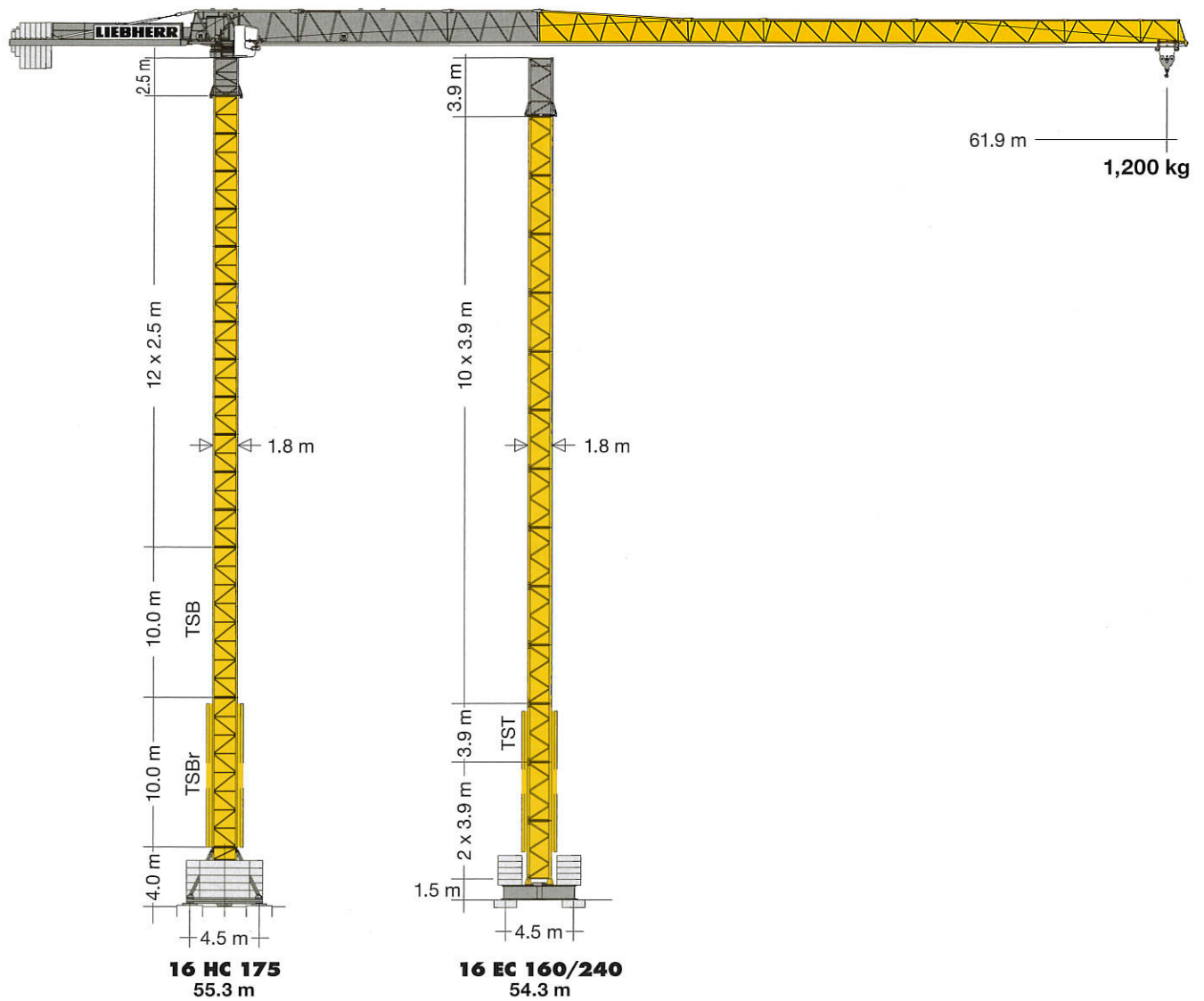


Tower Crane NC-B 9-62

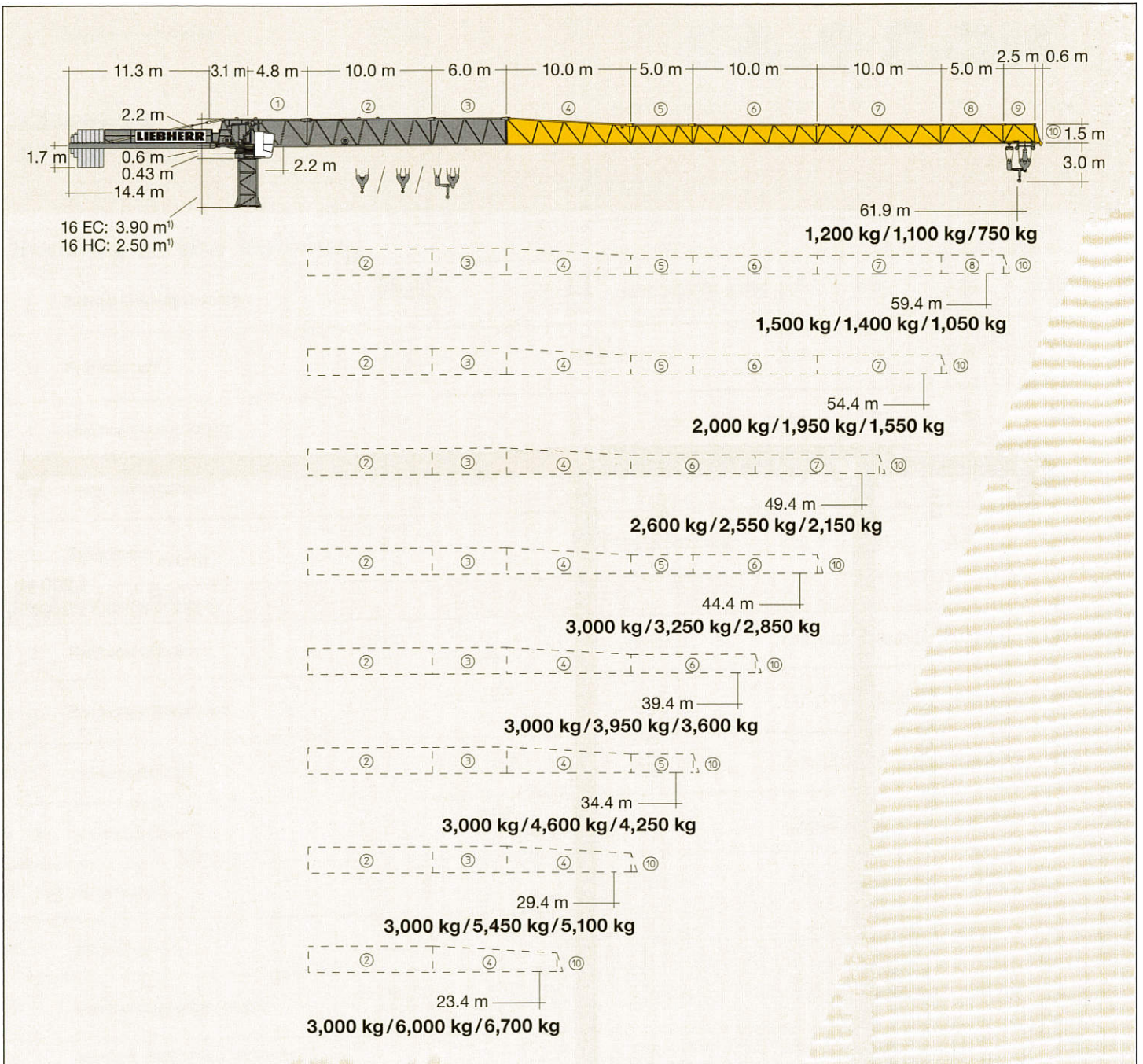
NC-B 6-62
NC-B 9-62



LN 303


LIEBHERR

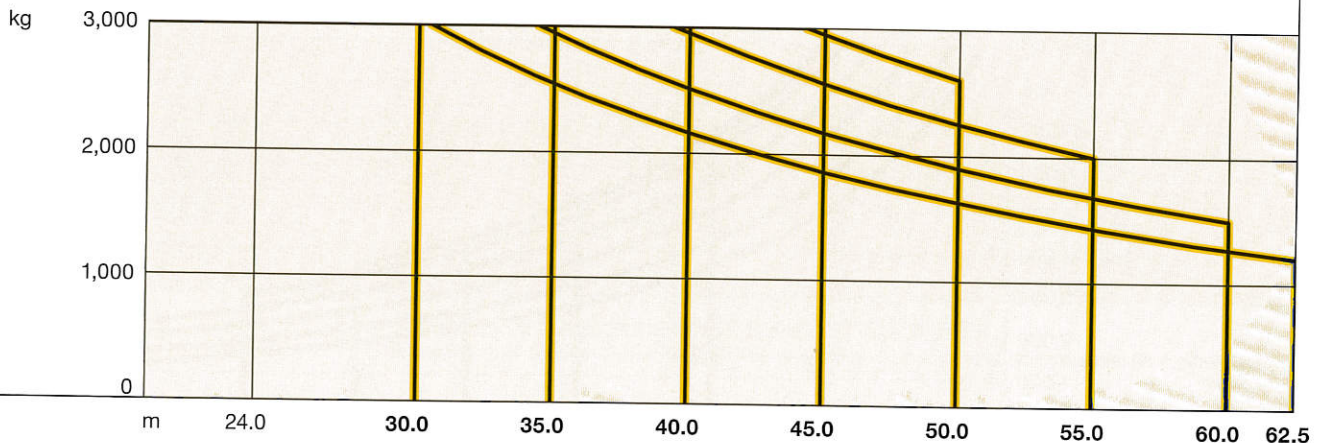
Radius and capacity




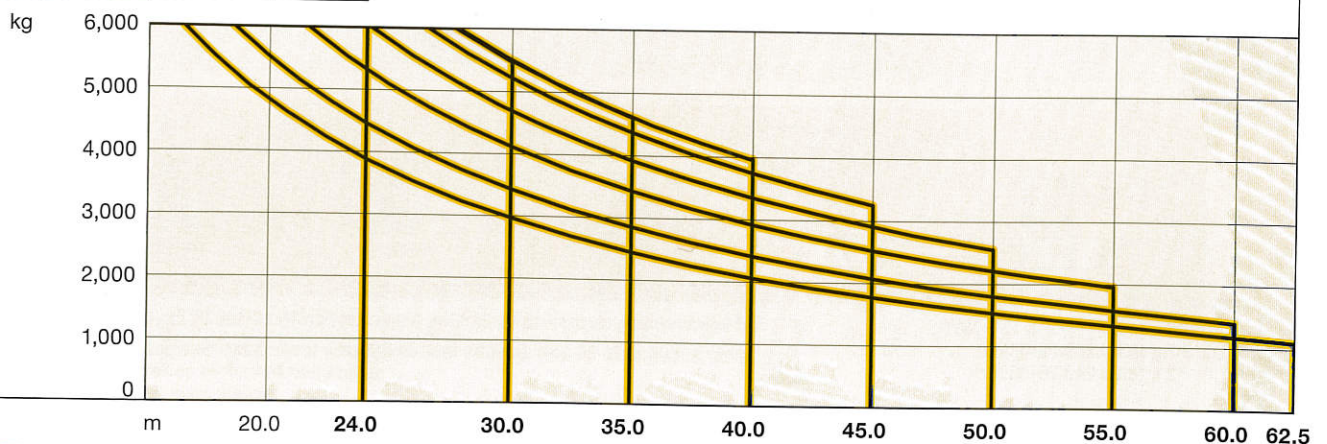
¹⁾ Tower section or climbing tower section.

Radius and capacity

| m | r | m/kg  | m/kg | | | | | | | | |
|------|------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 24.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0 | 55.0 | 60.0 | 62.5 |
| 62.5 | (r = 63.9) | 3.3 - 30.5 3,000 | 3,000 | 3,000 | 2,540 | 2,160 | 1,860 | 1,630 | 1,430 | 1,270 | 1,200 |
| 60.0 | (r = 61.4) | 3.3 - 34.4 3,000 | 3,000 | 3,000 | 2,940 | 2,510 | 2,170 | 1,900 | 1,680 | 1,500 | |
| 55.0 | (r = 56.4) | 3.3 - 39.4 3,000 | 3,000 | 3,000 | 3,000 | 2,950 | 2,560 | 2,250 | 2,000 | | |
| 50.0 | (r = 51.4) | 3.3 - 44.3 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 2,950 | 2,600 | | | |
| 45.0 | (r = 46.4) | 3.3 - 45.0 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | | | |
| 40.0 | (r = 41.4) | 3.3 - 40.0 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | | | | | |
| 35.0 | (r = 36.4) | 3.3 - 35.0 3,000 | 3,000 | 3,000 | 3,000 | | | | | | |
| 30.0 | (r = 31.4) | 3.3 - 30.0 3,000 | 3,000 | 3,000 | | | | | | | |
| 24.0 | (r = 25.4) | 3.3 - 24.0 3,000 | 3,000 | | | | | | | | |

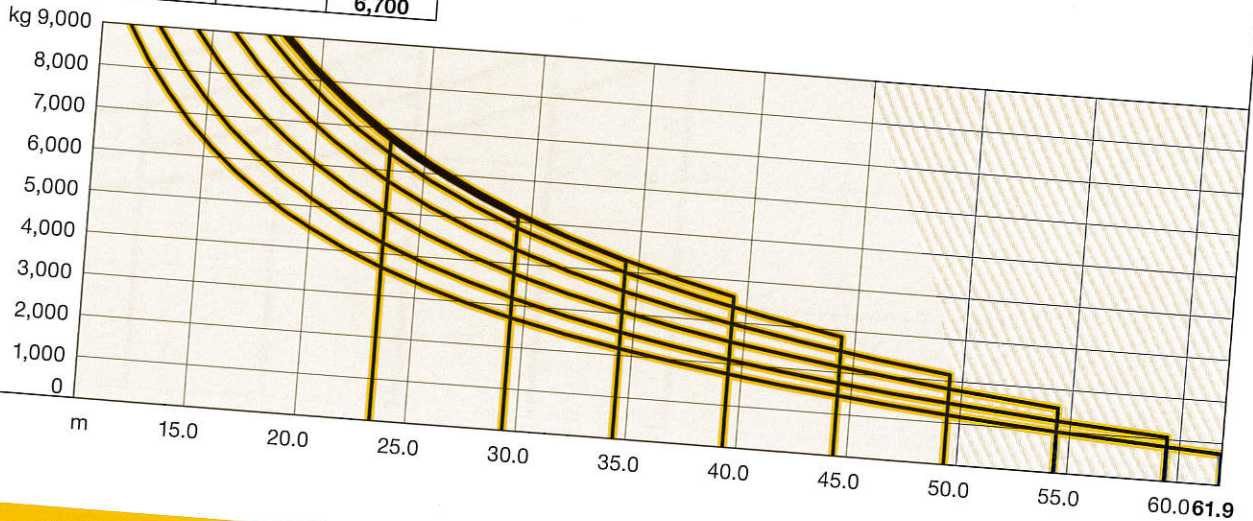


| m | r | m/kg  | m/kg | | | | | | | | | |
|------|------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 20.0 | 24.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0 | 55.0 | 60.0 | 62.5 |
| 62.5 | (r = 63.9) | 3.3 - 16.4 6,000 | 4,790 | 3,880 | 2,970 | 2,450 | 2,060 | 1,770 | 1,530 | 1,330 | 1,170 | 1,100 |
| 60.0 | (r = 61.4) | 3.3 - 18.5 6,000 | 5,500 | 4,460 | 3,430 | 2,850 | 2,410 | 2,070 | 1,800 | 1,580 | 1,400 | |
| 55.0 | (r = 56.4) | 3.3 - 21.6 6,000 | 6,000 | 5,320 | 4,110 | 3,430 | 2,920 | 2,520 | 2,210 | 1,950 | | |
| 50.0 | (r = 51.4) | 3.3 - 24.2 6,000 | 6,000 | 6,000 | 4,690 | 3,920 | 3,350 | 2,900 | 2,550 | | | |
| 45.0 | (r = 46.4) | 3.3 - 26.5 6,000 | 6,000 | 6,000 | 5,210 | 4,370 | 3,740 | 3,250 | | | | |
| 40.0 | (r = 41.4) | 3.3 - 27.8 6,000 | 6,000 | 6,000 | 5,500 | 4,610 | 3,950 | | | | | |
| 35.0 | (r = 36.4) | 3.3 - 27.7 6,000 | 6,000 | 6,000 | 5,490 | 4,600 | | | | | | |
| 30.0 | (r = 31.4) | 3.3 - 27.6 6,000 | 6,000 | 6,000 | 5,450 | | | | | | | |
| 24.0 | (r = 25.4) | 3.3 - 24.0 6,000 | 6,000 | 6,000 | | | | | | | | |



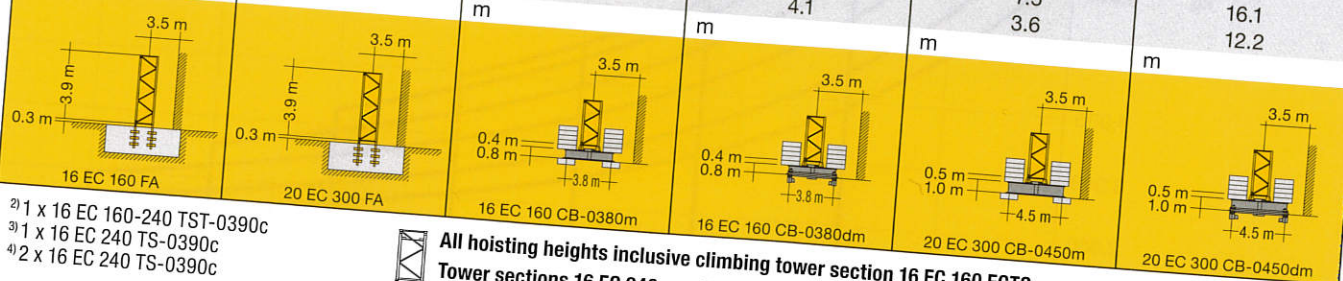
Radius and capacity

| m | r | m/kg m/kg | m/kg | | | | | | | | | | |
|------|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| | | | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0 | 55.0 | 60.0 | 61.9 |
| 61.9 | (r = 63.9) | 2.8 - 11.3 9,000 | 6,400 | 4,490 | 3,370 | 2,630 | 2,100 | 1,710 | 1,410 | 1,170 | 970 | 810 | 750 |
| 59.4 | (r = 61.4) | 2.8 - 12.6 9,000 | 7,330 | 5,180 | 3,910 | 3,080 | 2,490 | 2,050 | 1,710 | 1,440 | 1,210 | 1,050 | 59.4 m |
| 54.4 | (r = 56.4) | 2.8 - 14.3 9,000 | 8,520 | 6,050 | 4,610 | 3,650 | 2,980 | 2,480 | 2,090 | 1,780 | 1,550 | 54.4 m | 1,050 |
| 49.4 | (r = 51.4) | 2.8 - 16.0 9,000 | 9,000 | 6,920 | 5,290 | 4,220 | 3,460 | 2,900 | 2,460 | 2,150 | 49.4 m | 2,150 | 44.4 m |
| 44.4 | (r = 46.4) | 2.8 - 17.5 9,000 | 9,000 | 7,700 | 5,910 | 4,730 | 3,900 | 3,280 | 2,850 | 2,44 m | 39.4 m | 3,600 | 34.4 m |
| 39.4 | (r = 41.4) | 2.8 - 18.5 9,000 | 9,000 | 8,220 | 6,320 | 5,070 | 4,190 | 3,600 | 3,280 | 2,850 | 39.4 m | 4,250 | 29.4 m |
| 34.4 | (r = 36.4) | 2.8 - 18.4 9,000 | 9,000 | 8,170 | 6,280 | 5,040 | 4,250 | 3,600 | 3,280 | 2,850 | 34.4 m | 4,250 | 29.4 m |
| 29.4 | (r = 31.4) | 2.8 - 18.2 9,000 | 9,000 | 8,080 | 6,210 | 5,100 | 4,250 | 3,600 | 3,280 | 2,850 | 29.4 m | 5,100 | 23.4 m |
| 23.4 | (r = 25.4) | 2.8 - 18.2 9,000 | 9,000 | 8,060 | 6,210 | 5,100 | 4,250 | 3,600 | 3,280 | 2,850 | 23.4 m | 6,700 | 15.0 m |



Hoisting height

| LN 303 | 16 EC 160/240 | | | | | |
|--------|--------------------|------------------------|--------------------|--------------------|------------------------|--------------------|
| 13 | - | 53.2 ¹⁾²⁾⁴⁾ | - | - | 54.3 ¹⁾²⁾⁴⁾ | - |
| 12 | - | 49.3 ¹⁾²⁾³⁾ | - | - | 50.4 ¹⁾²⁾⁴⁾ | - |
| 11 | - | 45.4 ¹⁾²⁾ | - | - | 46.5 ¹⁾²⁾ | - |
| 10 | 41.5 ¹⁾ | 41.5 | 42.4 ¹⁾ | - | 42.6 | 51.2 ¹⁾ |
| 9 | 37.6 | 37.6 | 38.5 | - | 38.7 | 47.3 |
| 8 | 33.7 | 33.7 | 34.6 | 39.2 ¹⁾ | 34.8 | 43.4 |
| 7 | 29.8 | 29.8 | 30.7 | 35.3 | 30.9 | 39.5 |
| 6 | 25.9 | 25.9 | 26.8 | 31.4 | 27.0 | 35.6 |
| 5 | 22.0 | 22.0 | 22.9 | 27.5 | 23.1 | 31.7 |
| 4 | 18.1 | 18.1 | 19.0 | 23.6 | 19.2 | 27.8 |
| 3 | 14.2 | 14.2 | 15.1 | 19.7 | 15.3 | 23.9 |
| 2 | 10.3 | 10.3 | 11.2 | 15.8 | 11.4 | 20.0 |
| 1 | 6.4 | 6.4 | 7.3 | 11.9 | 7.5 | 16.1 |
| 0 | 2.5 | 2.5 | 3.4 | 8.0 | 3.6 | 12.2 |



²⁾ 1 x 16 EC 160-240 TST-0390c
³⁾ 1 x 16 EC 240 TS-0390c
⁴⁾ 2 x 16 EC 240 TS-0390c

All hoisting heights inclusive climbing tower section 16 EC 160 ECTS.
 Tower sections 16 EC 240 must be installed on the tower base. See operation manual for further details.

Hoisting height

| LN 303 | | 16 HC 175 | | |
|--------|--------------------|-----------|--------------------|--------------------|
| 12 | - | | 54.6 ¹⁾ | 51.0 ¹⁾ |
| 11 | - | | 52.1 ¹⁾ | 48.5 ¹⁾ |
| 10 | 50.3 ¹⁾ | | 49.6 | 46.0 |
| 9 | 47.8 ¹⁾ | | 47.1 | 43.5 |
| 8 | 45.3 | | 44.6 | 41.0 |
| 7 | 42.8 | | 42.1 | 38.5 |
| 6 | 40.3 | | 39.6 | 36.0 |
| 5 | 37.8 | | 37.1 | 33.5 |
| 4 | 35.3 | | 34.6 | 31.0 |
| 3 | 32.8 | | 32.1 | 28.5 |
| 2 | 30.3 | | 29.6 | 26.0 |
| 1 | 27.8 | | 27.1 | 23.5 |
| 0 | 25.3 | | 24.6 | 21.0 |
| | m | m | m | m |

16 HC 175 UC-0450rd

16 HC 175 UC-0450r

16 HC 175 Far



All hoisting heights inclusive climbing tower section 16 EC 160 ECTS.

Tower sections 16 EC 240 must be installed on the tower base. See operation manual for further details.

Internal climbing

Dimensions and tower height

| | | 16 EC | | |
|-----|----------------------|------------------|--|-----------------------------|
| | | | | <p>Shaft opening</p> |
| pcs | tower height | he (min. - max.) | | <p>Floor opening</p> |
| 13 | 50.7 ⁵⁾ | 8.5 - 15.0 | | |
| 12 | 46.8 ⁵⁾ | 7.5 - 15.0 | | |
| 11 | 42.9 ⁵⁾ | 7.5 - 15.0 | | |
| 10 | 39.0 ⁵⁾ | 7.5 - 13.0 | | |
| 9 | 35.1 ⁵⁾ | 7.5 - 11.5 | | |
| 8 | m 31.2 ⁵⁾ | 7.5 - 9.0 | | |

⁵⁾ Tower heights for tower configuration on foundation anchors. For details please refer to the operating manual.

Hoisting height

| LN 303 | 16 HC 175 | | |
|--------|--------------------|--------------------|--------------------|
| 12 | - | 54.6 ¹⁾ | 51.0 ¹⁾ |
| 11 | - | 52.1 ¹⁾ | 48.5 ¹⁾ |
| 10 | 50.3 ¹⁾ | 49.6 | 46.0 |
| 9 | 47.8 ¹⁾ | 47.1 | 43.5 |
| 8 | 45.3 | 44.6 | 41.0 |
| 7 | 42.8 | 42.1 | 38.5 |
| 6 | 40.3 | 39.6 | 36.0 |
| 5 | 37.8 | 37.1 | 33.5 |
| 4 | 35.3 | 34.6 | 31.0 |
| 3 | 32.8 | 32.1 | 28.5 |
| 2 | 30.3 | 29.6 | 26.0 |
| 1 | 27.8 | 27.1 | 23.5 |
| 0 | 25.3 | 24.6 | 21.0 |
| | m | m | m |

16 HC 175 UC-0450rd

16 HC 175 UC-0450r

16 HC 175 FAr



All hoisting heights inclusive climbing tower section 16 EC 160 ECTS.

Tower sections 16 EC 240 must be installed on the tower base. See operation manual for further details.

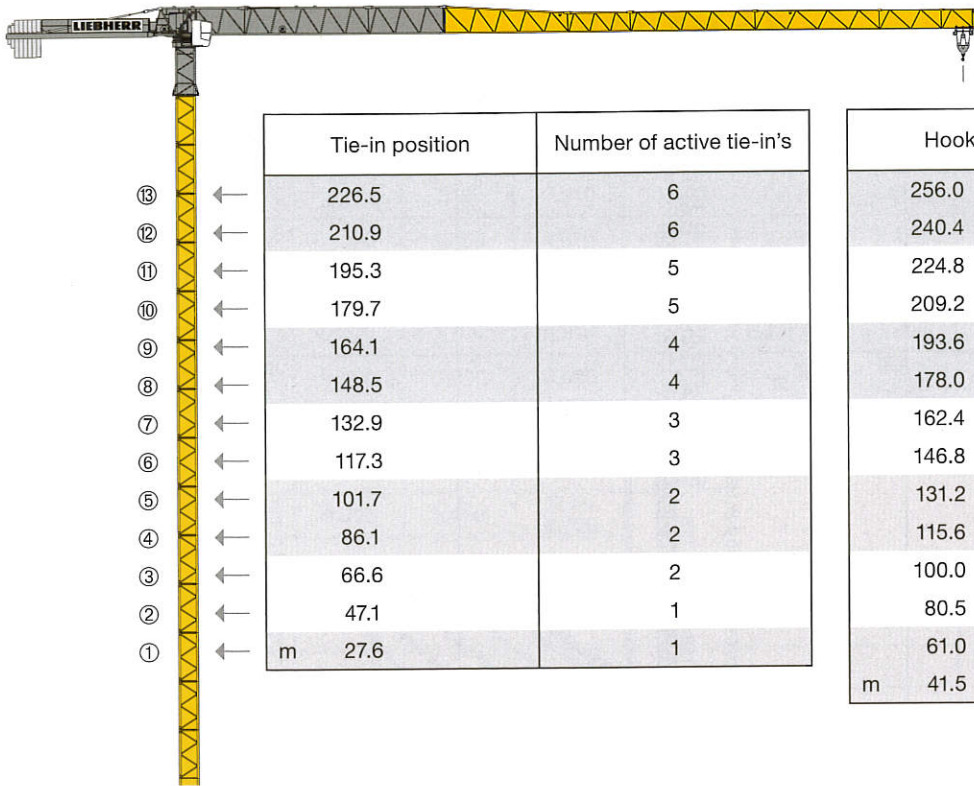
Internal climbing

Dimensions and tower height

| | | 16 EC | | |
|-----|----------------------|------------------|--|--------------------------|
| | | | | Shaft opening |
| pcs | tower height | he (min. – max.) | | Floor opening |
| 13 | 50.7 ⁵⁾ | 8.5 – 15.0 | | |
| 12 | 46.8 ⁵⁾ | 7.5 – 15.0 | | |
| 11 | 42.9 ⁵⁾ | 7.5 – 15.0 | | |
| 10 | 39.0 ⁵⁾ | 7.5 – 13.0 | | |
| 9 | 35.1 ⁵⁾ | 7.5 – 11.5 | | |
| 8 | m 31.2 ⁵⁾ | 7.5 – 9.0 | | |


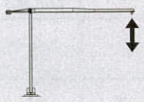







⁵⁾ Tower heights for tower configuration on foundation anchors. For details please refer to the operating manual.

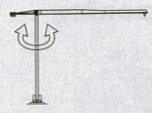

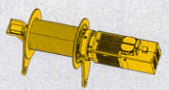
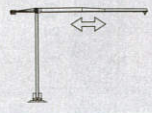
External climbing⁶⁾



⁶⁾ All data's calculated with 16 EC 160. Optimization by using 16 EC 240 possible.

Driving units

|  | ↔ stepless | | ↔ stepless | | ↔ stepless | |
|--|---|--|--|-------|------------|-------|
| | kg | m/min | kg | m/min | kg | m/min |
|  <p>24.0 kW FU WIW 230 MZ 426 7 Layers</p> <p>247.0 m / 123.0 m max. 288.0 m / 144.0 m / 82.0 m⁷⁾</p> |  <p>3,000 0 ↔ 38 1,100 0 ↔ 91</p> |  <p>6,000 0 ↔ 19 2,400 0 ↔ 46</p> |  <p>9,000 0 ↔ 13 3,500 0 ↔ 30</p> | | | |
|  <p>30.0 kW FU WIW 240 MZ 410 10 Layers</p> <p>501.0 m / 250.0 m / 167.0 m⁷⁾</p> |  <p>3,000 0 ↔ 46 1,000 0 ↔ 115</p> |  <p>6,000 0 ↔ 23 2,400 0 ↔ 57</p> |  <p>9,000 0 ↔ 15 3,500 0 ↔ 38</p> | | | |





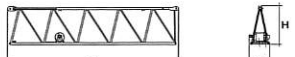


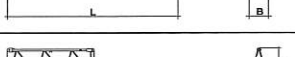

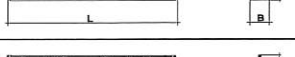
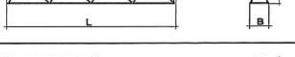
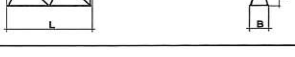





| | | | | |
|--|----------------|---------------|--|---|
|  | 0 ↔ 0.6 U/min | 2 x 5.0 kW FU |  |  |
|  | 0 ↔ 60.0 m/min | 5.5 kW FU | | 24 kW FU 30 kW FU 39.0 44.0 |

⁷⁾ Further hoist load data: see instruction manual.


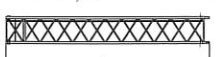



Packing List

Erection weights: see instruction manual.



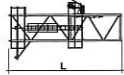

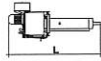

Upper part of crane

| Item | Qty. | | | L (m) | W (m) | H (m) | kg |
|------|------|---|---|-------|-------|-------|---------|
| 1 | 1 | Slewing platform with slewing ring and slewing ring support 16 EC |  | 2.40 | 2.28 | 1.84 | 3,400 |
| 2 | 1 | Cabin with platform |  | 2.54 | 1.54 | 2.29 | 650 |
| 3 | 1 | Counter-jib |  | 11.90 | 1.33 | 0.62 | 2,700 |
| 4 | 1 | Jib heel section |  | 7.85 | 2.12 | 2.45 | ① 3,920 |
| 5 | 1 | Intermediate jib section |  | 10.29 | 1.23 | 2.31 | ② 2,180 |
| 6 | 1 | Intermediate jib section |  | 6.26 | 1.15 | 2.25 | ③ 880 |
| 7 | 1 | Intermediate jib section |  | 10.25 | 1.15 | 2.24 | ④ 1,130 |
| 8 | 1 | Intermediate jib section |  | 5.24 | 1.15 | 1.66 | ⑤ 540 |
| 9 | 1 | Intermediate jib section |  | 10.21 | 1.15 | 1.63 | ⑥ 850 |
| 10 | 1 | Intermediate jib section |  | 10.17 | 1.15 | 1.60 | ⑦ 640 |
| 11 | 1 | Intermediate jib section |  | 5.15 | 1.15 | 1.57 | ⑧ 260 |
| 12 | 1 | Intermediate jib section |  | 2.65 | 1.15 | 1.57 | ⑨ 150 |
| 13 | 1 | Jib head section |  | 1.04 | 1.17 | 1.80 | ⑩ 100 |
| 14 | 1 | Trolley |  | 1.62 | 1.36 | 0.78 | 180 |
| 15 | 1 | Trolley |  | 1.23 | 1.36 | 0.79 | 110 |
| 16 | 1 | Hook |  | 1.06 | 0.26 | 0.94 | 320 |
| 17 | 1 | Hook and cross members |  | 1.49 | 0.29 | 2.01 | 230 |



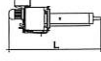



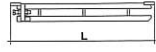



Tower

| | | | | | | | | |
|----|---|--------------------------|---|----------------------------------|-------|------|------|-------|
| 18 | 1 | Climbable tower section |  | | | | | |
| | | | | 16 EC 160 TS-0390bc | 4.19 | 1.73 | 1.68 | 1,550 |
| | | | | 16 HC 175 TS-0250c | 2.50 | 1.80 | 1.80 | 1,090 |
| | | | | 16 HC 175 TS-0500c | 5.00 | 1.80 | 1.80 | 1,830 |
| 19 | 1 | Tower section |  | | | | | |
| | | | | 16 EC 160 TS-1170b | 11.99 | 1.64 | 1.64 | 3,620 |
| | | | | 16 HC 175 TS-1000c | 10.00 | 1.80 | 1.80 | 3,430 |
| | | | | 16 HC 175 TS-1250c | 12.50 | 1.80 | 1.80 | 4,200 |
| 20 | 1 | Transition tower section |  | | | | | |
| | | | | 16 EC 160 – 16 EC 240 TST-0390bc | 4.21 | 1.76 | 1.68 | 2,100 |
| | | | | 16 HC 175 TS-0250c | 2.50 | 1.80 | 1.80 | 1,090 |
| | | | | 16 HC 175 TS-0500c | 5.00 | 1.80 | 1.80 | 1,830 |
| 21 | 1 | Climbable tower section |  | | | | | |
| | | | | 16 EC 240 TS-0390bc | 4.21 | 1.76 | 1.68 | 2,050 |
| | | | | 16 HC 175 TS-0250c | 2.50 | 1.80 | 1.80 | 1,090 |
| | | | | 16 HC 175 TS-0500c | 5.00 | 1.80 | 1.80 | 1,830 |
| 22 | 1 | Tower section |  | | | | | |
| | | | | 16 EC 240 TS-1170b | 12.01 | 1.64 | 1.64 | 5,050 |
| | | | | 16 HC 175 TS-1000c | 10.00 | 1.80 | 1.80 | 3,430 |
| | | | | 16 HC 175 TS-1250c | 12.50 | 1.80 | 1.80 | 4,200 |





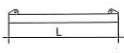



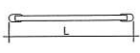

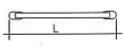



Climbing equipment

| Item | Qty. | | | L (m) | W (m) | H (m) | kg | | |
|------|------|------------------------|---|---|---|--------------|--------------|----------------|-------|
| 23 | 1 | Climbing tower section |  |  | 16 EC 160 ECTS-0390b 4.19 16 HC 175 ECTS-0250 2.75 | 2.11 2.20 | 2.11 2.45 | 1,800 1,450 | |
| 24 | 1 | Guide section |  |  | 16 EC 160 ECGSb | 8.83 | 3.39 | 4.13 | 4,230 |
| 25 | 1 | Hydraulic unit |  |  | 16 ECPb | 2.37 | 1.24 | 0.81 | 670 |

Climbing in the building

| | | | | | | | | | |
|----|---|-----------------------------|---|---|----------------------|------|------|------|-------|
| 26 | 1 | Internal climbing D-section |  |  | 16 EC 240 ICDS-0390b | 4.21 | 1.76 | 1.93 | 2,520 |
| 27 | 1 | Hydraulic unit |  |  | 16 ECPb | 2.37 | 1.24 | 0.81 | 670 |
| 28 | 1 | Climbing cross member |  |  | | 1.65 | 0.24 | 0.76 | 340 |
| 29 | 1 | Tower reinforcement |  |  | | 1.38 | 0.76 | 0.26 | 50 |
| 30 | 1 | Guide frame |  |  | 16 EC 240 ICGFb | 2.20 | 2.31 | 1.41 | 1,030 |

Undercarriage

| | | | | | | | | | |
|----|-----|---------------------------------|---|---|-----------|-------------|-------------|-------------|---------------|
| 31 | 2 | Rail bogie with drive |  |  | 16 HC 175 | 1.38 (1.46) | 0.88 (0.84) | 0.87 (0.87) | 900 (920) |
| 32 | 2 | Rail bogie without drive |  |  | 16 HC 175 | 1.17 (1.15) | 0.60 (0.60) | 0.87 (0.87) | 860 (880) |
| 33 | 1 | Long support arm |  |  | 16 HC 175 | 7.12 (7.12) | 0.78 (0.78) | 0.65 (0.65) | 950 (1,000) |
| 34 | 2 | Short support arm |  |  | 16 HC 175 | 3.45 (3.45) | 0.56 (0.56) | 0.55 (0.55) | 410 (450) |
| 35 | 2+2 | Border support |  |  | 16 HC 175 | 4.02 (4.02) | 0.35 (0.35) | 0.12 (0.12) | 370 (370) |
| 36 | 4 | Support strut |  |  | 16 HC 175 | 3.78 (3.78) | 0.15 (0.15) | 0.32 (0.32) | 200 (300) |
| 37 | 1 | Undercarriage tower section |  |  | 16 HC 175 | 3.50 (3.50) | 2.06 (2.06) | 2.06 (2.06) | 1,500 (1,750) |
| 38 | 1 | Bundle of ladders and platforms | | | 16 HC 175 | 3.50 | 1.20 | 1.00 | 1,000 |
| 39 | 1 | Crate with small parts | | | | 2.00 | 1.00 | 1.00 | 2,000 |

Cruciform base

| | | | | | | | | |
|----|---|----------------|--|--|--|----------------------|----------------------|-------------------------|
| 40 | 1 | Support arm 1 | | | 16 EC 160 CB-0380bm 5.75 20 EC 300 CB-0450bm 6.86 16 HC 175 CB-0460 7.20 | 0.78 0.87 0.78 | 1.19 1.43 1.06 | 2,260 3,270 3,100 |
| 41 | 1 | Support arm 2 | | | 16 EC 160 CB-0380bm 5.75 20 EC 300 CB-0450bm 6.86 16 HC 175 CB-0460 7.20 | 0.71 0.71 0.69 | 1.19 1.43 1.15 | 2,440 3,980 3,500 |
| 42 | 2 | Border support | | | 16 EC 160 CB-0380bm 3.42 20 EC 300 CB-0450bm 4.07 16 HC 175 CB-0460 4.25 | 0.24 0.28 0.65 | 0.56 0.76 0.27 | 175 340 370 |

Subject to technical modifications!
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