

# 3000 HD

*Duty Cycle Crawler Crane*



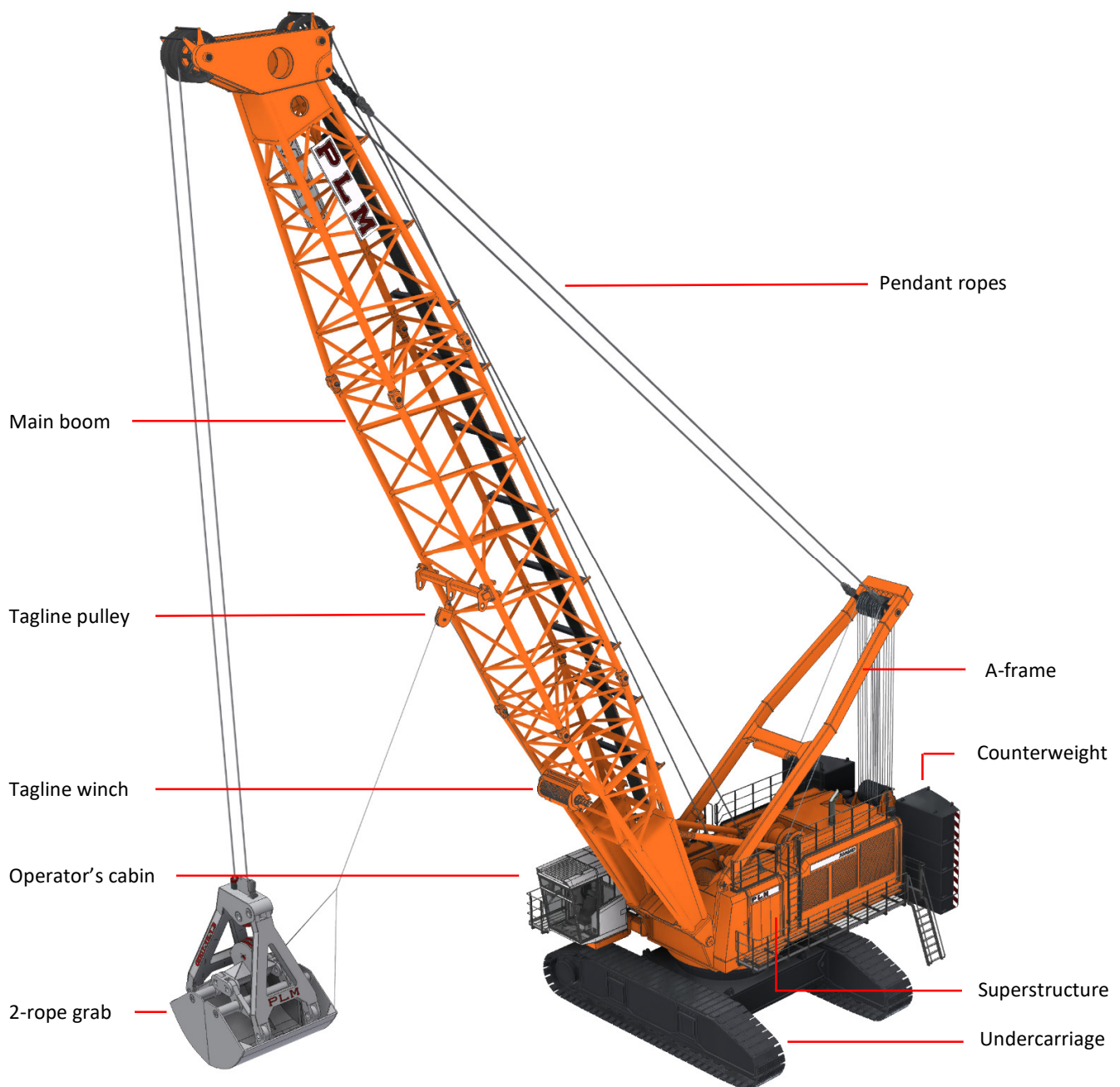
# General

The PLM 3000 HD is a Heavy Duty 300 ton-class crawler crane in the PLM Duty Cycle Crawler Crane Line, other cranes in this line are:

- PLM 1000 HD (100 tons)
- PLM 1300 HD (130 tons)
- PLM 2000 HD (200 tons)

All HD cranes are designed for continuous duty cycle operation such as dredging, transshipping, drop ball operation, dragline operation and dynamic compaction in combination with high performance lifting capabilities.

PLM cranes are designed with operators comfort, reliability and a long length of life as primary considerations. They can withstand heavy duty clamshell or hoisting work in continuous operation in a harsh environment.



# Technical



## Diesel Engine

Make	:	Caterpillar	
Type	:	C32 ACERT	
Power	:	1125 bhp (C-rating)	839 bkW
Revolutions	:	1800 rpm	
Cylinders	:	V-12	
Displacement	:	1959 in <sup>3</sup>	32.1 liter
Emission	:	EPA Tier 4 final	
Battery	:	24 Volt	
Fuel tank	:	898 US-gallon	3400 liter

The Caterpillar C32 meets the EPA Tier 4 final emission standard for non-road engines without the use of AdBlue. Depending on the type of operation the RPM's of the diesel engine can be adjusted to optimize fuel consumption and reduce noise emission. The fuel system is equipped with a water separator, primary and secondary fuel filters for reliable operation. A fuel gauge and low fuel level alarm are integrated on the crane information display mounted in the operators cabin.



## Hydraulics

System	:	Closed loop circuit, every main function has its own pump(s)	
System volume	:	780 US-gallon	2950 liters
Working pressure, max.	:	5500 psi	380 bar
Grab holding winch	:	337 gpm	1275 l/min
Grab closing winch	:	337 gpm	1275 l/min
Boom hoist winch	:	169 gpm	639 l/min
Slewing gear(s)	:	301 gpm	1140 l/min

The closed loop system enables smooth and precise control in both directions. All hydraulic axial piston pumps are connected to a 4-point pump splitter box that is mounted to the fly(wheel) housing of the diesel engine with flexible coupling. Extensive filtering is provided throughout the system on both the high pressure and low pressure side. Standard equipment includes two high-capacity oil coolers for operation in high ambient temperatures. Pressure cut-offs are utilized to protect the pumps and motors. Pressure switches will shut down the system automatically in case of a hose burst.



## Slewing

Diameter slewing ring	:	150"	Ø3800 mm
Type	:	3-row roller bearing	
Gearing	:	Internal	
Type	:	Planetary	
Quantity	:	4	
Motor	:	Hydraulic, axial piston	
Slewing Speed	:	0-3.2 rpm	

The large diameter bearing has internal gearing for protection of the teeth in combination with four slewing gears. The slewing speed can be proportionally adjusted. Slewing control has 3 settings, 25, 50 or 100 % of the slewing speed over the whole range of the joystick. The maximum slewing torque is available in all 3 settings.

# Technical



The PLM 3000 HD in 2-rope configuration is standard equipped with the following 4 winches;

## Grab Holding winch

Type	:	standard (controlled freefall as an option)	
Line pull	:	110,230 lbs (55.1 tons)	50.000 kg
Number of layers	:	4	
Wire rope diameter	:	1x 1-7/8"	Ø48 mm
Drum size	:	Ø43.7 x 40.2"	Ø1.110 x 1.020 mm
Rope storage (4 layers)	:	961 ft.	293 meter
First layer capacity, effective	:	180 ft.	55 meter
Line speed	:	0-354 ft/min	0-108 m/min

## Grab Closing winch

Type	:	standard (controlled freefall as an option)	
Line pull	:	110,230 lbs (55.1 tons)	50.000 kg
Number of layers	:	4	
Wire rope diameter	:	1x 1-7/8"	Ø48 mm
Drum size	:	Ø43.7 x 40.2"	Ø1.110 x 1.020 mm
Rope storage (4 layers)	:	961 ft.	293 meter
First layer capacity, effective	:	180 ft.	55 meter
Line speed	:	0-354 ft/min	0-108 m/min

## Boom Hoist winch

Type	:	standard	
Line pull	:	72,750 lbs (36.4 tons)	33.000 kg
Number of layers	:	5	
Wire rope diameter	:	1-1/8"	Ø28.6 mm
Drum size (2x)	:	Ø29.1 x 14.2"	Ø740 x 360 mm
Rope storage (5 layers)	:	2x 518 ft.	2x 158 meter
Line speed	:	2x 151 ft/min	2x 46 m/min
Boom hoist speed	:	124 seconds, 15-84° (boom angle)	

Grab and boom hoist winches are controlled winches with planetary gearbox and enclosed multiple discs parking brakes between the motor and the gearbox. The grab winches have a single wire per drum for 2-rope mechanical grabs. For dragline operation the holding winch functions as a drag winch. For dragline and hoist operation the closing winch functions a hoist winch. The line speed is continuously variable. During grab operation up to a dredging depth of -100 ft. (-30 m) only the first layer of the grab drums is used for a longer length of life of the wires.

## Tagline winch

Type	:	standard / Constant Tension	
Line pull	:	17,600 lbs (8.8 tons)	8.000 kg
Number of layers	:	1	
Wire rope diameter	:	1"	Ø25 mm
Drum size	:	Ø21.3 x 53"	Ø540 x 1350 mm
Rope storage (2 layers)	:	249 ft.	76 meter
Line speed	:	400 ft/min	120 m/min

The line pull of the tagline can be adjusted from the operators cabin depending on the size of grab or type of operation. The winch can be operated as a constant tension winch or standard winch with a line pull of 17,600 lbs.

# Technical

## Crawlers

Crawler size	:	300 tons	
Track gauge	:	19' 8¼"	6.000 mm
Width over tracks	:	23' 7½"	7.200 mm
Crawler length	:	32' 1¾"	9.800 mm
Track shoe type	:	flat	
Track shoe width	:	3' 11¼"	1.200 mm
Track frames	:	non extendible	
Travel speed	:	0.80 mph	0-1.3 km/hour
Pedestal height	:	7' 7¾"	2.150 mm
Final drives	:	2	
Type	:	planetary 590,000 ft-lb	800.000 Nm
Motor	:	hydraulic, axial piston	

*The planetary final drives with axial piston motors are each driven by a separate pump. Generating maximum torque for each track individually enabling simultaneously operation of both tracks while steering.*

### Features:

- Audible alarm while travelling
- Life time sealed oil filled track rollers
- Hydraulic (grease) tensioner on idler



## Crane Control

*The PLM 3000 HD has an electronic crane control and steering system operated by two electronic joysticks. The joysticks are mounted in consoles on both sides of the multiple adjustable operator's chair. Each joystick has 4 push buttons for various crane functions*

Control	:	European
Left Joystick	:	Boom Hoist - Slewing
Right Joystick	:	Grab Holding – Grab Closing

*In crane travel mode both joysticks are used to control the tracks.*

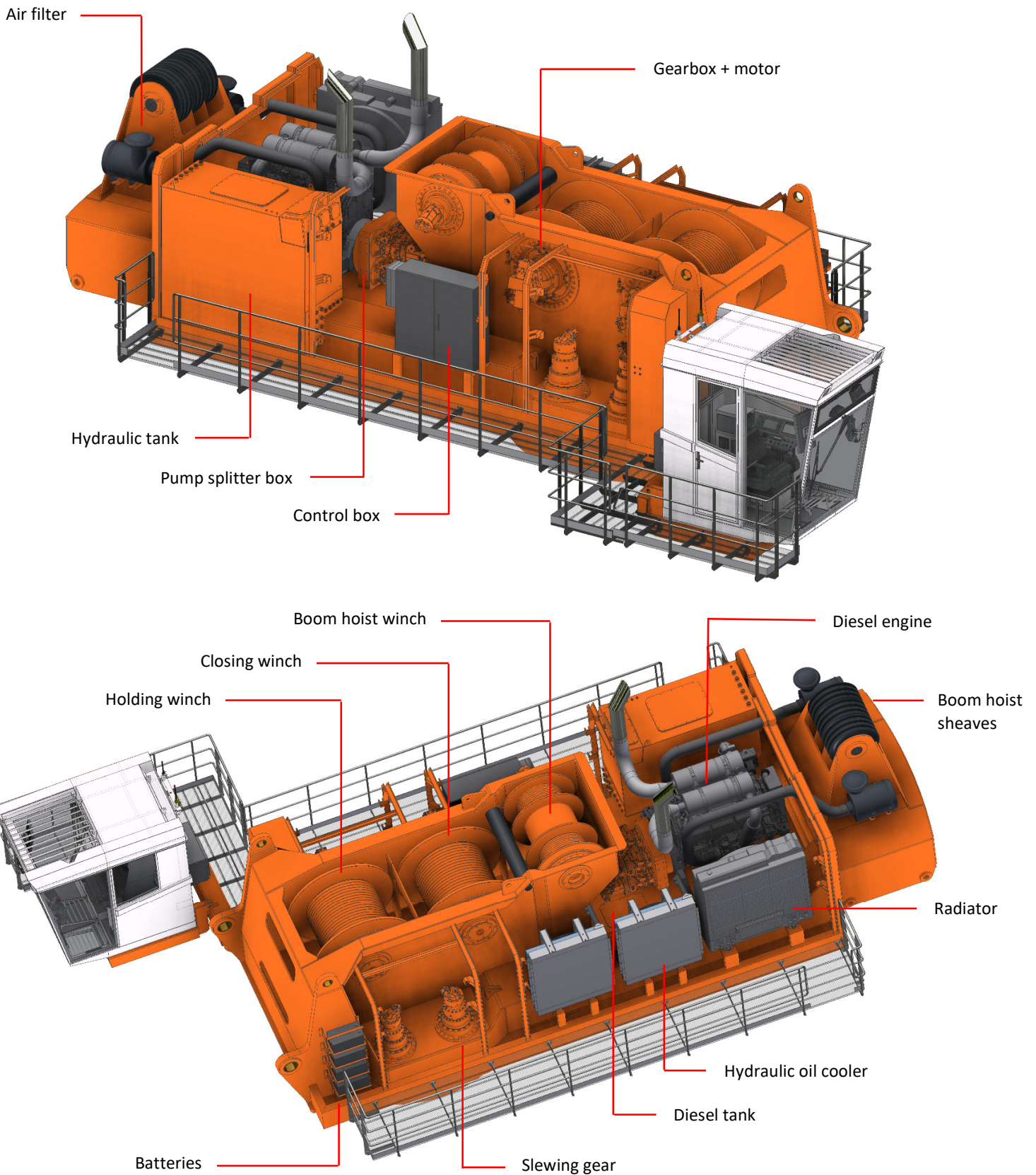
*The proportional electronic hydraulic control and PLM Power Management guarantees smooth operation and allows to operate all crane functions simultaneously.*

*The crane information touch screen mounted in the cabin informs the operator about the status of various components of the crane, for example fuel level, hydraulic oil temperature, diesel engine performance, operating hours etc. The LMI system readout is integrated into the screen (actual load / working radius, percentage of maximum load) and system alarm(s) can be seen.*

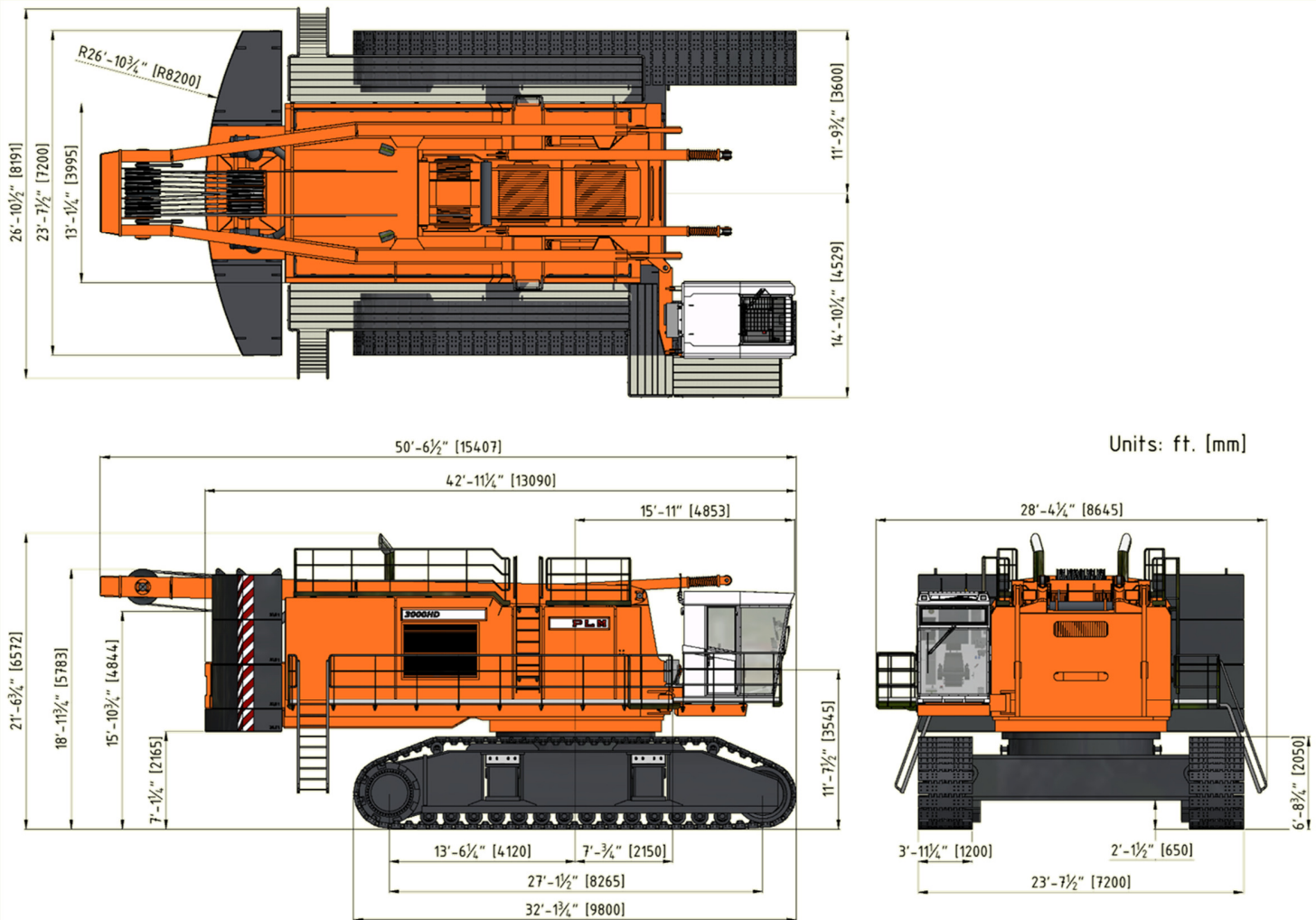
*Crane load data from the LMI are logged. The crane is equipped with a modem for remote troubleshooting assistance.*

*PLM Grab Management feature is installed for dredging and transshipment operation in grab mode. This feature includes slack wire control, adjustable digging torque and semi-automatic operation along with other features.*

# Machinery



# Dimensions



## Operational Weight

The operational weight is based on basic machine with:  
 47" flat shoe tracks, 201,300 lbs (100 tons) counterweight,  
 65.6 ft (20 m) boom, wire ropes and WLL 661,400 lbs  
 (330 tons) hook block

Weight, approx. : 798,900 lbs 362.400 kg

The maximum weight is based on basic machine with :  
 47" flat shoe tracks, 145,500 lbs (72.8 tons) counterweight,  
 223 ft. (68 m) boom, wire ropes and WLL 330,700 lbs  
 (165 tons) hook block, 81,600 lbs carbody counterweight

Weight, approx. : 996,500 lbs 452.000 kg

## Ground Pressure

Ground surface pressure\* : 26.03 psi  
 1.83 kg/cm<sup>2</sup>

\*based on basic machine without load as above

## Design

- The crane has been designed according to :  
 EN 474-12 (Grab mode)  
 EN 13000 (Hoist mode)  
 API

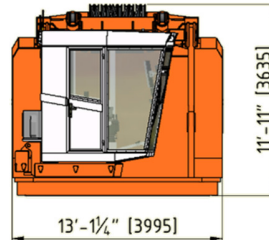
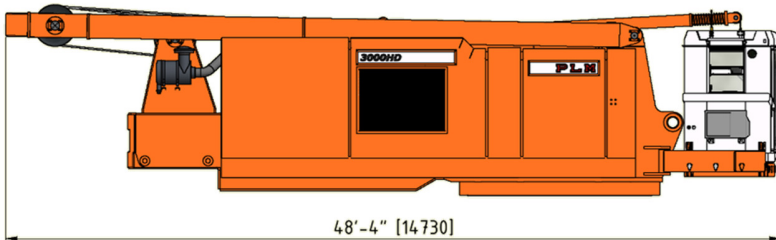
- Charts are based on the machine standing on firm level ground
- Weight of the lifting devices (blocks, slings) and grab are part of the load shown in the charts

## Configuration

Max. boom length : 223 ft. 68 m  
 Standard winches for grab and hoist mode  
 For dropball and dragline operation fairlead and (controlled) freefall winches are optional available.

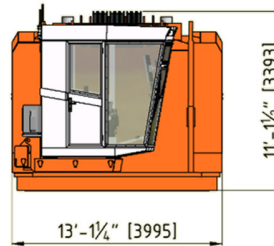
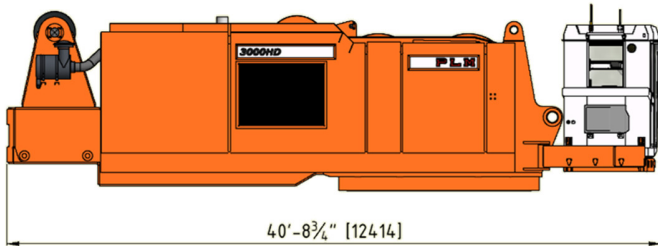
# Transport

## Superstructure + A-frame



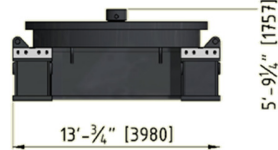
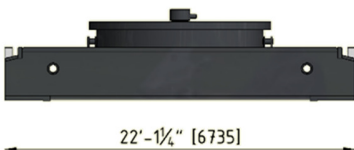
Length : 48'-4" /14.730 mm  
 Width : 13'-1¼" /3.995 mm  
 Height : 11'-11" /3.635 mm  
 Weight : 257,500 lbs  
 116.800 kg  
 Qty : 1x

## Superstructure



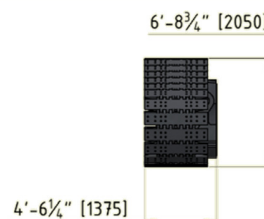
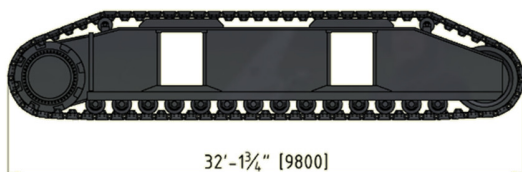
Length : 40'-8¾" /12.414 mm  
 Width : 13'-1¼" /3.995 mm  
 Height : 11'-1½" /3.393 mm  
 Weight : 230,160 lbs  
 104.400 kg  
 Qty : 1x

## Carbody



Length : 22' ¼" /6.735 mm  
 Width : 13'-¾" /3.980 mm  
 Height : 5'-9¼" /1.757 mm  
 Weight : 84,080 lbs  
 38.140 kg  
 Qty : 1x

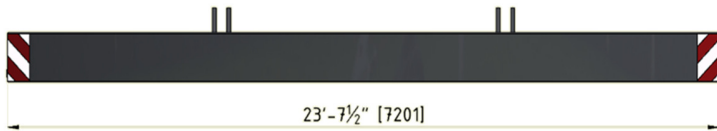
## Crawlers



Length : 32' 1¾" /9.800 mm  
 Width : 4' 6¾" /1.375 mm  
 Height : 6' 8¾" /2.050 mm  
 Weight : 99,650 lbs  
 45.200 kg  
 Qty : 2x

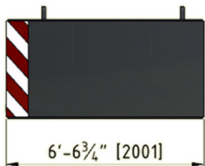
# Transport

## Counterweight - A



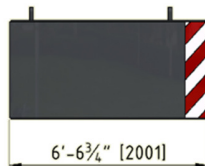
Length : 23' 7 1/2" / 7.201 mm  
 Width : 5' 6 7/8" / 1.700 mm  
 Height : 2' 5 1/2" / 750 mm  
 Weight : 58,400 lbs  
           26.500 kg  
 Qty : 1x

## Counterweight - B



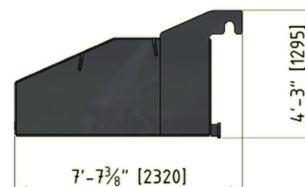
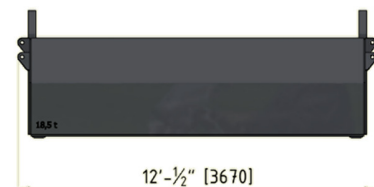
Length : 6' 6 3/4" / 2.001 mm  
 Width : 5' 3/4" / 1.542 mm  
 Height : 3' 8 1/2" / 1.130 mm  
 Weight : 23,800 lbs  
           10.800 kg  
 Qty : 4x

## Counterweight - C



Length : 6' 6 3/4" / 2.001 mm  
 Width : 5' 3/4" / 1.542 mm  
 Height : 3' 8 1/2" / 1.130 mm  
 Weight : 23,800 lbs  
           10.800 kg  
 Qty : 4x

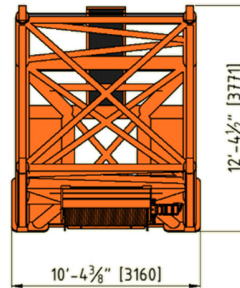
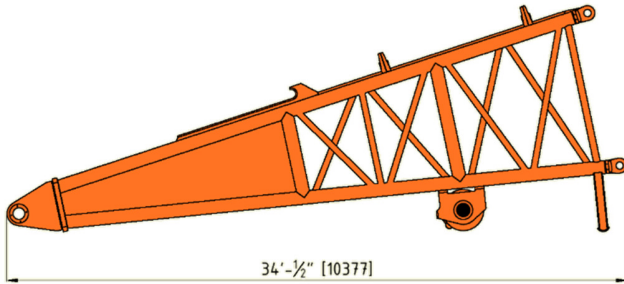
## Counterweight - Carbody



Length : 12' 1/2" / 3.670 mm  
 Width : 7' 7 3/8" / 2.320 mm  
 Height : 4' 3" / 1.295 mm  
 Weight : 40,800 lbs  
           18.500 kg  
 Qty : 2x

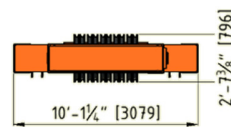
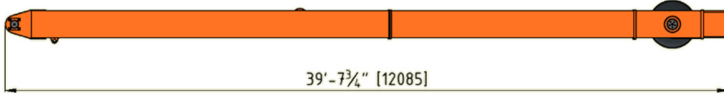
# Transport

## Boom Foot Section



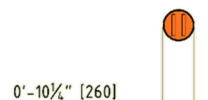
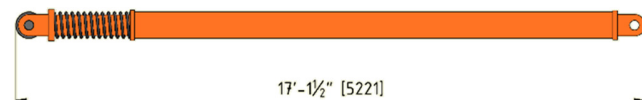
Length : 34' 1/2" / 10.377 mm  
 Width : 10' 4 3/8" / 3.160 mm  
 Height : 12' 4 1/2" / 3.771 mm  
 Weight : 28,200 lbs  
           12.800 kg  
 Qty : 1x

## A-frame



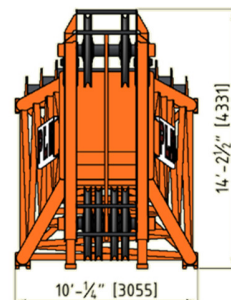
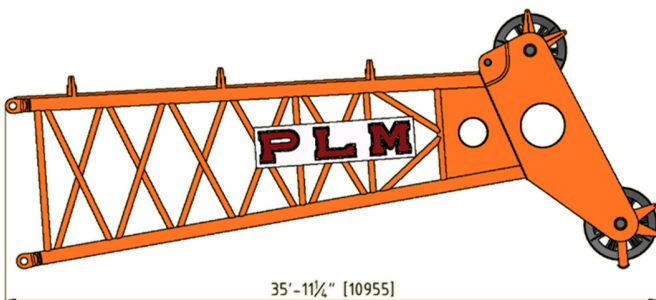
Length : 39' 7 3/4" / 12.085 mm  
 Width : 10' 1 1/4" / 3.079 mm  
 Height : 2' 7 7/8" / 796 mm  
 Weight : 22,500 lbs  
           10.200 kg  
 Qty : 1x

## Boomstops



Length : 17' 1 1/2" / 5.221 mm  
 Width : 10 1/4" / 260 mm  
 Height : 10 1/4" / 260 mm  
 Weight : 2,381 lbs  
           1.080 kg  
 Qty : 2x

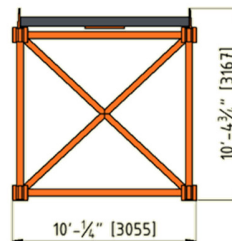
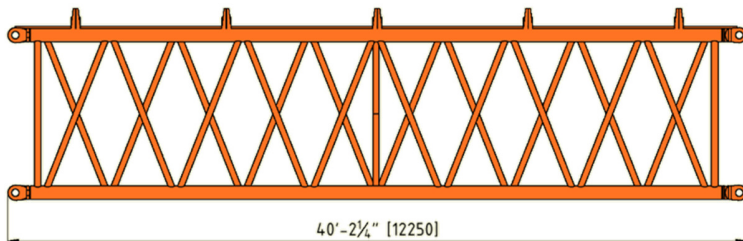
## Boom Head Section (including pendants)



Length : 35' 11 1/4" / 10.955 mm  
 Width : 10' 1 1/4" / 3.055 mm  
 Height : 14' 2 1/2" / 4.331 mm  
 Weight : 23,810 lbs  
           10.800 kg  
 Qty : 1x

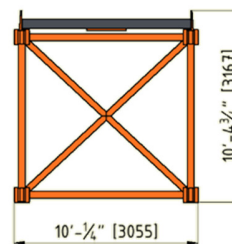
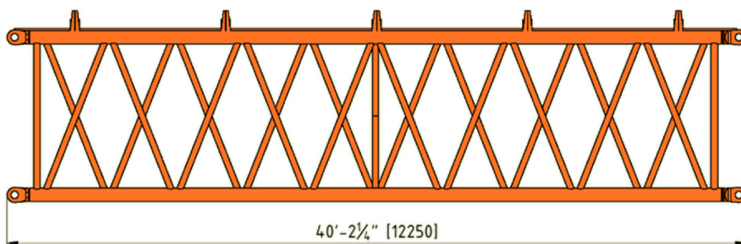
# Transport

## Boom Insert -1 (40 ft. / 12 meter Type A – including pendants)



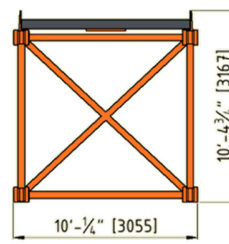
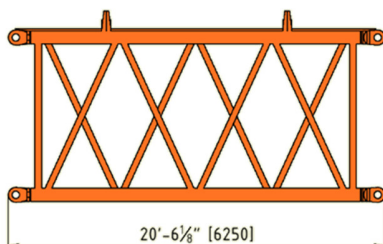
Length : 40' 2<sup>1</sup>/<sub>4</sub>" / 12.250 mm  
 Width : 10' 1<sup>4</sup>/<sub>4</sub>" / 3.055 mm  
 Height : 10' 4<sup>3</sup>/<sub>4</sub>" / 3.167 mm  
 Weight : 15,760 lbs  
           7.150 kg  
 Qty : 1x

## Boom Insert -2 (40 ft. / 12 meter Type B – including pedants)



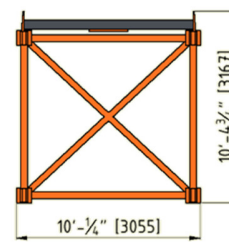
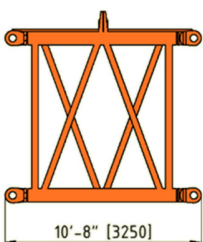
Length : 40' 2<sup>1</sup>/<sub>4</sub>" / 12.250 mm  
 Width : 10' 1<sup>4</sup>/<sub>4</sub>" / 3.055 mm  
 Height : 10' 4<sup>3</sup>/<sub>4</sub>" / 3.167 mm  
 Weight : 14,950 lbs  
           6.780 kg  
 Qty : 3x

## Boom Insert -3 (20 ft. / 6 meter – including pendants)



Length : 20' 6<sup>1</sup>/<sub>8</sub>" / 6.250 mm  
 Width : 10' 1<sup>4</sup>/<sub>4</sub>" / 3.055 mm  
 Height : 10' 4<sup>3</sup>/<sub>4</sub>" / 3.167 mm  
 Weight : 8,420 lbs  
           3.820 kg  
 Qty : 1x (optional)

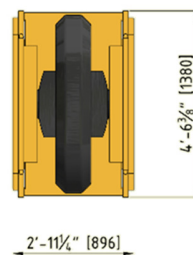
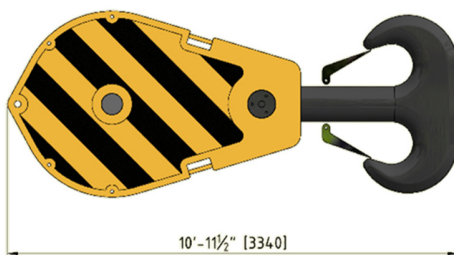
## Boom Insert -4 (10 ft. / 3 meter – including pendants)



Length : 10' 8" / 3.250 mm  
 Width : 10' 1<sup>4</sup>/<sub>4</sub>" / 3.055 mm  
 Height : 10' 4<sup>3</sup>/<sub>4</sub>" / 3.167 mm  
 Weight : 5,400 lbs  
           2.450 kg  
 Qty : 1x (optional)

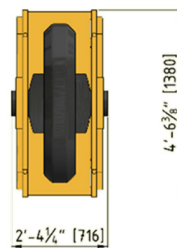
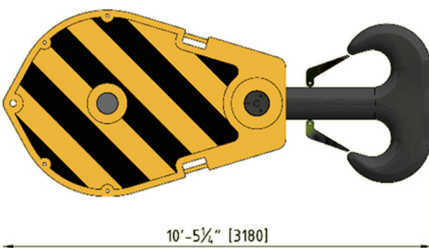
# Transport

## Lifting Block WLL 330 tons (661,400 lbs / 300.000 kg)



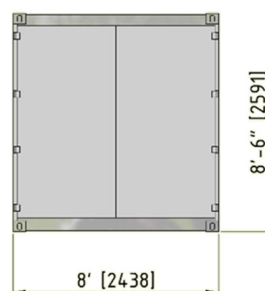
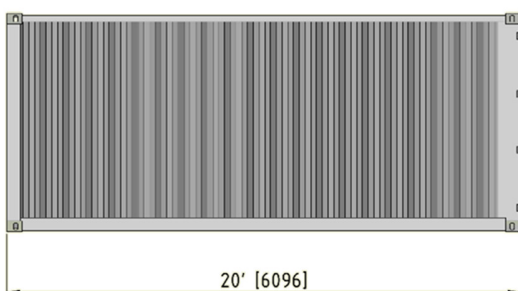
Length : 10' 11½" / 3.340 mm  
 Width : 2' 11¼" / 896 mm  
 Height : 4' 6⅜" / 1.380 mm  
 Weight : 10,700 lbs  
           4.850 kg  
 Qty : 1x

## Lifting Block WLL 165 tons (330,700 lbs / 150.000 kg)



Length : 10' 5¼" / 3.180 mm  
 Width : 2' 4¼" / 716 mm  
 Height : 4' 6⅜" / 1.380 mm  
 Weight : 7,980 lbs  
           3.620 kg  
 Qty : 1x

## Auxiliary Parts – 20 ft. Container



Length : 20' / 6.096 mm  
 Width : 8' / 2.438 mm  
 Height : 8'6" / 2.591 mm  
 Weight : 11,000 lbs  
           5.000 kg  
 Qty : 1x

# Application

## Grab Mode



According to EN 474-12  
 Capacities do not exceed 66,6 % of tipping load  
 201,300 lbs (91.300 kg) counterweight  
 0 lbs (0 kg) carbody counterweight  
 Max. capacity mechanical grab 110,200 lbs (50.000 kg)  
 Max. capacity mechanical grab 154,300 lbs (70.000 kg)\*  
 Winch line pull (per winch) 110,200 lbs (50.000 kg)\*\*  
 \*For optional 154,300 lbs winches

## Hoist Mode



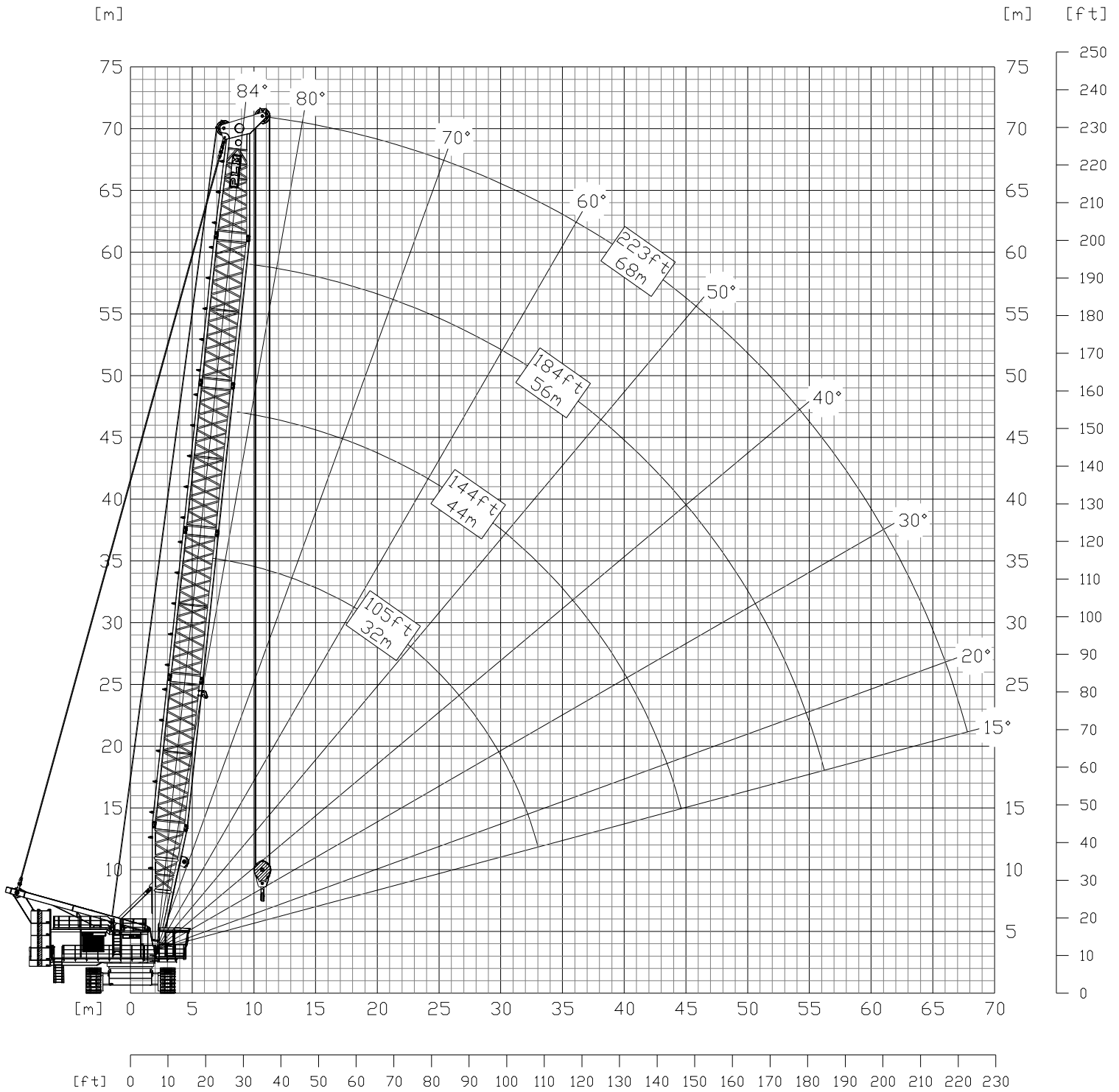
According to NEN-EN 13000 / ISO 4305  
 -  
 248,900 lbs (112.900 kg) counterweight  
 81,600 lbs (37.000 kg) carbody counterweight  
 -  
 -  
 Hoist winch line pull 110,200 lbs (50.000 kg)\*\*  
 \*\*With standard 110,200 lbs winches

## Main Boom Configuration

Boom Section	Length		Quantity					
	[ft]	[m]						
Boom foot	32.8	10	1	1	1	1	1	1
Boom insert 1	39.4	12	1	1	2	2	3	4
Boom insert 2	19.7	6	-	1	-	1	-	-
Boom insert 3	9.8	3	-	-	-	-	-	-
Boom head	32.8	10	1	1	1	1	1	1
<b>Boom Length</b>	<b>[ft]</b>		<b>105</b>	<b>125</b>	<b>144</b>	<b>164</b>	<b>184</b>	<b>223</b>
	<b>[m]</b>		<b>32</b>	<b>38</b>	<b>44</b>	<b>50</b>	<b>56</b>	<b>68</b>

# Range diagram

## Main Boom – Lifting mode



# Lifting Mode

Capacities according to NEN-EN 13000 / ISO 4305

## 248,900 lbs (112.900 kg) Counterweight – 81,600 lbs (37.000 kg) Carbody Counterweight

Radius	105 ft 32 m	144 ft 44 m	184 ft 56 m	223 ft 68 m
--------	----------------	----------------	----------------	----------------

[ft]	[m]	lbs	[kg]	lbs	[kg]	lbs	[kg]	lbs	[kg]
------	-----	-----	------	-----	------	-----	------	-----	------

23	7	657,600	298.300	-	-	-	-	-	-
26	8	631,400	286.400	524,700	238.000	-	-	-	-
30	9	557,800	253.000	507,300	230.100	-	-	-	-
33	10	487,200	221.000	467,400	212.000	364,000	165.100	-	-
36	11	430,600	195.300	420,000	190.500	354,300	160.700	277,300	125.800
39	12	385,100	174.700	379,400	172.100	344,800	156.400	271,800	123.300
43	13	347,200	157.500	342,200	155.200	325,800	147.800	265,700	120.500
46	14	312,400	141.700	309,100	140.200	301,200	136.600	259,700	117.800
49	15	283,500	128.600	280,000	127.000	276,000	125.200	253,800	115.100
53	16	258,800	117.400	255,500	115.900	251,300	114.000	239,900	108.800
56	17	237,900	107.900	234,400	106.300	230,200	104.400	224,400	101.800
59	18	219,600	99.600	216,100	98.000	211,900	96.100	207,200	94.000
62	19	203,700	92.400	200,200	90.800	195,800	88.800	191,100	86.700
66	20	189,600	86.000	186,100	84.400	181,700	82.400	176,800	80.200
72	22	165,800	75.200	162,300	73.600	157,900	71.600	153,000	69.400
79	24	146,400	66.400	143,100	64.900	138,700	62.900	133,600	60.600
85	26	130,300	59.100	127,200	57.700	122,800	55.700	117,700	53.400
92	28	116,800	53.000	113,800	51.600	109,300	49.600	104,300	47.300
98	30	102,500	46.500	102,500	46.500	98,100	44.500	93,000	42.200
105	32	84,400	38.300	92,600	42.000	88,200	40.000	83,100	37.700
112	34	59,700	27.100	84,000	38.100	79,600	36.100	74,500	33.800
118	36	-	-	76,300	34.600	72,100	32.700	67,000	30.400
125	38	-	-	69,400	31.500	65,300	29.600	60,200	27.300
131	40	-	-	62,600	28.400	59,300	26.900	54,200	24.600
138	42	-	-	53,100	24.100	54,000	24.500	48,900	22.200
144	44	-	-	43,000	19.500	48,900	22.200	44,100	20.000
151	46	-	-	-	-	44,500	20.200	39,700	18.000
158	48	-	-	-	-	40,600	18.400	35,500	16.100
164	50	-	-	-	-	36,600	16.600	32,000	14.500
171	52	-	-	-	-	30,600	13.900	28,400	12.900
177	54	-	-	-	-	24,700	11.200	25,400	11.500
184	56	-	-	-	-	18,100	8.200	22,300	10.100
190	58	-	-	-	-	-	-	19,600	8.900
197	60	-	-	-	-	-	-	17,000	7.700
203	62	-	-	-	-	-	-	13,000	5.900
210	64	-	-	-	-	-	-	9,000	4.100
216	66	-	-	-	-	-	-	4,900	2.200

# Grab Mode

Capacities according to EN 474-12

## 201,300 lbs (91.300 kg) Counterweight – 0 lbs (0 kg) Carbody Counterweight

Radius	105 ft 32 m	144 ft 44 m	184 ft 56 m	223 ft 68 m
--------	----------------	----------------	----------------	----------------

[ft]	[m]	lbs	[kg]	lbs	[kg]	lbs	[kg]	lbs	[kg]
------	-----	-----	------	-----	------	-----	------	-----	------

23	7	-	-	-	-	-	-	-	-
26	8	176,400	80.000	-	-	-	-	-	-
30	9	176,400	80.000	176,400	80.000	-	-	-	-
33	10	176,400	80.000	176,400	80.000	176,400	80.000	-	-
36	11	176,400	80.000	176,400	80.000	176,400	80.000	-	-
39	12	176,400	80.000	176,400	80.000	176,400	80.000	140,700	63.800
43	13	176,400	80.000	176,400	80.000	176,400	80.000	138,000	62.600
46	14	176,400	80.000	176,400	80.000	175,300	79.500	135,100	61.300
49	15	176,400	80.000	176,400	80.000	170,400	77.300	132,300	60.000
53	16	176,400	80.000	176,400	80.000	165,800	75.200	129,200	58.600
56	17	176,400	80.000	176,400	80.000	161,400	73.200	126,300	57.300
59	18	173,900	78.900	168,700	76.500	157,200	71.300	123,500	56.000
62	19	162,500	73.700	157,200	71.300	151,000	68.500	120,600	54.700
66	20	152,300	69.100	147,000	66.700	140,900	63.900	117,700	53.400
72	22	134,900	61.200	129,900	58.900	123,700	56.100	112,400	51.000
79	24	120,600	54.700	115,700	52.500	109,600	49.700	103,400	46.900
85	26	108,200	49.100	103,800	47.100	97,900	44.400	91,700	41.600
92	28	97,000	44.000	93,900	42.600	88,000	39.900	81,800	37.100
98	30	85,800	38.900	85,100	38.600	79,400	36.000	73,400	33.300
105	32	71,200	32.300	77,600	35.200	71,900	32.600	65,900	29.900
112	34	54,000	24.500	70,500	32.000	65,500	29.700	59,500	27.000
118	36	-	-	64,400	29.200	59,500	27.000	53,800	24.400
125	38	-	-	58,900	26.700	54,500	24.700	48,700	22.100
131	40	-	-	51,100	23.200	49,800	22.600	44,100	20.000
138	42	-	-	43,400	19.700	45,600	20.700	39,900	18.100
144	44	-	-	35,300	16.000	41,900	19.000	36,200	16.400
151	46	-	-	-	-	38,100	17.300	32,800	14.900
158	48	-	-	-	-	33,100	15.000	29,800	13.500
164	50	-	-	-	-	28,200	12.800	26,900	12.200
171	52	-	-	-	-	23,400	10.600	24,000	10.900
177	54	-	-	-	-	18,500	8.400	21,600	9.800
184	56	-	-	-	-	13,200	6.000	18,300	8.300
190	58	-	-	-	-	-	-	14,800	6.700
197	60	-	-	-	-	-	-	11,500	5.200
203	62	-	-	-	-	-	-	8,200	3.700
210	64	-	-	-	-	-	-	4,900	2.200

# Features

---

The PLM 3000 HD is equipped with the following features:

## Safety

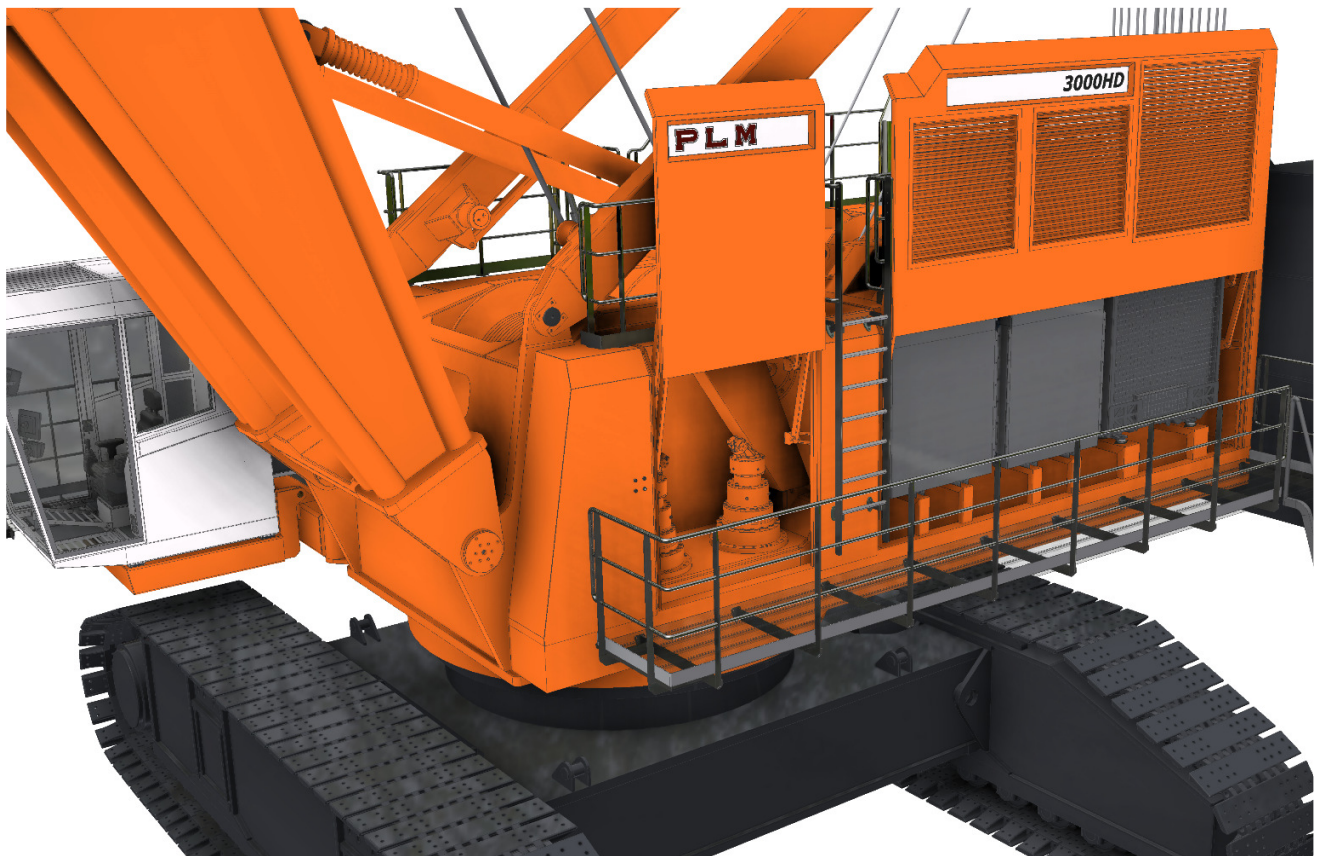
---

- LMI (Load Moment Indicator)
- ATB (Anti-two block) system

## Maintenance

---

- Automatic Lubrication System; Lincoln
- 4 Large access doors to machinery housing that can be opened hydraulically.



- Totally enclosed machinery housing
- Environmentally safe oil tight machinery space floor that can contain all hydraulic fluid in case of leaking
- Drains in the bottom of the machinery space floors to drain oil / water.

## Comfort

---

- Camera System with camera on winches, zoom camera in boom tip and 12" display; Orlaco

# Features

---

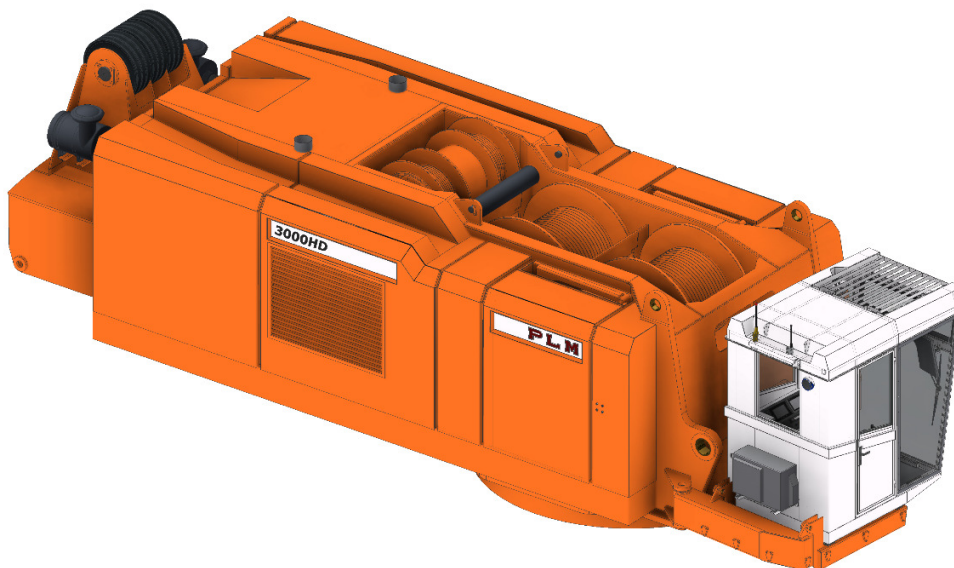
## Cabin

---

- Spacious 63" (1600 mm) wide.
- Camera System with camera on winches, zoom camera in boom tip and 12" display; Orlaco
- Air-conditioning unit (24 VDC)
- Tiltable (hydraulic) for a better view of the load during lifting operation (tilting angle 20°)



- Rotatable cabin (foundation) to keep the cabin within the width of the superstructure for transport



## Equipment

---

- WLL 165 tons lifting block; single hook / 1-sheave

# Options

---

The following options are available for the PLM 3000 HD:

## Superstructure

---

- (Controlled) freefall grab winches, holding and closing winch linepull 110,200 lbs. (50.000 kg)
- Standard grab winches, holding and closing winch linepull 154,300 lbs. (70.000 kg)
- (Controlled) freefall grab winches, holding and closing winch linepull 154,300 lbs. (70.000 kg)
- Fairlead in front of superstructure for dragline operation (in combinatie with optional freefall winches)
- Auxiliary hoist winch mounted in boom foot; linepull 33,070 lbs. (15.000 kg)
- Tagline winch with increased linepull; 26,500 lbs. (12.000 kg)
- 59" wide (1500 mm) flat track shoes
- Silent-pack on air in- and outlet
- Cold weather pack; hydraulic tank heating, machinery space heating and louvres on air in- and outlet.
- 20 kVA 110VAC 60Hz Diesel generator with silent pack (o.a. required for cold weather pack)
- 20 kVA 110VAC 60Hz hydraulic generator (operational with running main engine only)
- Climate control in operators cabin
- 110 VAC split-unit air-conditioning (generator required)
- Overpressure unit 24 VDC
- Fixed or hydraulically adjustable cabin elevation

## Undercarriage

---

- Jack-up system; 4 hydraulic cylinders on carbody

## Boom

---

- Extra wide walkway on top of boom; width 3.3 ft. (1000 mm), (standard 2 ft. /600 mm)
- Monkey for electric cable for dropball operation
- Hydraulic hose reel for hydraulic grab(s)
- Auxiliary Jib, single sheave, 8' 6½" (2.600 mm) offset, SWL 77 tons (70.000 kg)
- Boom head sheave guard rollers

## Equipment

---

- WLL 330 tons (661,400 lbs) lifting block; double hook / 4-sheaves
- WLL 276 tons (551,150 lbs) lifting block; double hook / 2-sheaves
- WLL 55 tons (110,200 lbs) ball weight; single hook
- WLL 77 tons (154,300 lbs) ball weight; single hook
- 2-rope mechanical grab(s)
- Single rope hydraulic grab(s)
- Dragline bucket

## General

---

- Self-Assembly pack, including Jack-up system.

## Types

---

- The PLM 3000 HD is also available as a fully electric crane (PLM 3000 HDE), or as an electric over hydraulic machine (PLM 3000 HD-EH).

