

# Liftcrane Boom Capacities

**Boom No. B10:290**  
**33 120 kg Crane Counterweight**  
**10 500 kg Carbody Counterweight**  
**Crawler Machine on a Barge**  
**0 Degree thru 3 Degree Static Machine List**  
**No Travel - 360 Degree Rating**

## MLC80A-1 SERIES 2



**LIFTING CAPACITIES:** Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Upper boom point capacity for liftcrane service with single part whip line from Drum 3 is 9 070 kg. When Drum 1 or Drum 2 is used, capacity with single part whip line is 12 520 kg. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

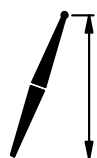
**OPERATING CONDITIONS:** Machine to operate on a firm and uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging **No. 80121888**, Wire Rope Specifications chart **No. 9775-A**, Counterweight Arrangements chart **No. 9769-A**, and Wind Conditions chart **No. 9774-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.



**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation at barge deck to center of vertical hoist line or load block.



**BOOM ANGLE:** Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



**BOOM POINT ELEVATION:** Boom point elevation is vertical distance from barge deck to centerline of boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 6 480 mm crawlers, 900 mm treads, 4 390 mm gantry, 8 part boom hoist reeving, two 32 mm boom pendants, 33 120 kg crane counterweight, and 10 500 kg carbody counterweight.

Consult chart **No. 9786-AM** when Jib No. 117 is attached.

| Upper Boom Point Deduct   |
|---|
| Deduct 260 kg from capacities when upper boom point is attached. Deduct does not apply to 19,0 m boom length. |

| Third Line Deduct   |
|---|
| Deduct 120 kg from capacities when boom top is equipped with optional 3rd sheave wire rope guide. |

| Deduct From Capacities When Jib No. 117 Is Attached   |             |
|---|-------------|
| Jib Length (m)  | Deduct (kg) |
| 9,1   | 2 050       |
| 12,2  | 2 400       |
| 15,2  | 2 800       |
| 18,3  | 3 350       |
| Weight of jib and 325 kg suspended beneath jib point have been included in determination of deduct. |             |

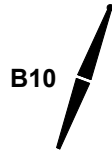
Refer to Table 1 for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath boom point sheaves. For block weights shown with #, load blocks, hooks, weight ball, and slings must remain on barge deck until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Combined weight beneath boom point sheaves must not exceed block weight shown.

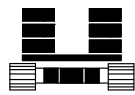
**Table 1**

| Boom Length<br>(m) | Over End or<br>Side of Crawlers |         |
|--------------------|---------------------------------|---------|
|                    | Machine List                    |         |
|                    | 0°                              | 1° - 3° |
|                    | Block Weight (kg)               |         |
| 19,0 - 49,0        | 1 725                           | 1 725   |
| 52,0               | 1 200                           | 325     |
| 55,0 - 61,0        | 325                             | #       |

## Explanation of Symbols



Boom No. B10:290



Crane Counterweight  
+  
Carbody Counterweight



360 Degree Rating



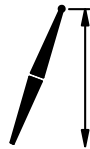
Boom Length



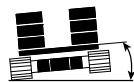
Operating Radius  
(see page 1)



Boom Angle  
(see page 1)



Boom Point Elevation  
(see page 1)

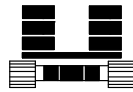
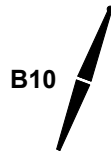


Machine List



Lifting Capacities  
(see page 1)

# MLC80A-1 S-2



33 120 kg  
+  
10 500 kg



| m    | °    | m    | 0°<br>kg | 1°<br>kg | 2°<br>kg | 3°<br>kg | m    |
|------|------|------|----------|----------|----------|----------|------|
| 4,6  | 80,3 | 20,8 | 72 500   |          |          |          | 4,6  |
| 5,0  | 78,9 | 20,7 | 71 800   | 61 800   |          |          | 5,0  |
| 5,5  | 77,4 | 20,6 | 66 800   | 60 400   | 50 500   | 43 300   | 5,5  |
| 6,0  | 75,8 | 20,5 | 61 500   | 56 700   | 49 500   | 42 600   | 6,0  |
| 6,5  | 74,3 | 20,3 | 55 200   | 50 600   | 46 000   | 41 300   | 6,5  |
| 7,0  | 72,7 | 20,2 | 49 400   | 45 400   | 41 900   | 38 700   | 7,0  |
| 7,5  | 71,1 | 20,0 | 44 400   | 41 100   | 38 200   | 35 700   | 7,5  |
| 8,0  | 69,5 | 19,8 | 40 300   | 37 500   | 35 100   | 32 900   | 8,0  |
| 9,0  | 66,2 | 19,4 | 34 000   | 32 000   | 30 200   | 28 500   | 9,0  |
| 10,0 | 62,8 | 18,9 | 29 300   | 27 800   | 26 400   | 25 100   | 10,0 |
| 11,0 | 59,4 | 18,3 | 25 700   | 24 500   | 23 300   | 22 300   | 11,0 |
| 12,0 | 55,8 | 17,7 | 22 800   | 21 900   | 20 900   | 20 100   | 12,0 |
| 13,0 | 52,0 | 16,9 | 20 500   | 19 700   | 18 900   | 18 200   | 13,0 |
| 14,0 | 48,0 | 16,1 | 18 500   | 17 900   | 17 300   | 16 700   | 14,0 |
| 15,0 | 43,8 | 15,1 | 16 900   | 16 400   | 15 800   | 15 300   | 15,0 |
| 16,0 | 39,1 | 13,9 | 15 500   | 15 100   | 14 700   | 14 200   | 16,0 |
| 17,0 | 34,0 | 12,5 | 14 300   | 13 900   | 13 600   | 13 200   | 17,0 |
| 18,0 | 28,0 | 10,8 | 13 200   | 12 900   | 12 600   | 12 300   | 18,0 |

# MLC80A-1 S-2

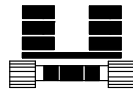
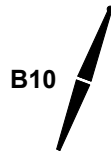


33 120 kg
   
 +
   
 10 500 kg



| <br>22,0 m   |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <br>0°<br>kg | <br>1°<br>kg | <br>2°<br>kg | <br>3°<br>kg |              |              |              |              |
| <br>0°<br>kg | <br>1°<br>kg | <br>2°<br>kg | <br>3°<br>kg | <br>0°<br>kg | <br>1°<br>kg | <br>2°<br>kg | <br>3°<br>kg |
| 4,9          | 80,8         | 23,8         | 72 100       |              |              |              | 4,9          |
| 5,0          | 80,5         | 23,8         | 71 600       |              |              |              | 5,0          |
| 5,5          | 79,1         | 23,7         | 66 900       | 54 900       |              |              | 5,5          |
| 6,0          | 77,8         | 23,6         | 61 500       | 53 800       | 44 600       |              | 6,0          |
| 6,5          | 76,5         | 23,5         | 55 400       | 49 700       | 43 800       | 37 600       | 6,5          |
| 7,0          | 75,1         | 23,3         | 49 500       | 45 000       | 41 200       | 36 600       | 7,0          |
| 7,5          | 73,8         | 23,2         | 44 500       | 40 800       | 37 600       | 34 900       | 7,5          |
| 8,0          | 72,4         | 23,0         | 40 400       | 37 300       | 34 600       | 32 200       | 8,0          |
| 9,0          | 69,6         | 22,7         | 34 100       | 31 900       | 29 800       | 28 000       | 9,0          |
| 10,0         | 66,8         | 22,3         | 29 500       | 27 700       | 26 100       | 24 700       | 10,0         |
| 11,0         | 64,0         | 21,8         | 25 800       | 24 400       | 23 200       | 22 000       | 11,0         |
| 12,0         | 61,0         | 21,3         | 23 000       | 21 800       | 20 800       | 19 900       | 12,0         |
| 13,0         | 58,0         | 20,6         | 20 600       | 19 700       | 18 800       | 18 000       | 13,0         |
| 14,0         | 54,8         | 20,0         | 18 700       | 17 900       | 17 200       | 16 500       | 14,0         |
| 15,0         | 51,5         | 19,2         | 17 000       | 16 400       | 15 800       | 15 200       | 15,0         |
| 16,0         | 48,1         | 18,3         | 15 700       | 15 100       | 14 600       | 14 100       | 16,0         |
| 17,0         | 44,4         | 17,4         | 14 400       | 14 000       | 13 500       | 13 100       | 17,0         |
| 18,0         | 40,5         | 16,2         | 13 400       | 13 000       | 12 600       | 12 200       | 18,0         |
| 19,0         | 36,3         | 15,0         | 12 500       | 12 100       | 11 800       | 11 500       | 19,0         |
| 20,0         | 31,6         | 13,4         | 11 600       | 11 300       | 11 000       | 10 800       | 20,0         |
| 21,0         | 26,0         | 11,6         | 10 900       | 10 600       | 10 400       | 10 200       | 21,0         |

# MLC80A-1 S-2



33 120 kg  
+  
10 500 kg



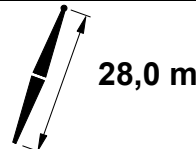
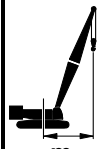


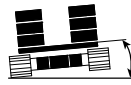
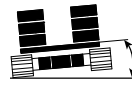
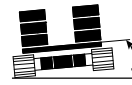
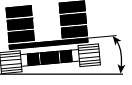
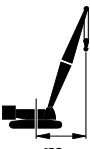
| <br>m | <br>° | <br>m | <br>kg | <br>kg | <br>kg | <br>kg | <br>m |
|-------|-------|-------|--------|--------|--------|--------|-------|
| 5,5   | 80,5  | 26,7  | 64 700 |        |        |        | 5,5   |
| 6,0   | 79,3  | 26,6  | 61 400 | 49 200 |        |        | 6,0   |
| 6,5   | 78,1  | 26,5  | 55 300 | 47 800 |        |        | 6,5   |
| 7,0   | 76,9  | 26,4  | 49 500 | 44 500 | 38 800 | 33 300 | 7,0   |
| 7,5   | 75,8  | 26,3  | 44 500 | 40 400 | 36 900 | 32 600 | 7,5   |
| 8,0   | 74,6  | 26,1  | 40 400 | 36 900 | 33 900 | 31 300 | 8,0   |
| 9,0   | 72,2  | 25,8  | 34 100 | 31 500 | 29 300 | 27 300 | 9,0   |
| 10,0  | 69,7  | 25,5  | 29 400 | 27 400 | 25 700 | 24 100 | 10,0  |
| 11,0  | 67,3  | 25,1  | 25 700 | 24 200 | 22 800 | 21 500 | 11,0  |
| 12,0  | 64,7  | 24,6  | 22 900 | 21 600 | 20 500 | 19 400 | 12,0  |
| 13,0  | 62,2  | 24,1  | 20 500 | 19 500 | 18 600 | 17 700 | 13,0  |
| 14,0  | 59,5  | 23,5  | 18 600 | 17 700 | 16 900 | 16 200 | 14,0  |
| 15,0  | 56,8  | 22,9  | 17 000 | 16 200 | 15 500 | 14 900 | 15,0  |
| 16,0  | 54,0  | 22,2  | 15 600 | 15 000 | 14 400 | 13 800 | 16,0  |
| 17,0  | 51,1  | 21,4  | 14 400 | 13 800 | 13 300 | 12 800 | 17,0  |
| 18,0  | 48,1  | 20,6  | 13 300 | 12 800 | 12 400 | 12 000 | 18,0  |
| 19,0  | 44,9  | 19,6  | 12 400 | 12 000 | 11 600 | 11 200 | 19,0  |
| 20,0  | 41,5  | 18,5  | 11 500 | 11 200 | 10 800 | 10 500 | 20,0  |
| 21,0  | 37,9  | 17,3  | 10 800 | 10 500 | 10 200 | 9 900  | 21,0  |
| 22,0  | 33,9  | 15,9  | 10 100 | 9 900  | 9 600  | 9 300  | 22,0  |
| 23,0  | 29,5  | 14,2  | 9 500  | 9 300  | 9 100  | 8 800  | 23,0  |
| 24,0  | 24,3  | 12,2  | 9 000  | 8 800  | 8 600  | 8 400  | 24,0  |

# MLC80A-1 S-2

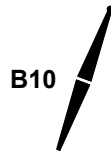



  
**33 120 kg**  
**+**  
**10 500 kg**



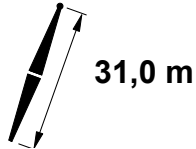
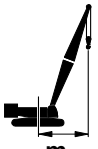


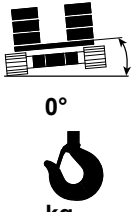
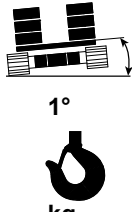
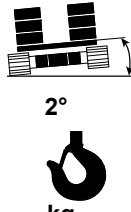
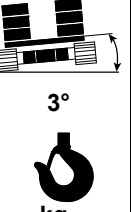
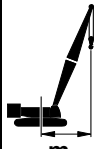
|       |  |  |   |   |  |   |  |
|--|--|--|---|---|--|---|--|
| <br>m | <br>° | <br>m | <br>0°<br>kg | <br>1°<br>kg | <br>2°<br>kg | <br>3°<br>kg | <br>m |
| 5,8  | 80,9   | 29,7   | 58 600  |   |  |   | 5,8  |
| 6,0  | 80,5   | 29,7   | 57 900  |   |  |   | 6,0  |
| 6,5  | 79,4   | 29,6   | 54 300  |   |  |   | 6,5  |
| 7,0  | 78,4   | 29,5   | 49 500  | 42 600  | 35 600   |   | 7,0  |
| 7,5  | 77,3   | 29,4   | 44 500  | 40 000  | 34 800   | 29 800  | 7,5  |
| 8,0  | 76,3   | 29,3   | 40 300  | 36 600  | 33 300   | 29 300  | 8,0  |
| 9,0  | 74,2   | 29,0   | 34 100  | 31 300  | 28 800   | 26 700  | 9,0  |
| 10,0   | 72,0   | 28,7   | 29 400  | 27 200  | 25 300   | 23 600  | 10,0   |
| 11,0   | 69,8   | 28,3   | 25 700  | 24 000  | 22 500   | 21 100  | 11,0   |
| 12,0   | 67,6   | 27,9   | 22 900  | 21 500  | 20 200   | 19 100  | 12,0   |
| 13,0   | 65,4   | 27,5   | 20 500  | 19 400  | 18 300   | 17 300  | 13,0   |
| 14,0   | 63,1   | 27,0   | 18 600  | 17 600  | 16 700   | 15 900  | 14,0   |
| 15,0   | 60,8   | 26,5   | 16 900  | 16 100  | 15 400   | 14 600  | 15,0   |
| 16,0   | 58,4   | 25,9   | 15 600  | 14 900  | 14 200   | 13 600  | 16,0   |
| 17,0   | 56,0   | 25,2   | 14 300  | 13 700  | 13 200   | 12 600  | 17,0   |
| 18,0   | 53,4   | 24,5   | 13 300  | 12 800  | 12 200   | 11 800  | 18,0   |
| 19,0   | 50,8   | 23,7   | 12 400  | 11 900  | 11 400   | 11 000  | 19,0   |
| 20,0   | 48,1   | 22,8   | 11 500  | 11 100  | 10 700   | 10 300  | 20,0   |
| 21,0   | 45,3   | 21,9   | 10 800  | 10 400  | 10 100   | 9 700   | 21,0   |
| 22,0   | 42,3   | 20,8   | 10 100  | 9 800   | 9 500  | 9 200   | 22,0   |
| 23,0   | 39,1   | 19,6   | 9 500   | 9 200   | 8 900  | 8 700   | 23,0   |
| 24,0   | 35,7   | 18,3   | 9 000   | 8 700   | 8 500  | 8 200   | 24,0   |
| 25,0   | 32,0   | 16,8   | 8 500   | 8 200   | 8 000  | 7 800   | 25,0   |
| 26,0   | 27,9   | 15,0   | 8 000   | 7 800   | 7 600  | 7 400   | 26,0   |
| 27,0   | 23,0   | 12,8   | 7 600   | 7 400   | 7 200  | 7 100   | 27,0   |

# MLC80A-1 S-2




  
 33 120 kg  
 +  
 10 500 kg



| <br>31,0 m |  |  |   |   |  |   |  |
|---|--|--|---|---|--|---|--|
| <br>m      | <br>° | <br>m | <br>0°<br>kg | <br>1°<br>kg | <br>2°<br>kg | <br>3°<br>kg | <br>m |
| 6,7   | 80,1   | 32,6   | 51 900  |   |  |   | 6,7  |
| 7,0   | 79,5   | 32,6   | 49 100  |   |  |   | 7,0  |
| 7,5   | 78,6   | 32,5   | 44 400  | 38 800  | 32 200   |   | 7,5  |
| 8,0   | 77,6   | 32,3   | 40 300  | 36 200  | 31 600   | 26 800  | 8,0  |
| 9,0   | 75,7   | 32,1   | 34 000  | 30 900  | 28 300   | 25 800  | 9,0  |
| 10,0  | 73,8   | 31,8   | 29 300  | 26 900  | 24 900   | 23 100  | 10,0   |
| 11,0  | 71,9   | 31,5   | 25 600  | 23 800  | 22 100   | 20 600  | 11,0   |
| 12,0  | 69,9   | 31,1   | 22 800  | 21 300  | 19 900   | 18 700  | 12,0   |
| 13,0  | 67,9   | 30,8   | 20 400  | 19 200  | 18 000   | 17 000  | 13,0   |
| 14,0  | 65,9   | 30,3   | 18 500  | 17 400  | 16 500   | 15 600  | 14,0   |
| 15,0  | 63,8   | 29,8   | 16 900  | 16 000  | 15 100   | 14 300  | 15,0   |
| 16,0  | 61,8   | 29,3   | 15 500  | 14 700  | 14 000   | 13 300  | 16,0   |
| 17,0  | 59,6   | 28,7   | 14 300  | 13 600  | 12 900   | 12 300  | 17,0   |
| 18,0  | 57,5   | 28,1   | 13 200  | 12 600  | 12 000   | 11 500  | 18,0   |
| 19,0  | 55,2   | 27,4   | 12 300  | 11 700  | 11 300   | 10 800  | 19,0   |
| 20,0  | 52,9   | 26,7   | 11 400  | 11 000  | 10 500   | 10 100  | 20,0   |
| 21,0  | 50,6   | 25,9   | 10 700  | 10 300  | 9 900  | 9 500   | 21,0   |
| 22,0  | 48,1   | 25,0   | 10 000  | 9 700   | 9 300  | 9 000   | 22,0   |
| 23,0  | 45,6   | 24,1   | 9 400   | 9 100   | 8 800  | 8 500   | 23,0   |
| 24,0  | 42,9   | 23,0   | 8 900   | 8 600   | 8 300  | 8 000   | 24,0   |
| 25,0  | 40,1   | 21,9   | 8 400   | 8 100   | 7 900  | 7 600   | 25,0   |
| 26,0  | 37,1   | 20,6   | 7 900   | 7 700   | 7 400  | 7 200   | 26,0   |
| 27,0  | 33,8   | 19,2   | 7 500   | 7 300   | 7 100  | 6 900   | 27,0   |
| 28,0  | 30,3   | 17,6   | 7 100   | 6 900   | 6 700  | 6 500   | 28,0   |

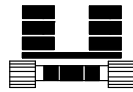
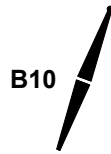


# MLC80A-1 S-2



| <br>m | <br>° | <br>m | <br>kg | <br>kg | <br>kg | <br>kg | <br>m |
|-------|-------|-------|--------|--------|--------|--------|-------|
| 6,7   | 80,9  | 35,7  | 48 000 |        |        |        | 6,7   |
| 7,0   | 80,4  | 35,6  | 47 000 |        |        |        | 7,0   |
| 7,5   | 79,6  | 35,5  | 44 400 | 36 300 |        |        | 7,5   |
| 8,0   | 78,7  | 35,4  | 40 200 | 35 500 | 29 100 |        | 8,0   |
| 9,0   | 77,0  | 35,2  | 33 900 | 30 600 | 27 600 | 23 900 | 9,0   |
| 10,0  | 75,3  | 34,9  | 29 200 | 26 700 | 24 500 | 22 600 | 10,0  |
| 11,0  | 73,5  | 34,6  | 25 600 | 23 600 | 21 800 | 20 200 | 11,0  |
| 12,0  | 71,7  | 34,3  | 22 700 | 21 100 | 19 600 | 18 300 | 12,0  |
| 13,0  | 69,9  | 34,0  | 20 400 | 19 000 | 17 800 | 16 700 | 13,0  |
| 14,0  | 68,1  | 33,6  | 18 400 | 17 300 | 16 200 | 15 300 | 14,0  |
| 15,0  | 66,3  | 33,1  | 16 800 | 15 800 | 14 900 | 14 100 | 15,0  |
| 16,0  | 64,4  | 32,7  | 15 400 | 14 600 | 13 800 | 13 000 | 16,0  |
| 17,0  | 62,5  | 32,2  | 14 200 | 13 400 | 12 700 | 12 100 | 17,0  |
| 18,0  | 60,6  | 31,6  | 13 100 | 12 500 | 11 900 | 11 300 | 18,0  |
| 19,0  | 58,7  | 31,0  | 12 200 | 11 600 | 11 100 | 10 600 | 19,0  |
| 20,0  | 56,7  | 30,4  | 11 300 | 10 800 | 10 400 | 9 900  | 20,0  |
| 21,0  | 54,6  | 29,7  | 10 600 | 10 200 | 9 700  | 9 300  | 21,0  |
| 22,0  | 52,5  | 28,9  | 9 900  | 9 500  | 9 200  | 8 800  | 22,0  |
| 23,0  | 50,3  | 28,1  | 9 300  | 9 000  | 8 600  | 8 300  | 23,0  |
| 24,0  | 48,1  | 27,3  | 8 800  | 8 500  | 8 100  | 7 800  | 24,0  |
| 25,0  | 45,8  | 26,3  | 8 300  | 8 000  | 7 700  | 7 400  | 25,0  |
| 26,0  | 43,3  | 25,3  | 7 800  | 7 600  | 7 300  | 7 000  | 26,0  |
| 27,0  | 40,8  | 24,2  | 7 400  | 7 200  | 6 900  | 6 700  | 27,0  |
| 28,0  | 38,1  | 22,9  | 7 000  | 6 800  | 6 600  | 6 400  | 28,0  |
| 29,0  | 35,3  | 21,6  | 6 700  | 6 500  | 6 300  | 6 100  | 29,0  |
| 30,0  | 32,2  | 20,0  | 6 300  | 6 100  | 6 000  | 5 800  | 30,0  |
| 31,0  | 28,9  | 18,3  | 6 000  | 5 900  | 5 700  | 5 500  | 31,0  |
| 32,0  | 25,1  | 16,3  | 5 700  | 5 600  | 5 400  | 5 300  | 32,0  |

# MLC80A-1 S-2



33 120 kg  
+  
10 500 kg



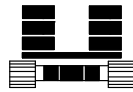
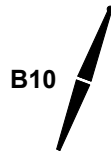
| m    | °    | m    | kg     | kg     | kg     | kg     | m    |
|------|------|------|--------|--------|--------|--------|------|
| 7,3  | 80,7 | 38,6 | 43 600 |        |        |        | 7,3  |
| 7,5  | 80,4 | 38,6 | 42 700 |        |        |        | 7,5  |
| 8,0  | 79,7 | 38,5 | 40 200 | 33 100 |        |        | 8,0  |
| 9,0  | 78,1 | 38,3 | 33 900 | 30 300 | 26 200 |        | 9,0  |
| 10,0 | 76,5 | 38,0 | 29 200 | 26 400 | 24 100 | 21 400 | 10,0 |
| 11,0 | 74,9 | 37,8 | 25 500 | 23 300 | 21 400 | 19 800 | 11,0 |
| 12,0 | 73,3 | 37,5 | 22 600 | 20 900 | 19 300 | 17 900 | 12,0 |
| 13,0 | 71,6 | 37,2 | 20 300 | 18 800 | 17 500 | 16 300 | 13,0 |
| 14,0 | 70,0 | 36,8 | 18 300 | 17 100 | 16 000 | 14 900 | 14,0 |
| 15,0 | 68,3 | 36,4 | 16 700 | 15 600 | 14 700 | 13 800 | 15,0 |
| 16,0 | 66,7 | 36,0 | 15 300 | 14 400 | 13 600 | 12 800 | 16,0 |
| 17,0 | 65,0 | 35,5 | 14 100 | 13 300 | 12 500 | 11 800 | 17,0 |
| 18,0 | 63,2 | 35,0 | 13 000 | 12 300 | 11 700 | 11 000 | 18,0 |
| 19,0 | 61,5 | 34,5 | 12 100 | 11 500 | 10 900 | 10 300 | 19,0 |
| 20,0 | 59,7 | 33,9 | 11 200 | 10 700 | 10 200 | 9 700  | 20,0 |
| 21,0 | 57,9 | 33,3 | 10 500 | 10 000 | 9 500  | 9 100  | 21,0 |
| 22,0 | 56,0 | 32,7 | 9 800  | 9 400  | 9 000  | 8 600  | 22,0 |
| 23,0 | 54,1 | 32,0 | 9 200  | 8 800  | 8 400  | 8 100  | 23,0 |
| 24,0 | 52,2 | 31,2 | 8 700  | 8 300  | 8 000  | 7 600  | 24,0 |
| 25,0 | 50,2 | 30,4 | 8 200  | 7 900  | 7 500  | 7 200  | 25,0 |
| 26,0 | 48,1 | 29,5 | 7 700  | 7 400  | 7 100  | 6 900  | 26,0 |
| 27,0 | 46,0 | 28,6 | 7 300  | 7 000  | 6 800  | 6 500  | 27,0 |
| 28,0 | 43,8 | 27,6 | 6 900  | 6 700  | 6 400  | 6 200  | 28,0 |
| 29,0 | 41,5 | 26,5 | 6 600  | 6 300  | 6 100  | 5 900  | 29,0 |
| 30,0 | 39,1 | 25,3 | 6 200  | 6 000  | 5 800  | 5 600  | 30,0 |
| 31,0 | 36,5 | 24,0 | 5 900  | 5 700  | 5 500  | 5 400  | 31,0 |
| 32,0 | 33,8 | 22,5 | 5 600  | 5 400  | 5 300  | 5 100  | 32,0 |
| 33,0 | 30,9 | 20,9 | 5 300  | 5 200  | 5 000  | 4 900  | 33,0 |
| 34,0 | 27,7 | 19,1 | 5 100  | 4 900  | 4 800  | 4 700  | 34,0 |
| 35,0 | 24,1 | 17,0 | 4 800  | 4 700  | 4 600  | 4 500  | 35,0 |

# MLC80A-1 S-2



| 40,0 m |      |      |          |          |          |          |      |
|--------|------|------|----------|----------|----------|----------|------|
| m      | °    | m    | 0°<br>kg | 1°<br>kg | 2°<br>kg | 3°<br>kg | m    |
| 7,9    | 80,6 | 41,5 | 39 600   |          |          |          | 7,9  |
| 8,0    | 80,4 | 41,5 | 39 200   |          |          |          | 8,0  |
| 9,0    | 79,0 | 41,3 | 33 800   | 29 600   |          |          | 9,0  |
| 10,0   | 77,5 | 41,1 | 29 100   | 26 200   | 23 400   | 19 900   | 10,0 |
| 11,0   | 76,0 | 40,9 | 25 400   | 23 100   | 21 100   | 19 400   | 11,0 |
| 12,0   | 74,6 | 40,6 | 22 600   | 20 700   | 19 000   | 17 500   | 12,0 |
| 13,0   | 73,1 | 40,3 | 20 200   | 18 600   | 17 200   | 16 000   | 13,0 |
| 14,0   | 71,6 | 40,0 | 18 300   | 16 900   | 15 700   | 14 700   | 14,0 |
| 15,0   | 70,0 | 39,6 | 16 600   | 15 500   | 14 400   | 13 500   | 15,0 |
| 16,0   | 68,5 | 39,2 | 15 300   | 14 300   | 13 400   | 12 500   | 16,0 |
| 17,0   | 66,9 | 38,8 | 14 000   | 13 200   | 12 400   | 11 600   | 17,0 |
| 18,0   | 65,4 | 38,4 | 13 000   | 12 200   | 11 500   | 10 800   | 18,0 |
| 19,0   | 63,8 | 37,9 | 12 000   | 11 400   | 10 700   | 10 100   | 19,0 |
| 20,0   | 62,2 | 37,4 | 11 200   | 10 600   | 10 000   | 9 500    | 20,0 |
| 21,0   | 60,5 | 36,8 | 10 400   | 9 900    | 9 400    | 8 900    | 21,0 |
| 22,0   | 58,9 | 36,2 | 9 800    | 9 300    | 8 800    | 8 400    | 22,0 |
| 23,0   | 57,2 | 35,6 | 9 200    | 8 700    | 8 300    | 7 900    | 23,0 |
| 24,0   | 55,4 | 34,9 | 8 600    | 8 200    | 7 900    | 7 500    | 24,0 |
| 25,0   | 53,7 | 34,2 | 8 100    | 7 800    | 7 400    | 7 100    | 25,0 |
| 26,0   | 51,9 | 33,4 | 7 700    | 7 300    | 7 000    | 6 700    | 26,0 |
| 27,0   | 50,0 | 32,6 | 7 200    | 6 900    | 6 700    | 6 400    | 27,0 |
| 28,0   | 48,1 | 31,7 | 6 900    | 6 600    | 6 300    | 6 100    | 28,0 |
| 29,0   | 46,1 | 30,8 | 6 500    | 6 200    | 6 000    | 5 800    | 29,0 |
| 30,0   | 44,1 | 29,8 | 6 200    | 5 900    | 5 700    | 5 500    | 30,0 |
| 31,0   | 42,0 | 28,7 | 5 900    | 5 600    | 5 400    | 5 200    | 31,0 |
| 32,0   | 39,8 | 27,5 | 5 600    | 5 400    | 5 200    | 5 000    | 32,0 |
| 33,0   | 37,5 | 26,3 | 5 300    | 5 100    | 4 900    | 4 800    | 33,0 |
| 34,0   | 35,0 | 24,9 | 5 000    | 4 900    | 4 700    | 4 600    | 34,0 |
| 35,0   | 32,4 | 23,4 | 4 800    | 4 600    | 4 500    | 4 300    | 35,0 |
| 36,0   | 29,6 | 21,7 | 4 600    | 4 400    | 4 300    | 4 200    | 36,0 |
| 37,0   | 26,6 | 19,8 | 4 400    | 4 200    | 4 100    | 4 000    | 37,0 |
| 38,0   | 23,1 | 17,6 | 4 200    | 4 000    | 3 900    | 3 800    | 38,0 |

# MLC80A-1 S-2



33 120 kg  
+  
10 500 kg



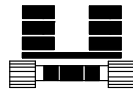
| m    | °    | m    | kg     | kg     | kg     | kg     | kg | m    |
|------|------|------|--------|--------|--------|--------|----|------|
| 8,5  | 80,4 | 44,5 | 35 300 |        |        |        |    | 8,5  |
| 9,0  | 79,8 | 44,4 | 33 500 |        |        |        |    | 9,0  |
| 10,0 | 78,4 | 44,2 | 29 000 | 25 900 | 21 800 |        |    | 10,0 |
| 11,0 | 77,0 | 44,0 | 25 300 | 22 900 | 20 800 | 17 900 |    | 11,0 |
| 12,0 | 75,7 | 43,7 | 22 500 | 20 500 | 18 700 | 17 100 |    | 12,0 |
| 13,0 | 74,3 | 43,5 | 20 100 | 18 400 | 17 000 | 15 700 |    | 13,0 |
| 14,0 | 72,9 | 43,2 | 18 200 | 16 700 | 15 500 | 14 400 |    | 14,0 |
| 15,0 | 71,5 | 42,8 | 16 500 | 15 300 | 14 200 | 13 200 |    | 15,0 |
| 16,0 | 70,1 | 42,5 | 15 200 | 14 100 | 13 100 | 12 300 |    | 16,0 |
| 17,0 | 68,7 | 42,1 | 13 900 | 13 000 | 12 200 | 11 400 |    | 17,0 |
| 18,0 | 67,2 | 41,7 | 12 900 | 12 000 | 11 300 | 10 600 |    | 18,0 |
| 19,0 | 65,8 | 41,2 | 11 900 | 11 200 | 10 500 | 9 900  |    | 19,0 |
| 20,0 | 64,3 | 40,8 | 11 100 | 10 400 | 9 800  | 9 300  |    | 20,0 |
| 21,0 | 62,8 | 40,3 | 10 300 | 9 800  | 9 200  | 8 700  |    | 21,0 |
| 22,0 | 61,3 | 39,7 | 9 700  | 9 200  | 8 700  | 8 200  |    | 22,0 |
| 23,0 | 59,7 | 39,1 | 9 100  | 8 600  | 8 200  | 7 700  |    | 23,0 |
| 24,0 | 58,2 | 38,5 | 8 500  | 8 100  | 7 700  | 7 300  |    | 24,0 |
| 25,0 | 56,6 | 37,9 | 8 000  | 7 600  | 7 300  | 6 900  |    | 25,0 |
| 26,0 | 55,0 | 37,2 | 7 600  | 7 200  | 6 900  | 6 500  |    | 26,0 |
| 27,0 | 53,3 | 36,5 | 7 100  | 6 800  | 6 500  | 6 200  |    | 27,0 |
| 28,0 | 51,6 | 35,7 | 6 800  | 6 500  | 6 200  | 5 900  |    | 28,0 |
| 29,0 | 49,9 | 34,9 | 6 400  | 6 100  | 5 800  | 5 600  |    | 29,0 |
| 30,0 | 48,1 | 34,0 | 6 100  | 5 800  | 5 600  | 5 300  |    | 30,0 |
| 31,0 | 46,3 | 33,1 | 5 700  | 5 500  | 5 300  | 5 100  |    | 31,0 |
| 32,0 | 44,4 | 32,1 | 5 500  | 5 200  | 5 000  | 4 800  |    | 32,0 |
| 33,0 | 42,5 | 31,0 | 5 200  | 5 000  | 4 800  | 4 600  |    | 33,0 |
| 34,0 | 40,5 | 29,8 | 4 900  | 4 700  | 4 600  | 4 400  |    | 34,0 |
| 35,0 | 38,3 | 28,6 | 4 700  | 4 500  | 4 300  | 4 200  |    | 35,0 |
| 36,0 | 36,1 | 27,3 | 4 500  | 4 300  | 4 200  | 4 000  |    | 36,0 |
| 37,0 | 33,8 | 25,8 | 4 300  | 4 100  | 4 000  | 3 800  |    | 37,0 |
| 38,0 | 31,3 | 24,3 | 4 000  | 3 900  | 3 800  | 3 700  |    | 38,0 |
| 39,0 | 28,6 | 22,5 | 3 900  | 3 700  | 3 600  | 3 500  |    | 39,0 |
| 40,0 | 25,6 | 20,5 | 3 700  | 3 600  | 3 500  | 3 300  |    | 40,0 |

# MLC80A-1 S-2



| <br>m | <br>° | <br>m | <br>0°<br>kg | <br>1°<br>kg | <br>2°<br>kg | <br>3°<br>kg | <br>m |  |
|-------|-------|-------|--------------|--------------|--------------|--------------|-------|--|
| 9,1   | 80,3  | 47,4  | 32 000       |              |              |              | 9,1   |  |
| 10,0  | 79,2  | 47,2  | 28 900       | 24 900       |              |              | 10,0  |  |
| 11,0  | 77,9  | 47,0  | 25 300       | 22 600       | 19 800       | 15 800       | 11,0  |  |
| 12,0  | 76,6  | 46,8  | 22 400       | 20 200       | 18 400       | 15 800       | 12,0  |  |
| 13,0  | 75,3  | 46,6  | 20 000       | 18 300       | 16 700       | 15 300       | 13,0  |  |
| 14,0  | 74,0  | 46,3  | 18 100       | 16 600       | 15 200       | 14 100       | 14,0  |  |
| 15,0  | 72,7  | 46,0  | 16 400       | 15 100       | 14 000       | 13 000       | 15,0  |  |
| 16,0  | 71,4  | 45,6  | 15 100       | 13 900       | 12 900       | 12 000       | 16,0  |  |
| 17,0  | 70,1  | 45,3  | 13 800       | 12 800       | 12 000       | 11 200       | 17,0  |  |
| 18,0  | 68,8  | 44,9  | 12 800       | 11 900       | 11 100       | 10 400       | 18,0  |  |
| 19,0  | 67,4  | 44,5  | 11 800       | 11 100       | 10 400       | 9 700        | 19,0  |  |
| 20,0  | 66,1  | 44,1  | 11 000       | 10 300       | 9 700        | 9 100        | 20,0  |  |
| 21,0  | 64,7  | 43,6  | 10 300       | 9 600        | 9 100        | 8 500        | 21,0  |  |
| 22,0  | 63,3  | 43,1  | 9 600        | 9 000        | 8 500        | 8 000        | 22,0  |  |
| 23,0  | 61,9  | 42,6  | 9 000        | 8 500        | 8 000        | 7 600        | 23,0  |  |
| 24,0  | 60,5  | 42,0  | 8 400        | 8 000        | 7 500        | 7 100        | 24,0  |  |
| 25,0  | 59,0  | 41,4  | 7 900        | 7 500        | 7 100        | 6 700        | 25,0  |  |
| 26,0  | 57,6  | 40,8  | 7 500        | 7 100        | 6 700        | 6 400        | 26,0  |  |
| 27,0  | 56,1  | 40,1  | 7 000        | 6 700        | 6 400        | 6 000        | 27,0  |  |
| 28,0  | 54,5  | 39,4  | 6 700        | 6 300        | 6 000        | 5 700        | 28,0  |  |
| 29,0  | 53,0  | 38,7  | 6 300        | 6 000        | 5 700        | 5 400        | 29,0  |  |
| 30,0  | 51,4  | 37,9  | 6 000        | 5 700        | 5 400        | 5 200        | 30,0  |  |
| 31,0  | 49,8  | 37,1  | 5 700        | 5 400        | 5 200        | 4 900        | 31,0  |  |
| 32,0  | 48,1  | 36,2  | 5 400        | 5 100        | 4 900        | 4 700        | 32,0  |  |
| 33,0  | 46,4  | 35,3  | 5 100        | 4 900        | 4 700        | 4 500        | 33,0  |  |
| 34,0  | 44,7  | 34,3  | 4 800        | 4 600        | 4 400        | 4 200        | 34,0  |  |
| 35,0  | 42,9  | 33,2  | 4 600        | 4 400        | 4 200        | 4 000        | 35,0  |  |
| 36,0  | 41,0  | 32,1  | 4 400        | 4 200        | 4 000        | 3 900        | 36,0  |  |
| 37,0  | 39,0  | 30,9  | 4 200        | 4 000        | 3 800        | 3 700        | 37,0  |  |
| 38,0  | 37,0  | 29,6  | 4 000        | 3 800        | 3 700        | 3 500        | 38,0  |  |
| 39,0  | 34,9  | 28,2  | 3 800        | 3 600        | 3 500        | 3 400        | 39,0  |  |
| 40,0  | 32,6  | 26,7  | 3 600        | 3 500        | 3 300        | 3 200        | 40,0  |  |
| 42,0  | 27,6  | 23,2  | 3 300        | 3 100        | 3 000        | 2 900        | 42,0  |  |
| 44,0  | 21,5  | 18,8  | 2 900        | 2 900        | 2 800        | 2 700        | 44,0  |  |

# MLC80A-1 S-2



33 120 kg  
+  
10 500 kg



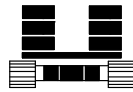
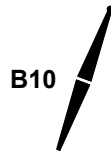
| m    | °    | m    | kg     | kg     | kg     | kg     | m |      |
|------|------|------|--------|--------|--------|--------|---|------|
| 9,1  | 80,9 | 50,5 | 28 500 |        |        |        |   | 9,1  |
| 10,0 | 79,8 | 50,3 | 27 800 |        |        |        |   | 10,0 |
| 11,0 | 78,7 | 50,1 | 25 200 | 22 400 | 17 300 |        |   | 11,0 |
| 12,0 | 77,5 | 49,9 | 22 300 | 20 000 | 17 200 | 13 600 |   | 12,0 |
| 13,0 | 76,3 | 49,7 | 19 900 | 18 100 | 16 400 | 13 500 |   | 13,0 |
| 14,0 | 75,0 | 49,4 | 18 000 | 16 400 | 15 000 | 13 500 |   | 14,0 |
| 15,0 | 73,8 | 49,1 | 16 300 | 15 000 | 13 800 | 12 700 |   | 15,0 |
| 16,0 | 72,6 | 48,8 | 15 000 | 13 800 | 12 700 | 11 800 |   | 16,0 |
| 17,0 | 71,4 | 48,5 | 13 700 | 12 700 | 11 800 | 10 900 |   | 17,0 |
| 18,0 | 70,1 | 48,1 | 12 700 | 11 700 | 10 900 | 10 200 |   | 18,0 |
| 19,0 | 68,9 | 47,8 | 11 700 | 10 900 | 10 200 | 9 500  |   | 19,0 |
| 20,0 | 67,6 | 47,3 | 10 900 | 10 200 | 9 500  | 8 900  |   | 20,0 |
| 21,0 | 66,4 | 46,9 | 10 100 | 9 500  | 8 900  | 8 300  |   | 21,0 |
| 22,0 | 65,1 | 46,5 | 9 500  | 8 900  | 8 300  | 7 800  |   | 22,0 |
| 23,0 | 63,8 | 46,0 | 8 900  | 8 300  | 7 800  | 7 400  |   | 23,0 |
| 24,0 | 62,5 | 45,5 | 8 300  | 7 800  | 7 400  | 7 000  |   | 24,0 |
| 25,0 | 61,1 | 44,9 | 7 800  | 7 400  | 7 000  | 6 600  |   | 25,0 |
| 26,0 | 59,8 | 44,3 | 7 400  | 6 900  | 6 600  | 6 200  |   | 26,0 |
| 27,0 | 58,4 | 43,7 | 6 900  | 6 600  | 6 200  | 5 900  |   | 27,0 |
| 28,0 | 57,0 | 43,1 | 6 600  | 6 200  | 5 900  | 5 600  |   | 28,0 |
| 29,0 | 55,6 | 42,4 | 6 200  | 5 900  | 5 600  | 5 300  |   | 29,0 |
| 30,0 | 54,2 | 41,7 | 5 900  | 5 600  | 5 300  | 5 000  |   | 30,0 |
| 31,0 | 52,7 | 41,0 | 5 500  | 5 300  | 5 000  | 4 800  |   | 31,0 |
| 32,0 | 51,2 | 40,2 | 5 200  | 5 000  | 4 700  | 4 500  |   | 32,0 |
| 33,0 | 49,7 | 39,3 | 5 000  | 4 700  | 4 500  | 4 300  |   | 33,0 |
| 34,0 | 48,1 | 38,5 | 4 700  | 4 500  | 4 300  | 4 100  |   | 34,0 |
| 35,0 | 46,6 | 37,5 | 4 500  | 4 300  | 4 100  | 3 900  |   | 35,0 |
| 36,0 | 44,9 | 36,6 | 4 300  | 4 100  | 3 900  | 3 700  |   | 36,0 |
| 37,0 | 43,2 | 35,5 | 4 000  | 3 900  | 3 700  | 3 500  |   | 37,0 |
| 38,0 | 41,5 | 34,4 | 3 800  | 3 700  | 3 500  | 3 400  |   | 38,0 |
| 39,0 | 39,7 | 33,2 | 3 700  | 3 500  | 3 300  | 3 200  |   | 39,0 |
| 40,0 | 37,8 | 32,0 | 3 500  | 3 300  | 3 200  | 3 000  |   | 40,0 |
| 42,0 | 33,8 | 29,2 | 3 100  | 3 000  | 2 900  | 2 800  |   | 42,0 |
| 44,0 | 29,3 | 25,9 | 2 800  | 2 700  | 2 600  | 2 500  |   | 44,0 |
| 46,0 | 24,0 | 21,8 | 2 500  | 2 500  | 2 400  | 2 300  |   | 46,0 |

# MLC80A-1 S-2



| <br>m | <br>° | <br>m | <br>kg | <br>kg | <br>kg | <br>kg | <br>kg | <br>m |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|
| 9,8   | 80,7  | 53,4  | 24 100 |        |        |        |        | 9,8   |
| 10,0  | 80,4  | 53,4  | 23 900 |        |        |        |        | 10,0  |
| 11,0  | 79,3  | 53,2  | 23 400 | 20 000 |        |        |        | 11,0  |
| 12,0  | 78,2  | 53,0  | 22 100 | 19 600 | 14 900 |        |        | 12,0  |
| 13,0  | 77,1  | 52,7  | 19 900 | 17 900 | 14 800 | 11 700 |        | 13,0  |
| 14,0  | 75,9  | 52,5  | 17 900 | 16 200 | 14 700 | 11 600 |        | 14,0  |
| 15,0  | 74,8  | 52,2  | 16 300 | 14 800 | 13 600 | 11 600 |        | 15,0  |
| 16,0  | 73,6  | 51,9  | 14 900 | 13 600 | 12 500 | 11 200 |        | 16,0  |
| 17,0  | 72,5  | 51,6  | 13 600 | 12 500 | 11 600 | 10 700 |        | 17,0  |
| 18,0  | 71,3  | 51,3  | 12 600 | 11 600 | 10 700 | 10 000 |        | 18,0  |
| 19,0  | 70,2  | 50,9  | 11 600 | 10 800 | 10 000 | 9 300  |        | 19,0  |
| 20,0  | 69,0  | 50,6  | 10 800 | 10 000 | 9 300  | 8 700  |        | 20,0  |
| 21,0  | 67,8  | 50,2  | 10 100 | 9 400  | 8 700  | 8 200  |        | 21,0  |
| 22,0  | 66,6  | 49,7  | 9 400  | 8 800  | 8 200  | 7 700  |        | 22,0  |
| 23,0  | 65,4  | 49,3  | 8 800  | 8 200  | 7 700  | 7 200  |        | 23,0  |
| 24,0  | 64,2  | 48,8  | 8 200  | 7 700  | 7 200  | 6 800  |        | 24,0  |
| 25,0  | 62,9  | 48,3  | 7 700  | 7 300  | 6 800  | 6 400  |        | 25,0  |
| 26,0  | 61,7  | 47,8  | 7 300  | 6 800  | 6 400  | 6 100  |        | 26,0  |
| 27,0  | 60,4  | 47,2  | 6 900  | 6 500  | 6 100  | 5 700  |        | 27,0  |
| 28,0  | 59,1  | 46,6  | 6 500  | 6 100  | 5 800  | 5 400  |        | 28,0  |
| 29,0  | 57,8  | 46,0  | 6 100  | 5 800  | 5 400  | 5 100  |        | 29,0  |
| 30,0  | 56,5  | 45,4  | 5 800  | 5 500  | 5 200  | 4 900  |        | 30,0  |
| 31,0  | 55,2  | 44,7  | 5 500  | 5 200  | 4 900  | 4 600  |        | 31,0  |
| 32,0  | 53,8  | 44,0  | 5 200  | 4 900  | 4 600  | 4 400  |        | 32,0  |
| 33,0  | 52,5  | 43,2  | 4 900  | 4 600  | 4 400  | 4 200  |        | 33,0  |
| 34,0  | 51,0  | 42,4  | 4 600  | 4 400  | 4 200  | 4 000  |        | 34,0  |
| 35,0  | 49,6  | 41,6  | 4 400  | 4 200  | 4 000  | 3 800  |        | 35,0  |
| 36,0  | 48,1  | 40,7  | 4 200  | 4 000  | 3 800  | 3 600  |        | 36,0  |
| 37,0  | 46,6  | 39,8  | 4 000  | 3 800  | 3 600  | 3 400  |        | 37,0  |
| 38,0  | 45,1  | 38,8  | 3 800  | 3 600  | 3 400  | 3 200  |        | 38,0  |
| 39,0  | 43,5  | 37,7  | 3 600  | 3 400  | 3 200  | 3 100  |        | 39,0  |
| 40,0  | 41,9  | 36,7  | 3 400  | 3 200  | 3 100  | 2 900  |        | 40,0  |
| 42,0  | 38,4  | 34,3  | 3 100  | 2 900  | 2 800  | 2 700  |        | 42,0  |
| 44,0  | 34,7  | 31,5  | 2 800  | 2 600  | 2 500  | 2 400  |        | 44,0  |
| 46,0  | 30,6  | 28,4  | 2 500  | 2 400  | 2 300  | 2 200  |        | 46,0  |
| 48,0  | 25,9  | 24,6  | 2 200  | 2 100  | 2 100  | 2 000  |        | 48,0  |

# MLC80A-1 S-2



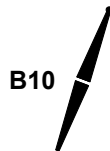
33 120 kg  
+  
10 500 kg



| m    | °    | m    | kg     | kg     | kg     | kg     | m    |
|------|------|------|--------|--------|--------|--------|------|
| 10,4 | 80,6 | 56,3 | 20 800 |        |        |        | 10,4 |
| 11,0 | 79,9 | 56,2 | 20 500 | 17 500 |        |        | 11,0 |
| 12,0 | 78,8 | 56,0 | 20 100 | 17 400 |        |        | 12,0 |
| 13,0 | 77,8 | 55,8 | 19 400 | 17 200 | 13 000 | 10 100 | 13,0 |
| 14,0 | 76,7 | 55,6 | 17 800 | 16 000 | 12 900 | 10 100 | 14,0 |
| 15,0 | 75,6 | 55,3 | 16 200 | 14 600 | 12 800 | 10 000 | 15,0 |
| 16,0 | 74,5 | 55,1 | 14 800 | 13 500 | 12 200 | 10 000 | 16,0 |
| 17,0 | 73,5 | 54,8 | 13 500 | 12 400 | 11 400 | 9 900  | 17,0 |
| 18,0 | 72,4 | 54,4 | 12 500 | 11 500 | 10 600 | 9 600  | 18,0 |
| 19,0 | 71,3 | 54,1 | 11 500 | 10 600 | 9 800  | 9 100  | 19,0 |
| 20,0 | 70,2 | 53,8 | 10 700 | 9 900  | 9 200  | 8 500  | 20,0 |
| 21,0 | 69,1 | 53,4 | 10 000 | 9 200  | 8 600  | 8 000  | 21,0 |
| 22,0 | 67,9 | 53,0 | 9 300  | 8 600  | 8 000  | 7 500  | 22,0 |
| 23,0 | 66,8 | 52,6 | 8 700  | 8 100  | 7 500  | 7 000  | 23,0 |
| 24,0 | 65,7 | 52,1 | 8 100  | 7 600  | 7 100  | 6 600  | 24,0 |
| 25,0 | 64,5 | 51,6 | 7 600  | 7 100  | 6 700  | 6 200  | 25,0 |
| 26,0 | 63,3 | 51,2 | 7 200  | 6 700  | 6 300  | 5 900  | 26,0 |
| 27,0 | 62,2 | 50,6 | 6 700  | 6 300  | 5 900  | 5 600  | 27,0 |
| 28,0 | 61,0 | 50,1 | 6 400  | 6 000  | 5 600  | 5 300  | 28,0 |
| 29,0 | 59,8 | 49,5 | 6 000  | 5 600  | 5 300  | 5 000  | 29,0 |
| 30,0 | 58,6 | 48,9 | 5 700  | 5 300  | 5 000  | 4 700  | 30,0 |
| 31,0 | 57,3 | 48,3 | 5 400  | 5 000  | 4 700  | 4 500  | 31,0 |
| 32,0 | 56,1 | 47,6 | 5 100  | 4 800  | 4 500  | 4 200  | 32,0 |
| 33,0 | 54,8 | 46,9 | 4 800  | 4 500  | 4 300  | 4 000  | 33,0 |
| 34,0 | 53,5 | 46,2 | 4 500  | 4 300  | 4 000  | 3 800  | 34,0 |
| 35,0 | 52,2 | 45,4 | 4 300  | 4 100  | 3 800  | 3 600  | 35,0 |
| 36,0 | 50,9 | 44,6 | 4 100  | 3 800  | 3 600  | 3 400  | 36,0 |
| 37,0 | 49,5 | 43,8 | 3 900  | 3 600  | 3 400  | 3 300  | 37,0 |
| 38,0 | 48,1 | 42,9 | 3 700  | 3 500  | 3 300  | 3 100  | 38,0 |
| 39,0 | 46,7 | 42,0 | 3 500  | 3 300  | 3 100  | 2 900  | 39,0 |
| 40,0 | 45,3 | 41,0 | 3 300  | 3 100  | 2 900  | 2 800  | 40,0 |
| 42,0 | 42,2 | 38,9 | 3 000  | 2 800  | 2 700  | 2 500  | 42,0 |
| 44,0 | 39,0 | 36,5 | 2 700  | 2 500  | 2 400  | 2 300  | 44,0 |
| 46,0 | 35,5 | 33,9 | 2 400  | 2 300  | 2 100  | 2 000  | 46,0 |
| 48,0 | 31,8 | 30,9 | 2 100  | 2 000  | 1 900  | 1 800  | 48,0 |
| 50,0 | 27,5 | 27,3 | 1 900  | 1 800  | 1 700  |        | 50,0 |

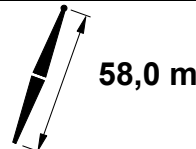
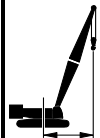


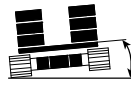
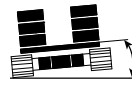
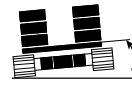
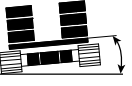
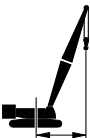


# MLC80A-1 S-2

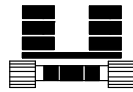
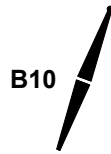



**33 120 kg**  
**+**  
**10 500 kg**



|       |  |  |   |   |  |   |  |
|--|--|--|---|---|--|---|--|
| <br>m | <br>° | <br>m | <br>0°<br>kg | <br>1°<br>kg | <br>2°<br>kg | <br>3°<br>kg | <br>m |
| 11,0   | 80,5   | 59,3   | 19 700  |   |  |   | 11,0   |
| 12,0   | 79,4   | 59,1   | 19 300  | 15 300  |  |   | 12,0   |
| 13,0   | 78,4   | 58,9   | 18 900  | 15 300  | 11 400   |   | 13,0   |
| 14,0   | 77,4   | 58,7   | 17 700  | 15 200  | 11 400   | 8 800   | 14,0   |
| 15,0   | 76,4   | 58,4   | 16 000  | 14 500  | 11 400   | 8 800   | 15,0   |
| 16,0   | 75,4   | 58,2   | 14 700  | 13 300  | 11 300   | 8 700   | 16,0   |
| 17,0   | 74,3   | 57,9   | 13 400  | 12 200  | 11 100   | 8 700   | 17,0   |
| 18,0   | 73,3   | 57,6   | 12 400  | 11 300  | 10 300   | 8 700   | 18,0   |
| 19,0   | 72,3   | 57,3   | 11 400  | 10 500  | 9 600  | 8 500   | 19,0   |
| 20,0   | 71,2   | 57,0   | 10 600  | 9 700   | 9 000  | 8 300   | 20,0   |
| 21,0   | 70,2   | 56,6   | 9 800   | 9 100   | 8 400  | 7 800   | 21,0   |
| 22,0   | 69,1   | 56,2   | 9 200   | 8 500   | 7 800  | 7 300   | 22,0   |
| 23,0   | 68,1   | 55,8   | 8 600   | 7 900   | 7 400  | 6 800   | 23,0   |
| 24,0   | 67,0   | 55,4   | 8 000   | 7 400   | 6 900  | 6 400   | 24,0   |
| 25,0   | 65,9   | 55,0   | 7 500   | 7 000   | 6 500  | 6 000   | 25,0   |
| 26,0   | 64,8   | 54,5   | 7 000   | 6 600   | 6 100  | 5 700   | 26,0   |
| 27,0   | 63,7   | 54,0   | 6 600   | 6 200   | 5 800  | 5 400   | 27,0   |
| 28,0   | 62,6   | 53,5   | 6 200   | 5 800   | 5 400  | 5 100   | 28,0   |
| 29,0   | 61,5   | 53,0   | 5 900   | 5 500   | 5 100  | 4 800   | 29,0   |
| 30,0   | 60,4   | 52,4   | 5 500   | 5 200   | 4 800  | 4 500   | 30,0   |
| 31,0   | 59,2   | 51,8   | 5 200   | 4 900   | 4 600  | 4 300   | 31,0   |
| 32,0   | 58,1   | 51,2   | 4 900   | 4 600   | 4 300  | 4 100   | 32,0   |
| 33,0   | 56,9   | 50,6   | 4 700   | 4 400   | 4 100  | 3 800   | 33,0   |
| 34,0   | 55,7   | 49,9   | 4 400   | 4 100   | 3 900  | 3 600   | 34,0   |
| 35,0   | 54,5   | 49,2   | 4 200   | 3 900   | 3 700  | 3 400   | 35,0   |
| 36,0   | 53,3   | 48,5   | 3 900   | 3 700   | 3 500  | 3 300   | 36,0   |
| 37,0   | 52,0   | 47,7   | 3 700   | 3 500   | 3 300  | 3 100   | 37,0   |
| 38,0   | 50,8   | 46,9   | 3 500   | 3 300   | 3 100  | 2 900   | 38,0   |
| 39,0   | 49,5   | 46,0   | 3 300   | 3 100   | 3 000  | 2 800   | 39,0   |
| 40,0   | 48,1   | 45,2   | 3 200   | 3 000   | 2 800  | 2 600   | 40,0   |
| 42,0   | 45,4   | 43,3   | 2 800   | 2 700   | 2 500  | 2 300   | 42,0   |
| 44,0   | 42,6   | 41,2   | 2 500   | 2 400   | 2 200  | 2 100   | 44,0   |
| 46,0   | 39,5   | 38,9   | 2 200   | 2 100   | 2 000  | 1 900   | 46,0   |
| 48,0   | 36,3   | 36,3   | 2 000   | 1 900   | 1 800  |   | 48,0   |
| 50,0   | 32,8   | 33,4   | 1 800   |   |  |   | 50,0   |

# MLC80A-1 S-2



33 120 kg  
+  
10 500 kg



| m    | °    | m    | kg     | kg     | kg     | kg    | m    |
|------|------|------|--------|--------|--------|-------|------|
| 11,0 | 80,9 | 62,3 | 17 600 |        |        |       | 11,0 |
| 12,0 | 79,9 | 62,1 | 17 200 |        |        |       | 12,0 |
| 13,0 | 79,0 | 61,9 | 16 900 | 13 400 |        |       | 13,0 |
| 14,0 | 78,0 | 61,7 | 16 500 | 13 400 | 10 000 |       | 14,0 |
| 15,0 | 77,1 | 61,5 | 15 800 | 13 300 | 10 000 | 7 600 | 15,0 |
| 16,0 | 76,1 | 61,3 | 14 600 | 12 800 | 9 900  | 7 600 | 16,0 |
| 17,0 | 75,1 | 61,0 | 13 300 | 12 000 | 9 900  | 7 600 | 17,0 |
| 18,0 | 74,2 | 60,7 | 12 200 | 11 100 | 9 900  | 7 500 | 18,0 |
| 19,0 | 73,2 | 60,4 | 11 300 | 10 300 | 9 400  | 7 500 | 19,0 |
| 20,0 | 72,2 | 60,1 | 10 500 | 9 600  | 8 800  | 7 500 | 20,0 |
| 21,0 | 71,2 | 59,8 | 9 700  | 8 900  | 8 200  | 7 400 | 21,0 |
| 22,0 | 70,2 | 59,4 | 9 000  | 8 300  | 7 700  | 7 100 | 22,0 |
| 23,0 | 69,2 | 59,1 | 8 400  | 7 800  | 7 200  | 6 600 | 23,0 |
| 24,0 | 68,2 | 58,7 | 7 900  | 7 300  | 6 700  | 6 200 | 24,0 |
| 25,0 | 67,2 | 58,2 | 7 400  | 6 800  | 6 300  | 5 900 | 25,0 |
| 26,0 | 66,2 | 57,8 | 6 900  | 6 400  | 5 900  | 5 500 | 26,0 |
| 27,0 | 65,1 | 57,3 | 6 500  | 6 000  | 5 600  | 5 200 | 27,0 |
| 28,0 | 64,1 | 56,9 | 6 100  | 5 700  | 5 300  | 4 900 | 28,0 |
| 29,0 | 63,0 | 56,4 | 5 700  | 5 300  | 5 000  | 4 600 | 29,0 |
| 30,0 | 62,0 | 55,8 | 5 400  | 5 000  | 4 700  | 4 400 | 30,0 |
| 31,0 | 60,9 | 55,3 | 5 100  | 4 700  | 4 400  | 4 100 | 31,0 |
| 32,0 | 59,8 | 54,7 | 4 800  | 4 500  | 4 200  | 3 900 | 32,0 |
| 33,0 | 58,7 | 54,1 | 4 500  | 4 200  | 3 900  | 3 700 | 33,0 |
| 34,0 | 57,6 | 53,5 | 4 300  | 4 000  | 3 700  | 3 500 | 34,0 |
| 35,0 | 56,5 | 52,8 | 4 000  | 3 800  | 3 500  | 3 300 | 35,0 |
| 36,0 | 55,3 | 52,2 | 3 800  | 3 600  | 3 300  | 3 100 | 36,0 |
| 37,0 | 54,2 | 51,4 | 3 600  | 3 400  | 3 100  | 2 900 | 37,0 |
| 38,0 | 53,0 | 50,7 | 3 400  | 3 200  | 3 000  | 2 800 | 38,0 |
| 39,0 | 51,8 | 49,9 | 3 200  | 3 000  | 2 800  | 2 600 | 39,0 |
| 40,0 | 50,6 | 49,1 | 3 000  | 2 800  | 2 600  | 2 500 | 40,0 |
| 42,0 | 48,1 | 47,4 | 2 700  | 2 500  | 2 300  | 2 200 | 42,0 |
| 44,0 | 45,6 | 45,5 | 2 400  | 2 200  | 2 100  | 1 900 | 44,0 |
| 46,0 | 42,8 | 43,4 | 2 100  | 2 000  | 1 800  |       | 46,0 |
| 48,0 | 40,0 | 41,1 | 1 900  |        |        |       | 48,0 |