

# Potain Igo T 85 A

## Product Guide



### Features

- 6000 kg (13,228 lb) maximum capacity
- 1400 kg (3086 lb) capacity at 45 m (148 ft)
- 45 m (148 ft) maximum operating hook radius
- 51 m (167 ft) maximum hook height with 45 m (148 ft) jib set at 30°
- 38 m (125 ft) maximum tip hook height with jib horizontal
- Variable height lattice mast from 20 m (66 ft) to 38 m (125 ft) with optional mast inserts



# Features



## Optional hydraulic ballasting derrick

The optional hydraulic ballasting derrick arm is removeable and controlled by the radio remote control. This derrick can be adjusted to both radii of the Igo T 85 A as well as the radius of the Igo T 70.

## Remote control with indicators

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.



## Cab

The optional UltraView 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.



## Mast inserts

Increase your working height by up to 15 m (49 ft) with optional mast inserts. Each insert is 6 m (20 ft) and provides the operator with additional heights under hook.

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# Specifications



## Jib

45 m (148 ft) radius standard tri-folding offsettable lattice jib. Two (2) tie bar lines with adjustable lengths allow jib to be offset up to 30°. Opening and aligning are carried out automatically by three (3) hydraulic cylinders.



## Mast

Telescoping lattice mast raised by one (1) hydraulic cylinder. Hook heights of 20 m (66 ft) and 23 m (75 ft) achievable with standard mast. 360° rotation possible during raising sequence.



## \*Optional mast inserts

Three (3) 6 m (20 ft) mast inserts available to reach a maximum horizontal hook height of 38 m (125 ft). Increasing mast height with one insert provides hook heights of 26 m (85 ft) and 29 m (95 ft); second mast insert provides hook heights of 32 m (105 ft) and 35 m (115 ft); third mast insert provides a hook height of 38 m (125 ft).



## Chassis

Outriggers swing and lock into position. 4,5 m (14.8 ft) square outrigger spread with 3,3 m (10.8 ft) maximum turning 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, fifteen (15) slabs each weighing 2200 kg (4850 lb). An additional slab is required if the cab or a mast insert(s) is used.



## \*Optional hydraulic ballasting derrick

Removable and able to be used on other Igo T 85 A and 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 stored 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. Pure SM1 (section of hookblock removed) is possible with gain of 150 kg (331 lb) lifting capacity.



## \*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 wind speeds up to 72 km/h (45 mph) and weather vane in winds up to 150 km/h (93 mph).



## 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 umbilical cord ensures continual operation in case of battery or other malfunction of the wireless remote control.



## Swing

RVF 151 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 and jib easier. Multiple rpm speeds possible depending upon parameter selected.



## Hoist

20 LVF 15 Optima: 20 HP variable frequency hoist with 1,5 t (1.7 US t) 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

5 DVF 5: 5.5 HP variable frequency hoist with 500 kg (1102 lb) line pull. 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)

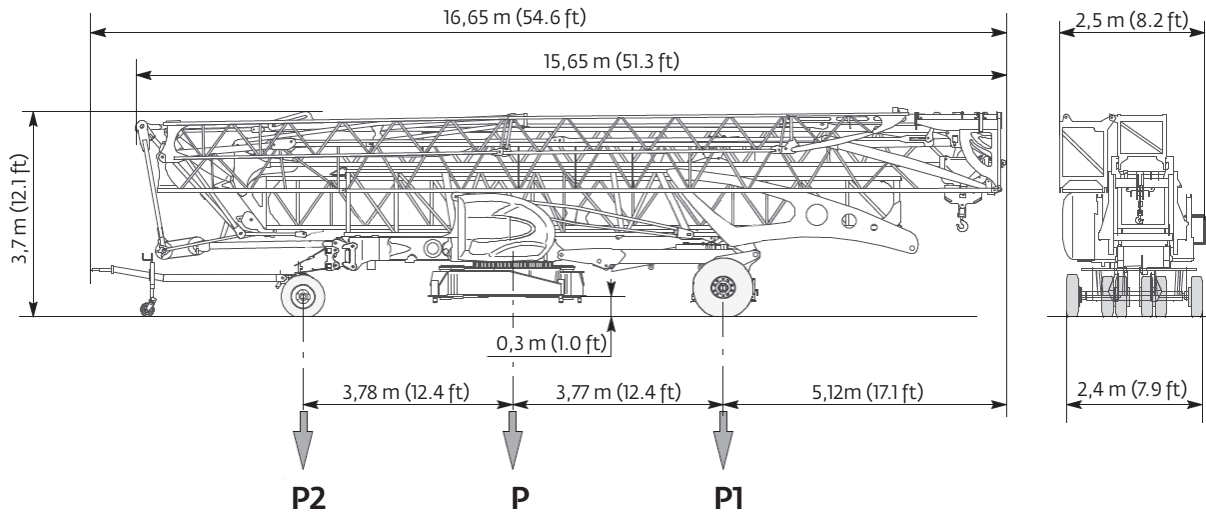
## \*Optional equipment

- \* STANDARD NORTH AMERICAN SPECIFICATION: includes offsettable jib, 2 mast inserts, anemometer, 16 counterweight slabs and cold weather kit
- \* Mast inserts 6 m (20 ft)
- \* Fixed height UltraView cab
- \* Access ladders
- \* Transport axles and kits
- \* Top Zone
- \* Top Tracing II
- \* Dialog Wind

\*Denotes optional equipment  
\*\*Requires optional anemometer

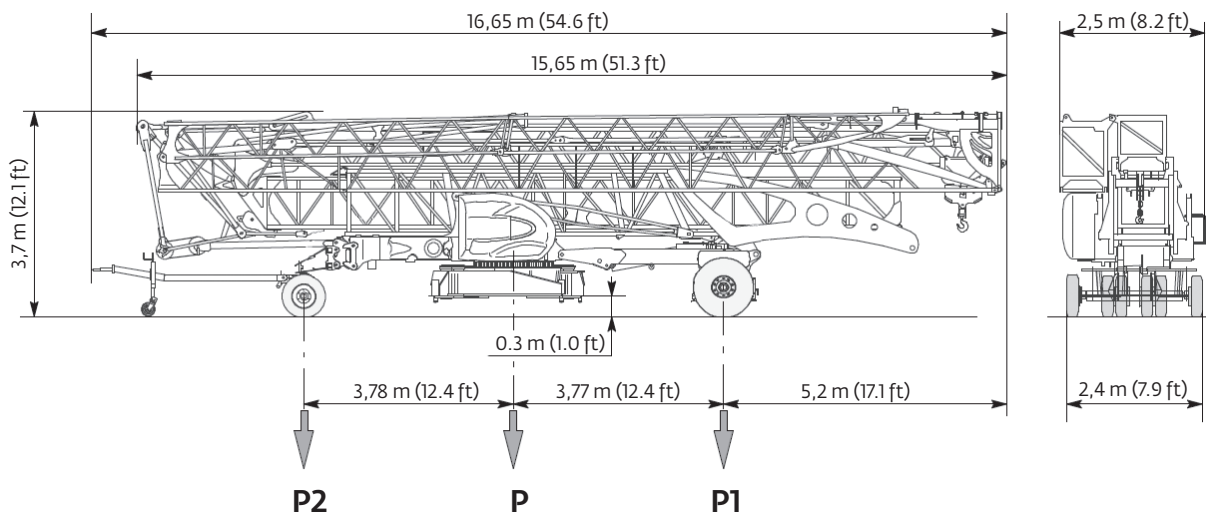
## DJ100 / S120

10 km/h / 6 mph



## DJ105 / S125

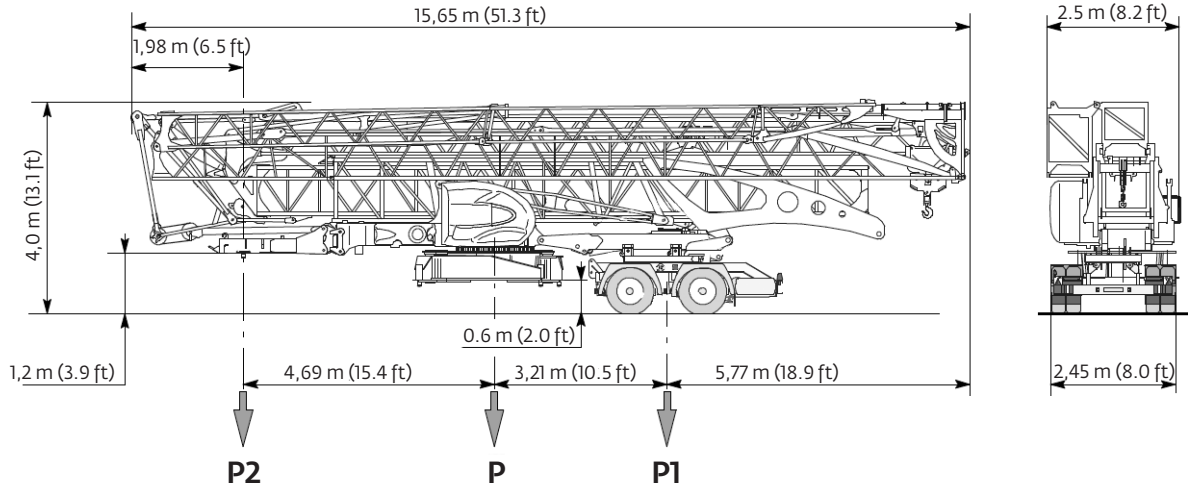
25 km/h / 15.5 mph



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	16,65	54.6	16,65	54.6	15,65	51.3
Overall height	3,7	12.1	3,7	12.1	4,0	13.1
Overall width	2,5	8.2	2,5	8.2	2,5	8.2
Overhang	5,2	17.1	5,2	17.1	5,8	18.9

### Weights

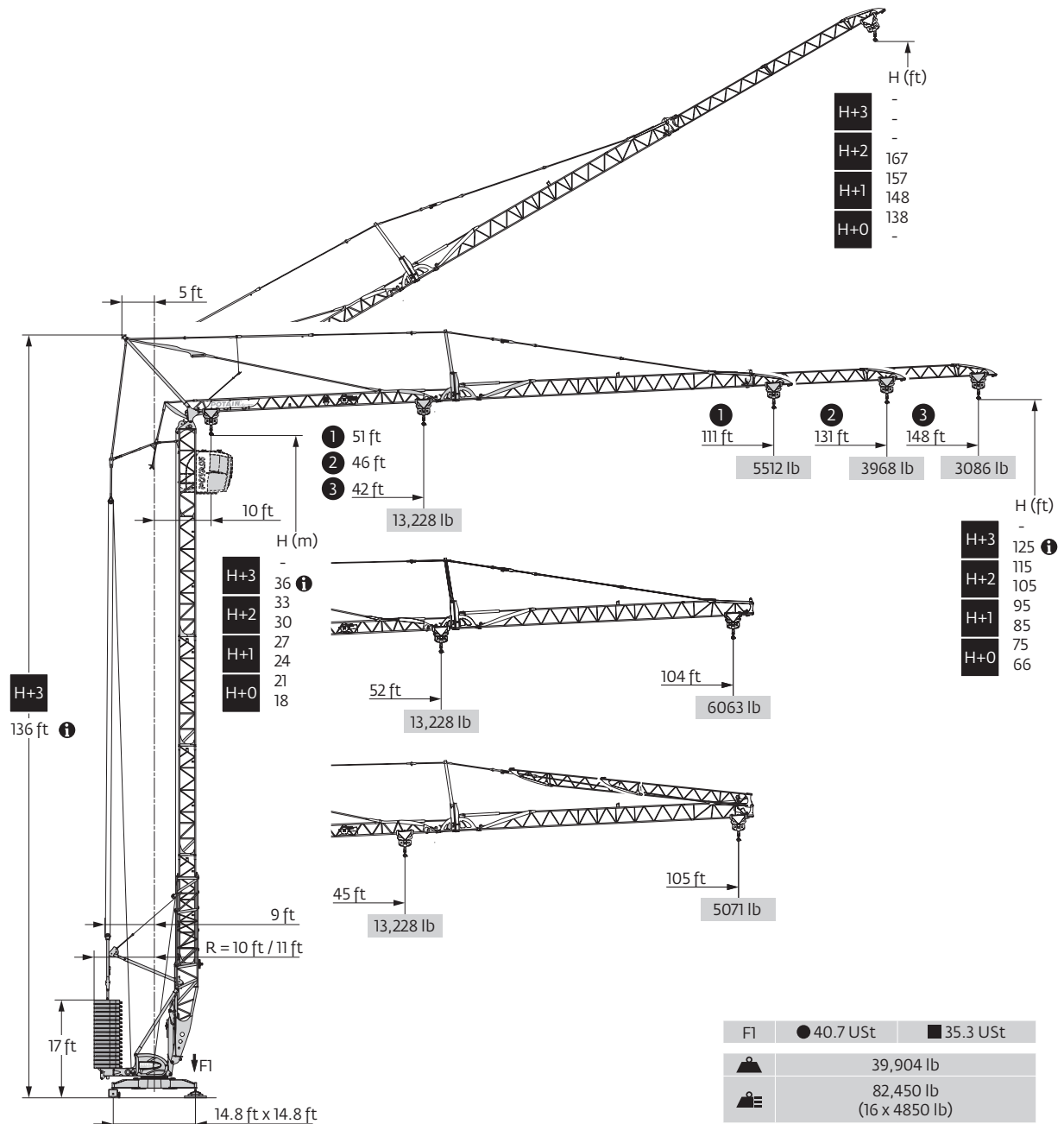
Crane weight less counterweight:	18 100 kg	39,904 lb
Counterweight for operation:	33 000 kg	72,753 lb
Crane with counterweight:	51 100 kg	112,656 lb

### 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)	
	kilograms	(pounds)	kilograms	(pounds)	kilograms	(pounds)
In transport with no counterweight:						
Gross (P)	19 360	42,681	19 650	43,320	21 050	46,407
Rear (P1)	11 491	25,333	11 701	25,796	15 075	33,234
Front (P2)	7869	17,869	7949	17,524	5975	13,172

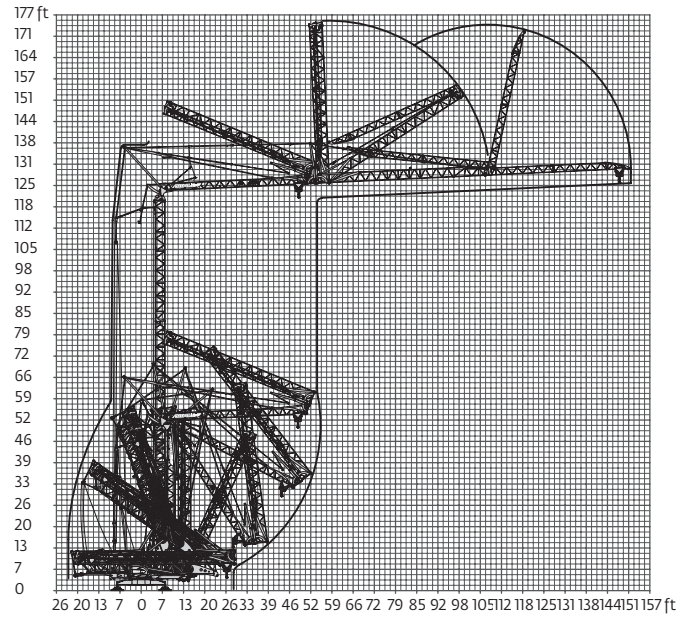
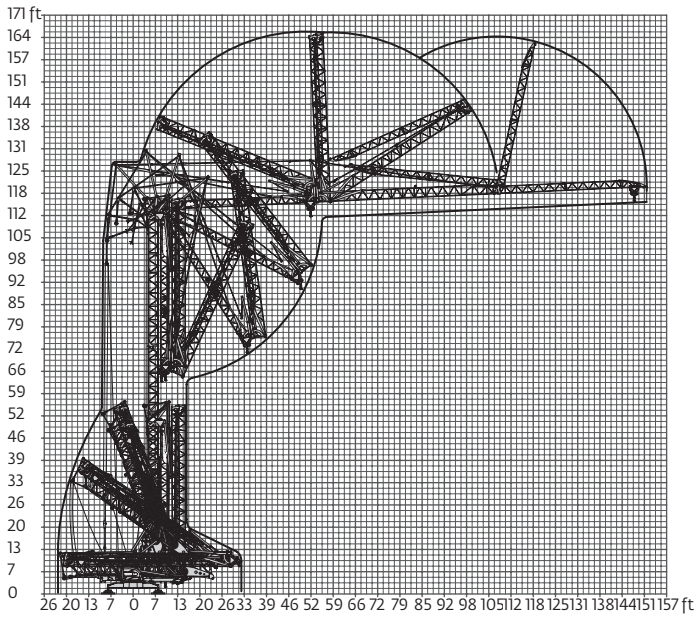
NOTE: Dimensions and weights may vary due to manufacturing tolerances.

# Dimensions

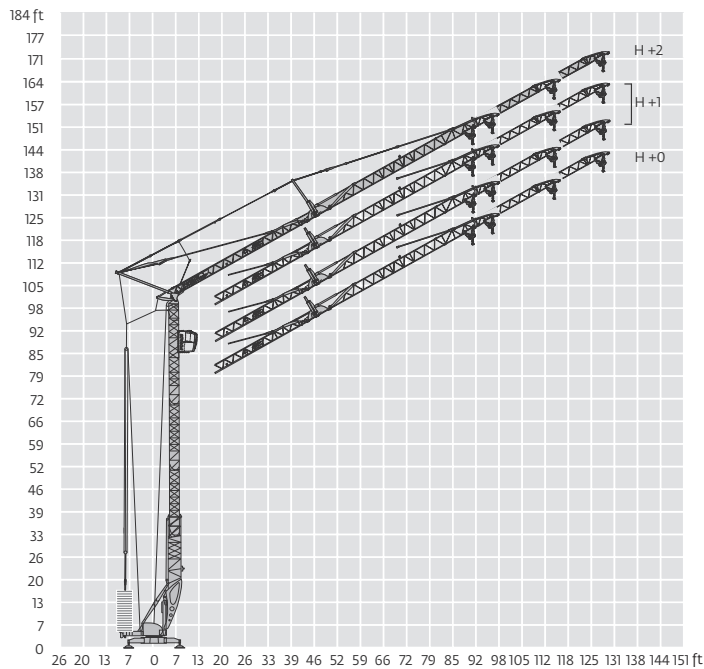


THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

# Crane profile

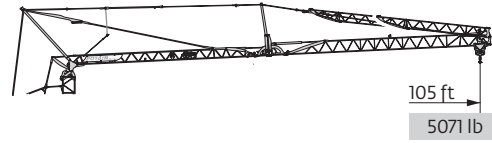
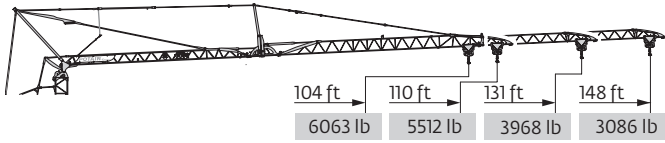


Jib raised 30°



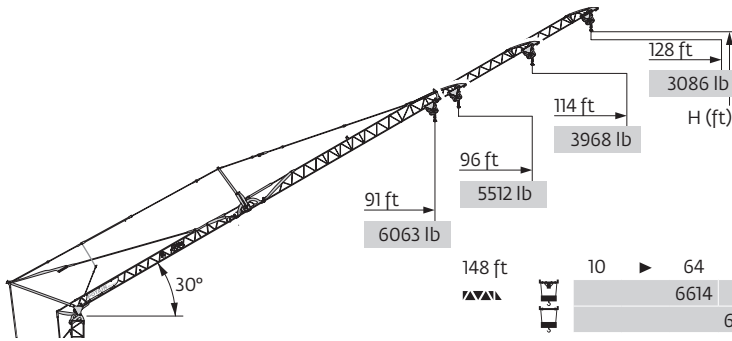


# Load charts



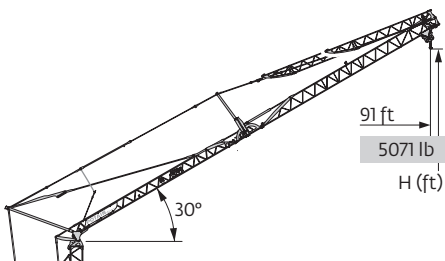
148 ft	10	▶	42	46	52	59	66	73	78	79	85	92	98	105	112	118	125	131	138	148	ft
▲▲▲			13228	11685	9921	8598	7496	6614	-	6063	5512	5071	4630	4299	3968	3638	3417	3197	2976	2756	lb
▲▲▲							6614	-	6063	5512	5071	4630	4299	3968	3638	3417	3197	2976	2756		lb
▲▲▲								6614	6504	5952	5401	4960	4630	4299	4079	3748	3527	3307	3086		lb
131 ft	10	▶	46	52	59	66	72	81	85	85	92	98	105	112	118	125	131				ft
▲▲▲			13228	11023	9700	8378	7496	6614	-	6173	5622	5181	4850	4409	4189	3858	3638				lb
▲▲▲							6614	-	6173	5622	5181	4850	4409	4189	3858	3638					lb
▲▲▲								6614	6614	6063	5622	5181	4850	4519	4189	3968					lb
111 ft	10	▶	51	59	66	72	79	85	91	95	98	105	111								ft
▲▲▲			13228	11023	9700	8598	7716	7055	6614	-	5952	5512	5181								lb
▲▲▲									6614	-	5952	5512	5181								lb
▲▲▲										6614	6283	5842	5512								lb
104 ft	10	▶	52	59	66	72	79	85	92	96	98	104									ft
▲▲▲			13228	11244	9921	8818	7937	7275	6614	-	6173	5732									lb
▲▲▲									6614	-	6173	5732									lb
▲▲▲										6614	6504	6063									lb
148 ft	10	▶	45	52	59	66	72	79	84	92	98	105									ft
▲▲▲			13228	11023	9480	8378	7496	6614	-	5622	5181	4740									lb
▲▲▲							6614	-	5622	5181	4740										lb
▲▲▲								6614	5952	5512	5071										lb

▲▲▲	148 ft	131 ft	111 ft	104 ft
H+3	-	-	-	-
H+2	167	159	149	146
H+1	157	149	139	136
H+0	138	130	119	116
	-	-	-	-



148 ft	10	▶	64	68	72	79	85	92	98	105	112	118	125	128	ft	
▲▲▲			6614	-	5732	5181	4630	4189	3858	3527	3307	3086	2866	2756	lb	
▲▲▲					6614	6173	5512	5071	4630	4189	3968	3638	3417	3197	3086	lb
131 ft	10	▶	70	74	79	85	92	98	105	114					ft	
▲▲▲			6614	-	5732	5181	4740	4409	4079	3638					lb	
▲▲▲					6614	6173	5622	5071	4740	4409	3968				lb	
111 ft	10	▶	79	82	85	92	96								ft	
▲▲▲			6614	-	5952	5512	5181								lb	
▲▲▲					6614	6393	5842	5512							lb	
104 ft	10	▶	80	84	85	91									ft	
▲▲▲			6614	-	6173	5732									lb	
▲▲▲					6614	6504	6063								lb	

▲▲▲	148 ft	131 ft
H+3	-	-
H+2	-	-
H+1	146	136
H+0	126	116
	-	-











148 ft	10	▶	70	73	79	85	91	ft	
▲▲▲			6614	-	5732	5181	4740	lb	
▲▲▲					6614	6063	5512	5071	lb

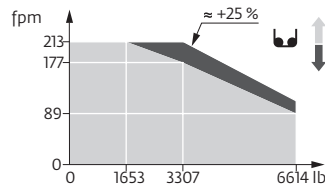
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Potain Igo T 85 A The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

# Mechanisms

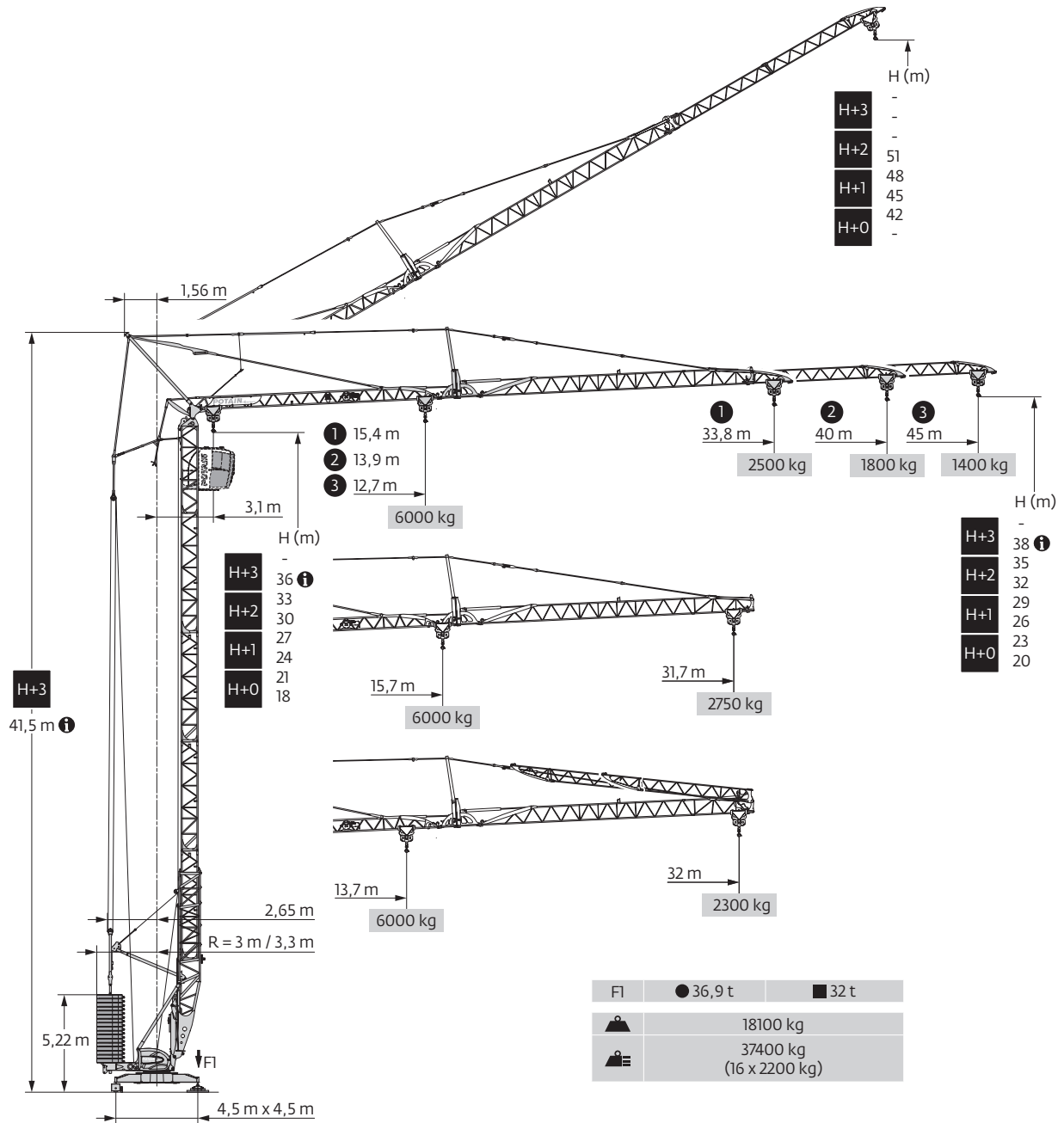
400 V - 50 Hz 480 V - 60 Hz													hp	kW
	20 LVF 15 Optima	fpm	11	52	89	177	213	5	26	44	89	107	20	15
		lb	6614	6614	6614	3307	1653	13,228	13,228	13,228	6614	3307		
	5 DVF 5	fpm	49 - 98 - 131 (4409 → 13,228 lb) 49 - 98 - 180 (0 → 4409 lb)									5.5	4	
	RVF 151 Optima+	rpm	0 → 0.8									5.5	4	
	TVF 324	fpm	82									2 x 4	2 x 3	

 IEC 60204-32	 kVA
400 V (+10% -10%) 50 Hz 480 V (+6% -10%) 60 Hz	31 kVA



	Hoisting
	Trolleying
	Slewing
	Traveling

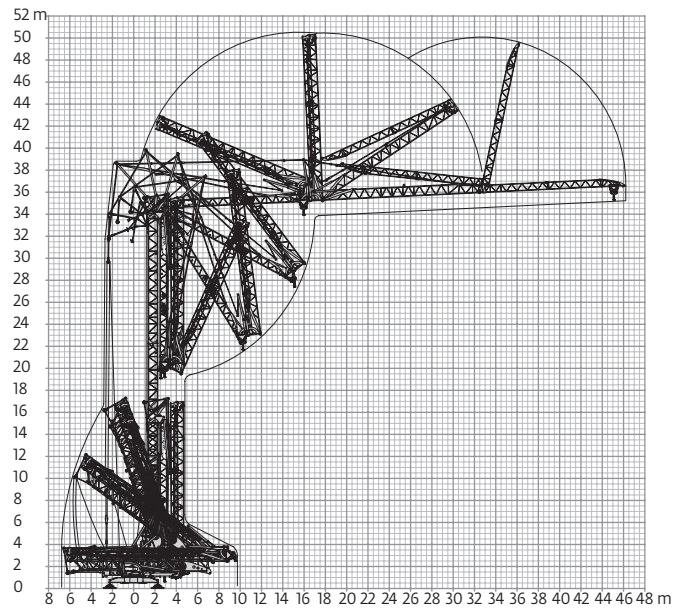
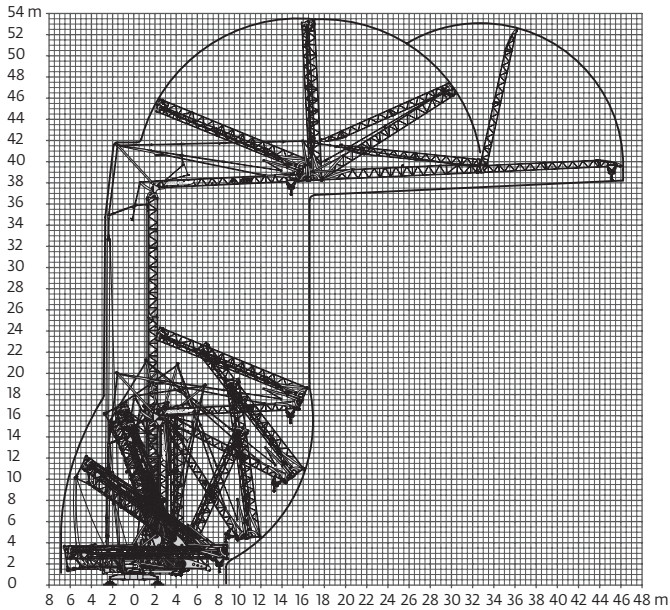
# Metric dimensions



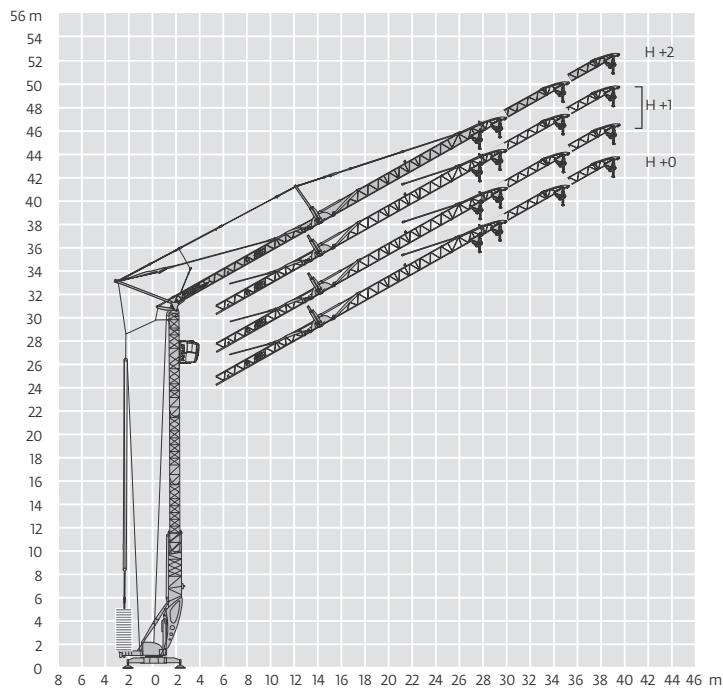
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Potain Igo T 85 A The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

# Metric crane profile



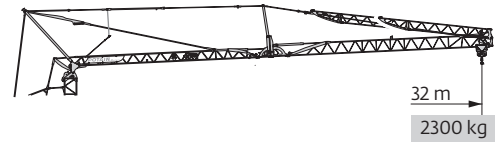
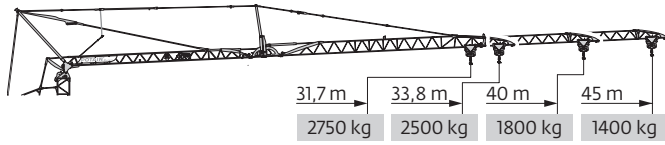
Jib raised 30°



*THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.*

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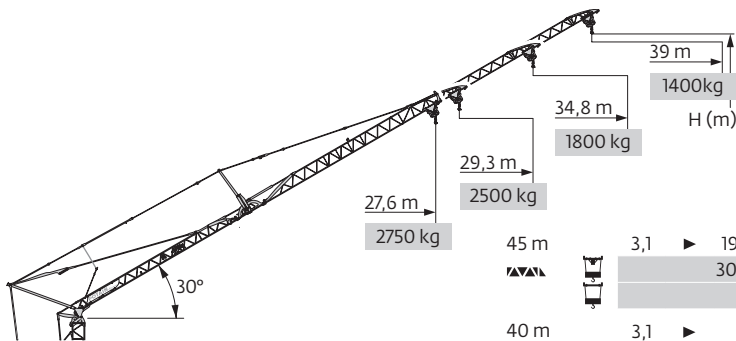
# Metric load charts



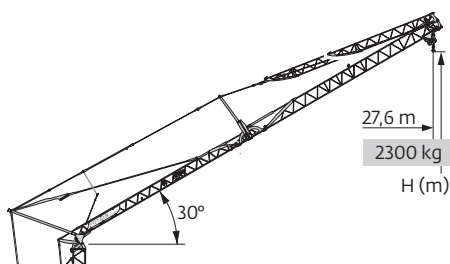
45 m	3,1	▶	12,7	14	16	18	20	22,4	23,7	24	26	28	30	32	34	36	38	40	42	45	m	
▲▲▲	6000 5300 4500 3900 3400 3000 - 2750 2500 2300 2100 1950 1800 1650 1550 1450 1350 1250																				kg	
▲▲▲	3000 - 2750 2500 2300 2100 1950 1800 1650 1550 1450 1350 1250																				kg	
▲▲▲	3000 2950 2700 2450 2250 2100 1950 1850 1700 1600 1500 1400																				kg	
40 m	3,1	▶	13,9	16	18	20	22	24,6	25,9	26	28	30	32	34	36	38	40					m
▲▲▲	6000 5000 4400 3800 3400 3000 - 2800 2550 2350 2200 2000 1900 1750 1650																				kg	
▲▲▲	3000 - 2800 2550 2350 2200 2000 1900 1750 1650																				kg	
▲▲▲	3000 3000 2750 2550 2350 2200 2050 1900 1800																				kg	
33,8 m	3,1	▶	15,4	18	20	22	24	26	27,6	28,9	30	32	33,8									m
▲▲▲	6000 5000 4400 3900 3500 3200 3000 - 2700 2500 2350													kg								
▲▲▲	3000 - 2700 2500 2350													kg								
▲▲▲	3000 2850 2650 2500													kg								
31,7 m	3,1	▶	15,7	18	20	22	24	26	28,1	29,4	30	31,7									m	
▲▲▲	6000 5100 4500 4000 3600 3300 3000 - 2800 2600												kg									
▲▲▲	3000 - 2800 2600												kg									
▲▲▲	3000 2950 2750												kg									

45 m	3,1	▶	13,7	16	18	20	22	24,1	25,5	28	30	32			m
▲▲▲	6000 5000 4300 3800 3400 3000 - 2550 2350 2150												kg		
▲▲▲	3000 - 2550 2350 2150												kg		
▲▲▲	3000 2700 2500 2300												kg		

▲▲▲	45 m	40 m	33,8 m	31,7 m
H+3	-	-	-	-
H+2	-	-	-	-
H+1	51	48,5	45,4	44,4
H+0	48	45,5	42,4	41,4
	45	42,5	39,4	38,4
	42	39,5	36,4	35,4
	-	-	-	-



45 m	3,1	▶	19,6	20,7	22	24	26	28	30	32	34	36	38	39	m	
▲▲▲	3000 - 2600 2350 2100 1900 1750 1600 1500 1400 1300 1250														kg	
▲▲▲	3000 2800 2500 2300 2100 1900 1800 1650 1550 1450 1400														kg	
40 m	3,1	▶	21,4	22,5	24	26	28	30	32	34,8						m
▲▲▲	3000 - 2600 2350 2150 2000 1850 1650										kg					
▲▲▲	3000 2800 2550 2300 2150 2000 1800										kg					
33,8 m	3,1	▶	24	25,1	26	28	29,3								m	
▲▲▲	3000 - 2700 2500 2350							kg								
▲▲▲	3000 2900 2650 2500							kg								
31,7 m	3,1	▶	24,5	25,6	26	27,6						m				
▲▲▲	3000 - 2800 2600						kg									
▲▲▲	3000 2950 2750						kg									









45 m	3,1	▶	21,2	22,2	24	26	27,6			m
40 m	3000 - 2600 2350 2150									kg
▲▲▲	3000 2750 2500 2300									kg



▲▲▲	45 m	40 m
H+3	-	-
H+2	-	-
H+1	44,4	41,4
H+0	38,4	35,4
	-	-

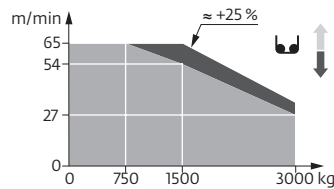
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# Metric mechanisms

400 V - 50 Hz 480 V - 60 Hz													ch - PS hp	kW
	20 LVF 15 Optima	m/min	3,2	16	27	54	65	1,6	8	13,5	27	32,5	20	15
		kg	3000	3000	3000	1500	750	6000	6000	6000	3000	1500		
	5 DVF 5	m/min	15 - 30 - 40 (2000 → 6000 kg) 15 - 30 - 55 (0 → 2000 kg)									5,5	4	
	RVF 151 Optima+	tr/min U/min rpm	0 → 0,8									5,5	4	
	TVF 324	m/min	25									2 x 4	2 x 3	

 IEC 60204-32	 kVA
400 V (+10% -10%) 50 Hz 480 V (+6% -10%) 60 Hz	31 kVA



	Hoisting
	Trolleying
	Slewing
	Traveling

# Symbols glossary



Jib



Mast



Anemometer



Swing



Outrigger



Chassis



Hydraulic equipment



Controls



Electrical requirement



Ballast



Transport axle



Ballasting derrick



Reeving



Hoist



Trolley



Jib extension

## Manitowoc Cranes

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Monterrey

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Santiago

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Seoul

**Philippines**

Makati City

**Singapore**

### Factories

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TaiAn

Zhangjiagang

**France**

Charlieu

Moulins

**Germany**

Wilhelmshaven

**India**

Pune

**Italy**

Niella Tanaro

**Portugal**

Baltar

Fânzeres

**Slovakia**

Saris

**USA**

Manitowoc

Port Washington

Shady Grove

This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.