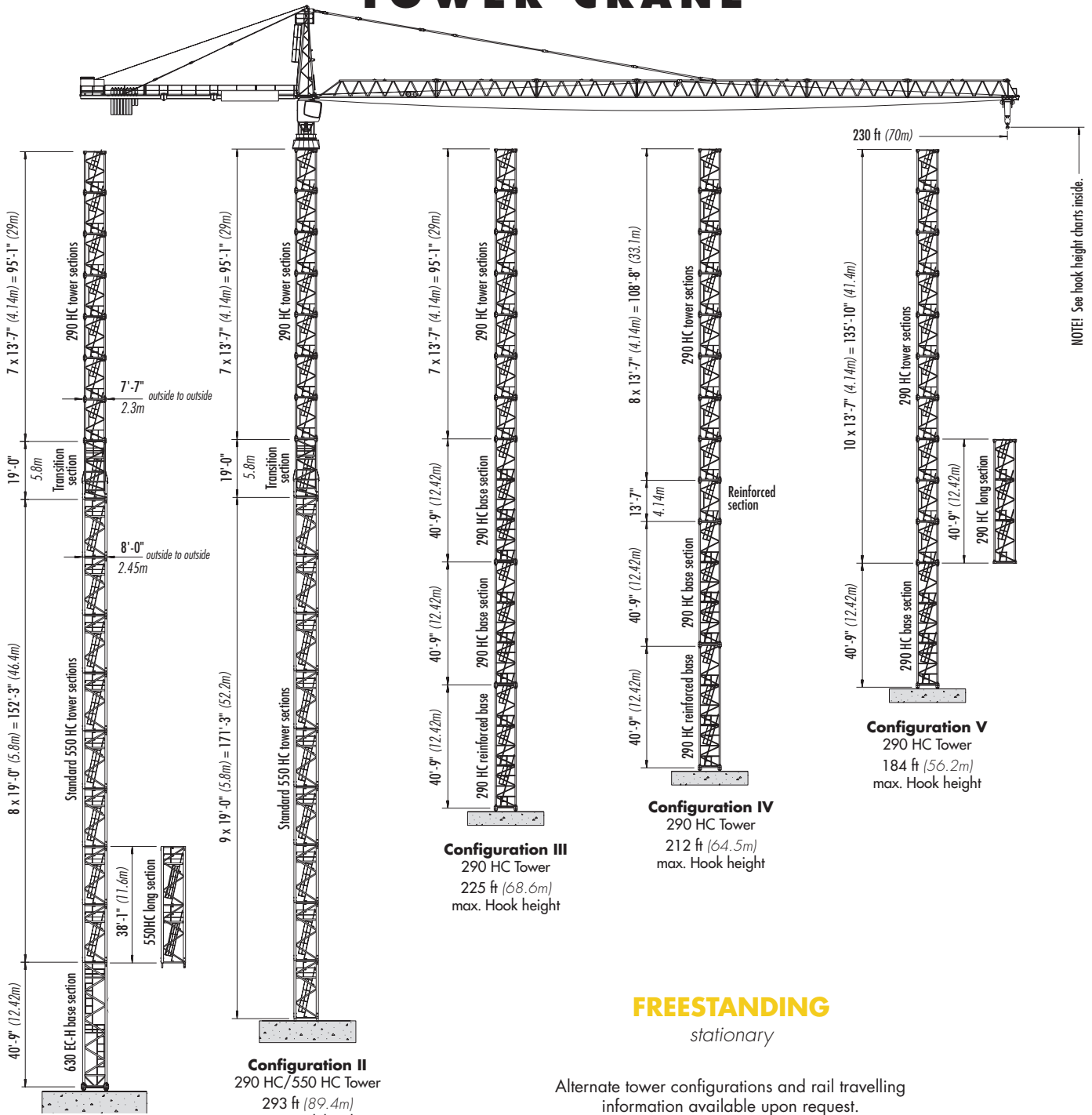


# LIEBHERR 316 EC-H 12

## TOWER CRANE



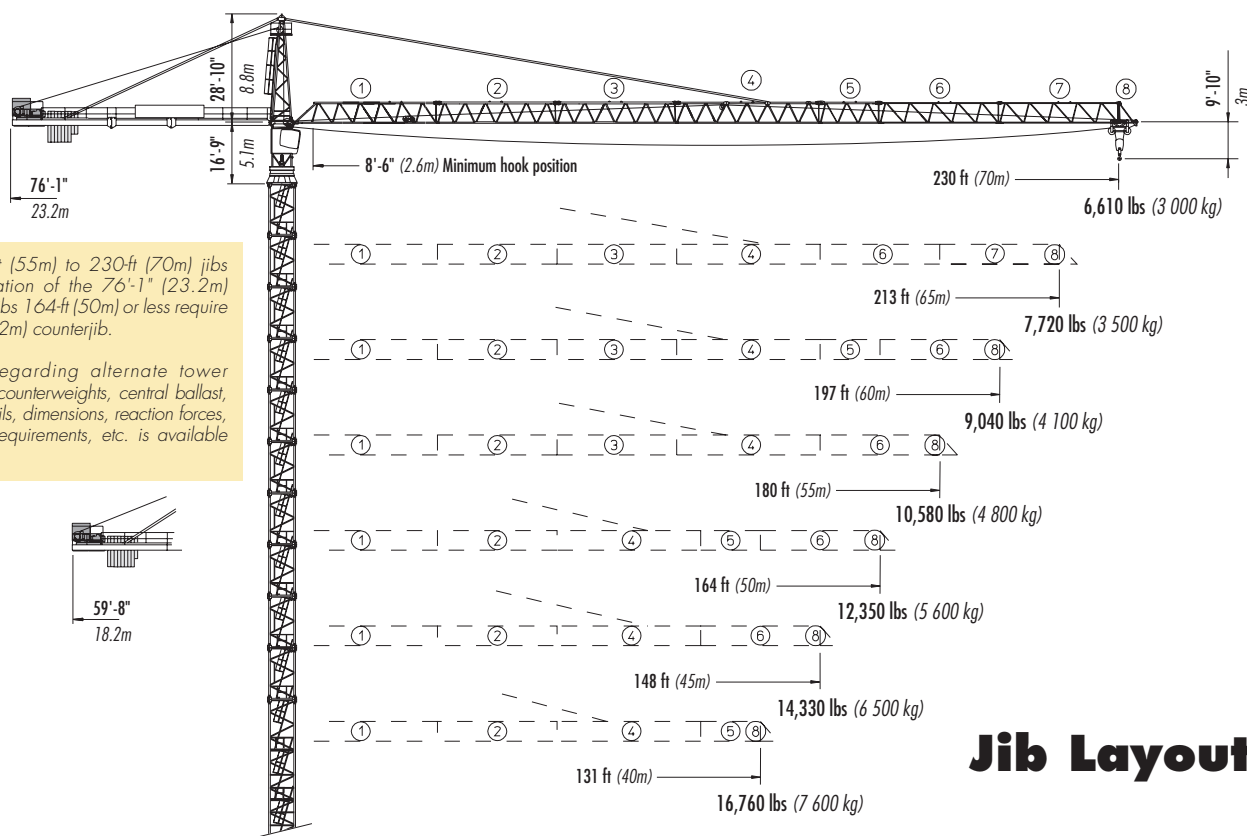
### FREESTANDING

stationary

Alternate tower configurations and rail travelling information available upon request.

Revised 0506

# LIEBHERR 316 EC-H 12



## Hook Heights

| Configuration I <sup>1</sup>                                                                        |                    |                                                       |        |                                            |        |
|-----------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------|--------|--------------------------------------------|--------|
| <b>550 HC and 290 HC</b><br>tower sections<br>on 40'-9" (12.42m)<br><b>630 EC-H</b><br>base section |                    |                                                       |        |                                            |        |
|                                                                                                     |                    | 40'-9" 12.42m<br>1'-0" 0.3m<br>8'-6" 2.6m<br>630 EC-H |        | 19'-0" 5.8m<br>27'-11" 8.5m<br>32'-10" 10m |        |
| No. of Tower Elements                                                                               | Tower Element Type | static concrete footing                               |        | rail-travelling undercarriage              |        |
|                                                                                                     |                    | feet                                                  | meters | feet                                       | meters |
| 1                                                                                                   | 630EC-H BS         | 48                                                    | 14.7   | 76                                         | 23     |
| 2                                                                                                   | 550HC STS          | 67                                                    | 20.5   | 95                                         | 28.8   |
| 3                                                                                                   | 550HC STS          | 86                                                    | 26.3   | 114                                        | 34.6   |
| 4                                                                                                   | 550HC STS          | 105                                                   | 32.1   | 133                                        | 40.4   |
| 5                                                                                                   | 550HC STS          | 125                                                   | 37.9   | 152                                        | 46.2   |
| 6                                                                                                   | 550HC STS          | 144                                                   | 43.7   | 171                                        | 52     |
| 7                                                                                                   | 550HC STS          | 163                                                   | 49.5   | 190                                        | 57.8   |
| 8                                                                                                   | 550HC STS          | 182                                                   | 55.3   | 209                                        | 63.6   |
| 9                                                                                                   | 550HC STS          | 201                                                   | 61.1   | 228                                        | 69.4   |
| 10                                                                                                  | Transition         | 220                                                   | 66.9   | 247                                        | 75.2   |
| 11                                                                                                  | 290HC STS          | 233                                                   | 71.1   | 260                                        | 79.4   |
| 12                                                                                                  | 290HC STS          | 247                                                   | 75.2   | 274                                        | 83.5   |
| 13                                                                                                  | 290HC STS          | 260                                                   | 79.4   | 288                                        | 87.6   |
| 14                                                                                                  | 290HC STS          | 274                                                   | 83.5   | 301                                        | 91.8   |
| 15                                                                                                  | 290HC STS          | 288                                                   | 87.6   | 315                                        | 95.9   |
| 16                                                                                                  | 290HC STS          | 301                                                   | 91.8   | 328                                        | 100.1  |
| 17 <sup>3</sup>                                                                                     | 290HC STS          | 315                                                   | 96     |                                            |        |

| Configuration II                                                                                          |                    |                                                   |                   |                                            |                     |
|-----------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|-------------------|--------------------------------------------|---------------------|
| <b>550 HC and 290 HC</b><br>tower sections<br>on 19'-0" (5.8m)<br><b>550 HC</b><br>standard tower section |                    |                                                   |                   |                                            |                     |
|                                                                                                           |                    | 19'-0" 5.8m<br>1'-4" 0.4m<br>8'-6" 2.6m<br>550 HC |                   | 19'-0" 5.8m<br>27'-11" 8.5m<br>32'-10" 10m |                     |
| No. of Tower Elements                                                                                     | Tower Element Type | static concrete footing                           |                   | rail-travelling undercarriage              |                     |
|                                                                                                           |                    | feet                                              | meters            | feet                                       | meters              |
| 1                                                                                                         | 550HC STS          | 27                                                | 8.3               | 54                                         | 16.4                |
| 2                                                                                                         | 550HC STS          | 46                                                | 14.1              | 73                                         | 22.2                |
| 3                                                                                                         | 550HC STS          | 65                                                | 19.9              | 92                                         | 28                  |
| 4                                                                                                         | 550HC STS          | 84                                                | 25.7              | 111                                        | 33.8                |
| 5                                                                                                         | 550HC STS          | 103                                               | 31.5              | 130                                        | 39.6                |
| 6                                                                                                         | 550HC STS          | 122                                               | 37.3              | 149                                        | 45.4                |
| 7                                                                                                         | 550HC STS          | 142                                               | 43.1              | 168                                        | 51.2                |
| 8                                                                                                         | 550HC STS          | 161                                               | 48.9              | 187                                        | 57                  |
| 9                                                                                                         | 550HC STS          | 180                                               | 54.7              | 206                                        | 62.8                |
| 10                                                                                                        | Transition         | 199                                               | 60.5              | 225                                        | 68.6                |
| 11                                                                                                        | 290HC STS          | 212                                               | 64.7              | 239                                        | 72.7                |
| 12                                                                                                        | 290HC STS          | 226                                               | 68.8              | 252                                        | 76.9                |
| 13                                                                                                        | 290HC STS          | 239                                               | 72.9              | 266                                        | 81                  |
| 14                                                                                                        | 290HC STS          | 253                                               | 77.1              | 279                                        | 85.2                |
| 15                                                                                                        | 290HC STS          | 267                                               | 81.2              | 293                                        | 89.3                |
| 16                                                                                                        | 290HC STS          | 280                                               | 85.4              | 307                                        | 93.4                |
| 17 <sup>3</sup>                                                                                           | 290HC STS          | 293 <sup>1</sup>                                  | 89.4 <sup>1</sup> | 320 <sup>1,4</sup>                         | 97.6 <sup>1,4</sup> |



# LIEBHERR 316 EC-H 12

## Hook Heights

| Configuration III <sup>1</sup>                                 |                    |                         |        |
|----------------------------------------------------------------|--------------------|-------------------------|--------|
| <b>290 HC</b><br>on 40'-9" (12.42m)<br>reinforced base section |                    |                         |        |
| No. of Tower Elements                                          | Tower Element Type | static concrete footing |        |
|                                                                |                    | feet                    | meters |
| 1                                                              | 290HC RBS          | 48                      | 14.7   |
| 2                                                              | 290HC BS           | 89                      | 27.2   |
| 3                                                              | 290HC BS           | 130                     | 39.6   |
| 4                                                              | 290HC STS          | 143                     | 43.7   |
| 5                                                              | 290HC STS          | 157                     | 47.9   |
| 6                                                              | 290HC STS          | 171                     | 52     |
| 7                                                              | 290HC STS          | 184                     | 56.1   |
| 8                                                              | 290HC STS          | 198                     | 60.3   |
| 9                                                              | 290HC STS          | 212                     | 64.5   |
| 10                                                             | 290HC STS          | 225                     | 68.6   |

| Configuration IV <sup>1</sup>                                  |                    |                         |        |
|----------------------------------------------------------------|--------------------|-------------------------|--------|
| <b>290 HC</b><br>on 40'-9" (12.42m)<br>reinforced base section |                    |                         |        |
| No. of Tower Elements                                          | Tower Element Type | static concrete footing |        |
|                                                                |                    | feet                    | meters |
| 1                                                              | 290HC RBS          | 48                      | 14.7   |
| 2                                                              | 290HC BS           | 89                      | 27.2   |
| 3                                                              | 290HC RTS          | 103                     | 31.3   |
| 4                                                              | 290HC STS          | 116                     | 35.4   |
| 5                                                              | 290HC STS          | 130                     | 39.6   |
| 6                                                              | 290HC STS          | 143                     | 43.7   |
| 7                                                              | 290HC STS          | 157                     | 47.9   |
| 8                                                              | 290HC STS          | 171                     | 52     |
| 9                                                              | 290HC STS          | 184                     | 56.1   |
| 10                                                             | 290HC STS          | 198                     | 60.3   |
| 11                                                             | 290HC STS          | 212                     | 64.5   |

| Configuration V                                              |                    |                         |                   |                               |                     |
|--------------------------------------------------------------|--------------------|-------------------------|-------------------|-------------------------------|---------------------|
| <b>290 HC</b><br>on 40'-9" (12.42m)<br>standard base section |                    |                         |                   |                               |                     |
| No. of Tower Elements                                        | Tower Element Type | static concrete footing |                   | rail-travelling undercarriage |                     |
|                                                              |                    | feet                    | meters            | feet                          | meters              |
| 1                                                            | 290HC BS           | 48                      | 14.7              | 64                            | 19.4                |
| 2                                                            | 290HC STS          | 62                      | 18.9              | 77                            | 23.6                |
| 3                                                            | 290HC STS          | 75                      | 23                | 91                            | 27.7                |
| 4                                                            | 290HC STS          | 89                      | 27.2              | 105                           | 31.9                |
| 5                                                            | 290HC STS          | 103                     | 31.3              | 118                           | 36                  |
| 6                                                            | 290HC STS          | 116                     | 35.4              | 132                           | 40.1                |
| 7                                                            | 290HC STS          | 130                     | 39.6              | 145                           | 44.3                |
| 8                                                            | 290HC STS          | 143                     | 43.7              | 159                           | 48.4                |
| 9                                                            | 290HC STS          | 157                     | 47.9              | 173                           | 52.6                |
| 10                                                           | 290HC STS          | 171 <sup>2</sup>        | 52 <sup>2</sup>   | 186 <sup>2,4</sup>            | 56.7 <sup>2,4</sup> |
| 11 <sup>3</sup>                                              | 290HC STS          | 184 <sup>2</sup>        | 56.2 <sup>2</sup> |                               |                     |

Specifications subject to change without prior notice. For additional information, contact Bigge.

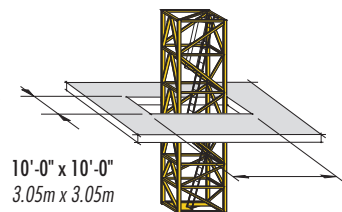
### NOTE!

- Configuration is without top climbing unit.
- Lower top climbing unit to base of tower prior to operating crane.
- Wind restrictions apply: Crane must not be operated at this hook height if wind speed exceeds 40 mph (64 kph).
- No other crane operations permitted when travelling.

Alternate tower combinations are possible. Refer to Operation manual or contact Bigge for information.

Consult crane Operation Manual before erecting, operating, servicing or dismantling crane.

**NOTE!** Recommended slab opening for erection and dismantlement. For other factors including deflection, contact Bigge engineering.

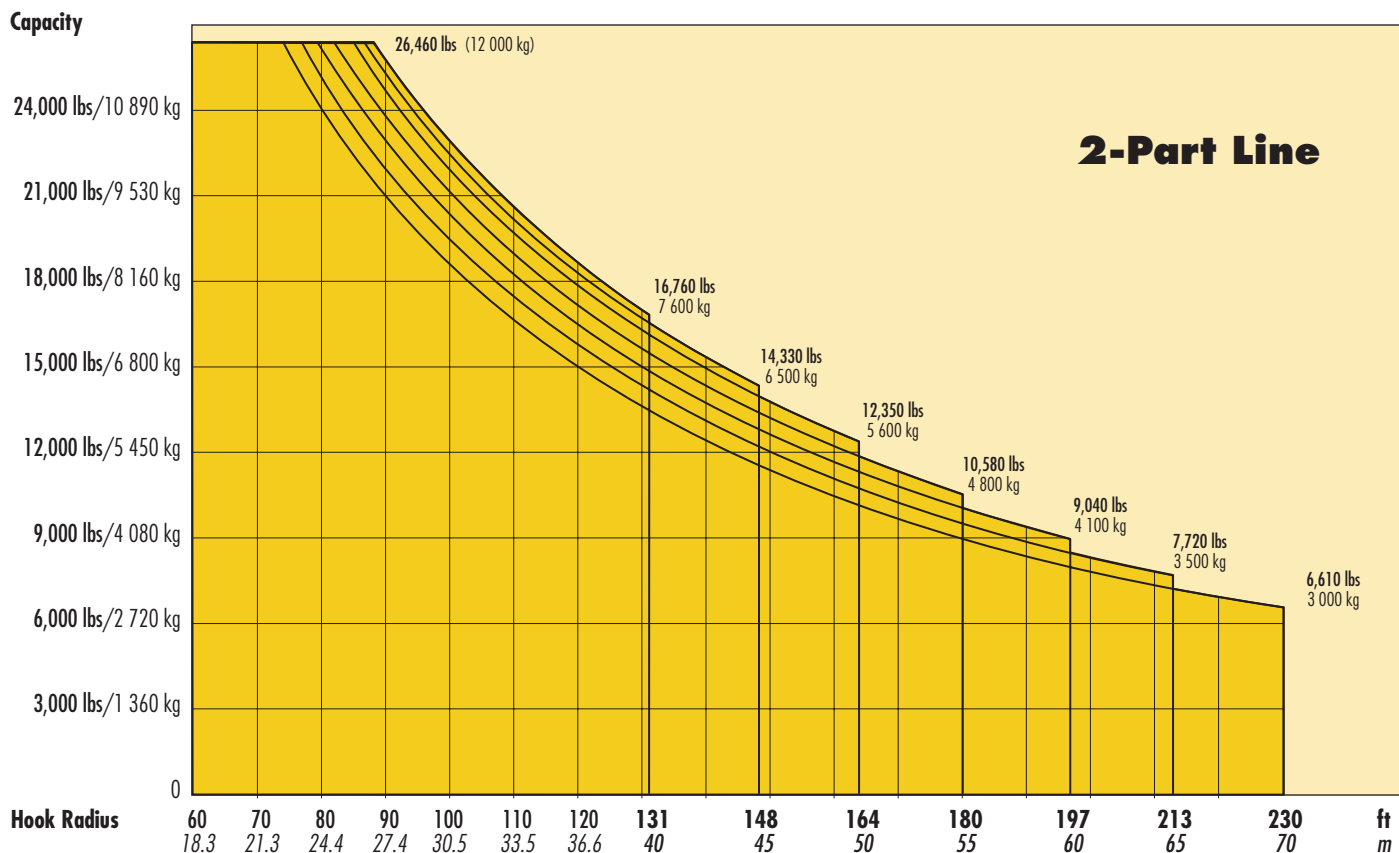


**SLAB OPENING**  
Recommended

# LIEBHERR 316 EC-H 12

## Radius and Capacities

| 2-Part Line | Hook Radius   | Jib Tip Radius    | Maximum Capacity – Radius               | ft<br>m   | 66<br>20         | 72<br>22         | 82<br>25         | 92<br>28         | 102<br>31        | 112<br>34       | 121<br>37       | 131<br>40       | 148<br>45       | 164<br>50       | 180<br>55       | 197<br>60      | 213<br>65      | 230<br>70      |
|-------------|---------------|-------------------|-----------------------------------------|-----------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|
|             | 230 ft<br>70m | 234'-11"<br>71.6m | 26,460 lbs – 73 ft<br>12 000 kg – 22.4m | lbs<br>kg | 26,460<br>12 000 | 26,460<br>12 000 | 23,410<br>10 620 | 20,590<br>9 340  | 18,320<br>8 310  | 16,470<br>7 470 | 14,900<br>6 760 | 13,580<br>6 160 | 11,770<br>5 340 | 10,320<br>4 680 | 9,150<br>4 150  | 8,160<br>3 700 | 7,320<br>3 320 | 6,610<br>3 000 |
|             | 213 ft<br>65m | 218'-6"<br>66.6m  | 26,460 lbs – 76 ft<br>12 000 kg – 23.3m | lbs<br>kg | 26,460<br>12 000 | 26,460<br>12 000 | 24,450<br>11 090 | 21,520<br>9 760  | 19,160<br>8 690  | 17,220<br>7 810 | 15,590<br>7 070 | 14,220<br>6 450 | 12,320<br>5 590 | 10,820<br>4 910 | 9,610<br>4 360  | 8,580<br>3 890 | 7,720<br>3 500 |                |
|             | 197 ft<br>60m | 202'-1"<br>61.6m  | 26,460 lbs – 80 ft<br>12 000 kg – 24.3m | lbs<br>kg | 26,460<br>12 000 | 26,460<br>12 000 | 25,570<br>11 600 | 22,510<br>10 210 | 20,040<br>9 090  | 18,030<br>8 180 | 16,340<br>7 410 | 14,900<br>6 760 | 12,940<br>5 870 | 11,380<br>5 160 | 10,100<br>4 580 | 9,040<br>4 100 |                |                |
|             | 180 ft<br>55m | 185'-8"<br>56.6m  | 26,460 lbs – 83 ft<br>12 000 kg – 25.2m | lbs<br>kg | 26,460<br>12 000 | 26,460<br>12 000 | 26,460<br>12 000 | 23,460<br>10 640 | 20,900<br>9 480  | 18,810<br>8 530 | 17,060<br>7 740 | 15,560<br>7 060 | 13,540<br>6 140 | 11,900<br>5 400 | 10,580<br>4 800 |                |                |                |
|             | 164 ft<br>50m | 169'-4"<br>51.6m  | 26,460 lbs – 85 ft<br>12 000 kg – 25.9m | lbs<br>kg | 26,460<br>12 000 | 26,460<br>12 000 | 26,460<br>12 000 | 24,250<br>11 000 | 21,610<br>9 800  | 19,440<br>8 820 | 17,640<br>8 000 | 16,120<br>7 310 | 14,020<br>6 360 | 12,350<br>5 600 |                 |                |                |                |
|             | 148 ft<br>45m | 152'-11"<br>46.6m | 26,460 lbs – 87 ft<br>12 000 kg – 26.4m | lbs<br>kg | 26,460<br>12 000 | 26,460<br>12 000 | 26,460<br>12 000 | 24,760<br>11 230 | 22,070<br>10 010 | 19,860<br>9 010 | 18,030<br>8 180 | 16,470<br>7 470 | 14,330<br>6 500 |                 |                 |                |                |                |
|             | 131 ft<br>40m | 136'-6"<br>41.6m  | 26,460 lbs – 88 ft<br>12 000 kg – 26.8m | lbs<br>kg | 26,460<br>12 000 | 26,460<br>12 000 | 26,460<br>12 000 | 25,150<br>11 410 | 22,440<br>10 180 | 20,220<br>9 170 | 18,340<br>8 320 | 16,760<br>7 600 |                 |                 |                 |                |                |                |



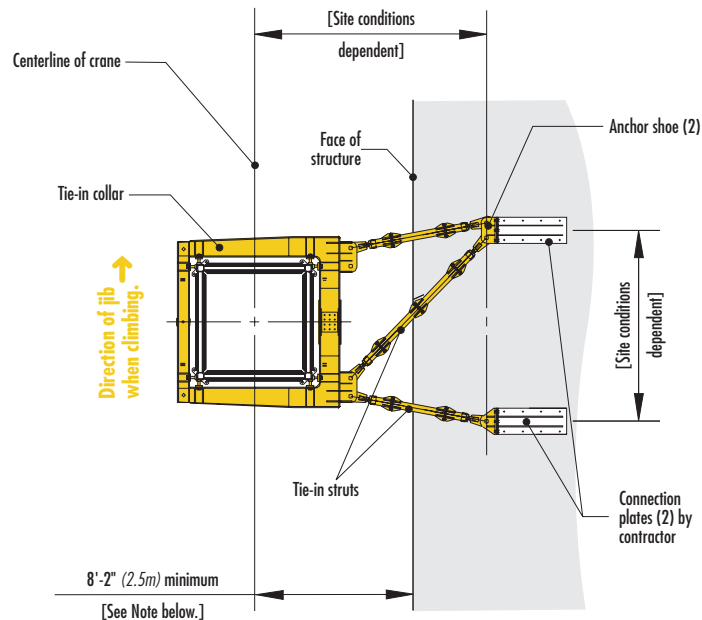
# LIEBHERR 316 EC-H 12

## Tie-in Details

**NOTE!** For information regarding bottom climbing inside of structure, please contact Bigge.

**NOTE!** Restrictions apply; please consult Operations Manual or Bigge engineering.

- For hook heights below 330 ft (100m), a maximum of 9 tower sections may be installed above uppermost tie-in location. If hook height exceeds 330 ft (100m), a maximum of 8 tower sections may be installed.
- Lower top climbing unit to upper tie-in assembly prior to operating crane.



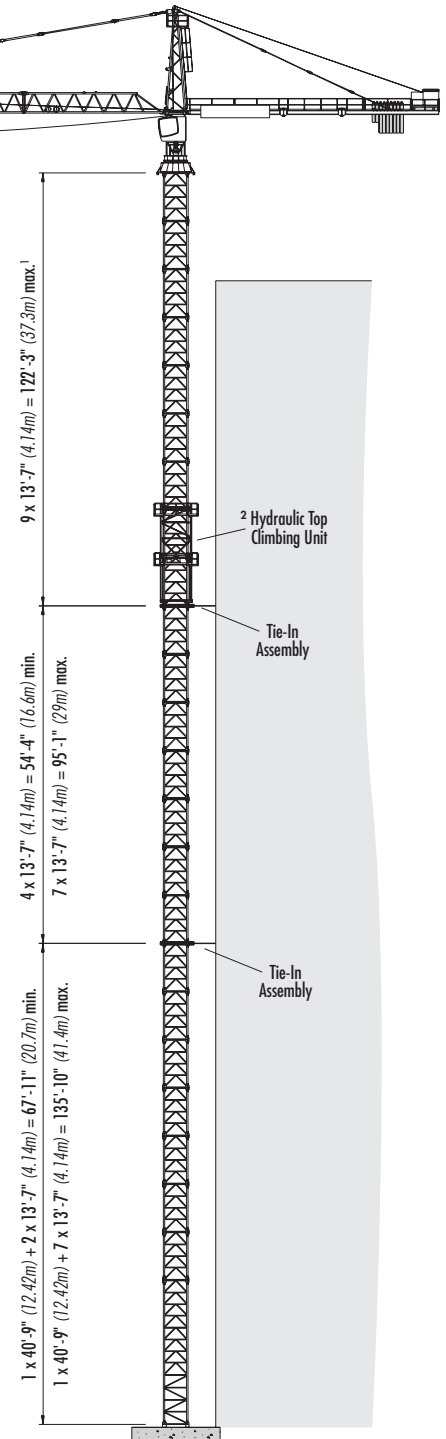
**TIE-IN ASSEMBLY**  
with 290 HC Tower Sections  
plan view

**NOTE!** The tie-in assembly shown is an example of a typical installation when using 290HC tower. Please note, however, that factors determining the installation of tie-in assemblies may vary due to project specific requirements.

Verify all dimensions.

Contact Bigge for additional information regarding dimensions, alternate tower configurations, reactions forces, tie-in installation and slab opening requirements.

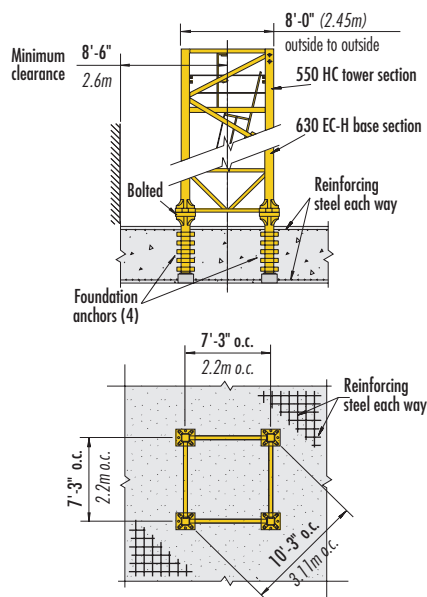
Consult Operations Manual before erecting, operating, servicing or dismantling crane.



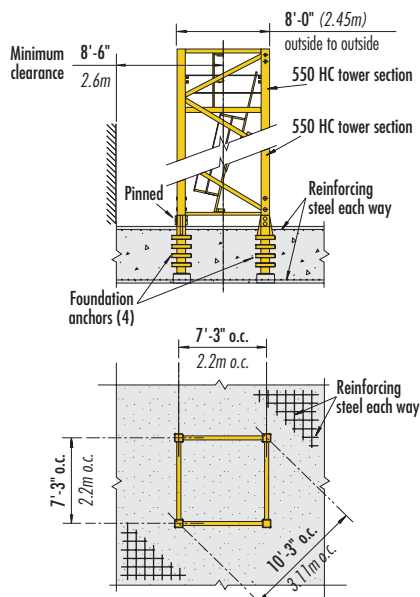
**TOP CLIMBING**  
with 290 HC Tower Sections  
tied to structure

# LIEBHERR 316 EC-H 12

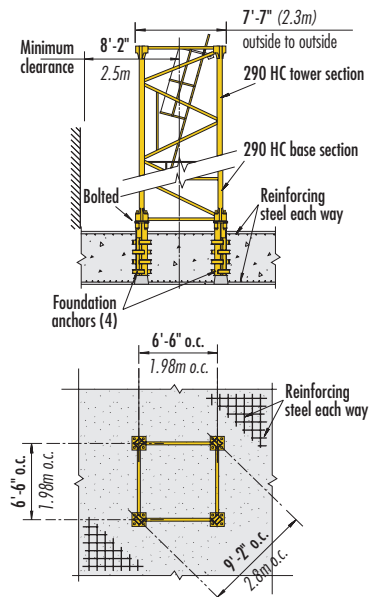
## Foundation Details *on concrete footing*



**with 630 EC-H Tower**

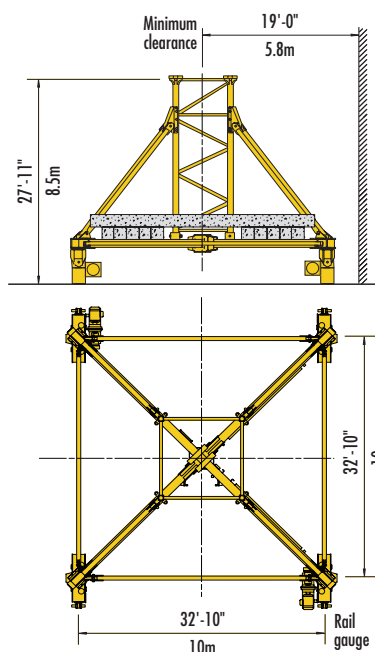


**with 550 HC Tower**

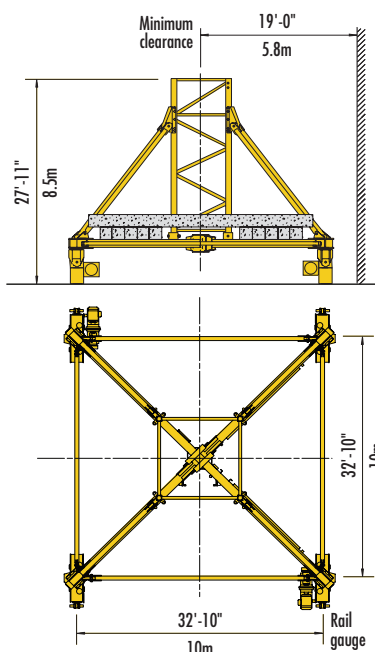


**with 290 HC Tower**

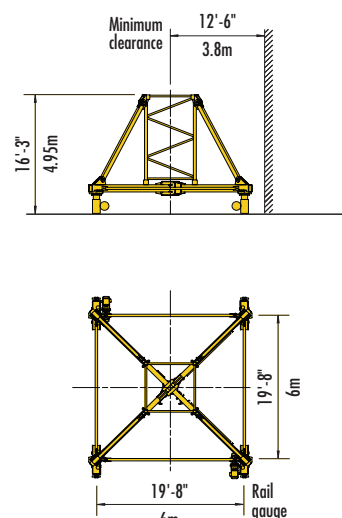
## Undercarriage Details *on rail-travelling undercarriage*



**630 EC-H**



**550 HC**



**290 HC**

**NOTE!** For information regarding rail-travelling, static undercarriages and centralballast configurations, see 316 EC-H 12 Operation Manual.

# LIEBHERR 316 EC-H 12

## Hoist Speed and Capacity

| Hoist Unit                                                                                                           | WiW 291 JX 410 | 2-Part Line      |  |            |         |          |                 |            |             |
|----------------------------------------------------------------------------------------------------------------------|----------------|------------------|--|------------|---------|----------|-----------------|------------|-------------|
| 108 hp (80 kW) AC hoist unit<br>3-speed gearbox<br>Electromagnetic gear shifting<br>Eddy current brake<br><br>8L-242 | Gear           | Capacity         |  | Hook Speed |         | Capacity |                 | Hook Speed |             |
|                                                                                                                      | 1              | up to 26,460 lbs |  | @          | 118 fpm |          | up to 12 000 kg |            | @ 36 m/min  |
|                                                                                                                      | 2              | up to 9,260 lbs  |  | @          | 289 fpm |          | up to 4 200 kg  |            | @ 88 m/min  |
|                                                                                                                      | 3              | up to 3,090 lbs  |  | @          | 640 fpm |          | up to 1 400 kg  |            | @ 195 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 316 EC-H 12 Operation Manual for additional information.

## Motor Information

| Drive Unit                  | Horsepower | Kilowatts  | Speed       |               |
|-----------------------------|------------|------------|-------------|---------------|
| Trolley (VFD)               | 14.7 hp    | 11 kW      | 0 - 377 fpm | 0 - 115 m/min |
| Swing (fluid coupling)      | 2 x 8.4 hp | 2 x 6.3 kW | 0.7 rpm     |               |
| Travelling (fluid coupling) | 2 x 10 hp  | 2 x 7.5 kW | 82 fpm      | 25 m/min      |

## Power Requirements

- 480 V phase-phase, 277 V each phase to ground with 120° phase shift between phases. Do not use an Open-Delta supply.
- 3-phase, 60 Hz power supply plus ground wire.
- Static: 170 Amperes
- Travelling: 195 Amperes (when using a 290 HC travelling undercarriage. If alternate undercarriage is used, contact Bigge for power requirements.)

## Counterweights\*

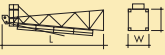
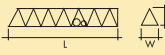
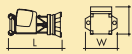
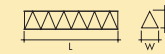
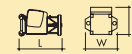
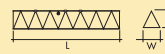
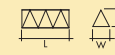
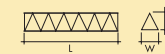
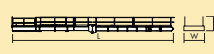
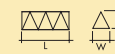
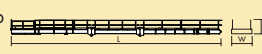
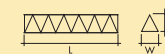
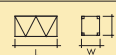
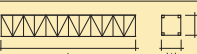
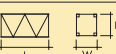
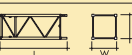
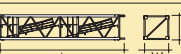
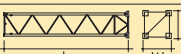
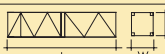
| Counterjib    | 76-ft (23.2m) |              |              |              | 60-ft (18.2m) |              |              |
|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|
| Jib length    | 230-ft (70m)  | 213-ft (65m) | 197-ft (60m) | 180-ft (55m) | 164-ft (50m)  | 148-ft (45m) | 131-ft (40m) |
| No. of blocks | 7A + 2B       | 6A + 2B      | 7A           | 6A           | 8A + 1B       | 6A + 2B      | 6A + 1B      |
| Weight in lbs | 46,410 lbs    | 41,450 lbs   | 40,010 lbs   | 35,050 lbs   | 48,170 lbs    | 41,450 lbs   | 38,250 lbs   |
| Weight in kg  | 21 050 kg     | 18 800 kg    | 18 150 kg    | 15 900 kg    | 21 850 kg     | 18 800 kg    | 17 350 kg    |

**NOTE!** Weight of the A Block is 4,960 lbs (2 250 kg); the B Block is 3,200 lbs (1 450 kg) and the D Block is 5,290 lbs (2 400 kg). Counterweights must be installed from rear to front, i.e. towards the tower. It is recommended that the weight of each counterweight be verified before installation. Counterweight figures displayed in the chart above are for crane with hoist unit WiW 291 JX 410 installed. If another hoist unit is installed, refer to the Liebherr 316 EC-H 12 Operation Manual or contact Bigge for additional information.

**\*IMPORTANT** One (1) D Block **must** be installed beneath the hoist unit frame of the counterjib.

Specifications subject to change without prior notice. For additional information, contact Bigge.

# LIEBHERR 316 EC-H 12

| Description                                                                                                                    | Dimensions<br>L x W x H                            | Weight                  | Description                                                                                                                          | Dimensions<br>L x W x H                           | Weight                  |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|
| Tower Top<br>                                 | 29'-9" x 5'-9" x 6'-4"<br>9.05m x 1.76m x 1.94m    | 6,170 lbs<br>2 800 kg   | Jib Section ① <sup>7</sup><br>C051.001.611.111<br> | 40'-3" x 6'-1" x 6'-5"<br>12.26m x 1.86m x 1.96m  | 7,050 lbs<br>3 200 kg   |
| Slewing Assembly (Complete) <sup>1</sup><br>  | 18'-0" x 9'-0" x 9'-2"<br>5.49m x 2.74m x 2.8m     | 22,490 lbs<br>10 200 kg | Jib Section ②③ <sup>7</sup><br>#621<br>            | 33'-7" x 5'-5" x 6'-2"<br>10.26m x 1.65m x 1.88m  | 4,145 lbs<br>1 880 kg   |
| Slewing Assembly Upper Part <sup>2</sup><br>  | 14'-11" x 9'-0" x 9'-2"<br>4.54m x 2.74m x 2.8m    | 14,550 lbs<br>6 600 kg  | Jib Section ④ <sup>7</sup><br>C051.023.631.111<br> | 40'-4" x 5'-5" x 6'-1"<br>12.28m x 1.65m x 1.87m  | 4,980 lbs<br>2 260 kg   |
| Slewing Assembly Lower Part <sup>3</sup><br>  | 3'-9" x 9'-0" x 7'-9"<br>1.15m x 2.74m x 2.36m     | 7,940 lbs<br>3 600 kg   | Jib Section ⑤ <sup>7</sup><br>#632<br>            | 17'-5" x 5'-5" x 6'-1"<br>5.32m x 1.65m x 1.87m   | 1,810 lbs<br>820 kg     |
| Hoist Unit <sup>4</sup><br>108 hp (80 kW)<br> | 9'-5" x 7'-3" x 6'-9"<br>2.88m x 2.22m x 2.07m     | 8,600 lbs<br>3 900 kg   | Jib Section ⑥ <sup>7</sup><br>#633<br>             | 33'-8" x 5'-5" x 6'-1"<br>10.27m x 1.65m x 1.87m  | 2,690 lbs<br>1 220 kg   |
| Counterjib A <sup>5</sup><br>                 | 54'-9" x 8'-0" x 5'-7"<br>16.7m x 2.45m x 1.7m     | 17,420 lbs<br>7 900 kg  | Jib Section ⑨ <sup>7</sup><br>#635<br>            | 17'-3" x 5'-5" x 6'-0"<br>5.25m x 1.65m x 1.84m   | 1,120 lbs<br>510 kg     |
| Counterjib B <sup>6</sup><br>                 | 71'-2" x 8'-0" x 5'-7"<br>21.7m x 2.45m x 1.7m     | 21,380 lbs<br>9 700 kg  | Jib Section ⑦ <sup>7</sup><br>#634<br>             | 33'-7" x 5'-5" x 6'-0"<br>10.26m x 1.65m x 1.84m  | 1,760 lbs<br>800 kg     |
| Counterweight Block A with frame<br>          | 4'-4" x 11" x 8'-4"<br>1.31m x 0.28m x 2.54m       | 4,960 lbs<br>2 250 kg   | Jib Section ⑧ <sup>7</sup><br>#641<br>            | 5'-7" x 6'-2" x 6'-9"<br>1.7m x 1.88m x 2.05m     | 630 lbs<br>285 kg       |
| Counterweight Block B with frame<br>          | 4'-4" x 11" x 5'-5"<br>1.31m x 0.28m x 1.65m       | 3,200 lbs<br>1 450 kg   | Jib Assembly <sup>8</sup><br>230-ft (70m) ①②③④⑤⑥⑦⑧                                                                                   | 230'-4" x 6'-2" x 6'-9"<br>70.2m x 1.88m x 2.05m  | 34,170 lbs<br>15 500 kg |
| Base Section 290HC<br>                        | 40'-9" x 7'-7" x 7'-7"<br>12.42m x 2.3m x 2.3m     | 17,500 lbs<br>7 940 kg  | Jib Assembly <sup>8</sup><br>213-ft (65m) ①②③④⑥⑦⑧                                                                                    | 213'-11" x 6'-2" x 6'-9"<br>65.2m x 1.88m x 2.05m | 33,070 lbs<br>15 000 kg |
| Long Tower Sect. 290HC<br>                   | 40'-9" x 7'-7" x 7'-7"<br>12.42m x 2.3m x 2.3m     | 12,720 lbs<br>5 770 kg  | Jib Assembly <sup>8</sup><br>197-ft (60m) ①②③④⑤⑥⑧                                                                                    | 197'-6" x 6'-2" x 6'-9"<br>60.2m x 1.88m x 2.05m  | 32,190 lbs<br>14 600 kg |
| Standard Tower Section 290HC<br>            | 13'-7" x 7'-7" x 7'-7"<br>4.14m x 2.3m x 2.3m      | 5,070 lbs<br>2 300 kg   | Jib Assembly <sup>8</sup><br>180-ft (55m) ①②③④⑥⑧                                                                                     | 181'-1" x 6'-2" x 6'-9"<br>55.2m x 1.88m x 2.05m  | 29,760 lbs<br>13 500 kg |
| Reinforced Base 290HC<br>                   | 40'-9" x 7'-7" x 7'-7"<br>12.42m x 2.3m x 2.3m     | 16,400 lbs<br>7 440 kg  | Jib Assembly <sup>8</sup><br>164-ft (50m) ①②④⑤⑥⑧                                                                                     | 164'-8" x 6'-2" x 6'-9"<br>50.2m x 1.88m x 2.05m  | 26,230 lbs<br>11 900 kg |
| Reinforced Tower Section 290HC<br>          | 13'-7" x 7'-7" x 7'-7"<br>4.14m x 2.3m x 2.3m      | 6,500 lbs<br>2 950 kg   | Jib Assembly <sup>8</sup><br>148-ft (45m) ①②④⑥⑧                                                                                      | 148'-4" x 6'-2" x 6'-9"<br>45.2m x 1.88m x 2.05m  | 24,470 lbs<br>11 100 kg |
| Std Tower Section 550HC<br>                 | 20'-7" x 8'-0" x 8'-0"<br>6.28m x 2.45m x 2.45m    | 14,290 lbs<br>6 480 kg  | Jib Assembly <sup>8</sup><br>131-ft (40m) ①②④⑤⑧                                                                                      | 131'-11" x 6'-2" x 6'-9"<br>40.2m x 1.88m x 2.05m | 22,270 lbs<br>10 100 kg |
| Long Tower Section 550HC<br>                | 39'-8" x 8'-0" x 8'-0"<br>12.1m x 2.45m x 2.45m    | 23,480 lbs<br>10 650 kg | Transition (P/B)<br>550HC/290HC<br>             | 20'-7" x 8'-5" x 8'-5"<br>6.28m x 2.57m x 2.57m   | 13,050 lbs<br>5 920 kg  |
| Base Section 630EC-H (B/P)<br>              | 40'-9" x 8'-10" x 8'-10"<br>12.42m x 2.68m x 2.68m | 31,970 lbs<br>14 500 kg | Top Climbing Unit & Hydraulics (290HC)<br>       | 27'-7" x 9'-2" x 8'-10"<br>8.42m x 2.79m x 2.69m  | 16,530 lbs<br>7 500 kg  |

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

<sup>1</sup> Slewing Assembly Complete includes cab, platforms, two swing motors, slewing ring with support and four non-detachable climbing shoes. Dimensions above are for climbing shoes in transport position.

<sup>2</sup> Slewing Assembly Upper Part includes operator's cab, platforms and two swing motors.

<sup>3</sup> Slewing Assembly Lower Part includes slewing ring, slewing ring support and four non-detachable climbing shoes. Dimensions shown above are with climbing shoes in transport position.

<sup>4</sup> Includes 108 hp (80 kW) hoist drive with empty rope drum, switchgear panels, and hoist unit frame. Typical installation of 790 ft (240m) of wire rope weighs approximately 1,190 lbs (540 kg).

<sup>5</sup> Counterjib A includes sections #1 (4,980 lbs/2 260 kg), #3 (6,880 lbs/3 120 kg), pendant bars, handrails and D block. Counterjib A is required for jibs 164 ft (50m) and shorter. D block is 5,290 lbs (2 400 kg).

<sup>6</sup> Counterjib B includes sections #1, #2 (3,420 lbs/1 550 kg), #3, pendant bars, handrails and D block. Counterjib B is required for jibs 180 ft (55m) and longer. D block weighs 5,290 lbs (2 400 kg).

<sup>7</sup> Jib layout details provided in 316EC-H12 Operation Manual. IMPORTANT: Please verify all jib components PRIOR to assembly and installation.

<sup>8</sup> Jib Assemblies include jib sections, pendant bars, pendant bar connecting pins and plates, trolley drive unit, trolley wire rope, hook block and trolley.

The American home of  
**LIEBHERR**  
TOWER CRANES

