Potain Igo T 70

Product Guide

Features

- 4000 kg (8818 lb) maximum capacity
- 1300 kg (2866 lb) capacity at 40 m (131 ft)
- 40 m (131 ft) maximum operating hook radius
- 44,5 m (146 ft) maximum hook height with jib set at 30°
- 32 m (105 ft) maximum hook height with jib horizontal
- Variable height mast from 15 m (49 ft) to 32 m (105 ft) with optional mast inserts

Features

Mast inserts

Increase your working height by up to 12 m (39.4 ft) with optional mast inserts. Each insert is 6 m (19.7 ft) and provides the operator with two (2) additional heights under hook.

Radio remote control

Standard wireless radio remote control with indicators and auxiliary control unit can be supplemented with an optional tethered joystick control unit with 30 m (98 ft) cable.

Vision cab 140CN

The optional Vision 140CN cab bolts onto the crane at a fixed height. Controls are integrated into the cab and operator's seat provides ergonomic comforts from an aerial position.

Transport axle set

Simplify road transport with Potain's optional transport axle set, SL122 / J215M, and adaptation kit 203. This trailer adjusts pneumatically and travels at speeds up to 80 km/h (50 mph).

Contents

Specifications

Jib

28,5 m (94 ft) radius standard tri-folding offsettable lattice jib. Two (2) tie bar lines with adjustable lengths allow jib to be offset to 30˚. Opening and aligning are carried out automatically by three (3) hydraulic cylinders.

*Optional jib extensions

Two (2) removable jib extensions allow for a radius of 35 m (115 ft) or maximum radius of 40 m (131 ft).

Mast

Telescoping lattice mast is made vertical by one (1) hydraulic cylinder. Hook heights of 15 m (49 ft), 17 m (56 ft), and 20 m (66 ft) achievable with standard mast. 360˚ rotation possible during raising sequence.

*Optional mast inserts

Two (2) 6 m (20 ft) mast inserts available to reach a maximum hook height of 32 m (105 ft). Increasing mast height with one insert provides hook heights of 23 m (75 ft) and 26 m (85 ft); second mast insert provides hook heights of 29 m (95 ft) and 32 m (105 ft).

Chassis

Outriggers swing and lock into position. 4,5 m (14.8 ft) square outrigger spread with 2,7 m (8.9 ft) slewing radius. Outrigger pads are stowed on the crane during transport (600 mm x 600 mm [23.6 in x 23.6 in]).

*Ballast

Ballast requirement for the crane consists of, at minimum, 14 slabs each weighing 2200 kg (4850 lb). An additional slab is required if cab is mounted as well as another if mast insert(s) is used.

**Denotes optional equipment*

*Optional hydraulic ballasting derrick

Removable and able to be used on other Igo T 70 units, the hydraulic ballasting derrick uses the hoisting winch and is controlled by the remote control.

Electrical requirement

480 volt, 60 Hz measured at the turntable. Earth rod and electric cable stowed on the crane during transport.

Reeving

SM/DM block for 2 (SM) or 4-part line (DM). Manual removal of one pin to change between SM and DM.

Controls

Wireless remote control provides information to the operator about **wind speed, radius, hook height, load, and moment. Lights and buzzers alert the operator when nearing limits of operation. Battery charger and extra battery are provided with crane.

Auxiliary remote attached by tethered cord ensures continual operation in case of battery or other malfunction of the wireless remote control.

*Optional anemometer

Electronic wind speed meter to alert the operator of wind speed conditions. Provides selective display on the radio remote. Crane can be operated in speeds up to 72 km/h (45 mph) and weather vane in winds up to 150 km/h (93 mph).

Swing

RVF 51 Optima +: slewing mechanism with maximum swing speed of 0.8 rpm. Progressive control of speed with counter-slewing possible, anti-load swinging system makes aligning the load with the jib easier. Multiple rpm speeds possible depending upon parameter selected.

Specifications

Hoist

15 LVF 11 Optima: 15 hp variable frequency hoist with 1.1 t (1.2 USt) line pull. 3 notch, progressive speed change according to the accelerating or decelerating ramps. Optima allows the hoist to adapt its speed to the weight of the load.

Trolley

3 DVF 5: 3 hp variable frequency hoist with 500 kg (1102 lb) line pull. Three (3) notch winch, progressive speed change according to acceleration or deceleration ramps controlled by the frequency converter.

Hydraulic equipment

Hydraulic cylinders are used for raising the mast, unfolding the jib, and slewing the derrick. All actions are carried about by the remote control.

*Optional transport axle sets

Axle sets are available for both jobsite and highway applications. Jobsite axles are rated at either 10 km/h (6 mph) or 25 km/h (15.5 mph); highway axle set is rated at 80 km/h (50 mph).

**Denotes optional equipment*

*Optional equipment

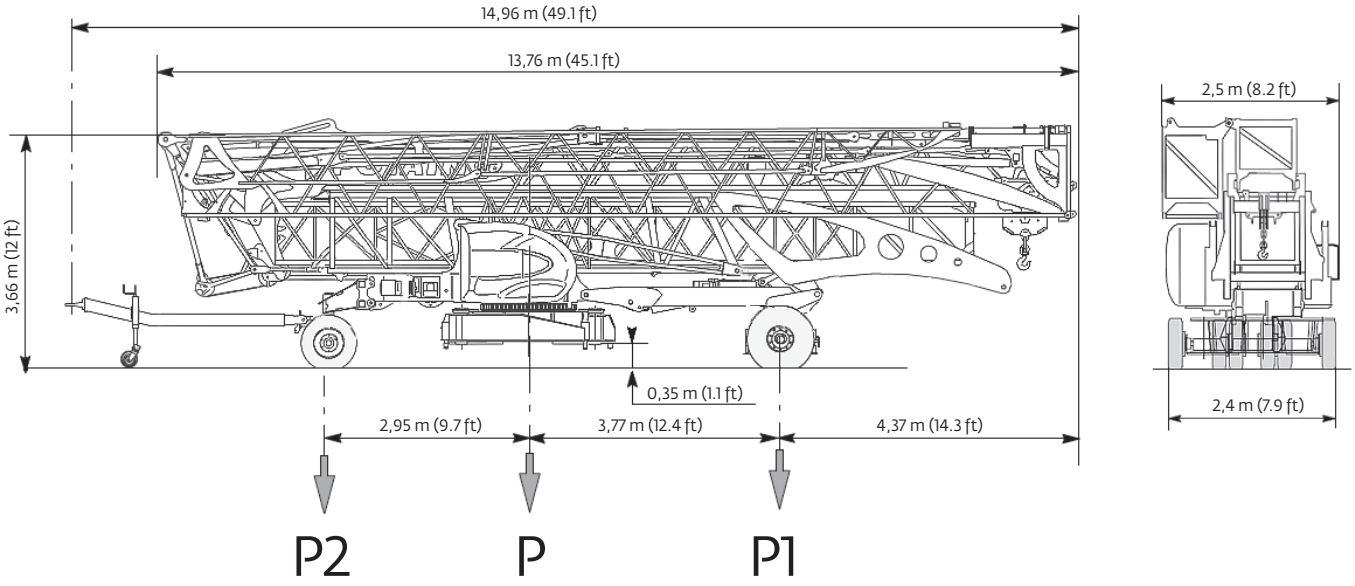
- STANDARD NORTH AMERICAN SPECIFICATION: includes 40 m (131 ft) jib, offsettable jib, two (2) mast inserts, sole plates with screw jacks and Dialog Wind (anemometer).
- Mast inserts 6 m (19.7 ft)
- Outrigger pads with screw jacks for transport equipment
- Fixed height cab
- Access ladders
- Transport axles and kits
- Top Zone
- Top Tracing

Consult price list for additional options

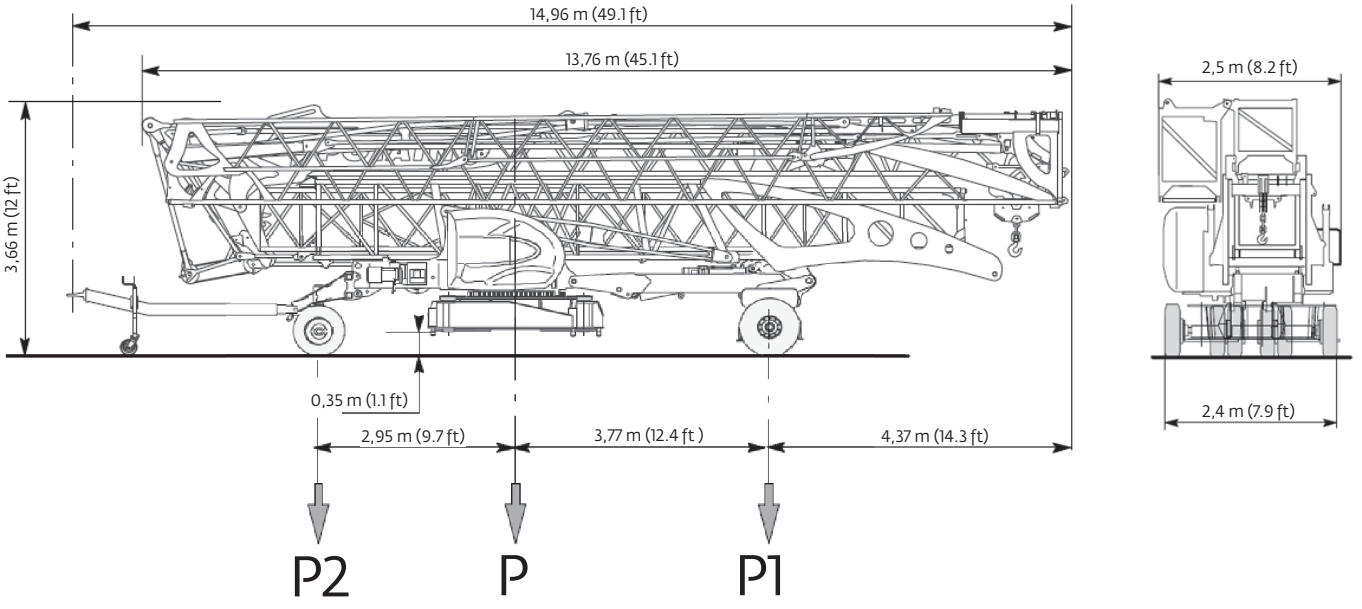
***Requires optional anemometer*

Transport

DJ100 / S120
10 km/h / 6 mph



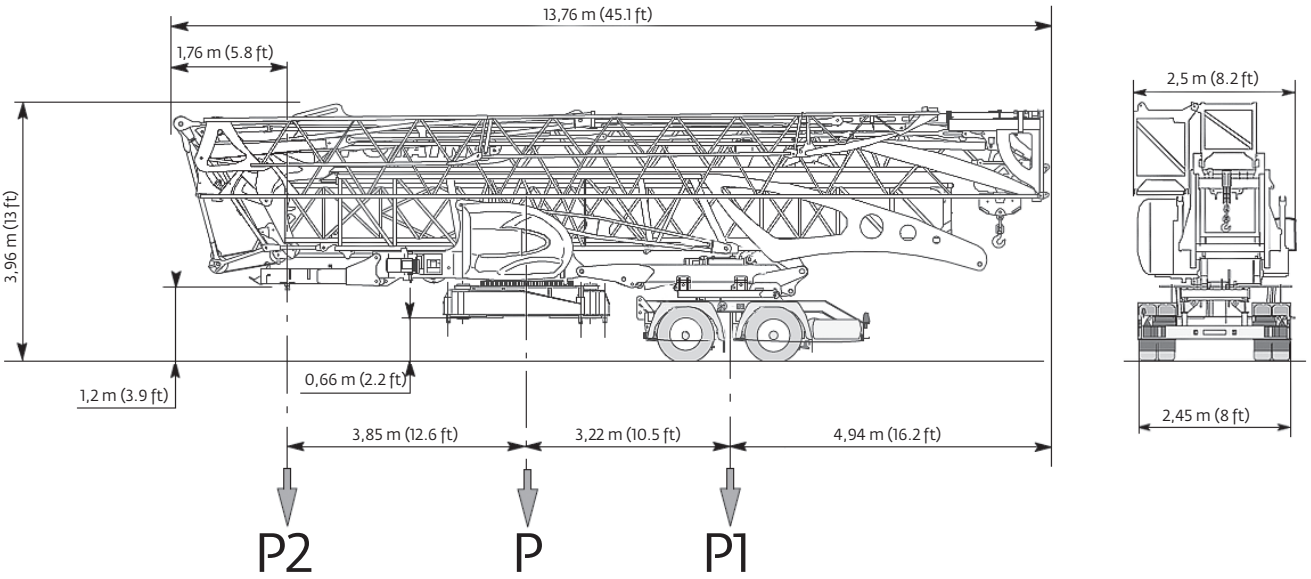
DJ105 / S125
25 km/h / 15.5 mph



NOTE: Dimensions and weights may vary due to manufacturing tolerances.

Weights

SL122 / J215M
80 km/h / 50 mph



**Other axle sets are available.*

Chassis data (in transport position)

	DJ100 / S120 10 km/h / 6 mph		DJ105 / S125 25 km/h / 15.5 mph		SL122/ J215M 80 km/h / 50 mph	
	(meters)	(feet)	(meters)	(feet)	(meters)	(feet)
Overall length	14,96	49.08	14,96	49.08	13,76	45.14
Overall height	3,66	12.01	3,66	12.01	3,96	12.99
Overall width	2,50	8.20	2,50	8.20	2,50	8.20
Overhang	4,37	14.34	4,37	14.34	4,94	16.19

Weights

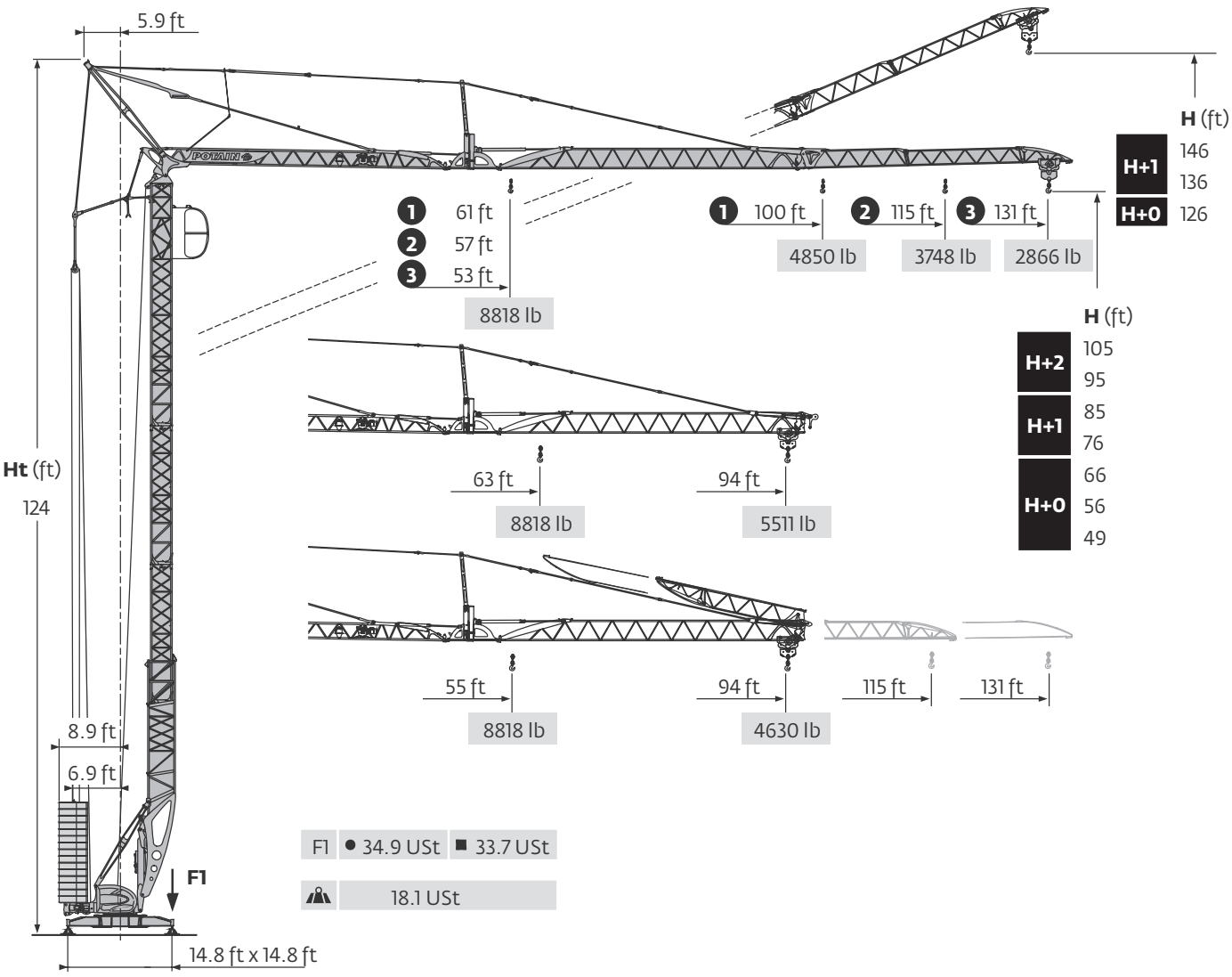
Crane weight less counterweight:	16 400 kg	36,155 lb
Counterweight for operation (14 slabs):	30 800 kg	67,901 lb
Crane with counterweight:	47 200 kg	104,056 lb

Crane with transport equipment

	DJ100 / S120 10 km/h / 6 mph		DJ105 / S125 25 km/h / 15.5 mph		SL122/ J215M 80 km/h / 50 mph	
In transport with no counterweight:	(kilograms)	(pounds)	(kilograms)	(pounds)	(kilograms)	(pounds)
Gross (P)	16 970	37,412	17 260	38,051	18 860	41,578
Rear (P1)	9540	21,032	9750	21,495	13 320	29,365
Front (P2)	7430	16,380	7510	16,556	5540	12,213

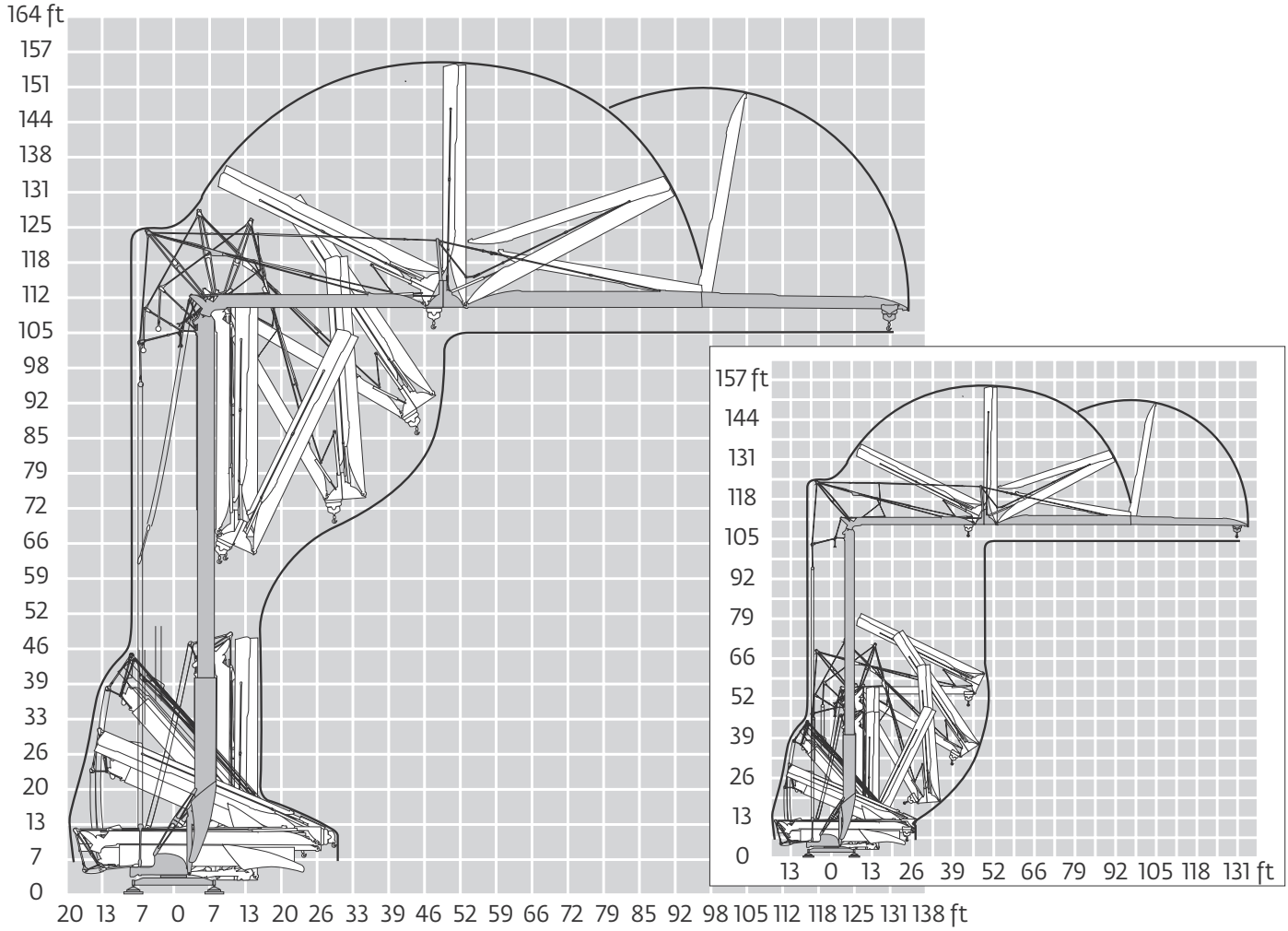
NOTE: Dimensions and weights may vary due to manufacturing tolerances.

Dimensions



THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Crane profile



There are two possible profiles for the Igo T 70 that are beneficial for erecting and dismantling on congested job sites.

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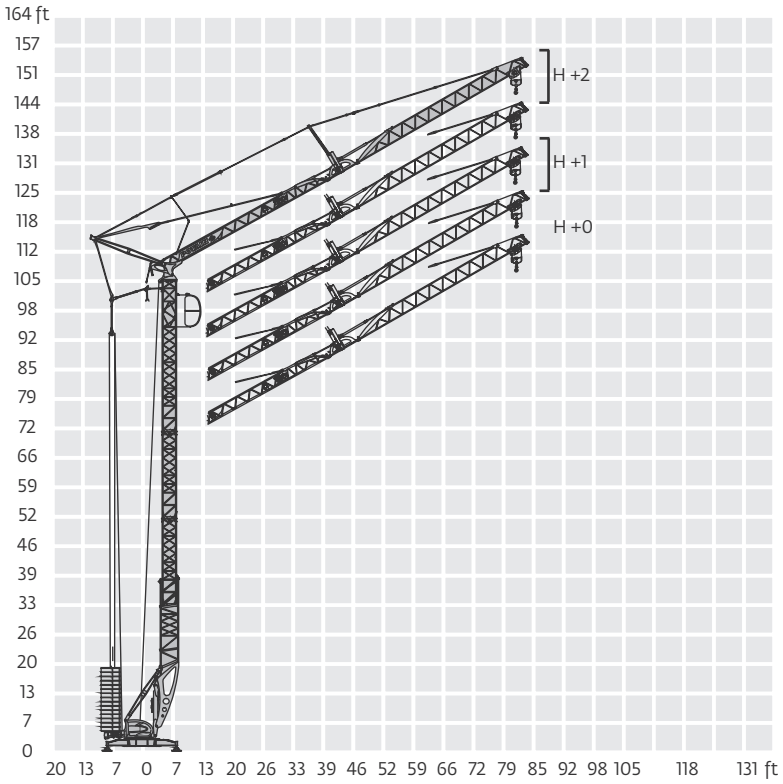
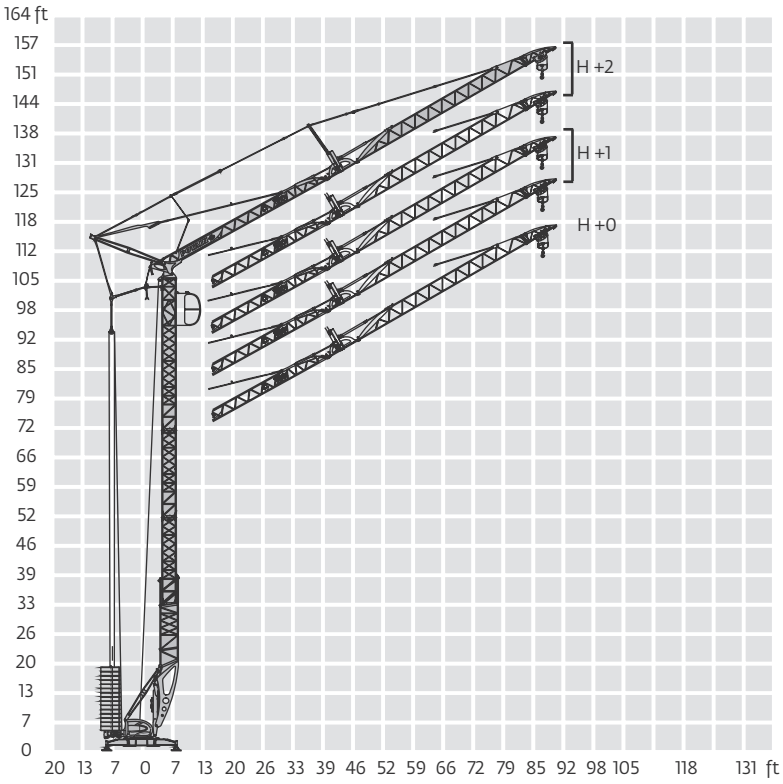
Working range

94 ft jib raised 30°



(ft)	131	115	100	94
H+2	-	-	150	147
	-	148	140	137
H+1	146	138	130	127
	136	128	120	117
H+0	126	118	111	107
	-	-	-	-
	-	-	-	-

100 ft jib raised 30°



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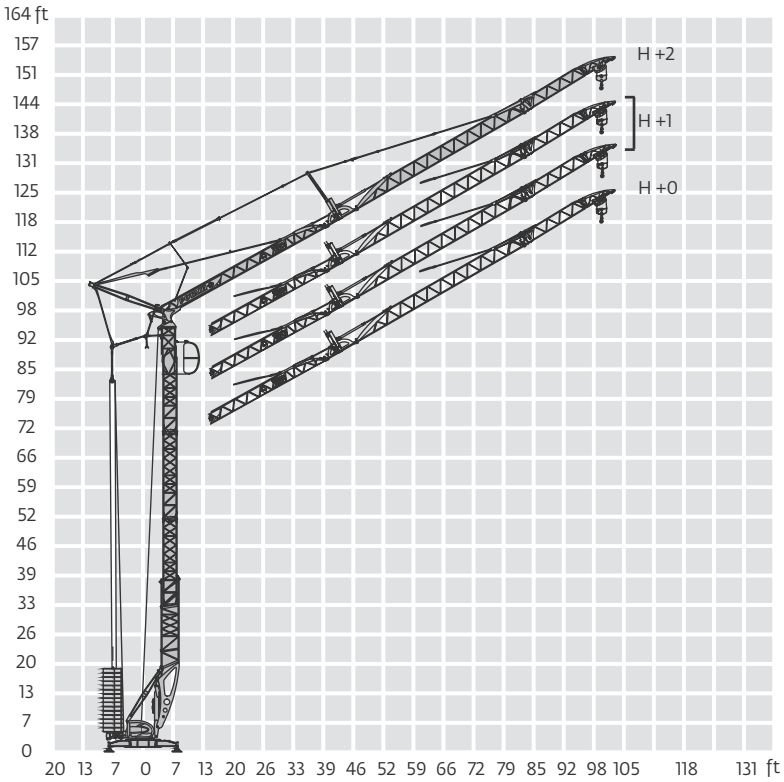
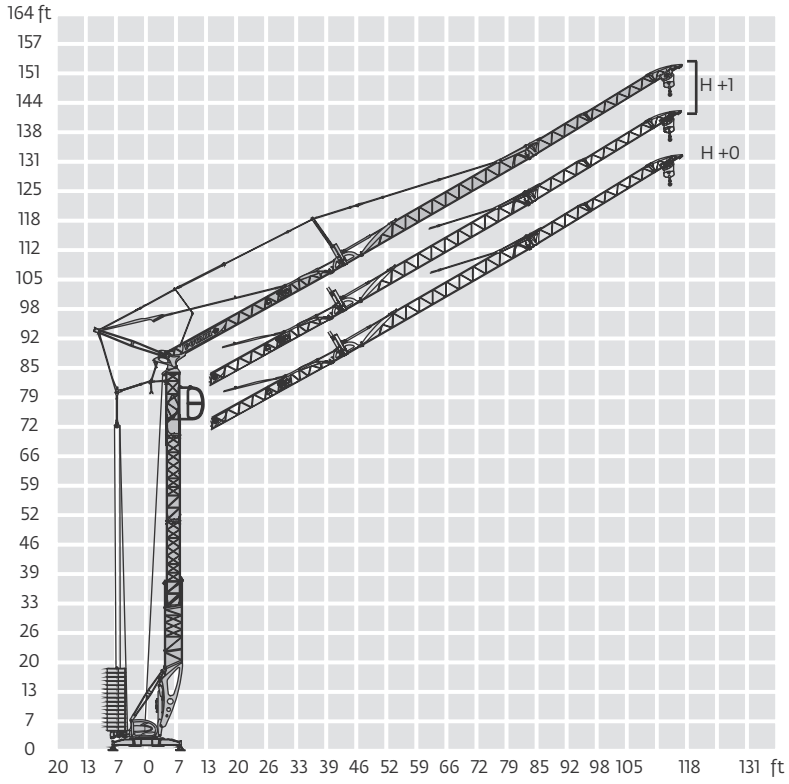
Working range

115 ft jib raised 30°



(ft)	131	115	100	94
H+2	-	-	150	147
	-	148	140	137
H+1	146	138	130	127
	136	128	120	117
H+0	126	118	111	107
	-	-	-	-
	-	-	-	-

131 ft jib raised 30°



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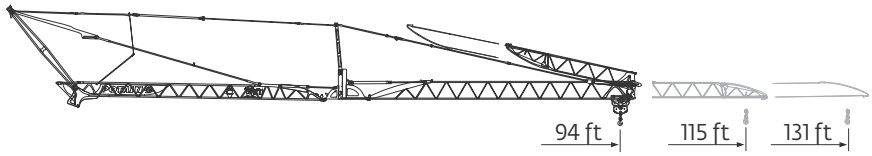
Load charts and mechanisms

131 ft	10 ►	52	59	66	72	79	85	86	92	98	105	112	118	125	131	ft
		8818	7650	6746	5997	5401	4894	4850	4475	4101	3792	3527	3285	3064	2866	lb
								4850	4475	4101	3792	3527	3285	3064	2866	lb

115 ft	10 ►	57	59	66	72	79	85	92	93	98	105	112	115	ft
		8818	8378	7385	6592	5930	5379	4916	4850	4519	4189	3880	3748	lb
									4850	4519	4189	3880	3748	lb

100 ft	10 ►	61	66	72	79	85	92	98	100	ft
		8818	8047	7165	6460	5886	5379	4938	4850	lb
									4850	lb

94 ft	10 ►	63	66	72	79	85	92	94	ft
		8818	8400	7496	6768	6151	5622	5512	lb
								4850	lb

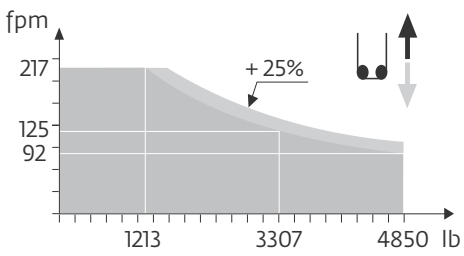


94 ft	10 ►	55	59	66	72	79	85	90	92	94	ft
		8818	8069	7099	6327	5710	5181	4850	4740	4630	lb
								4850	4740	4630	lb

													hp	kW
▲ ● ▼	**15 LVF 11 Optima**	fpm	11	59	92	125	217	6	30	46	62	108	15	11
		lb	4850	4850	4850	3307	1213	8818	8818	8818	6614	2425		
◄ ■ ►	**3 DVF 5**	fpm	49 - 98 - 148 (0 lb ➞ 2866 lb) - 49 - 98 - 135 (2866 lb ➞ 8818 lb)										3	2.2
	RVF 51 Optima +	rpm	0 ➞ 0.8										5.5	4
◄ ● ►			ⓘ											

CEI 38 IEC 38	kVA
400 V (+6% -10%) 50 Hz	15 LVF 11 : 23 kVA
480 V (+6% -10%) 60 Hz	15 LVF 11 : 23 kVA

15 LVF 11 Optima



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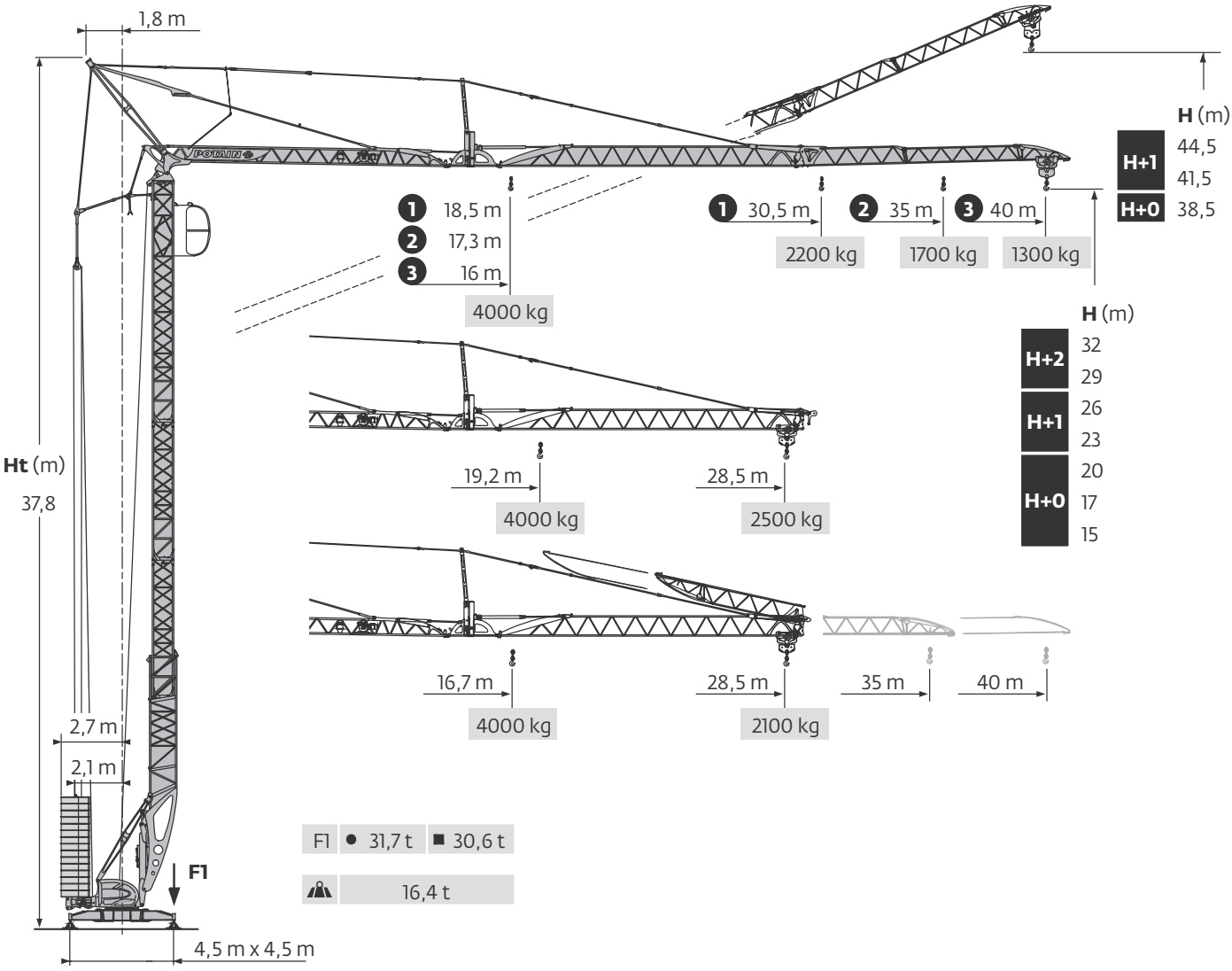
Metric dimensions



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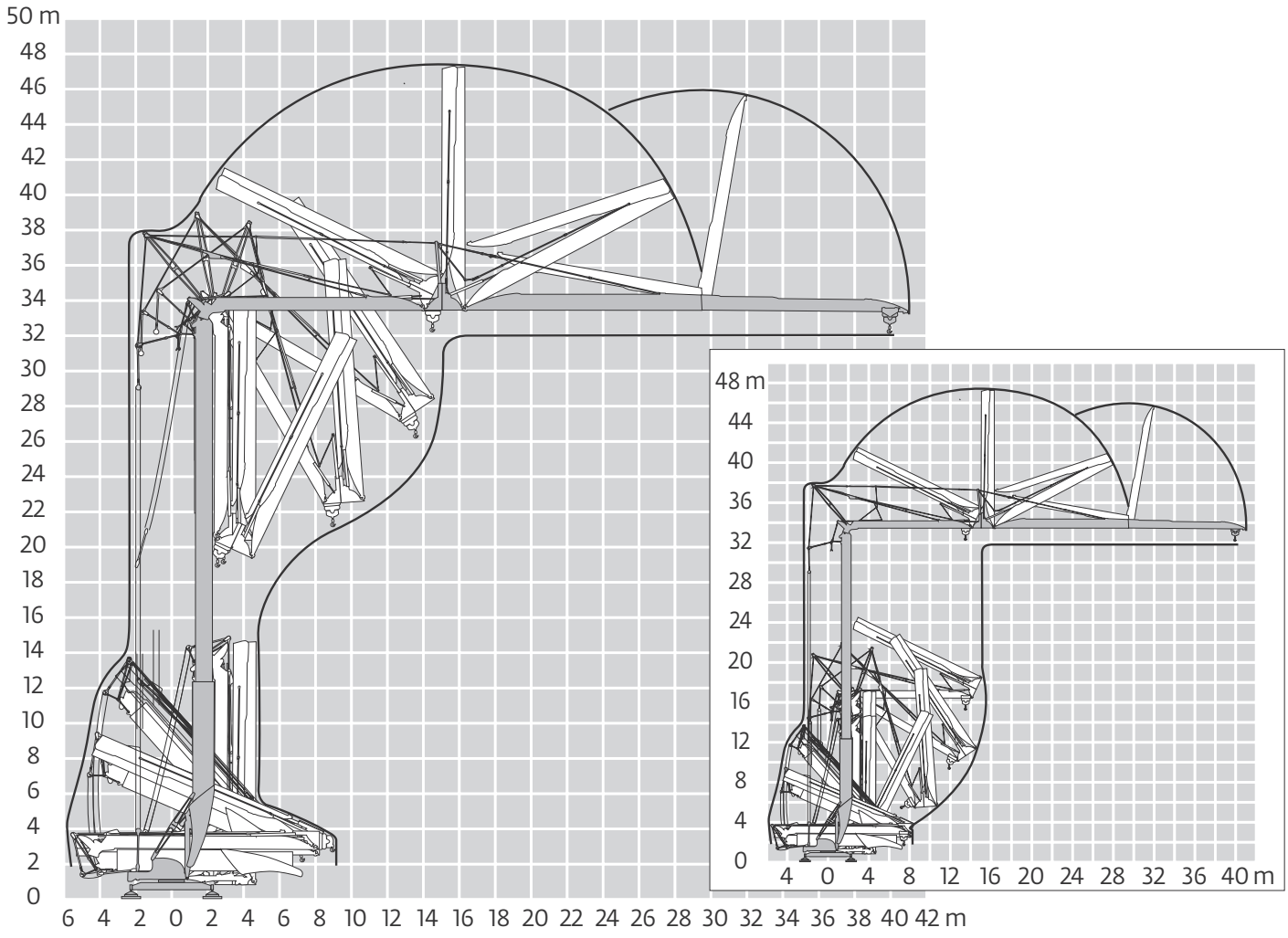
Metric crane profile



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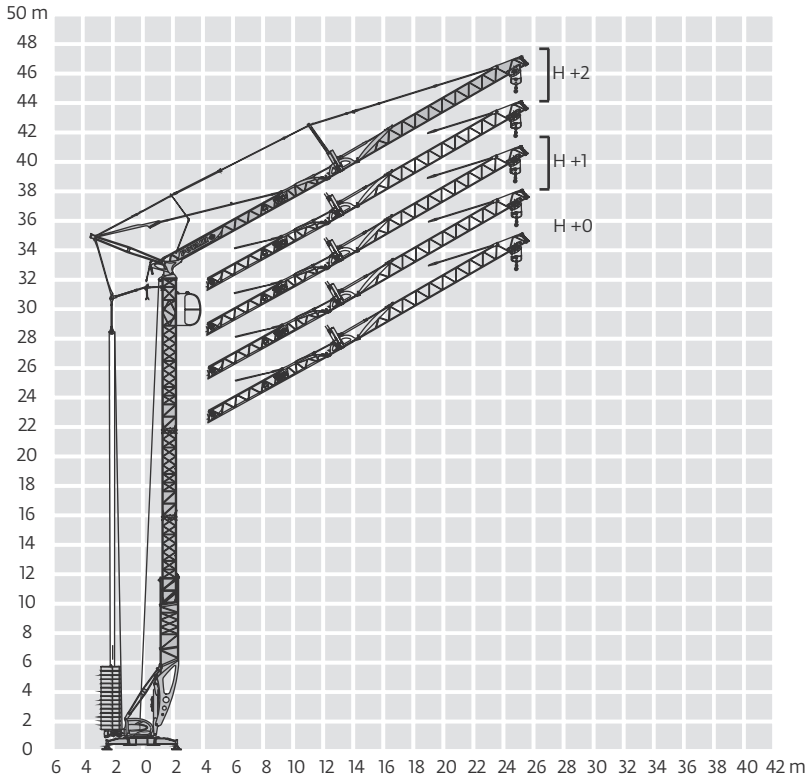
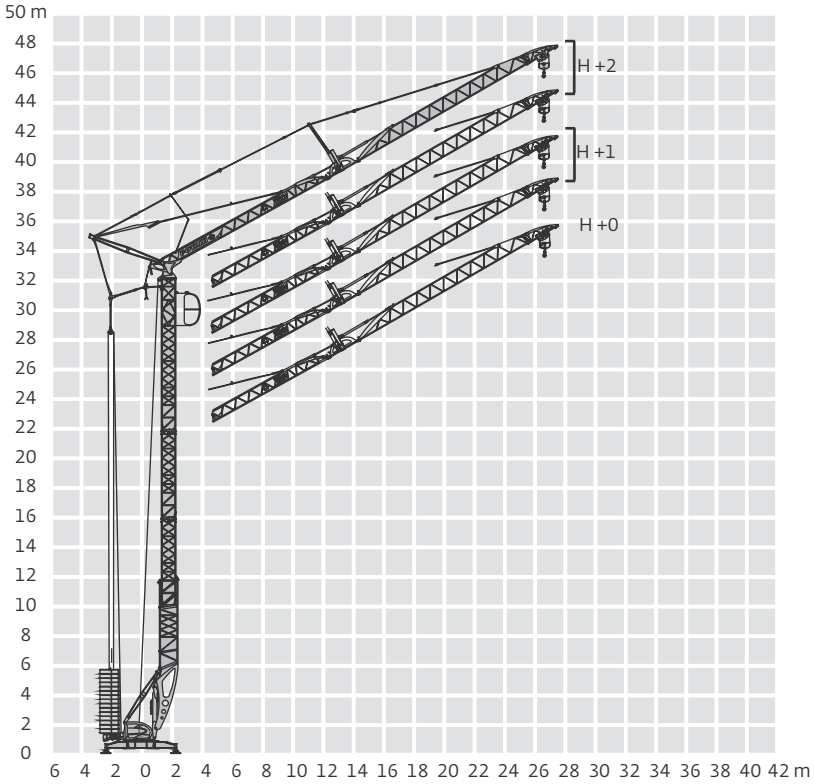
Metric working range

28,5 m jib raised 30°



(m)	40	35	30,5	28,5
H+2			45,7	44,7
		45	42,7	41,7
H+1	44,5	42	39,7	38,7
	41,5	39	36,7	35,7
	38,5	36	33,7	32,7

30,5 m jib raised 30°



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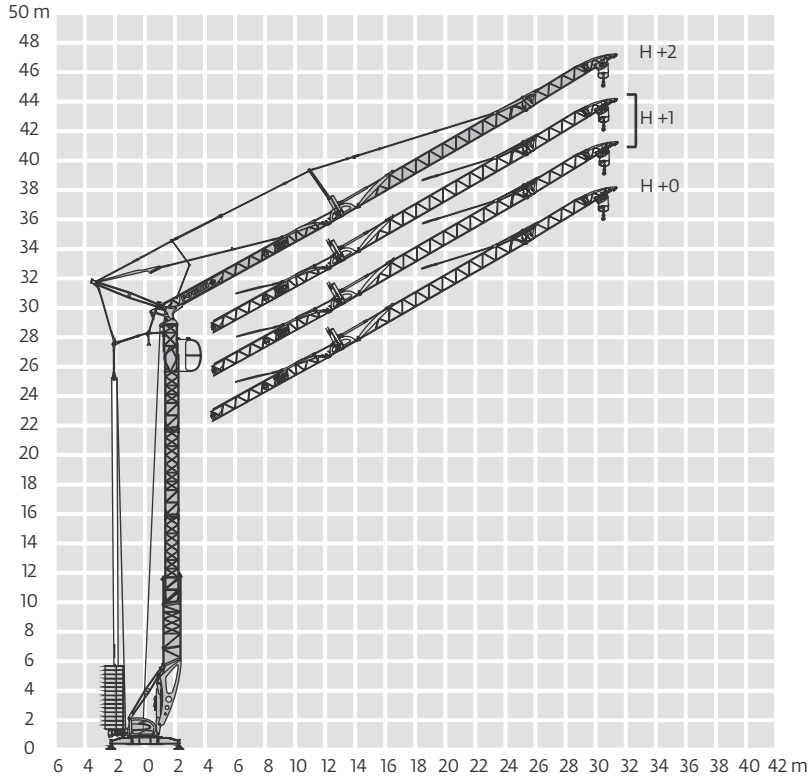
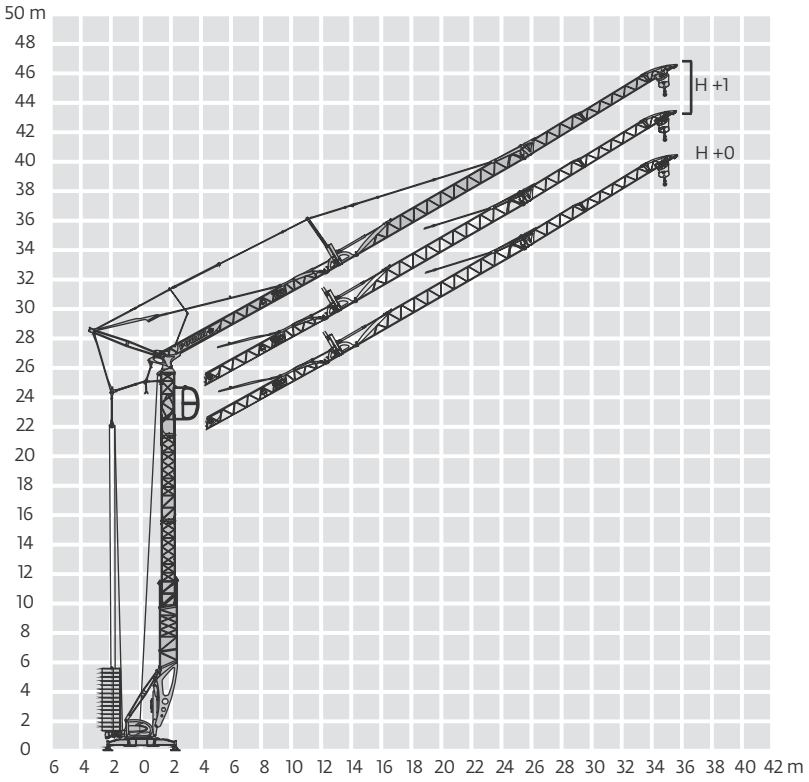
Metric working range

35 m jib raised 30°



(m)	40	35	30,5	28,5
H+2			45,7	44,7
		45	42,7	41,7
H+1	44,5	42	39,7	38,7
	41,5	39	36,7	35,7
	38,5	36	33,7	32,7

40 m jib raised 30°



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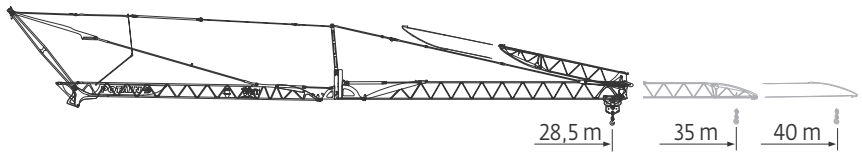
Metric load charts and mechanisms

40 m	3,1 ►	16	18	20	22	24	26	26,2	28	30	32	34	36	38	40	m
		4000	3470	3060	2720	2450	2220	2200	2030	1860	1720	1600	1490	1390	1300	kg
								2200	2030	1860	1720	1600	1490	1390	1300	kg

35 m	3,1 ►	17,3	18	20	22	24	26	28	28,4	30	32	34	35	m
		4000	3800	3350	2990	2690	2440	2230	2200	2050	1900	1760	1700	kg
									2200	2050	1900	1760	1700	kg

30,5 m	3,1 ►	18,5	20	22	24	26	28	30	30,5	m
		4000	3650	3250	2930	2670	2440	2240	2200	kg
									2200	kg

28,5 m	3,1 ►	19,2	20	22	24	26	28	28,5	m
		4000	3810	3400	3070	2790	2550	2500	kg
								2200	kg

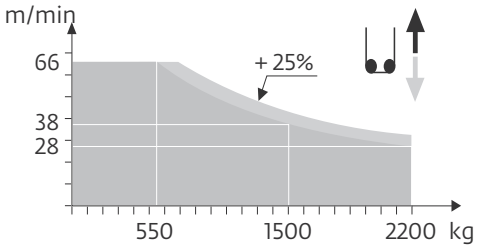


28,5 m	3,1 ►	16,7	18	20	22	24	26	27,4	28	28,5	m
		4000	3660	3220	2870	2590	2350	2200	2150	2100	kg
								2200	2150	2100	kg

																hp	kW	
	15 LVF 11 Optima	m/min	3,5	18	28	38	66	1,8	9	14	19	33	15	11			
		kg	2200	2200	2200	1500	550	4000	4000	4000	3000	1100					
	3 DVF 5	m/min	15 - 30 - 45 (0 kg ➞ 1300 kg) - 15 - 30 - 41 (1300 kg ➞ 4000 kg)										3	2,2			
	RVF 51 Optima +	rpm	0 ➞ 0,8										5,5	4			

CEI 38 IEC 38	kVA
400 V (+6% -10%) 50 Hz	15 LVF 11 : 23 kVA
480 V (+6% -10%) 60 Hz	15 LVF 11 : 23 kVA

15 LVF 11 Optima



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Symbols glossary


Anemometer


Ballast


Ballasting derrick


Chassis


Controls


Electrical requirement


Hoist


Hoisting mechanism


Hydraulic equipment


Jib


Jib extension


Mast


Outrigger


Reeving


Reeving 2-part


Reeving 4-part


Swing


Transport axle


Traveling


Traversing trolley

Traversing trolley and load diagrams


Trolley


Wireless control

Notes

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