	36 800	44,0
46,0	42,1	80,6	37 700	45,5	82,7	36 200	48,7	84,4	34 600	46,0
48,0	38,8	78,2	35 600	42,4	80,6	34 100	45,8	82,5	32 700	48,0
50,0	35,2	75,4	33 600	39,1	78,2	32 200	42,7	80,4	30 900	50,0
52,0	31,2	72,2	31 800	35,5	75,5	30 500	39,4	78,0	29 200	52,0
54,0	26,7	68,5	30 200	31,6	72,3	28 900	35,9	75,3	27 700	54,0
56,0	21,3	63,8	28 600	27,2	68,7	27 400	32,0	72,3	26 300	56,0
58,0				21,9	64,1	26 100	27,6	68,7	24 900	58,0
60,0				14,9	57,8	24 800	22,5	64,2	23 700	60,0
62,0							15,7	58,2	22 500	62,0
64,0										64,0
66,0										66,0
68,0										68,0
70,0										70,0
72,0										72,0



42,0 m



54,0 m

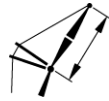
	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
21,3										21,3
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0	61,3	90,4	38 900							40,0
42,0	58,9	89,3	36 400							42,0
44,0	56,3	87,9	34 200							44,0
46,0	53,7	86,5	32 200							46,0
48,0	51,0	84,9	30 300	55,7	86,4	28 000				48,0
50,0	48,2	83,2	28 600	53,0	84,9	26 400				50,0
52,0	45,2	81,2	27 100	50,3	83,3	25 000				52,0
54,0	42,1	79,1	25 600	47,5	81,5	23 600				54,0
56,0	38,8	76,6	24 300	44,5	79,5	22 400	49,5	81,3	20 400	56,0
58,0	35,2	73,9	23 000	41,3	77,3	21 200	46,6	79,4	19 400	58,0
60,0	31,2	70,7	21 900	37,9	74,8	20 100	43,5	77,4	18 400	60,0
62,0	26,7	67,0	20 800	34,2	72,0	19 100	40,3	75,1	17 400	62,0
64,0	21,3	62,3	19 800	30,1	68,7	18 100	36,8	72,5	16 500	64,0
66,0	13,9	55,7	18 800	25,5	64,8	17 200	33,0	69,5	15 700	66,0
68,0				19,7	59,7	16 400	28,8	66,1	14 900	68,0
70,0				11,4	52,1	15 500	23,9	61,9	14 100	70,0
72,0							17,6	56,4	13 400	72,0



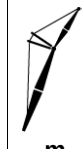
150 590 kg
+
54 430 kg



42,0 m

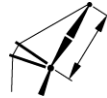


60,0 m

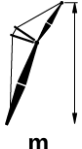
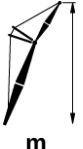
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
22,9	73,8	102,4	79 900 *							22,9
24,0	72,7	102,0	79 700 *							24,0
26,0	70,7	101,3	79 000							26,0
28,0	68,6	100,6	71 500							28,0
30,0	66,5	99,7	65 400							30,0
32,0	64,4	98,7	60 100	68,8	100,4	62 900				32,0
34,0	62,3	97,7	55 500	66,8	99,5	57 800				34,0
36,0	60,1	96,6	51 500	64,7	98,6	53 300	67,0	99,2	51 200	36,0
38,0	57,8	95,3	48 000	62,5	97,6	49 500	64,9	98,3	47 400	38,0
40,0	55,5	94,0	44 800	60,3	96,4	46 100	62,7	97,3	44 100	40,0
42,0	53,2	92,5	42 000	58,1	95,2	43 000	60,5	96,2	41 200	42,0
44,0	50,7	90,9	39 400	55,8	93,9	40 300	58,3	95,0	38 600	44,0
46,0	48,2	89,1	37 100	53,4	92,4	37 800	56,0	93,6	36 200	46,0
48,0	45,5	87,2	35 000	51,0	90,8	35 600	53,6	92,2	34 000	48,0
50,0	42,7	85,1	33 100	48,4	89,1	33 500	51,2	90,6	32 100	50,0
52,0	39,8	82,8	31 300	45,8	87,2	31 700	48,7	88,9	30 300	52,0
54,0	36,7	80,2	29 700	43,0	85,1	30 000	46,1	87,0	28 700	54,0
56,0	33,3	77,2	28 200	40,1	82,8	28 400	43,3	84,9	27 100	56,0
58,0	29,5	73,8	26 700	37,0	80,2	26 900	40,4	82,6	25 700	58,0
60,0	25,2	69,8	25 400	33,6	77,3	25 600	37,3	80,1	24 400	60,0
62,0	20,1	64,9	24 200	29,9	73,9	24 300	34,0	77,2	23 200	62,0
64,0	13,2	57,8	23 000	25,7	70,0	23 100	30,3	73,9	22 000	64,0
66,0				20,7	65,2	22 000	26,2	70,1	21 000	66,0
68,0				14,0	58,5	20 900	21,3	65,3	19 900	68,0
70,0							14,8	58,9	19 000	70,0
72,0										72,0
74,0										74,0
76,0										76,0
78,0										78,0



42,0 m



60,0 m

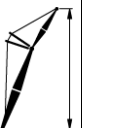
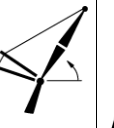
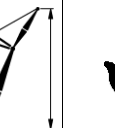
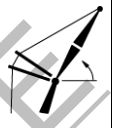
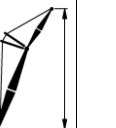
	75°			70°			65°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
22,9										22,9
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0										42,0
44,0	60,1	95,1	33 500							44,0
46,0	57,8	93,8	31 500							46,0
48,0	55,5	92,5	29 600							48,0
50,0	53,2	91,0	27 900							50,0
52,0	50,7	89,4	26 400	55,0	90,9	24 200				52,0
54,0	48,2	87,6	25 000	52,6	89,4	22 900				54,0
56,0	45,5	85,7	23 700	50,1	87,8	21 600				56,0
58,0	42,7	83,6	22 400	47,5	86,0	20 500	51,8	87,4	18 600	58,0
60,0	39,8	81,2	21 300	44,8	84,0	19 400	49,3	85,8	17 600	60,0
62,0	36,7	78,6	20 200	42,0	81,8	18 400	46,7	83,9	16 700	62,0
64,0	33,3	75,7	19 200	39,0	79,4	17 500	44,0	81,9	15 800	64,0
66,0	29,5	72,3	18 300	35,8	76,8	16 600	41,1	79,7	15 000	66,0
68,0	25,2	68,3	17 400	32,4	73,7	15 800	38,1	77,2	14 200	68,0
70,0	20,1	63,4	16 500	28,5	70,2	15 000	34,8	74,4	13 500	70,0
72,0	13,1	56,3	15 700	24,1	66,0	14 200	31,2	71,2	12 800	72,0
74,0				18,7	60,7	13 500	27,2	67,5	12 100	74,0
76,0				10,7	52,7	12 800	22,6	63,1	11 500	76,0
78,0							16,7	57,2	10 900	78,0



42,0 m

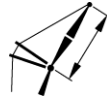


66,0 m

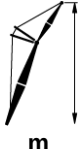
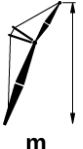
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
24,4	74,0	108,2	66 800 *							24,4
26,0	72,5	107,7	66 500 *							26,0
28,0	70,7	107,0	66 000 *							28,0
30,0	68,8	106,2	64 400							30,0
32,0	66,9	105,4	59 500	69,0	106,0	57 100				32,0
34,0	65,0	104,4	54 900	67,1	105,2	52 700				34,0
36,0	63,1	103,4	50 900	65,2	104,3	48 800				36,0
38,0	61,1	102,4	47 400	63,3	103,3	45 400	65,4	104,0	43 500	38,0
40,0	59,1	101,2	44 200	61,3	102,2	42 400	63,5	103,0	40 500	40,0
42,0	57,0	99,9	41 400	59,3	101,0	39 600	61,5	101,9	37 900	42,0
44,0	54,9	98,5	38 800	57,2	99,8	37 200	59,5	100,8	35 500	44,0
46,0	52,7	97,0	36 500	55,1	98,4	34 900	57,4	99,5	33 400	46,0
48,0	50,5	95,4	34 400	52,9	96,9	32 900	55,3	98,2	31 400	48,0
50,0	48,2	93,6	32 500	50,7	95,3	31 000	53,2	96,7	29 600	50,0
52,0	45,8	91,7	30 700	48,4	93,6	29 300	50,9	95,1	28 000	52,0
54,0	43,3	89,6	29 100	46,0	91,7	27 800	48,6	93,3	26 500	54,0
56,0	40,6	87,3	27 600	43,5	89,6	26 300	46,3	91,5	25 100	56,0
58,0	37,8	84,8	26 200	40,9	87,3	25 000	43,8	89,4	23 800	58,0
60,0	34,9	82,1	24 900	38,1	84,8	23 700	41,2	87,2	22 500	60,0
62,0	31,6	78,9	23 700	35,2	82,1	22 500	38,4	84,7	21 400	62,0
64,0	28,1	75,3	22 500	32,0	79,0	21 500	35,5	82,0	20 400	64,0
66,0	24,0	71,1	21 400	28,5	75,5	20 400	32,3	78,9	19 400	66,0
68,0	19,2	65,9	20 400	24,5	71,3	19 400	28,8	75,5	18 400	68,0
70,0	12,5	58,5	19 400	19,7	66,2	18 500	24,9	71,4	17 500	70,0
72,0				13,4	59,2	17 600	20,2	66,4	16 700	72,0
74,0										74,0
76,0										76,0
78,0										78,0
80,0										80,0
82,0										82,0
84,0										84,0



42,0 m



66,0 m

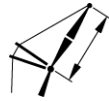
	75°			70°			65°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
24,4										24,4
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0										42,0
44,0										44,0
46,0	61,1	100,8	30 800							46,0
48,0	59,1	99,7	28 900							48,0
50,0	57,0	98,4	27 300							50,0
52,0	54,9	97,0	25 700							52,0
54,0	52,7	95,5	24 300	56,5	96,8	22 200				54,0
56,0	50,5	93,9	23 000	54,4	95,4	20 900				56,0
58,0	48,2	92,1	21 800	52,2	93,9	19 800				58,0
60,0	45,8	90,2	20 600	49,9	92,2	18 700				60,0
62,0	43,3	88,1	19 600	47,6	90,5	17 700	51,5	91,9	15 900	62,0
64,0	40,6	85,8	18 600	45,2	88,5	16 800	49,2	90,2	15 100	64,0
66,0	37,8	83,3	17 600	42,6	86,4	15 900	46,9	88,4	14 200	66,0
68,0	34,9	80,5	16 700	40,0	84,0	15 100	44,4	86,4	13 500	68,0
70,0	31,6	77,4	15 900	37,1	81,5	14 300	41,8	84,2	12 800	70,0
72,0	28,1	73,8	15 100	34,1	78,6	13 600	39,1	81,8	12 100	72,0
74,0	24,0	69,6	14 400	30,8	75,4	12 900	36,2	79,1	11 400	74,0
76,0	19,2	64,4	13 700	27,1	71,7	12 300	33,1	76,2	10 800	76,0
78,0	12,5	57,0	13 000	22,9	67,2	11 600	29,7	72,8	10 300	78,0
80,0				17,8	61,6	11 000	25,9	68,9	9 700	80,0
82,0				10,2	53,2	10 400	21,5	64,2	9 100	82,0
84,0							15,9	58,0	8 600	84,0



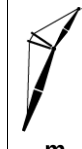
150 590 kg
+
54 430 kg



42,0 m



72,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
27,4	72,8	113,5	55 600 *							27,4
28,0	72,3	113,3	55 400 *							28,0
30,0	70,6	112,6	55 000 *							30,0
32,0	68,9	111,9	54 500 *	70,8	112,4	53 400 *				32,0
34,0	67,2	111,0	53 700	69,1	111,7	52 500				34,0
36,0	65,5	110,1	50 500	67,4	110,9	48 200				36,0
38,0	63,7	109,2	46 800	65,7	110,0	44 800				38,0
40,0	61,9	108,1	43 700	63,9	109,0	41 800	65,8	109,7	39 900	40,0
42,0	60,1	107,0	40 800	62,1	108,0	39 100	64,1	108,7	37 200	42,0
44,0	58,2	105,7	38 300	60,3	106,8	36 600	62,3	107,7	34 900	44,0
46,0	56,3	104,4	36 000	58,4	105,6	34 300	60,4	106,6	32 700	46,0
48,0	54,3	103,0	33 900	56,5	104,3	32 300	58,6	105,4	30 800	48,0
50,0	52,3	101,5	32 000	54,6	102,9	30 500	56,7	104,1	29 000	50,0
52,0	50,3	99,8	30 200	52,6	101,4	28 800	54,7	102,7	27 400	52,0
54,0	48,2	98,1	28 600	50,5	99,8	27 200	52,8	101,2	25 900	54,0
56,0	46,0	96,2	27 100	48,4	98,0	25 800	50,7	99,6	24 500	56,0
58,0	43,7	94,1	25 700	46,2	96,1	24 400	48,6	97,8	23 200	58,0
60,0	41,3	91,9	24 400	43,9	94,1	23 200	46,4	95,9	22 000	60,0
62,0	38,8	89,5	23 200	41,6	91,9	22 000	44,2	93,9	20 800	62,0
64,0	36,1	86,8	22 000	39,1	89,5	20 900	41,8	91,7	19 800	64,0
66,0	33,3	83,8	21 000	36,4	86,8	19 900	39,3	89,3	18 800	66,0
68,0	30,2	80,5	20 000	33,6	83,9	18 900	36,7	86,7	17 900	68,0
70,0	26,8	76,8	19 000	30,6	80,6	18 000	33,9	83,8	17 000	70,0
72,0	23,0	72,3	18 100	27,2	76,9	17 200	30,9	80,6	16 200	72,0
74,0	18,3	66,8	17 300	23,4	72,6	16 300	27,5	76,9	15 400	74,0
76,0	11,9	59,1	16 400	18,8	67,2	15 500	23,8	72,6	14 600	76,0
78,0				12,8	59,8	14 800	19,3	67,4	13 900	78,0
80,0										80,0
82,0										82,0
84,0										84,0
86,0										86,0
88,0										88,0



42,0 m



72,0 m

	 75°			 70°			
	 m	 m	 kg	 m	 m	 kg	
27,4							27,4
28,0							28,0
30,0							30,0
32,0							32,0
34,0							34,0
36,0							36,0
38,0							38,0
40,0							40,0
42,0							42,0
44,0							44,0
46,0							46,0
48,0	61,9	106,6	28 300				48,0
50,0	60,1	105,4	26 600				50,0
52,0	58,2	104,2	25 000				52,0
54,0	56,3	102,9	23 600				54,0
56,0	54,3	101,5	22 300				56,0
58,0	52,3	100,0	21 100	55,8	101,4	19 100	58,0
60,0	50,3	98,3	20 000	53,9	99,9	18 000	60,0
62,0	48,2	96,6	18 900	51,8	98,4	17 000	62,0
64,0	46,0	94,7	17 900	49,8	96,7	16 100	64,0
66,0	43,7	92,6	17 000	47,6	94,9	15 300	66,0
68,0	41,3	90,4	16 200	45,4	93,0	14 500	68,0
70,0	38,8	87,9	15 300	43,1	90,9	13 700	70,0
72,0	36,1	85,3	14 600	40,7	88,6	13 000	72,0
74,0	33,3	82,3	13 800	38,2	86,1	12 300	74,0
76,0	30,2	79,0	13 100	35,5	83,4	11 600	76,0
78,0	26,8	75,2	12 500	32,6	80,4	11 000	78,0
80,0	23,0	70,8	11 800	29,4	76,9	10 400	80,0
82,0	18,3	65,3	11 200	25,9	73,0	9 900	82,0
84,0	11,9	57,6	10 600	21,9	68,4	9 300	84,0
86,0				17,0	62,5	8 800	86,0
88,0				9,7	53,7	8 300	88,0

16000 S-3

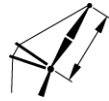
ANSI B30.5



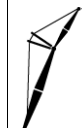
150 590 kg
+
54 430 kg



42,0 m

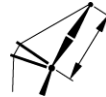


78,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
29,0	73,0	119,3	46 900 *							29,0
30,0	72,2	119,0	46 700 *							30,0
32,0	70,6	118,3	46 200 *							32,0
34,0	69,1	117,5	45 800 *							34,0
36,0	67,5	116,7	45 300 *	69,2	117,4	44 600 *				36,0
38,0	65,9	115,8	44 900 *	67,6	116,5	44 100				38,0
40,0	64,2	114,9	43 300	66,0	115,7	41 200				40,0
42,0	62,6	113,8	40 300	64,4	114,7	38 500	66,2	115,4	36 700	42,0
44,0	60,9	112,7	37 800	62,8	113,7	36 100	64,6	114,4	34 300	44,0
46,0	59,2	111,6	35 500	61,1	112,6	33 800	62,9	113,4	32 200	46,0
48,0	57,5	110,3	33 400	59,4	111,4	31 800	61,3	112,3	30 200	48,0
50,0	55,7	109,0	31 500	57,7	110,2	30 000	59,6	111,2	28 500	50,0
52,0	53,9	107,5	29 700	55,9	108,8	28 200	57,8	109,9	26 800	52,0
54,0	52,0	106,0	28 000	54,1	107,4	26 700	56,1	108,6	25 300	54,0
56,0	50,1	104,3	26 600	52,2	105,9	25 200	54,3	107,2	23 900	56,0
58,0	48,2	102,6	25 200	50,3	104,2	23 900	52,4	105,7	22 600	58,0
60,0	46,2	100,7	23 900	48,4	102,5	22 700	50,5	104,0	21 400	60,0
62,0	44,1	98,6	22 700	46,4	100,6	21 500	48,6	102,3	20 300	62,0
64,0	41,9	96,4	21 500	44,3	98,6	20 400	46,6	100,4	19 300	64,0
66,0	39,6	94,1	20 500	42,1	96,4	19 400	44,5	98,4	18 300	66,0
68,0	37,2	91,5	19 500	39,8	94,1	18 400	42,3	96,3	17 300	68,0
70,0	34,7	88,7	18 600	37,5	91,5	17 500	40,1	93,9	16 500	70,0
72,0	31,9	85,6	17 700	34,9	88,7	16 700	37,7	91,4	15 700	72,0
74,0	29,0	82,1	16 800	32,2	85,7	15 900	35,2	88,6	14 900	74,0
76,0	25,7	78,1	16 000	29,3	82,2	15 100	32,5	85,6	14 200	76,0
78,0	22,0	73,5	15 300	26,1	78,3	14 400	29,6	82,2	13 500	78,0
80,0	17,6	67,7	14 600	22,4	73,7	13 700	26,4	78,3	12 800	80,0
82,0	11,4	59,7	13 800	18,1	68,2	13 000	22,8	73,8	12 200	82,0
84,0				12,2	60,5	12 400	18,5	68,4	11 600	84,0
86,0										86,0
88,0										88,0



42,0 m

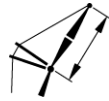


78,0 m

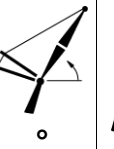
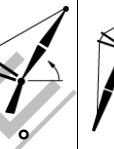
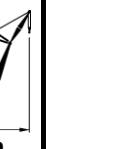
	75°		
29,0			
30,0			
32,0			
34,0			
36,0			
38,0			
40,0			
42,0			
44,0			
46,0			
48,0			
50,0			
52,0	60,9	111,2	24 400
54,0	59,2	110,1	23 000
56,0	57,5	108,8	21 700
58,0	55,7	107,4	20 500
60,0	53,9	106,0	19 400
62,0	52,0	104,5	18 300
64,0	50,1	102,8	17 400
66,0	48,2	101,1	16 400
68,0	46,1	99,2	15 600
70,0	44,1	97,1	14 800
72,0	41,9	94,9	14 000
74,0	39,6	92,6	13 300
76,0	37,2	90,0	12 600
78,0	34,7	87,2	11 900
80,0	31,9	84,1	11 300
82,0	29,0	80,6	10 700
84,0	25,7	76,6	10 200
86,0	22,0	72,0	9 600
88,0	17,6	66,2	9 100



42,0 m



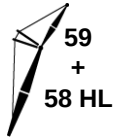
84,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
30,5	73,2	125,1	39 700 *							30,5
32,0	72,1	124,6	39 400 *							32,0
34,0	70,6	123,9	38 900 *							34,0
36,0	69,2	123,2	38 500 *							36,0
38,0	67,7	122,4	38 000 *							38,0
				69,3	123,0	37 500 *				
40,0	66,2	121,5	37 600 *	67,9	122,2	37 200 *				40,0
42,0	64,7	120,6	37 100 *	66,4	121,3	36 800 *				42,0
44,0	63,2	119,6	36 700 *	64,9	120,4	35 500	66,5	121,1	33 700	44,0
46,0	61,6	118,5	34 900	63,3	119,4	33 200	65,0	120,1	31 500	46,0
48,0	60,1	117,4	32 800	61,8	118,4	31 100	63,5	119,1	29 500	48,0
50,0	58,5	116,2	30 900	60,2	117,2	29 300	61,9	118,1	27 800	50,0
52,0	56,8	114,8	29 100	58,6	116,0	27 600	60,4	117,0	26 200	52,0
54,0	55,2	113,5	27 500	57,0	114,7	26 100	58,8	115,8	24 600	54,0
56,0	53,5	112,0	26 000	55,4	113,4	24 600	57,2	114,5	23 300	56,0
58,0	51,8	110,5	24 600	53,7	111,9	23 300	55,5	113,1	22 000	58,0
60,0	50,0	108,8	23 300	51,9	110,4	22 000	53,8	111,7	20 800	60,0
62,0	48,2	107,0	22 100	50,2	108,7	20 900	52,1	110,1	19 700	62,0
64,0	46,3	105,2	21 000	48,4	107,0	19 800	50,4	108,5	18 600	64,0
66,0	44,4	103,1	19 900	46,5	105,1	18 800	48,5	106,8	17 600	66,0
68,0	42,4	101,0	18 900	44,6	103,1	17 800	46,7	104,9	16 700	68,0
70,0	40,3	98,7	18 000	42,6	100,9	16 900	44,8	102,9	15 900	70,0
72,0	38,1	96,2	17 100	40,5	98,6	16 100	42,8	100,8	15 000	72,0
74,0	35,8	93,4	16 300	38,3	96,2	15 300	40,7	98,5	14 300	74,0
76,0	33,3	90,5	15 500	36,0	93,5	14 500	38,5	96,0	13 500	76,0
78,0	30,7	87,2	14 700	33,6	90,5	13 800	36,3	93,4	12 900	78,0
80,0	27,9	83,6	14 000	31,0	87,3	13 100	33,8	90,5	12 200	80,0
82,0	24,8	79,4	13 300	28,2	83,7	12 500	31,3	87,3	11 600	82,0
84,0	21,2	74,6	12 700	25,1	79,6	11 800	28,5	83,7	11 000	84,0
86,0	16,9	68,6	12 100	21,6	74,9	11 200	25,4	79,7	10 400	86,0
88,0	11,0	60,2	11 400	17,4	69,1	10 700	21,9	75,0	9 800	88,0
90,0				11,8	61,0	10 100	17,8	69,3	9 300	90,0



ANSI B30.5

16000 S-3



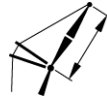
150 590 kg
+
54 430 kg



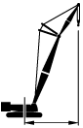
REFERENCE
ONLY!



48,0 m



24,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
13,7	72,7	73,6	175 900 *c							13,7
14,0	71,9	73,5	173 200 *c							14,0
16,0	66,8	72,7	153 200 b							16,0
18,0	61,4	71,6	130 500 b							18,0
20,0	55,7	70,3	113 600	62,8	71,7	109 500 b				20,0
22,0	49,5	68,7	100 400	57,2	70,4	96 800 b	64,2	71,5	93 400 b	22,0
24,0	42,6	66,6	89 800	51,2	68,9	86 600	58,6	70,3	83 300 b	24,0
26,0	34,7	64,0	81 000	44,5	66,9	78 200	52,7	68,9	75 300	26,0
28,0	24,4	60,1	73 700	36,9	64,4	71 100	46,3	67,0	68 500	28,0
30,0				27,4	61,0	65 100	38,9	64,7	62 700	30,0
32,0				11,6	54,7	59 700	30,1	61,6	57 700	32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0										42,0
44,0										44,0

16000 S-3

ANSI B30.5



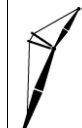
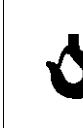
150 590 kg
+
54 430 kg



48,0 m

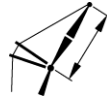


24,0 m

	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
13,7										13,7
14,0										14,0
16,0										16,0
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0	59,0	69,4	64 100 b							28,0
30,0	53,1	67,9	58 600							30,0
32,0	46,6	66,2	54 000							32,0
34,0	39,4	63,9	50 000	53,1	66,6	46 500				34,0
36,0	30,6	60,8	46 400	46,7	64,8	43 200				36,0
38,0	18,1	56,0	43 100	39,4	62,5	40 200				38,0
40,0				30,7	59,5	37 600				40,0
42,0				18,2	54,6	35 100	46,2	63,0	34 800	42,0
44,0							30,0	57,5	30 600	44,0



48,0 m



30,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
15,2	73,2	79,4	155 600 *c							15,2
16,0	71,7	79,2	149 400 c							16,0
18,0	67,5	78,4	130 700 b							18,0
20,0	63,3	77,4	113 300 b	68,6	78,3	109 200 b				20,0
22,0	58,9	76,2	100 200	64,4	77,4	96 400 b				22,0
24,0	54,2	74,8	89 600	60,0	76,3	86 300	65,5	77,2	83 000 b	24,0
26,0	49,2	73,2	81 000	55,4	74,9	77 900	61,2	76,1	74 900	26,0
28,0	43,8	71,2	73 700	50,6	73,3	70 900	56,6	74,9	68 100	28,0
30,0	37,8	68,7	67 500	45,3	71,4	65 000	51,8	73,3	62 400	30,0
32,0	30,7	65,6	62 200	39,5	69,1	59 900	46,7	71,5	57 500	32,0
34,0	21,6	61,2	57 500	32,7	66,2	55 400	41,0	69,3	53 200	34,0
36,0				24,3	62,3	51 400	34,5	66,6	49 400	36,0
38,0				10,2	55,2	47 800	26,7	63,0	46 100	38,0
40,0										40,0
42,0										42,0
44,0										44,0
46,0										46,0
48,0										48,0
50,0										50,0

16000 S-3

ANSI B30.5



150 590 kg
+
54 430 kg



48,0 m

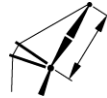


30,0 m

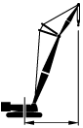
	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
15,2										15,2
16,0										16,0
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0	56,9	73,9	53 600							32,0
34,0	52,1	72,4	49 600							34,0
36,0	47,0	70,6	46 100							36,0
38,0	41,3	68,5	43 000	52,1	71,1	39 800				38,0
40,0	34,9	65,8	40 100	47,0	69,3	37 200				40,0
42,0	27,2	62,2	37 600	41,3	67,1	34 900				42,0
44,0	16,0	56,8	35 300	34,9	64,4	32 800	46,6	67,5	30 200	44,0
46,0				27,2	60,9	30 800	41,0	65,3	28 400	46,0
48,0				16,1	55,5	29 000	34,5	62,5	26 700	48,0
50,0							26,6	59,0	25 200	50,0

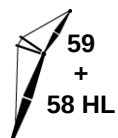


48,0 m



36,0 m

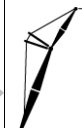
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8	73,6	85,2	138 700 *b							16,8
18,0	71,5	84,8	129 200 b							18,0
20,0	68,1	84,0	112 800							20,0
22,0	64,5	83,1	99 700	69,0	84,0	96 000 b				22,0
24,0	60,9	82,0	89 200	65,5	83,1	85 700				24,0
26,0	57,2	80,8	80 500	61,9	82,0	77 300	66,4	82,9	74 200	26,0
28,0	53,2	79,3	73 300	58,2	80,8	70 400	62,8	81,9	67 500	28,0
30,0	49,1	77,6	67 100	54,3	79,4	64 500	59,1	80,7	61 800	30,0
32,0	44,6	75,7	61 800	50,2	77,8	59 400	55,3	79,4	56 900	32,0
34,0	39,7	73,4	57 300	45,8	75,9	55 000	51,2	77,8	52 700	34,0
36,0	34,3	70,6	53 200	41,1	73,7	51 100	46,9	76,0	48 900	36,0
38,0	27,9	67,1	49 600	35,8	71,1	47 600	42,3	73,9	45 600	38,0
40,0	19,6	62,2	46 300	29,7	67,8	44 500	37,2	71,4	42 700	40,0
42,0				22,0	63,4	41 700	31,3	68,3	40 000	42,0
44,0				9,2	55,6	39 100	24,2	64,3	37 600	44,0
46,0										46,0
48,0										48,0
50,0										50,0
52,0										52,0
54,0										54,0
56,0										56,0



48,0 m

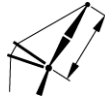


36,0 m

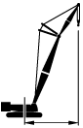
	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8										16,8
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0	63,0	80,9	52 800							32,0
34,0	59,3	79,8	48 900							34,0
36,0	55,5	78,5	45 400							36,0
38,0	51,4	76,9	42 300							38,0
40,0	47,2	75,1	39 500	55,5	77,1	36 500				40,0
42,0	42,6	73,0	37 100	51,5	75,6	34 100				42,0
44,0	37,5	70,5	34 900	47,2	73,8	32 100				44,0
46,0	31,7	67,5	32 800	42,6	71,7	30 200	51,2	73,8	27 600	46,0
48,0	24,6	63,5	30 900	37,5	69,2	28 500	46,9	72,0	26 000	48,0
50,0	14,5	57,5	29 100	31,7	66,1	26 900	42,3	69,8	24 600	50,0
52,0				24,7	62,2	25 400	37,1	67,3	23 200	52,0
54,0				14,5	56,2	24 000	31,3	64,2	22 000	54,0
56,0							24,2	60,2	20 800	56,0



48,0 m



42,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
18,3	73,8	91,1	123 700 *b							18,3
20,0	71,3	90,5	112 600							20,0
22,0	68,4	89,7	99 300							22,0
24,0	65,4	88,8	88 800	69,2	89,6	85 300				24,0
26,0	62,4	87,8	80 100	66,2	88,8	76 900				26,0
28,0	59,2	86,6	72 900	63,2	87,8	69 900	67,0	88,6	67 000	28,0
30,0	55,9	85,3	66 700	60,0	86,7	64 000	63,9	87,6	61 300	30,0
32,0	52,5	83,8	61 500	56,8	85,4	59 000	60,8	86,5	56 400	32,0
34,0	48,9	82,1	56 900	53,4	83,9	54 500	57,6	85,3	52 200	34,0
36,0	45,1	80,2	52 900	49,9	82,3	50 700	54,3	83,9	48 500	36,0
38,0	41,1	77,9	49 300	46,2	80,4	47 200	50,8	82,3	45 200	38,0
40,0	36,6	75,4	46 100	42,2	78,3	44 200	47,1	80,5	42 200	40,0
42,0	31,6	72,3	43 300	37,8	75,8	41 400	43,2	78,4	39 600	42,0
44,0	25,7	68,4	40 700	33,0	72,8	39 000	38,9	76,0	37 300	44,0
46,0	18,0	63,2	38 300	27,4	69,3	36 700	34,2	73,2	35 100	46,0
48,0				20,3	64,5	34 700	28,9	69,8	33 100	48,0
50,0				8,4	56,0	32 600	22,3	65,4	31 300	50,0
52,0										52,0
54,0										54,0
56,0										56,0
58,0										58,0
60,0										60,0
62,0										62,0
64,0										64,0

16000 S-3

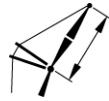
ANSI B30.5



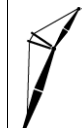
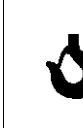
150 590 kg
+
54 430 kg



48,0 m

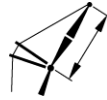


42,0 m

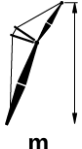
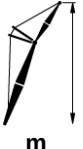
	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
18,3										18,3
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0	61,0	85,6	44 800							36,0
38,0	57,8	84,4	41 800							38,0
40,0	54,5	83,0	39 000							40,0
42,0	51,0	81,4	36 600							42,0
44,0	47,3	79,6	34 400	54,5	81,6	31 500				44,0
46,0	43,4	77,5	32 400	51,0	80,0	29 600				46,0
48,0	39,2	75,2	30 500	47,3	78,2	28 000				48,0
50,0	34,5	72,4	28 800	43,4	76,2	26 400	50,8	78,2	24 000	50,0
52,0	29,2	69,0	27 300	39,2	73,8	25 000	47,1	76,4	22 600	52,0
54,0	22,7	64,7	25 800	34,5	71,1	23 600	43,2	74,4	21 400	54,0
56,0	13,3	58,2	24 400	29,2	67,7	22 400	38,9	72,0	20 300	56,0
58,0				22,7	63,4	21 200	34,2	69,2	19 200	58,0
60,0							28,8	65,8	18 200	60,0
62,0							22,3	61,4	17 300	62,0
64,0							12,5	54,5	16 300	64,0

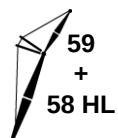


48,0 m



48,0 m

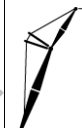
	86°			83°			80°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
19,8	74,0	96,9	106 400 *							19,8
20,0	73,8	96,8	106 000							20,0
22,0	71,2	96,1	99 600							22,0
24,0	68,7	95,4	88 200							24,0
26,0	66,1	94,5	79 600							26,0
				69,3	95,3	76 300				
28,0	63,4	93,5	72 400	66,8	94,4	69 300				28,0
30,0	60,7	92,4	66 200	64,1	93,5	63 400				30,0
32,0	57,9	91,2	61 000	61,4	92,4	58 300	64,8	93,3	55 800	32,0
34,0	55,0	89,8	56 400	58,6	91,2	53 900	62,1	92,3	51 500	34,0
36,0	52,0	88,3	52 400	55,8	89,9	50 100	59,3	91,1	47 800	36,0
38,0	48,8	86,6	48 800	52,8	88,4	46 700	56,5	89,8	44 600	38,0
40,0	45,5	84,7	45 700	49,7	86,7	43 700	53,5	88,4	41 700	40,0
42,0	42,0	82,5	42 800	46,4	84,9	40 900	50,5	86,7	39 000	42,0
44,0	38,2	80,0	40 300	43,0	82,8	38 500	47,2	84,9	36 700	44,0
46,0	34,1	77,2	38 000	39,3	80,4	36 300	43,8	82,9	34 500	46,0
48,0	29,4	73,9	35 800	35,2	77,7	34 200	40,2	80,6	32 600	48,0
50,0	23,9	69,7	33 900	30,7	74,5	32 300	36,3	78,0	30 800	50,0
52,0	16,8	64,0	32 000	25,5	70,6	30 600	31,9	74,9	29 200	52,0
54,0				18,9	65,5	29 000	26,9	71,2	27 600	54,0
56,0							20,8	66,5	26 200	56,0
58,0										58,0
60,0										60,0
62,0										62,0
64,0										64,0
66,0										66,0
68,0										68,0
70,0										70,0



48,0 m

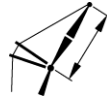


48,0 m

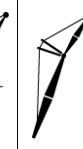
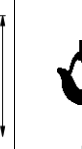
	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
19,8										19,8
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0	59,5	90,2	38 300							40,0
42,0	56,6	88,9	35 900							42,0
44,0	53,7	87,5	33 700							44,0
46,0	50,6	85,8	31 700							46,0
48,0	47,4	84,1	29 900	56,7	87,6	28 900				48,0
50,0	44,0	82,0	28 200	50,6	84,5	25 700				50,0
52,0	40,4	79,8	26 700	47,4	82,7	24 200				52,0
54,0	36,5	77,2	25 300	44,1	80,7	22 900	50,5	82,7	20 700	54,0
56,0	32,2	74,1	24 000	40,4	78,4	21 700	47,2	80,9	19 500	56,0
58,0	27,2	70,5	22 700	36,5	75,8	20 600	43,8	78,9	18 500	58,0
60,0	21,1	65,8	21 600	32,2	72,8	19 500	40,2	76,6	17 500	60,0
62,0	12,4	58,8	20 500	27,2	69,2	18 500	36,3	74,0	16 600	62,0
64,0				21,2	64,5	17 600	31,9	70,9	15 800	64,0
66,0							26,9	67,2	15 000	66,0
68,0							20,7	62,5	14 200	68,0
70,0							11,6	55,1	13 400	70,0



48,0 m



54,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
22,9	72,4	102,2	88 300 *							22,9
24,0	71,2	101,8	86 300 *							24,0
26,0	68,9	101,0	79 100							26,0
28,0	66,6	100,2	71 900	69,5	101,0	68 800				28,0
30,0	64,2	99,2	65 800	67,2	100,1	62 900				30,0
32,0	61,8	98,2	60 500	64,8	99,2	57 800	67,8	99,9	55 200	32,0
34,0	59,4	97,0	55 900	62,5	98,2	53 400	65,4	99,0	51 000	34,0
36,0	56,9	95,7	51 900	60,0	97,0	49 600	63,1	98,0	47 300	36,0
38,0	54,3	94,3	48 400	57,5	95,8	46 200	60,6	96,9	44 000	38,0
40,0	51,6	92,8	45 200	54,9	94,4	43 200	58,2	95,7	41 100	40,0
42,0	48,8	91,0	42 400	52,3	92,9	40 500	55,6	94,3	38 500	42,0
44,0	45,8	89,1	39 900	49,5	91,2	38 000	53,0	92,9	36 100	44,0
46,0	42,8	87,0	37 600	46,6	89,4	35 800	50,2	91,2	34 000	46,0
48,0	39,5	84,7	35 400	43,6	87,3	33 800	47,4	89,4	32 100	48,0
50,0	35,9	82,0	33 500	40,3	85,0	31 900	44,4	87,4	30 300	50,0
52,0	32,1	78,9	31 700	36,9	82,4	30 200	41,2	85,2	28 700	52,0
54,0	27,7	75,3	30 100	33,1	79,5	28 600	37,8	82,7	27 200	54,0
56,0	22,5	70,9	28 500	28,9	76,1	27 200	34,1	79,8	25 800	56,0
58,0	15,8	64,8	27 100	24,0	71,9	25 800	30,0	76,6	24 500	58,0
60,0				17,8	66,4	24 500	25,3	72,6	23 200	60,0
62,0							19,5	67,5	22 100	62,0
64,0							11,0	59,7	21 000	64,0
66,0										66,0
68,0										68,0
70,0										70,0
72,0										72,0
74,0										74,0
76,0										76,0

16000 S-3

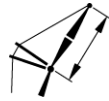
ANSI B30.5



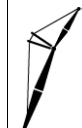
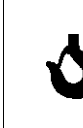
150 590 kg
+
54 430 kg



48,0 m

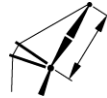


54,0 m

	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
22,9										22,9
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0	60,8	96,0	35 300							42,0
44,0	58,3	94,8	33 100							44,0
46,0	55,7	93,4	31 100							46,0
48,0	53,1	91,9	29 300							48,0
50,0	50,4	90,3	27 700	55,7	92,1	25 100				50,0
52,0	47,5	88,5	26 200	53,1	90,6	23 600				52,0
54,0	44,5	86,6	24 800	50,4	89,0	22 300				54,0
56,0	41,4	84,3	23 500	47,5	87,2	21 200				56,0
58,0	38,0	81,8	22 300	44,5	85,2	20 000	50,2	87,2	17 900	58,0
60,0	34,3	79,0	21 100	41,4	83,0	19 000	47,3	85,4	16 900	60,0
62,0	30,2	75,7	20 100	38,0	80,5	18 100	44,3	83,4	16 000	62,0
64,0	25,6	71,8	19 100	34,3	77,7	17 100	41,2	81,2	15 200	64,0
66,0	19,9	66,9	18 100	30,2	74,4	16 300	37,8	78,7	14 400	66,0
68,0	11,6	59,3	17 200	25,6	70,5	15 500	34,1	75,8	13 700	68,0
70,0				19,9	65,5	14 700	30,0	72,5	13 000	70,0
72,0							25,3	68,5	12 300	72,0
74,0							19,5	63,5	11 600	74,0
76,0							10,9	55,7	11 000	76,0



48,0 m



60,0 m

	86°			83°			80°			
m	o	m	kg	o	m	kg	o	m	kg	m
24,4	72,7	108,0	73 700 *							24,4
26,0	71,1	107,5	73 500 *							26,0
28,0	69,1	106,7	70 700							28,0
30,0	67,0	105,9	65 300	69,6	106,6	62 300				30,0
32,0	64,9	104,9	59 900	67,5	105,8	57 200				32,0
34,0	62,7	103,9	55 400	65,4	104,9	52 800				34,0
36,0	60,5	102,8	51 400	63,3	103,9	49 000	66,0	104,7	46 600	36,0
38,0	58,3	101,6	47 800	61,1	102,8	45 600	63,8	103,7	43 300	38,0
40,0	56,0	100,3	44 700	58,9	101,6	42 600	61,7	102,7	40 400	40,0
42,0	53,7	98,8	41 900	56,6	100,3	39 900	59,5	101,5	37 900	42,0
44,0	51,2	97,2	39 300	54,3	98,9	37 400	57,2	100,2	35 500	44,0
46,0	48,7	95,5	37 000	51,9	97,4	35 200	54,9	98,9	33 400	46,0
48,0	46,1	93,6	34 900	49,4	95,7	33 200	52,5	97,3	31 400	48,0
50,0	43,3	91,6	33 000	46,8	93,8	31 300	50,0	95,7	29 700	50,0
52,0	40,4	89,2	31 200	44,1	91,8	29 600	47,4	93,9	28 100	52,0
54,0	37,3	86,7	29 600	41,2	89,6	28 100	44,8	91,9	26 600	54,0
56,0	34,0	83,8	28 100	38,2	87,1	26 600	41,9	89,7	25 200	56,0
58,0	30,3	80,6	26 700	34,9	84,3	25 300	38,9	87,3	23 900	58,0
60,0	26,2	76,7	25 400	31,3	81,2	24 000	35,7	84,6	22 700	60,0
62,0	21,3	72,0	24 100	27,3	77,5	22 800	32,3	81,6	21 600	62,0
64,0	14,9	65,6	23 000	22,7	73,1	21 700	28,4	78,1	20 500	64,0
66,0				16,8	67,2	20 700	23,9	73,8	19 500	66,0
68,0							18,5	68,5	18 600	68,0
70,0							10,4	60,2	17 600	70,0
72,0										72,0
74,0										74,0
76,0										76,0
78,0										78,0
80,0										80,0
82,0										82,0

16000 S-3

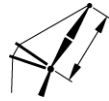
ANSI B30.5



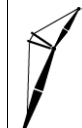
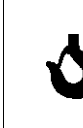
150 590 kg
+
54 430 kg



48,0 m

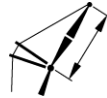


60,0 m

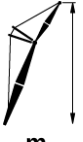
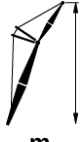
	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
24,4										24,4
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0										42,0
44,0										44,0
46,0	59,6	100,6	30 400							46,0
48,0	57,3	99,3	28 600							48,0
50,0	55,0	97,9	27 000							50,0
52,0	52,6	96,4	25 400	57,3	98,0	22 900				52,0
54,0	50,1	94,8	24 100	55,0	96,6	21 600				54,0
56,0	47,6	93,0	22 800	52,6	95,1	20 400				56,0
58,0	44,9	91,0	21 600	50,2	93,5	19 300				58,0
60,0	42,1	88,9	20 500	47,6	91,7	18 300				60,0
62,0	39,1	86,5	19 400	44,9	89,7	17 300	50,0	91,7	15 300	62,0
64,0	35,9	83,8	18 500	42,1	87,5	16 400	47,4	89,9	14 500	64,0
66,0	32,5	80,8	17 600	39,1	85,1	15 600	44,7	87,9	13 700	66,0
68,0	28,6	77,3	16 700	35,9	82,5	14 800	41,9	85,7	12 900	68,0
70,0	24,2	73,1	15 900	32,5	79,4	14 100	38,9	83,3	12 300	70,0
72,0	18,8	67,8	15 100	28,6	75,9	13 300	35,7	80,6	11 600	72,0
74,0				24,2	71,8	12 600	32,2	77,5	11 000	74,0
76,0				18,8	66,5	12 000	28,4	74,0	10 400	76,0
78,0							23,9	69,8	9 900	78,0
80,0							18,4	64,4	9 300	80,0
82,0							10,3	56,2	8 700	82,0



48,0 m



66,0 m

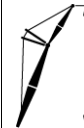
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
25,9	73,0	113,8	61 700 *							25,9
26,0	72,9	113,8	61 700 *							26,0
28,0	71,0	113,1	61 400 *							28,0
30,0	69,2	112,4	60 800 *							30,0
32,0	67,3	111,5	58 800 *	69,7	112,3	56 500				32,0
34,0	65,4	110,6	54 800	67,8	111,5	52 200				34,0
36,0	63,5	109,7	50 700	65,9	110,6	48 300				36,0
38,0	61,5	108,6	47 200	64,0	109,6	44 900	66,4	110,4	42 700	38,0
40,0	59,5	107,4	44 100	62,0	108,6	41 900	64,5	109,4	39 800	40,0
42,0	57,4	106,2	41 200	60,0	107,4	39 200	62,5	108,4	37 200	42,0
44,0	55,3	104,8	38 700	58,0	106,2	36 800	60,5	107,3	34 800	44,0
46,0	53,2	103,3	36 400	55,9	104,9	34 500	58,5	106,1	32 700	46,0
48,0	51,0	101,7	34 300	53,7	103,4	32 500	56,4	104,8	30 800	48,0
50,0	48,7	100,0	32 400	51,5	101,8	30 700	54,3	103,4	29 000	50,0
52,0	46,3	98,1	30 600	49,3	100,2	29 000	52,1	101,8	27 400	52,0
54,0	43,8	96,1	29 000	46,9	98,3	27 400	49,8	100,2	25 900	54,0
56,0	41,2	93,8	27 500	44,5	96,3	26 000	47,5	98,4	24 500	56,0
58,0	38,4	91,4	26 100	41,9	94,1	24 700	45,1	96,4	23 300	58,0
60,0	35,5	88,6	24 800	39,2	91,7	23 400	42,5	94,3	22 100	60,0
62,0	32,3	85,6	23 600	36,3	89,1	22 300	39,9	91,9	20 900	62,0
64,0	28,9	82,1	22 500	33,2	86,1	21 200	37,0	89,4	19 900	64,0
66,0	24,9	78,1	21 400	29,8	82,8	20 100	34,0	86,5	18 900	66,0
68,0	20,3	73,1	20 300	26,0	78,9	19 200	30,7	83,2	18 000	68,0
70,0	14,2	66,3	19 400	21,6	74,2	18 300	27,0	79,5	17 100	70,0
72,0				16,0	68,1	17 400	22,8	75,1	16 300	72,0
74,0							17,6	69,4	15 500	74,0
76,0							9,8	60,7	14 700	76,0
78,0										78,0
80,0										80,0
82,0										82,0



48,0 m

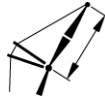


66,0 m

	75°			70°			
 m	 °	 m	 kg	 °	 m	 kg	 m
25,9							25,9
26,0							26,0
28,0							28,0
30,0							30,0
32,0							32,0
34,0							34,0
36,0							36,0
38,0							38,0
40,0							40,0
42,0							42,0
44,0							44,0
46,0	62,6	107,5	29 700				46,0
48,0	60,6	106,4	27 900				48,0
50,0	58,6	105,2	26 200				50,0
52,0	56,5	103,9	24 700				52,0
54,0	54,4	102,5	23 400				54,0
56,0	52,2	100,9	22 100	56,5	102,5	19 700	56,0
58,0	50,0	99,3	20 900	54,4	101,1	18 600	58,0
60,0	47,6	97,5	19 800	52,2	99,6	17 500	60,0
62,0	45,2	95,5	18 700	50,0	97,9	16 600	62,0
64,0	42,7	93,4	17 800	47,6	96,1	15 700	64,0
66,0	40,0	91,1	16 900	45,2	94,2	14 900	66,0
68,0	37,2	88,5	16 000	42,7	92,1	14 100	68,0
70,0	34,2	85,7	15 200	40,0	89,7	13 400	70,0
72,0	30,9	82,4	14 500	37,2	87,2	12 700	72,0
74,0	27,2	78,7	13 800	34,2	84,3	12 000	74,0
76,0	23,0	74,3	13 000	30,9	81,1	11 400	76,0
78,0	17,9	68,8	12 400	27,2	77,4	10 800	78,0
80,0				23,0	73,0	10 200	80,0
82,0				17,9	67,4	9 600	82,0



48,0 m



72,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
27,4	73,2	119,6	52 200 *							27,4
28,0	72,7	119,4	52 100 *							28,0
30,0	71,0	118,8	51 800 *							30,0
32,0	69,3	118,0	51 500 *							32,0
34,0	67,6	117,2	50 900 *							34,0
				69,7	117,9	50 000				
36,0	65,8	116,3	49 200 *	68,0	117,1	48 000				36,0
38,0	64,1	115,4	46 700	66,3	116,3	44 300				38,0
40,0	62,3	114,3	43 500	64,5	115,3	41 300	66,7	116,1	39 100	40,0
42,0	60,5	113,2	40 700	62,8	114,3	38 600	65,0	115,2	36 500	42,0
44,0	58,6	112,0	38 200	60,9	113,2	36 100	63,2	114,2	34 200	44,0
46,0	56,7	110,7	35 800	59,1	112,0	33 900	61,4	113,1	32 100	46,0
48,0	54,8	109,3	33 800	57,2	110,7	32 000	59,6	111,9	30 100	48,0
50,0	52,8	107,8	31 800	55,3	109,4	30 100	57,7	110,7	28 400	50,0
52,0	50,7	106,2	30 100	53,3	107,9	28 400	55,8	109,3	26 800	52,0
54,0	48,6	104,4	28 500	51,3	106,3	26 900	53,8	107,9	25 300	54,0
56,0	46,4	102,6	27 000	49,2	104,6	25 400	51,8	106,3	23 900	56,0
58,0	44,2	100,6	25 600	47,0	102,8	24 100	49,7	104,6	22 700	58,0
60,0	41,8	98,4	24 300	44,8	100,8	22 900	47,6	102,8	21 400	60,0
62,0	39,3	96,0	23 100	42,4	98,7	21 700	45,3	100,9	20 300	62,0
64,0	36,7	93,4	22 000	40,0	96,3	20 600	43,0	98,8	19 300	64,0
66,0	33,9	90,5	20 900	37,4	93,8	19 600	40,6	96,5	18 400	66,0
68,0	30,9	87,2	19 900	34,7	91,0	18 700	38,1	94,0	17 400	68,0
70,0	27,6	83,6	19 000	31,7	87,8	17 800	35,4	91,3	16 600	70,0
72,0	23,8	79,3	18 100	28,5	84,3	16 900	32,5	88,2	15 800	72,0
74,0	19,4	74,1	17 200	24,8	80,2	16 100	29,3	84,8	15 000	74,0
76,0	13,5	67,0	16 400	20,6	75,3	15 300	25,8	80,9	14 300	76,0
78,0				15,3	68,9	14 600	21,8	76,2	13 600	78,0
80,0							16,8	70,3	12 900	80,0
82,0							9,4	61,2	12 200	82,0
84,0										84,0



48,0 m

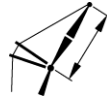


72,0 m

75°			
m	°	m	kg
27,4			
28,0			
30,0			
32,0			
34,0			
36,0			
38,0			
40,0			
42,0			
44,0			
46,0			
48,0			
50,0	61,5	112,1	25 500
52,0	59,7	111,0	24 000
54,0	57,8	109,7	22 700
56,0	55,9	108,4	21 400
58,0	53,9	107,0	20 200
60,0	51,9	105,4	19 100
62,0	49,8	103,7	18 100
64,0	47,7	101,9	17 100
66,0	45,5	100,0	16 300
68,0	43,2	97,9	15 400
70,0	40,8	95,7	14 600
72,0	38,2	93,2	13 900
74,0	35,5	90,4	13 200
76,0	32,6	87,4	12 500
78,0	29,5	84,0	11 800
80,0	26,0	80,1	11 200
82,0	22,0	75,5	10 700
84,0	17,1	69,6	10 100

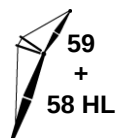


48,0 m

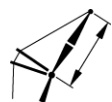


78,0 m

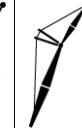
	86°			83°			80°			
m	o	m	kg	o	m	kg	o	m	kg	m
29,0	73,3	125,4	44 300 *							29,0
30,0	72,5	125,1	44 200 *							30,0
32,0	71,0	124,4	43 900 *							32,0
34,0	69,4	123,7	43 500 *							34,0
36,0	67,8	122,9	43 100 *	69,8	123,6	42 400 *				36,0
38,0	66,2	122,0	42 800 *	68,2	122,8	42 200 *				38,0
40,0	64,6	121,1	41 500 *	66,6	121,9	40 900				40,0
42,0	62,9	120,1	39 900	65,0	121,0	38 000	67,0	121,7	35 900	42,0
44,0	61,3	119,0	37 700	63,4	120,0	35 600	65,4	120,8	33 600	44,0
46,0	59,6	117,8	35 300	61,7	119,0	33 400	63,8	119,9	31 500	46,0
48,0	57,8	116,6	33 200	60,0	117,8	31 400	62,1	118,8	29 600	48,0
50,0	56,1	115,2	31 300	58,3	116,6	29 500	60,4	117,7	27 800	50,0
52,0	54,3	113,8	29 600	56,5	115,3	27 900	58,7	116,5	26 200	52,0
54,0	52,4	112,3	28 000	54,7	113,9	26 400	57,0	115,2	24 700	54,0
56,0	50,5	110,7	26 500	52,9	112,4	24 900	55,2	113,8	23 300	56,0
58,0	48,6	108,9	25 100	51,0	110,8	23 600	53,4	112,4	22 100	58,0
60,0	46,6	107,1	23 800	49,1	109,1	22 300	51,5	110,8	20 900	60,0
62,0	44,5	105,1	22 600	47,1	107,3	21 200	49,6	109,1	19 800	62,0
64,0	42,3	102,9	21 500	45,0	105,3	20 100	47,6	107,3	18 800	64,0
66,0	40,1	100,6	20 400	42,9	103,2	19 100	45,6	105,4	17 800	66,0
68,0	37,7	98,0	19 400	40,7	100,9	18 200	43,5	103,3	16 900	68,0
70,0	35,2	95,3	18 500	38,3	98,4	17 300	41,3	101,1	16 000	70,0
72,0	32,5	92,2	17 600	35,9	95,7	16 400	38,9	98,7	15 200	72,0
74,0	29,6	88,8	16 800	33,2	92,8	15 600	36,5	96,0	14 500	74,0
76,0	26,5	85,0	16 000	30,4	89,5	14 900	33,9	93,1	13 800	76,0
78,0	22,8	80,5	15 200	27,3	85,7	14 100	31,1	89,9	13 100	78,0
80,0	18,6	75,1	14 500	23,8	81,5	13 400	28,1	86,3	12 400	80,0
82,0	13,0	67,7	13 800	19,8	76,3	12 800	24,8	82,2	11 800	82,0
84,0				14,6	69,6	12 100	20,9	77,3	11 200	84,0
86,0							16,1	71,1	10 600	86,0
88,0							9,0	61,7	10 100	88,0
90,0										90,0



48,0 m

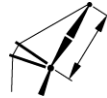


78,0 m

	75°		
			
m	o	m	kg
29,0			
30,0			
32,0			
34,0			
36,0			
38,0			
40,0			
42,0			
44,0			
46,0			
48,0			
50,0			
52,0	62,2	117,9	23 500
54,0	60,5	116,8	22 100
56,0	58,8	115,6	20 800
58,0	57,1	114,3	19 600
60,0	55,3	112,9	18 500
62,0	53,5	111,5	17 500
64,0	51,6	109,9	16 600
66,0	49,7	108,2	15 700
68,0	47,7	106,4	14 800
70,0	45,7	104,5	14 100
72,0	43,6	102,4	13 300
74,0	41,4	100,2	12 600
76,0	39,1	97,8	11 900
78,0	36,6	95,2	11 300
80,0	34,1	92,3	10 700
82,0	31,3	89,1	10 100
84,0	28,3	85,5	9 600
86,0	25,0	81,4	9 000
88,0	21,1	76,6	8 500
90,0	16,4	70,5	8 000



48,0 m



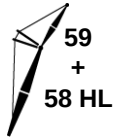
84,0 m

	86°			83°			80°			
m	o	m	kg	o	m	kg	o	m	kg	m
30,5	73,5	131,2	37 700 *							30,5
32,0	72,4	130,8	37 500 *							32,0
34,0	70,9	130,1	37 100 *							34,0
36,0	69,5	129,3	36 700 *							36,0
38,0	68,0	128,5	36 400 *							38,0
40,0	66,5	127,7	36 000 *	69,9	129,2	35 900 *				40,0
42,0	65,0	126,8	35 600 *	68,4	128,5	35 600 *				42,0
44,0	63,5	125,8	35 100 *	66,9	127,6	35 300 *				44,0
46,0	62,0	124,7	34 000 *	65,4	126,7	34 800	65,8	126,5	30 800	46,0
48,0	60,4	123,6	32 600	63,9	125,7	32 800	64,3	125,6	28 900	48,0
50,0	58,8	122,4	30 700	62,4	124,7	30 700	62,7	124,6	27 100	50,0
52,0	57,2	121,1	29 000	60,8	123,6	28 900	61,2	123,5	25 500	52,0
54,0	55,5	119,8	27 400	59,2	122,4	27 200	59,6	122,3	24 100	54,0
56,0	53,9	118,3	25 900	57,6	121,2	25 700	58,0	122,3	24 100	56,0
58,0	52,1	116,8	24 500	56,0	119,8	24 300	56,4	121,1	22 700	58,0
60,0	50,4	115,1	23 200	54,3	118,4	22 900	54,7	119,7	21 400	60,0
62,0	48,6	113,4	22 000	52,6	116,9	21 700	53,0	118,3	20 200	62,0
64,0	46,7	111,5	20 900	50,8	115,3	20 600	51,3	116,9	19 200	64,0
66,0	44,8	109,6	19 800	49,0	113,6	19 500	51,3	115,3	18 100	66,0
68,0	42,8	107,4	18 800	47,2	111,7	18 500	49,5	113,6	17 100	68,0
70,0	40,7	105,1	17 900	45,3	109,8	17 600	47,7	111,8	16 300	70,0
72,0	38,5	102,7	17 000	43,3	107,7	16 600	45,8	109,9	15 400	72,0
74,0	36,3	100,0	16 200	41,3	105,5	15 800	43,8	107,8	14 600	74,0
76,0	33,9	97,1	15 400	39,1	103,1	15 000	41,8	105,6	13 900	76,0
78,0	31,3	93,9	14 700	36,9	100,4	14 300	39,7	103,2	13 100	78,0
80,0	28,5	90,3	14 000	34,5	97,6	13 600	37,5	100,7	12 500	80,0
82,0	25,5	86,3	13 300	32,0	94,5	12 900	35,1	97,9	11 800	82,0
84,0	22,0	81,7	12 600	29,3	91,0	12 200	32,6	94,9	11 200	84,0
86,0	17,9	76,0	12 000	26,3	87,1	11 600	30,0	91,5	10 600	86,0
88,0	12,5	68,3	11 400	22,9	82,7	11 000	27,1	87,7	10 100	88,0
90,0				19,0	77,3	10 500	23,8	83,4	9 500	90,0
92,0				14,1	70,3	9 900	20,1	78,3	9 000	92,0
94,0							15,5	71,9	8 500	94,0
							8,6	62,1	8 000	94,0



ANSI B30.5

16000 S-3



150 590 kg
+
54 430 kg



REFERENCE
ONLY!

16000 S-3

ANSI B30.5



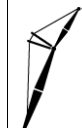
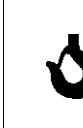
150 590 kg
+
54 430 kg



54,0 m



24,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
13,7	73,7	79,7	177 500 *c							13,7
14,0	73,0	79,7	174 200 *c							14,0
16,0	67,9	78,9	151 300 c							16,0
18,0	62,5	77,9	130 200 b							18,0
20,0	56,9	76,6	113 200 b	64,8	78,0	108 500 b				20,0
22,0	50,8	75,1	100 100	59,3	76,8	95 900 b				22,0
24,0	44,2	73,1	89 500	53,4	75,4	85 800	61,6	76,9	82 200 b	24,0
26,0	36,5	70,6	80 800	47,0	73,6	77 500	55,9	75,6	74 100 b	26,0
28,0	26,9	67,1	73 500	39,8	71,4	70 500	49,7	73,9	67 400	28,0
30,0				31,2	68,4	64 500	42,9	71,9	61 700	30,0
32,0				19,1	63,7	59 300	35,0	69,2	56 800	32,0
34,0							24,8	65,5	52 500	34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0										42,0
44,0										44,0
46,0										46,0
48,0										48,0



ANSI B30.5

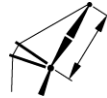
16000 S-3



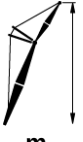
150 590 kg
+
54 430 kg



54,0 m



24,0 m

	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
13,7										13,7
14,0										14,0
16,0										16,0
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0	57,7	74,9	57 100 b							30,0
32,0	51,7	73,4	52 500							32,0
34,0	45,1	71,5	48 600							34,0
36,0	37,6	69,1	45 100	53,2	72,3	41 400				36,0
38,0	28,3	65,7	42 000	46,8	70,5	38 500				38,0
40,0				39,6	68,2	36 000				40,0
42,0				30,9	65,2	33 700	48,0	69,0	30 700	42,0
44,0				18,6	60,5	31 500	41,0	66,8	28 800	44,0
46,0							32,6	63,9	27 000	46,0
48,0							21,4	59,7	25 400	48,0

16000 S-3

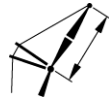
ANSI B30.5



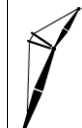
150 590 kg
+
54 430 kg



54,0 m

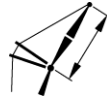


30,0 m

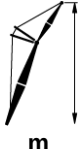
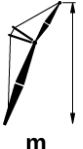
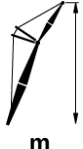
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8	71,0	85,0	142 700 b							16,8
18,0	68,4	84,5	130 000 b							18,0
20,0	64,2	83,6	113 000 b	70,1	84,6	108 200 b				20,0
22,0	59,8	82,5	99 900	66,0	83,7	95 500 b				22,0
24,0	55,2	81,1	89 300	61,7	82,7	85 500				24,0
26,0	50,3	79,5	80 700	57,2	81,4	77 200	63,4	82,6	73 600 b	26,0
28,0	45,0	77,6	73 400	52,4	79,9	70 300	59,0	81,5	67 000	28,0
30,0	39,1	75,3	67 300	47,3	78,1	64 400	54,4	80,1	61 400	30,0
32,0	32,3	72,3	62 000	41,7	76,0	59 300	49,4	78,4	56 600	32,0
34,0	23,8	68,3	57 300	35,3	73,3	54 900	44,0	76,4	52 300	34,0
36,0				27,7	69,8	51 000	38,0	74,0	48 600	36,0
38,0				16,9	64,6	47 400	31,0	70,9	45 300	38,0
40,0							21,9	66,6	42 400	40,0
42,0										42,0
44,0										44,0
46,0										46,0
48,0										48,0
50,0										50,0
52,0										52,0
54,0										54,0



54,0 m



30,0 m

	75°			70°			65°			
										
	m	o	m	kg	o	m	kg	o	m	kg
16,8										16,8
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0	60,4	80,7	52 000							32,0
34,0	55,8	79,4	48 100							34,0
36,0	51,0	77,8	44 700							36,0
38,0	45,7	76,0	41 700							38,0
40,0	40,0	73,7	39 000	52,2	76,8	35 500				40,0
42,0	33,3	70,9	36 500	47,1	75,0	33 300				42,0
44,0	25,1	67,1	34 300	41,5	72,8	31 300				44,0
46,0				35,1	70,2	29 400	48,1	73,4	26 600	46,0
48,0				27,4	66,7	27 700	42,6	71,3	25 000	48,0
50,0				16,5	61,3	26 100	36,3	68,8	23 600	50,0
52,0							29,0	65,5	22 300	52,0
54,0							18,9	60,6	21 000	54,0

16000 S-3

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150 590 kg
+
54 430 kg



54,0 m

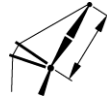


36,0 m

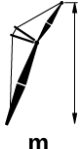
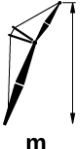
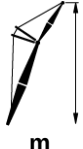
	86°			83°			80°			
m	o	m	kg	o	m	kg	o	m	kg	m
18,3	71,7	90,9	126 500 b							18,3
20,0	68,8	90,2	112 500 b							20,0
22,0	65,3	89,3	99 400							22,0
24,0	61,7	88,3	88 900	66,8	89,4	85 000				24,0
26,0	58,0	87,0	80 200	63,2	88,4	76 600				26,0
28,0	54,1	85,6	73 000	59,5	87,2	69 700	64,7	88,3	66 400	28,0
30,0	49,9	84,0	66 900	55,7	85,9	63 800	61,0	87,3	60 800	30,0
32,0	45,6	82,1	61 600	51,7	84,4	58 800	57,3	86,0	55 900	32,0
34,0	40,8	79,9	57 100	47,4	82,6	54 400	53,4	84,6	51 800	34,0
36,0	35,5	77,2	53 000	42,8	80,5	50 600	49,2	82,9	48 100	36,0
38,0	29,3	73,9	49 400	37,8	78,1	47 100	44,8	80,9	44 800	38,0
40,0	21,6	69,4	46 200	32,0	75,0	44 100	39,9	78,6	41 900	40,0
42,0				25,1	71,2	41 300	34,5	75,9	39 300	42,0
44,0				15,3	65,3	38 800	28,1	72,4	37 000	44,0
46,0							19,9	67,7	34 800	46,0
48,0										48,0
50,0										50,0
52,0										52,0
54,0										54,0
56,0										56,0
58,0										58,0
60,0										60,0



54,0 m



36,0 m

	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
18,3										18,3
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0	58,5	85,3	44 000							36,0
38,0	54,6	83,9	41 000							38,0
40,0	50,5	82,3	38 300							40,0
42,0	46,2	80,5	35 900	55,6	82,8	32 500				42,0
44,0	41,5	78,3	33 700	51,6	81,2	30 500				44,0
46,0	36,2	75,7	31 800	47,3	79,5	28 700				46,0
48,0	30,2	72,5	29 900	42,7	77,4	27 100				48,0
50,0	22,8	68,2	28 300	37,6	74,9	25 600	48,1	77,9	22 900	50,0
52,0				31,9	71,9	24 100	43,6	75,9	21 600	52,0
54,0				24,9	68,0	22 800	38,6	73,5	20 400	54,0
56,0				14,9	62,0	21 600	33,0	70,6	19 300	56,0
58,0							26,3	66,9	18 300	58,0
60,0							17,1	61,5	17 300	60,0

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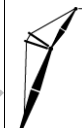
150 590 kg
+
54 430 kg



54,0 m



42,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
19,8	72,2	96,7	112 800 *b							19,8
20,0	71,9	96,6	111 600 b							20,0
22,0	69,0	95,9	99 000							22,0
24,0	66,1	95,0	88 400							24,0
26,0	63,0	94,0	79 800	67,3	95,1	76 100				26,0
28,0	59,9	92,9	72 600	64,3	94,1	69 200				28,0
30,0	56,6	91,6	66 500	61,2	93,0	63 400	65,5	94,1	60 300	30,0
32,0	53,2	90,1	61 200	58,0	91,8	58 300	62,5	93,0	55 400	32,0
34,0	49,7	88,5	56 700	54,7	90,4	54 000	59,3	91,9	51 300	34,0
36,0	46,0	86,6	52 700	51,2	88,8	50 100	56,0	90,5	47 600	36,0
38,0	41,9	84,4	49 100	47,5	87,1	46 700	52,6	89,1	44 400	38,0
40,0	37,6	81,9	46 000	43,7	85,0	43 700	49,1	87,3	41 500	40,0
42,0	32,7	79,0	43 100	39,4	82,7	41 000	45,3	85,4	38 900	42,0
44,0	27,0	75,3	40 600	34,8	79,9	38 600	41,2	83,2	36 600	44,0
46,0	19,9	70,5	38 200	29,5	76,6	36 300	36,8	80,7	34 500	46,0
48,0				23,1	72,4	34 300	31,8	77,6	32 500	48,0
50,0				14,1	66,1	32 300	25,9	73,8	30 700	50,0
52,0							18,3	68,6	29 000	52,0
54,0										54,0
56,0										56,0
58,0										58,0
60,0										60,0
62,0										62,0
64,0										64,0
66,0										66,0



54,0 m



42,0 m

	75°			70°			65°			
19,8										19,8
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0	60,3	91,1	40 400							38,0
40,0	57,1	89,9	37 800							40,0
42,0	53,7	88,4	35 400							42,0
44,0	50,2	86,8	33 200							44,0
46,0	46,5	84,9	31 300	54,6	87,3	28 200				46,0
48,0	42,5	82,8	29 500	51,1	85,7	26 500				48,0
50,0	38,2	80,4	27 800	47,4	83,9	25 000				50,0
52,0	33,4	77,5	26 400	43,5	81,9	23 600	51,7	84,1	21 000	52,0
54,0	27,9	74,0	24 900	39,3	79,5	22 400	48,1	82,4	19 800	54,0
56,0	21,0	69,3	23 600	34,7	76,8	21 200	44,3	80,4	18 800	56,0
58,0				29,4	73,4	20 100	40,1	78,1	17 700	58,0
60,0				22,9	69,2	19 000	35,5	75,4	16 800	60,0
62,0				13,7	62,7	18 000	30,4	72,2	15 900	62,0
64,0							24,2	68,1	15 100	64,0
66,0							15,8	62,3	14 300	66,0

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150 590 kg
+
54 430 kg



54,0 m

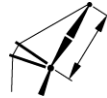


48,0 m

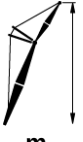
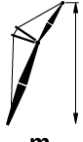
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
21,3	72,6	102,5	96 700 *							21,3
22,0	71,8	102,3	95 200 *							22,0
24,0	69,2	101,5	88 300							24,0
26,0	66,6	100,7	79 300	70,3	101,5	75 500				26,0
28,0	64,0	99,7	72 100	67,7	100,7	68 600				28,0
30,0	61,3	98,7	66 000	65,1	99,8	62 700				30,0
32,0	58,5	97,4	60 700	62,4	98,8	57 700	66,2	99,7	54 700	32,0
34,0	55,6	96,1	56 200	59,6	97,6	53 400	63,5	98,7	50 500	34,0
36,0	52,6	94,6	52 200	56,8	96,3	49 500	60,8	97,7	46 900	36,0
38,0	49,5	92,9	48 600	53,9	94,9	46 200	58,0	96,4	43 700	38,0
40,0	46,2	91,1	45 500	50,8	93,3	43 200	55,1	95,1	40 800	40,0
42,0	42,8	88,9	42 700	47,6	91,5	40 500	52,1	93,5	38 300	42,0
44,0	39,1	86,6	40 100	44,2	89,5	38 100	48,9	91,8	36 000	44,0
46,0	35,0	83,8	37 800	40,6	87,3	35 800	45,6	89,9	33 900	46,0
48,0	30,5	80,6	35 700	36,7	84,7	33 800	42,1	87,8	31 900	48,0
50,0	25,2	76,7	33 700	32,4	81,7	32 000	38,4	85,3	30 200	50,0
52,0	18,5	71,4	31 900	27,5	78,1	30 200	34,2	82,5	28 600	52,0
54,0				21,5	73,5	28 600	29,6	79,2	27 000	54,0
56,0				13,1	66,7	27 100	24,1	75,1	25 700	56,0
58,0							17,0	69,5	24 300	58,0
60,0										60,0
62,0										62,0
64,0										64,0
66,0										66,0
68,0										68,0
70,0										70,0
72,0										72,0



54,0 m



48,0 m

	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
21,3										21,3
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0	61,6	96,9	37 000							40,0
42,0	58,9	95,7	34 600							42,0
44,0	56,0	94,4	32 500							44,0
46,0	53,0	92,9	30 600							46,0
48,0	49,9	91,3	28 800	56,7	93,2	25 700				48,0
50,0	46,7	89,4	27 200	53,8	91,8	24 200				50,0
52,0	43,3	87,4	25 700	50,7	90,2	22 900				52,0
54,0	39,6	85,0	24 300	47,5	88,4	21 600				54,0
56,0	35,6	82,3	23 000	44,1	86,4	20 500				56,0
58,0	31,1	79,2	21 900	40,5	84,1	19 400	48,1	86,8	17 000	58,0
60,0	26,0	75,3	20 700	36,6	81,5	18 400	44,8	84,9	16 100	60,0
62,0	19,5	70,3	19 700	32,3	78,5	17 400	41,2	82,7	15 200	62,0
64,0	9,3	62,0	18 600	27,4	74,9	16 600	37,4	80,1	14 400	64,0
66,0				21,3	70,3	15 700	33,1	77,2	13 700	66,0
68,0				12,7	63,3	14 900	28,3	73,7	12 900	68,0
70,0							22,5	69,3	12 200	70,0
72,0							14,7	63,0	11 600	72,0

16000 S-3

ANSI B30.5



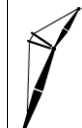
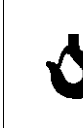
150 590 kg
+
54 430 kg



54,0 m

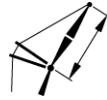


54,0 m

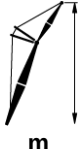
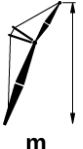
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
22,9	72,9	108,3	83 200 *							22,9
24,0	71,6	107,9	81 400 *							24,0
26,0	69,4	107,2	77 800							26,0
28,0	67,1	106,4	71 700	70,3	107,2	68 100				28,0
30,0	64,7	105,4	65 500	68,0	106,4	62 200				30,0
32,0	62,3	104,4	60 200	65,7	105,5	57 200				32,0
34,0	59,9	103,3	55 700	63,3	104,5	52 900	66,7	105,4	50 000	34,0
36,0	57,4	102,0	51 700	60,9	103,4	49 000	64,3	104,5	46 400	36,0
38,0	54,8	100,6	48 200	58,4	102,2	45 700	61,9	103,4	43 100	38,0
40,0	52,1	99,1	45 100	55,9	100,9	42 700	59,5	102,2	40 300	40,0
42,0	49,4	97,4	42 200	53,3	99,4	40 000	56,9	101,0	37 700	42,0
44,0	46,5	95,5	39 700	50,5	97,8	37 600	54,3	99,6	35 400	44,0
46,0	43,4	93,5	37 400	47,7	96,0	35 400	51,7	98,0	33 300	46,0
48,0	40,2	91,2	35 300	44,7	94,0	33 400	48,9	96,3	31 400	48,0
50,0	36,7	88,6	33 400	41,6	91,8	31 500	45,9	94,4	29 700	50,0
52,0	32,9	85,6	31 600	38,2	89,4	29 800	42,9	92,3	28 100	52,0
54,0	28,6	82,1	29 900	34,5	86,6	28 300	39,6	89,9	26 600	54,0
56,0	23,7	77,9	28 400	30,5	83,3	26 800	36,1	87,3	25 200	56,0
58,0	17,4	72,3	27 000	25,9	79,5	25 500	32,2	84,2	23 900	58,0
60,0				20,3	74,6	24 200	27,8	80,7	22 700	60,0
62,0				12,3	67,3	23 000	22,7	76,3	21 600	62,0
64,0							16,0	70,3	20 500	64,0
66,0										66,0
68,0										68,0
70,0										70,0
72,0										72,0
74,0										74,0
76,0										76,0
78,0										78,0



54,0 m



54,0 m

	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
22,9										22,9
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0										42,0
44,0	60,2	101,5	31 900							44,0
46,0	57,7	100,3	30 000							46,0
48,0	55,2	98,9	28 200							48,0
50,0	52,5	97,4	26 600							50,0
52,0	49,7	95,7	25 100	55,8	97,8	22 300				52,0
54,0	46,9	93,9	23 800	53,2	96,3	21 000				54,0
56,0	43,8	91,9	22 500	50,5	94,7	19 900				56,0
58,0	40,6	89,6	21 400	47,6	92,9	18 800				58,0
60,0	37,2	87,1	20 300	44,6	90,9	17 800	50,9	93,1	15 400	60,0
62,0	33,4	84,1	19 200	41,5	88,7	16 900	48,1	91,3	14 600	62,0
64,0	29,3	80,7	18 300	38,1	86,2	16 000	45,2	89,4	13 800	64,0
66,0	24,4	76,6	17 400	34,4	83,4	15 200	42,0	87,2	13 100	66,0
68,0	18,4	71,3	16 500	30,4	80,2	14 400	38,7	84,8	12 400	68,0
70,0	8,7	62,4	15 600	25,7	76,3	13 700	35,1	82,1	11 700	70,0
72,0				20,1	71,3	13 000	31,1	78,9	11 100	72,0
74,0							26,6	75,1	10 500	74,0
76,0							21,2	70,4	9 900	76,0
78,0							13,8	63,7	9 300	78,0

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ANSI B30.5



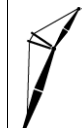
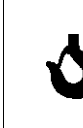
150 590 kg
+
54 430 kg



54,0 m



60,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
24,4	73,1	114,1	70 700 *							24,4
26,0	71,5	113,6	69 900 *							26,0
28,0	69,5	112,8	67 200 *							28,0
30,0	67,4	112,0	64 300							30,0
32,0	65,3	111,1	59 700	68,3	112,1	56 500				32,0
34,0	63,2	110,1	55 100	66,2	111,2	52 200				34,0
36,0	61,0	109,0	51 100	64,1	110,2	48 400				36,0
38,0	58,8	107,8	47 600	61,9	109,2	45 100	64,9	110,2	42 500	38,0
40,0	56,5	106,5	44 500	59,7	108,0	42 000	62,8	109,2	39 600	40,0
42,0	54,2	105,1	41 700	57,5	106,8	39 300	60,6	108,0	37 000	42,0
44,0	51,7	103,6	39 200	55,1	105,4	37 000	58,4	106,8	34 800	44,0
46,0	49,2	101,9	36 800	52,8	103,9	34 800	56,1	105,5	32 700	46,0
48,0	46,6	100,0	34 800	50,3	102,3	32 800	53,7	104,1	30 800	48,0
50,0	43,9	98,0	32 800	47,7	100,5	30 900	51,3	102,5	29 000	50,0
52,0	41,0	95,7	31 100	45,1	98,5	29 200	48,8	100,8	27 400	52,0
54,0	38,0	93,2	29 500	42,3	96,4	27 700	46,2	98,9	26 000	54,0
56,0	34,7	90,5	27 900	39,3	94,0	26 300	43,4	96,8	24 600	56,0
58,0	31,1	87,3	26 600	36,1	91,3	24 900	40,5	94,5	23 300	58,0
60,0	27,1	83,6	25 200	32,7	88,3	23 700	37,4	92,0	22 200	60,0
62,0	22,4	79,1	24 000	28,8	84,9	22 500	34,1	89,1	21 100	62,0
64,0	16,4	73,2	22 900	24,5	80,7	21 500	30,5	85,9	20 000	64,0
66,0				19,2	75,6	20 400	26,3	82,1	19 000	66,0
68,0				11,6	67,9	19 400	21,5	77,4	18 100	68,0
70,0							15,1	71,1	17 200	70,0
72,0										72,0
74,0										74,0
76,0										76,0
78,0										78,0



54,0 m



60,0 m

	75°			70°			
 m	 o	 m	 kg	 o	 m	 kg	 m
24,4							24,4
26,0							26,0
28,0							28,0
30,0							30,0
32,0							32,0
34,0							34,0
36,0							36,0
38,0							38,0
40,0							40,0
42,0							42,0
44,0							44,0
46,0	61,3	107,3	29 200				46,0
48,0	59,1	106,1	27 500				48,0
50,0	56,8	104,8	25 900				50,0
52,0	54,5	103,4	24 500				52,0
54,0	52,1	101,9	23 100				54,0
56,0	49,6	100,2	21 800	55,1	102,3	19 100	56,0
58,0	47,0	98,4	20 700	52,7	100,8	18 000	58,0
60,0	44,3	96,4	19 600	50,2	99,1	17 100	60,0
62,0	41,4	94,2	18 600	47,7	97,4	16 200	62,0
64,0	38,4	91,7	17 600	45,0	95,4	15 300	64,0
66,0	35,2	89,0	16 800	42,2	93,2	14 500	66,0
68,0	31,6	85,8	15 900	39,2	90,8	13 800	68,0
70,0	27,7	82,2	15 100	36,0	88,2	13 100	70,0
72,0	23,1	77,8	14 400	32,6	85,2	12 300	72,0
74,0	17,4	72,2	13 700	28,7	81,7	11 700	74,0
76,0	8,2	62,8	12 900	24,3	77,5	11 100	76,0
78,0				19,0	72,3	10 500	78,0

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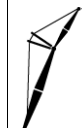
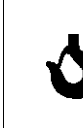
150 590 kg
+
54 430 kg



54,0 m



66,0 m

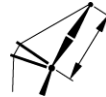
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
25,9	73,3	119,9	59 500 *							25,9
26,0	73,3	119,9	59 500 *							26,0
28,0	71,4	119,2	59 200 *							28,0
30,0	69,6	118,5	58 200 *							30,0
32,0	67,7	117,7	55 900 *	70,3	118,5	55 800				32,0
34,0	65,8	116,8	53 600	68,5	117,7	51 500				34,0
36,0	63,9	115,8	50 700	66,6	116,9	47 700				36,0
38,0	61,9	114,8	47 000	64,7	115,9	44 400				38,0
40,0	59,9	113,7	43 900	62,7	114,9	41 400	65,5	115,9	38 900	40,0
42,0	57,9	112,4	41 100	60,8	113,8	38 700	63,5	114,9	36 400	42,0
44,0	55,8	111,1	38 500	58,7	112,6	36 300	61,6	113,8	34 000	44,0
46,0	53,6	109,6	36 200	56,7	111,3	34 100	59,6	112,7	32 000	46,0
48,0	51,4	108,1	34 200	54,5	109,9	32 100	57,5	111,4	30 100	48,0
50,0	49,1	106,3	32 200	52,4	108,4	30 300	55,4	110,0	28 400	50,0
52,0	46,8	104,5	30 500	50,1	106,7	28 600	53,3	108,6	26 800	52,0
54,0	44,3	102,5	28 900	47,8	105,0	27 100	51,0	107,0	25 300	54,0
56,0	41,7	100,3	27 400	45,4	103,0	25 700	48,7	105,2	23 900	56,0
58,0	39,0	97,9	26 000	42,8	100,9	24 300	46,4	103,4	22 700	58,0
60,0	36,1	95,2	24 700	40,2	98,6	23 100	43,9	101,3	21 500	60,0
62,0	33,0	92,2	23 500	37,4	96,0	21 900	41,3	99,1	20 400	62,0
64,0	29,6	88,9	22 300	34,4	93,2	20 900	38,5	96,6	19 400	64,0
66,0	25,8	84,9	21 300	31,1	90,0	19 900	35,6	93,9	18 400	66,0
68,0	21,3	80,2	20 200	27,4	86,3	18 900	32,4	90,9	17 500	68,0
70,0	15,6	74,0	19 300	23,3	82,0	18 000	29,0	87,4	16 700	70,0
72,0				18,2	76,5	17 100	25,1	83,4	15 900	72,0
74,0							20,4	78,4	15 100	74,0
76,0							14,4	71,8	14 300	76,0
78,0										78,0
80,0										80,0
82,0										82,0



150 590 kg
+
54 430 kg



54,0 m



66,0 m

	75°		
m		m	kg
25,9			
26,0			
28,0			
30,0			
32,0			
34,0			
36,0			
38,0			
40,0			
42,0			
44,0			
46,0			
48,0	62,2	113,1	26 700
50,0	60,2	111,9	25 200
52,0	58,1	110,7	23 700
54,0	56,1	109,4	22 300
56,0	53,9	107,9	21 100
58,0	51,7	106,4	20 000
60,0	49,5	104,7	18 900
62,0	47,1	102,9	17 900
64,0	44,7	100,9	17 000
66,0	42,1	98,7	16 100
68,0	39,4	96,3	15 300
70,0	36,5	93,7	14 500
72,0	33,5	90,8	13 700
74,0	30,1	87,4	13 000
76,0	26,3	83,6	12 400
78,0	22,0	79,0	11 700
80,0	16,5	73,1	11 100
82,0	7,8	63,2	10 500

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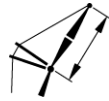
ANSI B30.5



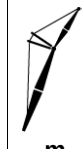
150 590 kg
+
54 430 kg



54,0 m

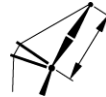


72,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
27,4	73,5	125,7	50 500 *							27,4
28,0	73,0	125,6	50 500 *							28,0
30,0	71,4	124,9	50 200 *							30,0
32,0	69,7	124,2	49 900 *							32,0
34,0	67,9	123,4	48 700 *	70,4	124,2	48 700 *				34,0
36,0	66,2	122,5	46 900 *	68,7	123,4	47 300				36,0
38,0	64,4	121,6	45 000 *	66,9	122,6	43 700				38,0
40,0	62,7	120,5	43 100	65,2	121,6	40 700	67,6	122,4	38 200	40,0
42,0	60,8	119,4	40 500	63,4	120,7	38 100	65,9	121,6	35 700	42,0
44,0	59,0	118,2	38 000	61,6	119,6	35 700	64,1	120,6	33 400	44,0
46,0	57,1	117,0	35 700	59,8	118,4	33 500	62,3	119,6	31 300	46,0
48,0	55,2	115,6	33 600	57,9	117,2	31 500	60,5	118,4	29 400	48,0
50,0	53,2	114,1	31 700	56,0	115,8	29 700	58,7	117,2	27 700	50,0
52,0	51,2	112,5	29 900	54,0	114,4	28 000	56,8	115,9	26 100	52,0
54,0	49,1	110,8	28 300	52,0	112,9	26 500	54,8	114,5	24 700	54,0
56,0	46,9	109,0	26 800	49,9	111,2	25 100	52,8	113,1	23 300	56,0
58,0	44,7	107,0	25 400	47,8	109,4	23 800	50,8	111,4	22 100	58,0
60,0	42,3	104,8	24 100	45,6	107,5	22 500	48,7	109,7	20 900	60,0
62,0	39,9	102,5	23 000	43,3	105,4	21 400	46,5	107,8	19 800	62,0
64,0	37,3	99,9	21 800	40,9	103,2	20 300	44,3	105,8	18 800	64,0
66,0	34,5	97,1	20 800	38,4	100,7	19 300	41,9	103,6	17 800	66,0
68,0	31,6	93,9	19 800	35,7	98,0	18 400	39,4	101,3	16 900	68,0
70,0	28,3	90,4	18 800	32,8	95,0	17 500	36,8	98,7	16 100	70,0
72,0	24,6	86,2	17 900	29,7	91,6	16 600	34,0	95,8	15 300	72,0
74,0	20,4	81,3	17 100	26,2	87,7	15 800	31,0	92,6	14 600	74,0
76,0	14,9	74,7	16 300	22,3	83,2	15 100	27,7	88,9	13 900	76,0
78,0				17,4	77,4	14 300	23,9	84,7	13 100	78,0
80,0							19,5	79,5	12 500	80,0
82,0							13,8	72,5	11 800	82,0
84,0										84,0
86,0										86,0
88,0										88,0



54,0 m

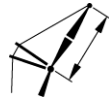


72,0 m

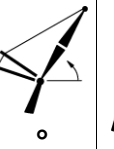
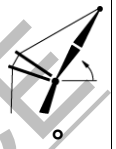
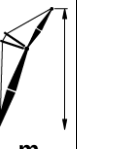
	75°		
m		m	kg
27,4			
28,0			
30,0			
32,0			
34,0			
36,0			
38,0			
40,0			
42,0			
44,0			
46,0			
48,0			
50,0			
52,0	61,1	117,7	23 000
54,0	59,2	116,5	21 700
56,0	57,4	115,2	20 400
58,0	55,4	113,9	19 300
60,0	53,5	112,4	18 200
62,0	51,4	110,8	17 200
64,0	49,4	109,2	16 300
66,0	47,2	107,3	15 400
68,0	45,0	105,4	14 600
70,0	42,6	103,2	13 800
72,0	40,2	100,9	13 100
74,0	37,6	98,4	12 400
76,0	34,9	95,6	11 800
78,0	32,0	92,5	11 200
80,0	28,8	89,0	10 600
82,0	25,2	84,9	10 000
84,0	21,0	80,1	9 500
86,0	15,8	73,9	8 900
88,0	7,4	63,5	8 400



54,0 m



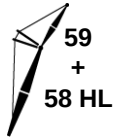
78,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
29,0	73,6	131,6	43 000 *							29,0
30,0	72,8	131,2	42 900 *							30,0
32,0	71,3	130,6	42 600 *							32,0
34,0	69,7	129,8	42 300 *							34,0
36,0	68,1	129,0	42 000 *							36,0
38,0	66,5	128,2	41 000 *	68,8	129,1	41 100 *				38,0
40,0	64,9	127,2	39 600 *	67,2	128,2	40 400				40,0
42,0	63,3	126,3	38 100 *	65,6	127,3	37 500				42,0
44,0	61,6	125,2	36 700 *	64,0	126,4	35 100	66,3	127,2	32 800	44,0
46,0	59,9	124,0	35 100	62,3	125,3	32 900	64,6	126,3	30 700	46,0
48,0	58,2	122,8	33 100	60,6	124,2	30 900	63,0	125,3	28 800	48,0
50,0	56,4	121,5	31 100	58,9	123,0	29 100	61,3	124,2	27 100	50,0
52,0	54,7	120,1	29 400	57,2	121,7	27 500	59,6	123,0	25 500	52,0
54,0	52,8	118,6	27 800	55,4	120,4	25 900	57,9	121,8	24 100	54,0
56,0	50,9	117,0	26 300	53,6	118,9	24 500	56,1	120,5	22 700	56,0
58,0	49,0	115,3	24 900	51,7	117,4	23 200	54,3	119,1	21 500	58,0
60,0	47,0	113,4	23 600	49,8	115,7	22 000	52,5	117,5	20 300	60,0
62,0	44,9	111,5	22 400	47,8	113,9	20 900	50,6	115,9	19 300	62,0
64,0	42,8	109,3	21 300	45,8	112,0	19 800	48,7	114,2	18 200	64,0
66,0	40,6	107,1	20 300	43,7	109,9	18 800	46,6	112,3	17 300	66,0
68,0	38,2	104,6	19 300	41,5	107,7	17 800	44,6	110,3	16 400	68,0
70,0	35,7	101,9	18 400	39,2	105,3	17 000	42,4	108,2	15 600	70,0
72,0	33,1	98,9	17 500	36,8	102,7	16 100	40,2	105,8	14 800	72,0
74,0	30,3	95,6	16 700	34,2	99,8	15 400	37,8	103,3	14 000	74,0
76,0	27,1	91,8	15 900	31,5	96,7	14 600	35,3	100,6	13 300	76,0
78,0	23,6	87,5	15 100	28,5	93,1	13 900	32,6	97,5	12 700	78,0
80,0	19,5	82,3	14 400	25,2	89,1	13 200	29,7	94,2	12 000	80,0
82,0	14,3	75,5	13 700	21,4	84,3	12 600	26,6	90,3	11 400	82,0
84,0				16,7	78,3	11 900	23,0	85,9	10 800	84,0
86,0							18,7	80,4	10 200	86,0
88,0							13,2	73,2	9 700	88,0



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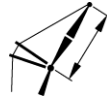
16000 S-3



REFERENCE
ONLY!



54,0 m



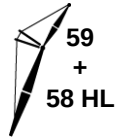
84,0 m

	86°			83°			80°			
m	o	m	kg	o	m	kg	o	m	kg	m
30,5	73,8	137,4	36 700 *							30,5
32,0	72,7	136,9	36 500 *							32,0
34,0	71,2	136,2	36 200 *							34,0
36,0	69,8	135,5	35 900 *							36,0
38,0	68,3	134,7	35 600 *							38,0
40,0	66,8	133,9	35 200 *	68,9	134,7	34 800 *				40,0
42,0	65,3	132,9	34 700 *	67,5	133,9	34 600 *				42,0
44,0	63,8	132,0	33 600 *	66,0	133,0	34 200				44,0
46,0	62,3	130,9	32 400 *	64,5	132,1	32 300	66,6	132,9	30 000	46,0
48,0	60,7	129,8	31 300 *	62,9	131,1	30 300	65,1	132,0	28 100	48,0
50,0	59,1	128,6	30 100 *	61,4	130,0	28 500	63,5	131,0	26 400	50,0
52,0	57,5	127,4	28 800	59,8	128,8	26 800	62,0	129,9	24 800	52,0
54,0	55,9	126,0	27 200	58,2	127,6	25 300	60,4	128,8	23 400	54,0
56,0	54,2	124,6	25 700	56,6	126,3	23 900	58,9	127,6	22 100	56,0
58,0	52,5	123,1	24 300	54,9	124,9	22 600	57,2	126,4	20 800	58,0
60,0	50,7	121,5	23 000	53,2	123,4	21 300	55,6	125,0	19 600	60,0
62,0	48,9	119,8	21 900	51,5	121,8	20 200	53,9	123,6	18 600	62,0
64,0	47,1	117,9	20 700	49,7	120,2	19 100	52,2	122,0	17 600	64,0
66,0	45,2	116,0	19 700	47,9	118,4	18 100	50,4	120,4	16 600	66,0
68,0	43,2	113,9	18 700	46,0	116,5	17 200	48,6	118,7	15 700	68,0
70,0	41,2	111,6	17 800	44,0	114,4	16 300	46,8	116,8	14 900	70,0
72,0	39,0	109,2	16 900	42,0	112,2	15 500	44,8	114,8	14 100	72,0
74,0	36,8	106,6	16 100	39,9	109,9	14 700	42,8	112,7	13 400	74,0
76,0	34,4	103,7	15 300	37,7	107,4	14 000	40,8	110,4	12 700	76,0
78,0	31,8	100,6	14 500	35,4	104,6	13 300	38,6	108,0	12 000	78,0
80,0	29,1	97,1	13 900	32,9	101,6	12 600	36,3	105,3	11 400	80,0
82,0	26,1	93,2	13 200	30,3	98,3	12 000	33,9	102,4	10 800	82,0
84,0	22,8	88,7	12 500	27,4	94,6	11 400	31,4	99,2	10 200	84,0
86,0	18,8	83,3	11 900	24,2	90,3	10 800	28,6	95,7	9 700	86,0
88,0	13,8	76,2	11 300	20,5	85,3	10 200	25,6	91,7	9 100	88,0
90,0				16,1	79,1	9 700	22,1	87,0	8 600	90,0
92,0							18,0	81,4	8 100	92,0
94,0							12,7	73,8	7 600	94,0



ANSI B30.5

16000 S-3



150 590 kg
+
54 430 kg



REFERENCE
ONLY!

16000 S-3

ANSI B30.5



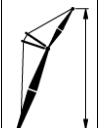
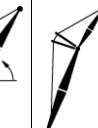
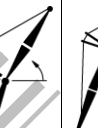
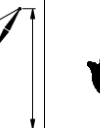
150 590 kg
+
54 430 kg



60,0 m



24,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
15,2	70,9	85,3	154 000 *c							15,2
16,0	69,0	85,0	146 800 *c							16,0
18,0	63,7	84,1	129 100 b							18,0
20,0	58,1	82,9	112 800 b	66,7	84,3	107 500 c				20,0
22,0	52,1	81,4	99 800 b	61,3	83,2	94 900 b				22,0
24,0	45,6	79,5	89 200	55,6	81,9	84 900 b	64,4	83,4	80 700 b	24,0
26,0	38,2	77,1	80 600	49,4	80,3	76 700	58,9	82,2	72 800 b	26,0
28,0	29,1	73,9	73 300	42,6	78,2	69 800	53,0	80,7	66 200 b	28,0
30,0	15,4	68,5	66 900	34,6	75,6	63 900	46,5	78,9	60 700	30,0
32,0				24,3	71,7	58 800	39,3	76,6	55 900	32,0
34,0							30,5	73,6	51 700	34,0
36,0							17,9	68,7	47 800	36,0
38,0										38,0
40,0										40,0
42,0										42,0
44,0										44,0
46,0										46,0
48,0										48,0
50,0										50,0



ANSI B30.5

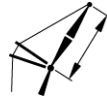
16000 S-3



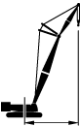
150 590 kg
+
54 430 kg

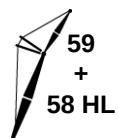


60,0 m



24,0 m

	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
15,2										15,2
16,0										16,0
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0	56,4	80,4	50 900 b							32,0
34,0	50,3	78,8	47 000							34,0
36,0	43,5	76,8	43 700							36,0
38,0	35,7	74,2	40 700	53,4	78,0	36 600 b				38,0
40,0	25,8	70,6	38 000	47,0	76,2	34 200				40,0
42,0				39,8	73,9	32 100				42,0
44,0				31,2	70,9	30 100				44,0
46,0							43,0	72,9	25 100	46,0
48,0							35,1	70,2	23 700	48,0
50,0							24,9	66,5	22 200	50,0



60,0 m

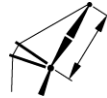


30,0 m

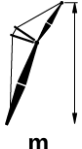
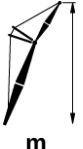
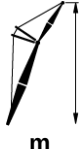
	86°			83°			80°			
m	o	m	kg	o	m	kg	o	m	kg	m
16,8	71,8	91,2	137 300 *c							16,8
18,0	69,3	90,7	128 200 *b							18,0
20,0	65,1	89,8	112 600 b							20,0
22,0	60,7	88,7	99 500 b	67,5	90,0	94 700 b				22,0
24,0	56,2	87,4	89 000	63,3	89,0	84 600 b				24,0
26,0	51,4	85,9	80 400	58,8	87,8	76 400	65,7	89,1	72 400 b	26,0
28,0	46,2	84,0	73 200	54,2	86,4	69 500	61,3	88,0	65 800 b	28,0
30,0	40,4	81,8	67 100	49,2	84,8	63 700	56,8	86,7	60 300	30,0
32,0	33,9	79,0	61 800	43,8	82,8	58 700	52,0	85,2	55 500	32,0
34,0	25,8	75,3	57 100	37,8	80,3	54 300	46,9	83,4	51 400	34,0
36,0	13,6	69,2	53 000	30,7	77,2	50 400	41,2	81,2	47 700	36,0
38,0				21,5	72,8	47 000	34,8	78,5	44 500	38,0
40,0							27,0	75,0	41 600	40,0
42,0							15,8	69,5	38 900	42,0
44,0										44,0
46,0										46,0
48,0										48,0
50,0										50,0
52,0										52,0
54,0										54,0
56,0										56,0



60,0 m



30,0 m

	75°			70°			65°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
16,8										16,8
18,0										18,0
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0	59,4	86,3	46 500							34,0
36,0	54,8	84,9	43 200							36,0
38,0	49,8	83,3	40 300							38,0
40,0	44,5	81,3	37 700							40,0
42,0	38,6	78,9	35 300	52,4	82,4	31 600				42,0
44,0	31,7	75,9	33 100	47,3	80,7	29 600				44,0
46,0	22,9	71,8	31 200	41,7	78,5	27 900				46,0
48,0				35,3	75,9	26 300	49,5	79,4	23 200	48,0
50,0				27,6	72,4	24 700	44,1	77,4	21 800	50,0
52,0							38,1	75,0	20 600	52,0
54,0							31,1	71,9	19 400	54,0
56,0							22,1	67,6	18 300	56,0

16000 S-3

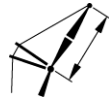
ANSI B30.5



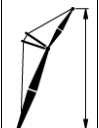
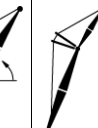
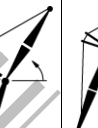
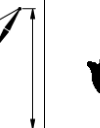
150 590 kg
+
54 430 kg



60,0 m

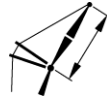


36,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
18,3	72,4	97,0	117 000 *b							18,3
20,0	69,5	96,4	111 100 b							20,0
22,0	66,0	95,5	99 200 b							22,0
24,0	62,5	94,5	88 500	68,0	95,7	84 000 b				24,0
26,0	58,8	93,3	80 000	64,5	94,7	75 800				26,0
28,0	54,9	91,9	72 700	60,9	93,6	68 900	66,5	94,7	65 200 b	28,0
30,0	50,8	90,3	66 600	57,1	92,4	63 100	62,9	93,7	59 600	30,0
32,0	46,5	88,5	61 400	53,2	90,9	58 200	59,3	92,6	54 900	32,0
34,0	41,8	86,3	56 800	49,0	89,2	53 800	55,4	91,2	50 700	34,0
36,0	36,7	83,8	52 800	44,6	87,3	50 000	51,4	89,7	47 200	36,0
38,0	30,7	80,6	49 200	39,7	84,9	46 600	47,1	87,9	44 000	38,0
40,0	23,4	76,5	46 000	34,2	82,2	43 600	42,5	85,8	41 100	40,0
42,0				27,8	78,7	40 900	37,4	83,3	38 500	42,0
44,0				19,5	73,8	38 400	31,6	80,2	36 200	44,0
46,0							24,5	76,3	34 100	46,0
48,0							14,3	70,2	32 100	48,0
50,0										50,0
52,0										52,0
54,0										54,0
56,0										56,0
58,0										58,0
60,0										60,0
62,0										62,0



60,0 m

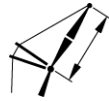


36,0 m

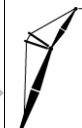
	75°			70°			65°			
18,3										18,3
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0	57,6	90,8	39 600							38,0
40,0	53,7	89,4	36 900							40,0
42,0	49,6	87,7	34 600							42,0
44,0	45,2	85,8	32 500							44,0
46,0	40,3	83,5	30 600	51,7	86,9	27 100				46,0
48,0	35,0	80,8	28 800	47,4	85,1	25 500				48,0
50,0	28,7	77,4	27 200	42,8	83,1	24 100				50,0
52,0	20,7	72,8	25 700	37,8	80,6	22 800	49,2	83,8	19 800	52,0
54,0				32,0	77,6	21 500	44,8	81,9	18 700	54,0
56,0				25,1	73,7	20 300	40,0	79,6	17 700	56,0
58,0							34,5	76,8	16 700	58,0
60,0							28,2	73,4	15 800	60,0
62,0							20,0	68,7	14 900	62,0



60,0 m

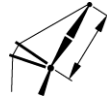


42,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
19,8	72,8	102,8	100 400 *b							19,8
20,0	72,5	102,7	99 900 *b							20,0
22,0	69,6	102,0	94 900 *b							22,0
24,0	66,7	101,2	88 100							24,0
26,0	63,6	100,2	79 500	68,4	101,3	75 200				26,0
28,0	60,5	99,1	72 300	65,4	100,4	68 400				28,0
30,0	57,3	97,8	66 200	62,3	99,4	62 600				30,0
32,0	54,0	96,4	61 000	59,2	98,2	57 700	64,1	99,5	54 300	32,0
34,0	50,5	94,8	56 400	55,9	96,9	53 300	61,0	98,4	50 200	34,0
36,0	46,8	93,0	52 500	52,5	95,4	49 500	57,7	97,2	46 600	36,0
38,0	42,8	90,9	48 900	48,9	93,7	46 200	54,4	95,7	43 500	38,0
40,0	38,5	88,5	45 800	45,1	91,8	43 200	50,9	94,2	40 600	40,0
42,0	33,8	85,6	42 900	41,0	89,5	40 500	47,3	92,4	38 100	42,0
44,0	28,3	82,2	40 400	36,6	87,0	38 100	43,4	90,3	35 800	44,0
46,0	21,6	77,6	38 000	31,6	83,9	35 900	39,1	87,9	33 700	46,0
48,0				25,6	80,0	33 900	34,5	85,2	31 800	48,0
50,0				17,9	74,7	32 000	29,1	81,8	30 000	50,0
52,0							22,6	77,5	28 400	52,0
54,0							13,1	70,8	26 900	54,0
56,0										56,0
58,0										58,0
60,0										60,0
62,0										62,0
64,0										64,0
66,0										66,0
68,0										68,0



60,0 m



42,0 m

	75°			70°			65°			
m	o	m	kg	o	m	kg	o	m	kg	m
19,8										19,8
20,0										20,0
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0	59,6	96,7	36 400							40,0
42,0	56,3	95,3	34 100							42,0
44,0	52,9	93,9	32 000							44,0
46,0	49,4	92,2	30 100							46,0
48,0	45,6	90,3	28 400	54,7	93,0	24 900				48,0
50,0	41,6	88,1	26 800	51,2	91,4	23 500				50,0
52,0	37,2	85,6	25 300	47,5	89,6	22 200				52,0
54,0	32,2	82,6	24 000	43,6	87,6	21 000				54,0
56,0	26,5	78,8	22 700	39,4	85,2	19 900	49,1	88,3	17 100	56,0
58,0	19,1	73,8	21 500	34,8	82,5	18 800	45,3	86,4	16 100	58,0
60,0				29,5	79,2	17 800	41,2	84,2	15 300	60,0
62,0				23,1	74,9	16 900	36,8	81,6	14 500	62,0
64,0				14,0	68,6	16 000	31,8	78,6	13 700	64,0
66,0							26,0	74,8	12 900	66,0
68,0							18,4	69,6	12 200	68,0

16000 S-3

ANSI B30.5



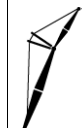
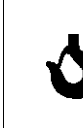
150 590 kg
+
54 430 kg



60,0 m

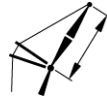


48,0 m

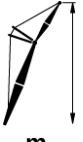
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
21,3	73,1	108,6	86 500 *							21,3
22,0	72,3	108,4	85 300 *							22,0
24,0	69,8	107,7	81 400 *							24,0
26,0	67,2	106,8	77 200							26,0
28,0	64,5	105,9	72 000	68,7	107,0	67 800				28,0
30,0	61,8	104,9	65 700	66,1	106,1	62 000				30,0
32,0	59,1	103,7	60 500	63,4	105,1	57 000	67,5	106,1	53 600	32,0
34,0	56,2	102,4	55 900	60,7	104,0	52 700	64,9	105,2	49 500	34,0
36,0	53,3	100,9	52 000	57,9	102,8	48 900	62,2	104,2	45 900	36,0
38,0	50,2	99,3	48 400	55,0	101,4	45 600	59,4	103,0	42 800	38,0
40,0	46,9	97,4	45 300	52,0	99,9	42 600	56,6	101,7	40 000	40,0
42,0	43,5	95,4	42 500	48,8	98,2	40 000	53,7	100,2	37 500	42,0
44,0	39,9	93,1	39 900	45,5	96,2	37 600	50,6	98,6	35 200	44,0
46,0	35,9	90,4	37 600	42,0	94,1	35 400	47,4	96,8	33 100	46,0
48,0	31,5	87,3	35 500	38,2	91,6	33 400	44,0	94,8	31 200	48,0
50,0	26,4	83,5	33 600	34,1	88,8	31 500	40,4	92,5	29 500	50,0
52,0	20,1	78,7	31 800	29,4	85,4	29 900	36,4	89,9	27 900	52,0
54,0				23,9	81,3	28 300	32,1	86,9	26 400	54,0
56,0				16,7	75,6	26 800	27,1	83,2	25 100	56,0
58,0							21,0	78,6	23 800	58,0
60,0										60,0
62,0										62,0
64,0										64,0
66,0										66,0
68,0										68,0
70,0										70,0
72,0										72,0



60,0 m



48,0 m

	75°			70°			65°			
 m	 °	 m	 kg	 °	 m	 kg	 °	 m	 kg	 m
21,3										21,3
22,0										22,0
24,0										24,0
26,0										26,0
28,0										28,0
30,0										30,0
32,0										32,0
34,0										34,0
36,0										36,0
38,0										38,0
40,0										40,0
42,0	61,0	102,4	33 300							42,0
44,0	58,2	101,2	31 200							44,0
46,0	55,3	99,9	29 300							46,0
48,0	52,3	98,3	27 600							48,0
50,0	49,2	96,7	26 100							50,0
52,0	45,9	94,8	24 600	53,9	97,5	21 400				52,0
54,0	42,5	92,7	23 300	50,8	95,9	20 200				54,0
56,0	38,7	90,2	22 100	47,6	94,1	19 100				56,0
58,0	34,6	87,5	20 900	44,2	92,1	18 100	52,1	94,5	15 300	58,0
60,0	30,0	84,2	19 900	40,6	89,8	17 100	49,0	92,8	14 500	60,0
62,0	24,7	80,2	18 800	36,7	87,2	16 200	45,7	90,9	13 600	62,0
64,0	17,8	74,7	17 900	32,4	84,2	15 400	42,2	88,7	12 900	64,0
66,0				27,5	80,6	14 600	38,4	86,3	12 200	66,0
68,0				21,5	76,1	13 800	34,3	83,5	11 600	68,0
70,0				13,0	69,2	13 100	29,7	80,2	10 900	70,0
72,0							24,2	76,1	10 300	72,0

16000 S-3

ANSI B30.5



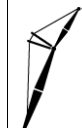
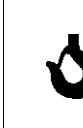
150 590 kg
+
54 430 kg



60,0 m



54,0 m

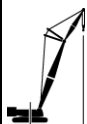
	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
22,9	73,4	114,4	74 900 *							22,9
24,0	72,1	114,1	73 300 *							24,0
26,0	69,8	113,3	70 300 *							26,0
28,0	67,6	112,5	67 000 *							28,0
30,0	65,2	111,6	63 600 *	68,9	112,7	61 500				30,0
32,0	62,8	110,6	60 000	66,6	111,8	56 500				32,0
34,0	60,4	109,5	55 500	64,2	110,8	52 200				34,0
36,0	57,9	108,3	51 500	61,8	109,8	48 400	65,5	110,9	45 400	36,0
38,0	55,4	106,9	48 000	59,4	108,6	45 100	63,2	109,9	42 200	38,0
40,0	52,7	105,4	44 800	56,8	107,3	42 100	60,7	108,8	39 400	40,0
42,0	50,0	103,7	42 000	54,2	105,9	39 500	58,3	107,6	36 900	42,0
44,0	47,1	101,9	39 500	51,5	104,4	37 100	55,7	106,2	34 600	44,0
46,0	44,1	99,9	37 200	48,7	102,6	34 900	53,1	104,7	32 600	46,0
48,0	40,9	97,7	35 100	45,8	100,7	32 900	50,3	103,1	30 700	48,0
50,0	37,5	95,1	33 200	42,7	98,6	31 100	47,5	101,3	29 000	50,0
52,0	33,7	92,2	31 500	39,4	96,3	29 400	44,5	99,3	27 400	52,0
54,0	29,6	88,9	29 800	35,9	93,6	27 900	41,3	97,1	25 900	54,0
56,0	24,8	84,9	28 300	32,0	90,5	26 400	37,9	94,6	24 600	56,0
58,0	18,9	79,7	26 900	27,6	86,9	25 100	34,3	91,8	23 300	58,0
60,0				22,5	82,5	23 900	30,2	88,5	22 200	60,0
62,0				15,7	76,4	22 700	25,5	84,6	21 100	62,0
64,0							19,8	79,6	20 000	64,0
66,0										66,0
68,0										68,0
70,0										70,0
72,0										72,0
74,0										74,0
76,0										76,0



60,0 m



54,0 m

	 75°			 70°			
	 m	 o	 m	kg	 o	 m	
22,9							22,9
24,0							24,0
26,0							26,0
28,0							28,0
30,0							30,0
32,0							32,0
34,0							34,0
36,0							36,0
38,0							38,0
40,0							40,0
42,0							42,0
44,0							44,0
46,0	59,7	107,1	28 700				46,0
48,0	57,2	105,8	27 000				48,0
50,0	54,6	104,4	25 500				50,0
52,0	51,9	102,8	24 000				52,0
54,0	49,1	101,1	22 800	55,9	103,4	19 600	54,0
56,0	46,2	99,3	21 500	53,3	102,0	18 500	56,0
58,0	43,1	97,2	20 400	50,5	100,3	17 500	58,0
60,0	39,9	94,8	19 300	47,7	98,6	16 600	60,0
62,0	36,4	92,2	18 400	44,7	96,6	15 700	62,0
64,0	32,5	89,2	17 400	41,5	94,4	14 800	64,0
66,0	28,2	85,7	16 600	38,2	91,9	14 100	66,0
68,0	23,2	81,4	15 700	34,5	89,1	13 300	68,0
70,0	16,7	75,6	14 900	30,5	85,9	12 600	70,0
72,0				25,9	82,0	12 000	72,0
74,0				20,2	77,1	11 300	74,0
76,0				12,2	69,8	10 700	76,0

16000 S-3

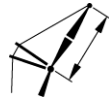
ANSI B30.5



150 590 kg
+
54 430 kg



60,0 m

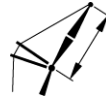


60,0 m

	86°			83°			80°			
m	o	m	kg	o	m	kg	o	m	kg	m
24,4	73,6	120,2	64 300 *							24,4
26,0	71,9	119,7	63 300 *							26,0
28,0	69,9	119,0	61 000 *							28,0
30,0	67,9	118,2	58 500 *							30,0
32,0	65,8	117,3	55 800 *	69,0	118,3	55 800				32,0
34,0	63,6	116,3	53 200 *	67,0	117,5	51 500				34,0
36,0	61,5	115,3	50 400 *	64,9	116,6	47 800				36,0
38,0	59,3	114,1	47 400	62,7	115,5	44 400	66,0	116,6	41 500	38,0
40,0	57,0	112,8	44 300	60,5	114,4	41 500	63,9	115,6	38 700	40,0
42,0	54,7	111,4	41 500	58,3	113,2	38 800	61,8	114,5	36 200	42,0
44,0	52,3	109,9	39 000	56,0	111,9	36 400	59,6	113,4	33 900	44,0
46,0	49,8	108,2	36 700	53,6	110,4	34 300	57,3	112,1	31 900	46,0
48,0	47,2	106,4	34 600	51,2	108,8	32 300	55,0	110,7	30 000	48,0
50,0	44,5	104,4	32 700	48,7	107,1	30 500	52,6	109,2	28 300	50,0
52,0	41,7	102,2	30 900	46,1	105,2	28 800	50,1	107,6	26 800	52,0
54,0	38,7	99,8	29 300	43,3	103,2	27 300	47,5	105,8	25 300	54,0
56,0	35,4	97,1	27 800	40,4	100,8	25 900	44,9	103,8	24 000	56,0
58,0	31,9	94,0	26 400	37,3	98,3	24 600	42,1	101,7	22 800	58,0
60,0	28,0	90,4	25 100	34,0	95,4	23 300	39,1	99,3	21 600	60,0
62,0	23,5	86,1	23 900	30,3	92,2	22 200	35,9	96,6	20 500	62,0
64,0	17,9	80,6	22 700	26,2	88,3	21 100	32,4	93,5	19 500	64,0
66,0				21,3	83,6	20 100	28,6	90,0	18 500	66,0
68,0				14,8	77,2	19 100	24,1	85,9	17 600	68,0
70,0							18,7	80,6	16 800	70,0
72,0										72,0
74,0										74,0
76,0										76,0



60,0 m

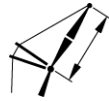


60,0 m

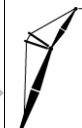
	75°		
24,4			
26,0			
28,0			
30,0			
32,0			
34,0			
36,0			
38,0			
40,0			
42,0			
44,0			
46,0			
48,0	60,8	112,8	26 300
50,0	58,6	111,6	24 700
52,0	56,3	110,3	23 300
54,0	53,9	108,9	22 000
56,0	51,5	107,3	20 800
58,0	49,0	105,6	19 700
60,0	46,4	103,7	18 700
62,0	43,7	101,7	17 700
64,0	40,8	99,4	16 800
66,0	37,7	96,9	15 900
68,0	34,4	94,1	15 100
70,0	30,8	90,9	14 400
72,0	26,7	87,1	13 600
74,0	21,9	82,5	12 900
76,0	15,8	76,4	12 300



60,0 m

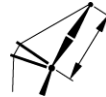


66,0 m

	86°			83°			80°			
 m	 o	 m	 kg	 o	 m	 kg	 o	 m	 kg	 m
25,9	73,7	126,1	54 900 *							25,9
26,0	73,6	126,0	54 900 *							26,0
28,0	71,8	125,4	54 500 *							28,0
30,0	70,0	124,7	53 000 *							30,0
32,0	68,1	123,9	51 000 *							32,0
34,0	66,2	123,0	48 900 *	69,2	124,0	50 900				34,0
36,0	64,3	122,0	46 800 *	67,3	123,2	47 100				36,0
38,0	62,3	121,0	44 700 *	65,4	122,2	43 700				38,0
40,0	60,3	119,9	42 600 *	63,5	121,3	40 800	66,5	122,2	38 000	40,0
42,0	58,3	118,7	40 500 *	61,5	120,2	38 100	64,5	121,3	35 500	42,0
44,0	56,2	117,3	38 300	59,5	119,0	35 800	62,6	120,3	33 200	44,0
46,0	54,1	115,9	36 000	57,4	117,8	33 600	60,6	119,2	31 200	46,0
48,0	51,9	114,4	33 900	55,3	116,4	31 600	58,6	118,0	29 300	48,0
50,0	49,6	112,7	32 100	53,2	114,9	29 800	56,5	116,7	27 600	50,0
52,0	47,3	110,9	30 300	50,9	113,3	28 200	54,4	115,2	26 100	52,0
54,0	44,8	108,9	28 700	48,6	111,6	26 600	52,2	113,7	24 600	54,0
56,0	42,3	106,7	27 200	46,3	109,7	25 200	49,9	112,1	23 300	56,0
58,0	39,6	104,4	25 800	43,8	107,7	23 900	47,6	110,3	22 100	58,0
60,0	36,8	101,8	24 500	41,2	105,4	22 700	45,2	108,3	20 900	60,0
62,0	33,7	98,9	23 300	38,4	103,0	21 600	42,6	106,2	19 800	62,0
64,0	30,4	95,6	22 200	35,5	100,2	20 500	40,0	103,9	18 800	64,0
66,0	26,6	91,8	21 100	32,3	97,2	19 500	37,2	101,3	17 900	66,0
68,0	22,3	87,3	20 100	28,8	93,7	18 600	34,1	98,4	17 000	68,0
70,0	17,0	81,4	19 100	24,9	89,6	17 700	30,8	95,2	16 200	70,0
72,0				20,2	84,7	16 800	27,2	91,5	15 400	72,0
74,0							23,0	87,1	14 600	74,0
76,0							17,8	81,5	13 900	76,0
78,0										78,0
80,0										80,0
82,0										82,0



60,0 m



66,0 m

	75°		
	m	m	kg
25,9			
26,0			
28,0			
30,0			
32,0			
34,0			
36,0			
38,0			
40,0			
42,0			
44,0			
46,0			
48,0			
50,0	61,7	118,6	24 000
52,0	59,7	117,4	22 500
54,0	57,7	116,2	21 300
56,0	55,6	114,8	20 100
58,0	53,4	113,4	19 000
60,0	51,2	111,8	17 900
62,0	48,9	110,1	17 000
64,0	46,6	108,2	16 100
66,0	44,1	106,2	15 200
68,0	41,5	104,0	14 400
70,0	38,8	101,6	13 700
72,0	35,9	98,9	13 000
74,0	32,7	95,9	12 300
76,0	29,3	92,4	11 600
78,0	25,4	88,5	11 000
80,0	20,9	83,6	10 400
82,0	15,0	77,2	9 900