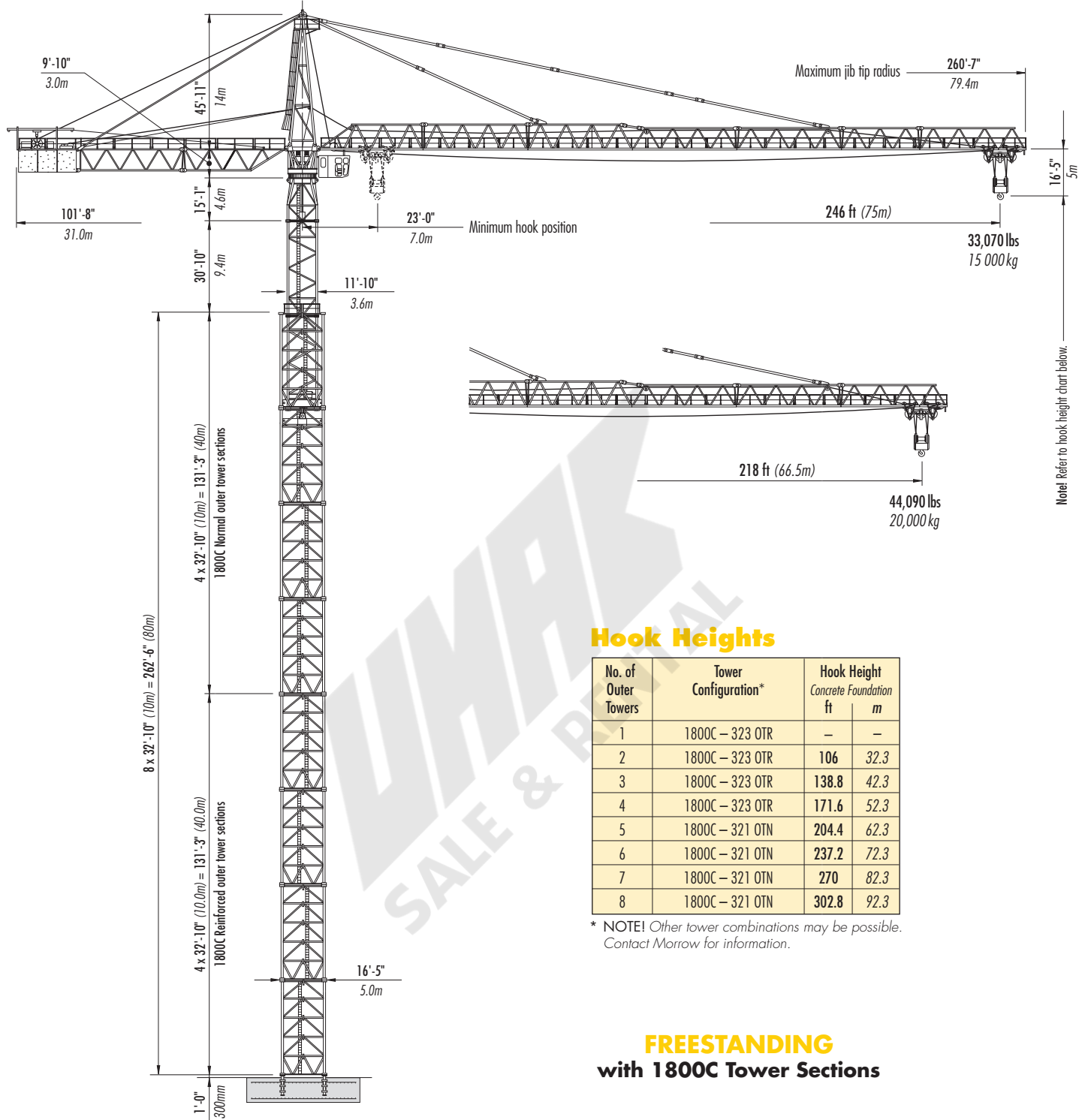


# LIEBHERR 1800 C 60

## TOWER CRANE



rev0108



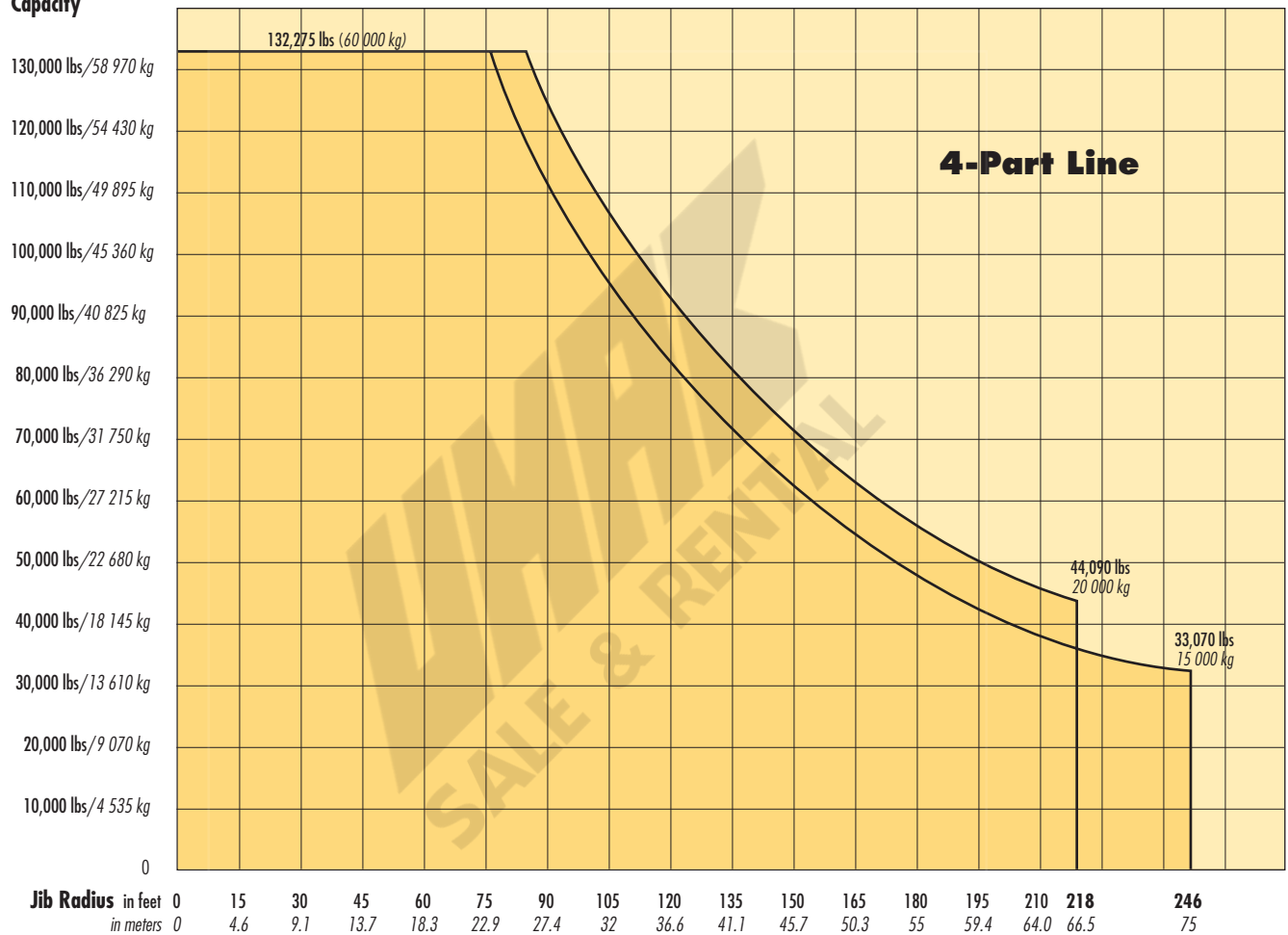
# Morrow Equipment

# LIEBHERR 1800 C 60

## Radius and Capacities

Hook Radius	4-Part Line Max Capacity – Radius	ft m	55 16.8	70 21.3	95 29	110 33.5	125 38.1	140 42.7	155 47.2	170 51.8	185 56.4	200 61	210 64	218 66.5	225 68.6	235 71.6	246 75
246 ft 75m	132,275 lbs – 75 ft 60 000 kg – 22.9m	lbs kg	132,275 60 000	132,275 60 000	105,000 47 630	90,000 40 825	78,500 35 610	68,200 30 935	59,000 26 760	51,500 23 360	45,000 20 410	40,200 18 235	37,500 17 010	36,350 16 490	35,100 15 920	34,000 15 420	33,070 15 000
218 ft 66.5m	132,275 lbs – 84 ft 60 000 kg – 25.6m	lbs kg	132,275 60 000	132,275 60 000	116,000 52,615	101,000 45 815	87,500 39 690	76,500 34 700	67,500 30 620	59,000 26 760	52,500 23 815	48,000 21 770	45,500 20 640	44,090 20 000			

### Capacity

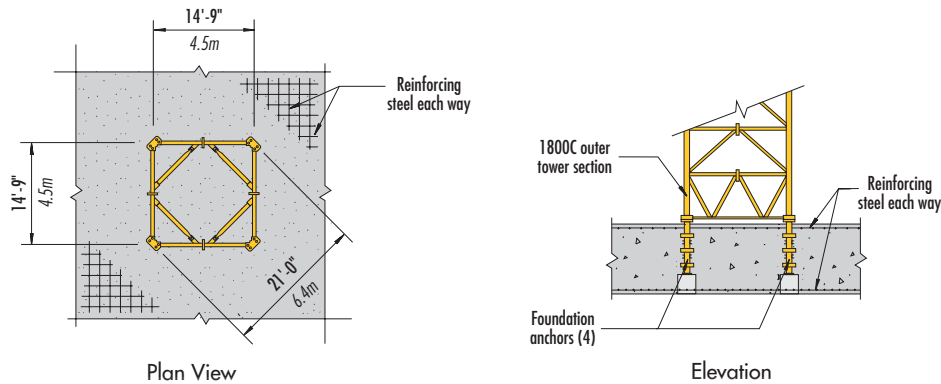


**Note!** Contact Morrow for information regarding site preparation, dimensions, reaction forces, alternate configurations and other specific recommendations.

Please consult 1800 C 60 Operation Manual before erecting, operating, servicing or dismantling crane.

# LIEBHERR 1800 C 60

**IMPORTANT:** *This data applies only to cranes with serial numbers #1274 and #1275*



**FOUNDATION DETAILS**  
with 1800C Tower Sections  
*concrete slab*

## Hoist Speed and Capacity

Hoist Unit	WiW 340 RX 001	4-Part Line			
2 x 200 hp (2 x 150 kW) DC hoist motors Ward Leonard 2-speed gearbox Electromagnetic gear shifting IS105	Gear	Capacity	Line Speed	Capacity	Line Speed
	1	up to 132,275 lbs	@ 62 fpm	up to 60 000 kg	@ 19 m/min
	2	up to 33,070 lbs	@ 256 fpm	up to 15 000 kg	@ 78 m/min

**IMPORTANT!** *Capacities and line speeds indicated will vary depending on the amount of hoist wire rope installed. This crane model may be equipped with a hoist unit other than that specified in the data shown above. To verify, check serial number and refer to 1800 C 60 Operation Manual for additional information.*

## Motor Information

Drive Unit	Horsepower	Kilowatts	Speed	
Swing	6 x 20 hp	6 x 15 kW	0.5 rpm	
Trolley (2-speed)	29.5 hp	22 kW	0 – 250 fpm	0 – 76.2m/min

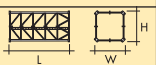

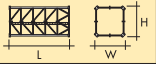

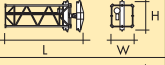

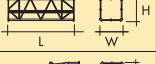


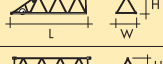

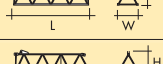

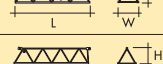

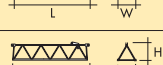
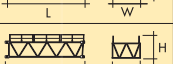
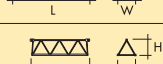
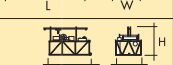
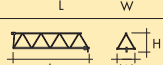

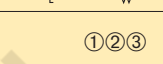
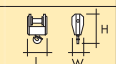

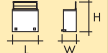
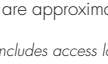
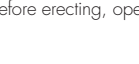
**IMPORTANT!** *This crane model may be equipped with drive units other than that specified in the data shown above. To verify, check serial number and refer to 1800 C Operation Manual for additional information.*

## Power Requirements

- 480 V phase-phase, 277 V each phase to ground with 120° phase shift between phases. Do not use Open Delta transformer.
- 3-phase, 60 Hz power supply plus ground wire.
- Static: 800 Amperes.

*Specifications subject to change without notice. For other configurations and specifications, contact Morrow Equipment.*

# LIEBHERR 1800 C 60

Description	Dimensions L x W x H	Weight	Description	Dimensions L x W x H	Weight
Outer Tower Section <sup>1</sup> (Reinforced) #323	 32'-8" x 16'-5" x 16'-5" 10.0m x 5.0m x 5.0m	50,000 lbs 22 680 kg	Counterweight <sup>6</sup> #C024.001-718.300	 6'-8" x 2'-2" x 8'-5" 2.04m x 0.67m x 3.66m	19,300 lbs 8 755 kg
Outer Tower Section <sup>2</sup> (Normal) #321	 32'-8" x 16'-5" x 16'-5" 10.0m x 5.0m x 5.0m	46,500 lbs 21 090 kg	Counterweight <sup>7</sup> #C024.002-718.100	 6'-8" x 1'-10" x 8'-5" 2.04m x 0.55m x 3.66m	16,440 lbs 7 455 kg
Bottom Climbing Unit <sup>3</sup> with Hydraulics	 32'-0" x 11'-10" x 11'-10" 9.75m x 3.6m x 3.6m	79,400 lbs 36 020 kg	Counterweight <sup>7</sup> #C024.002-718.200	 6'-8" x 1'-10" x 8'-5" 2.04m x 0.55m x 3.66m	16,440 lbs 7 455 kg
Inner Tower Section (A-section) #331	 32'-0" x 11'-10" x 11'-10" 9.75m x 3.6m x 3.6m	37,700 lbs 17 100 kg	Counterweight <sup>7</sup> #C024.002-718.300	 6'-8" x 1'-10" x 8'-5" 2.04m x 0.55m x 3.66m	16,440 lbs 7 455 kg
Inner Tower Section (C-section) #333	 15'-1" x 11'-10" x 11'-10" 4.6m x 3.6m x 3.6m	34,170 lbs 15 500 kg	Jib Section ① #611	 37'-10" x 10'-1" x 11'-0" 11.53m x 3.07m x 3.35m	17,390 lbs 7 890 kg
Slewing Assembly <sup>4</sup>	 14'-4" x 11'-6" x 12'-0" 4.37m x 3.5m x 3.66m	70,500 lbs 31 980 kg	Jib Section ② #621	 37'-9" x 10'-1" x 10'-0" 11.5m x 3.07m x 3.05m	14,400 lbs 6 530 kg
Tower Top	 48'-0" x 11'-0" x 10'-2" 14.6m x 3.35m x 3.1m	22,500 lbs 10 205 kg	Jib Section ③ #622	 37'-9" x 10'-1" x 11'-0" 11.5m x 3.07m x 3.35m	14,600 lbs 6 625 kg
Operator's Cab	 10'-6" x 5'-6" x 8'-2" 3.2m x 1.68m x 2.49m	4,000 lbs 1 815 kg	Jib Section ④ #631	 37'-9" x 10'-1" x 8'-4" 11.5m x 3.07m x 2.54m	12,100 lbs 5 490 kg
Counterjib Section (Inner) #711	 37'-9" x 9'-11" x 9'-5" 11.5m x 3.02m x 2.87m	8,500 lbs 3 855 kg	Jib Section ⑤ #632	 37'-9" x 10'-1" x 8'-11" 11.5m x 3.07m x 2.72m	11,400 lbs 5 170 kg
Counterjib Section (Intermediate) #712	 37'-11" x 10'-0" x 9'-6" 11.56m x 3.05m x 2.9m	9,350 lbs 4 240 kg	Jib Section ⑥ #633	 28'-5" x 10'-1" x 8'-4" 8.66m x 3.07m x 2.54m	8 400 lbs 3 810 kg
Counterjib Section (Outer) #714 <sup>5</sup>	 22'-3" x 13'-0" x 12'-0" 6.78m x 3.96m x 3.66m	81,550 lbs 36 990 kg	Jib Section ⑦ #641	 37'-6" x 10'-1" x 9'-0" 11.43m x 3.07m x 2.74m	8,150 lbs 3 695 kg
Trolley	 11'-2" x 10'-8" x 6'-0" 3.4m x 3.25m x 1.82m	5,420 lbs 2 460 kg	Jib Assembly Part 1 <sup>8</sup> for 218-ft and 246-ft Jibs	①②③ 112'-3" x 10'-1" x 11'-0" 34.2m x 3.07m x 3.35m	64,050 lbs 29 050 kg
Hook Block (4-part)	 7'-0" x 4'-0" x 2'-6" 2.13m x 1.2m x 0.76m	6,240 lbs 2 830 kg	Jib Assembly Part 2 <sup>9</sup> for 246-ft (75.0m) jib	④⑤⑥⑦ 139'-6" x 10'-1" x 9'-0" 42.5m x 3.07m x 2.74m	44,300 lbs 20 095 kg
Counterweight <sup>6</sup> #C024.001-718.100	 6'-8" x 2'-2" x 8'-5" 2.04m x 0.67m x 3.66m	19,300 lbs 8 755 kg	Jib Assembly Part 2 <sup>9</sup> for 218-ft (66.5m) jib	④⑤⑦ 112'-0" x 10'-1" x 9'-0" 34.1m x 3.07m x 2.74m	35,900 lbs 16 285 kg
Counterweight <sup>6</sup> #C024.001-718.200	 6'-8" x 2'-2" x 8'-5" 2.04m x 0.67m x 3.66m	19,300 lbs 8 755 kg	Foundation Anchor (each) (4 per set)	 6'-7" x 2'-0" x 2'-0" 2.0m x 0.6m x 0.6m	1,800 lbs 815 kg

NOTE! Weights and dimensions are approximate. Scale components before lifting. Please consult Operation Manual before erecting, operating, servicing or dismantling crane.

<sup>1</sup> Outer Tower Section (Reinforced) includes access ladders, platform and 4 panels. Each #323 panel weighs 12,125 lbs (5 500 kg).

<sup>2</sup> Outer Tower Section (Normal) includes access ladders, platform and 4 panels. Each #321 panel weighs 11,245 lbs (5 100 kg).

<sup>3</sup> Bottom Climbing Unit with Hydraulics can be reduced to 36,080 lbs (16 366 kg) by removing hydraulics.

<sup>4</sup> Slewing Assembly includes slewing ring and 6 swing motors.

<sup>5</sup> Counterjib Section #714 includes machine deck and a hoist unit with 2 x 200 hp (2 x 150 kW) DC motors, generator sets (IR 1254) and trolley drive. Does not include hoist wire rope.

<sup>6</sup> Includes handrails. With the 246-ft (75.0m) jib assembly installed, six (6) counterweights blocks are required, i.e., C024.001-718.100 (x2), C024.001-718.200 (x2) and C024.001-718.300 (x2).

<sup>7</sup> Includes handrails. With the 218-ft (66.5m) jib assembly installed, six (6) counterweights blocks are required, i.e., C024.002-718.100 (x2), C024.002-718.200 (x2) and C024.002-718.300 (x2).

<sup>8</sup> Jib Assembly Part 1 includes jib sections ①, ② and ③, pendant bars, pendant bar connecting pins and plates and trolley.

<sup>9</sup> Jib Assembly Part 2 includes jib sections, pendant bars and pendant bar connecting pins and plates.



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