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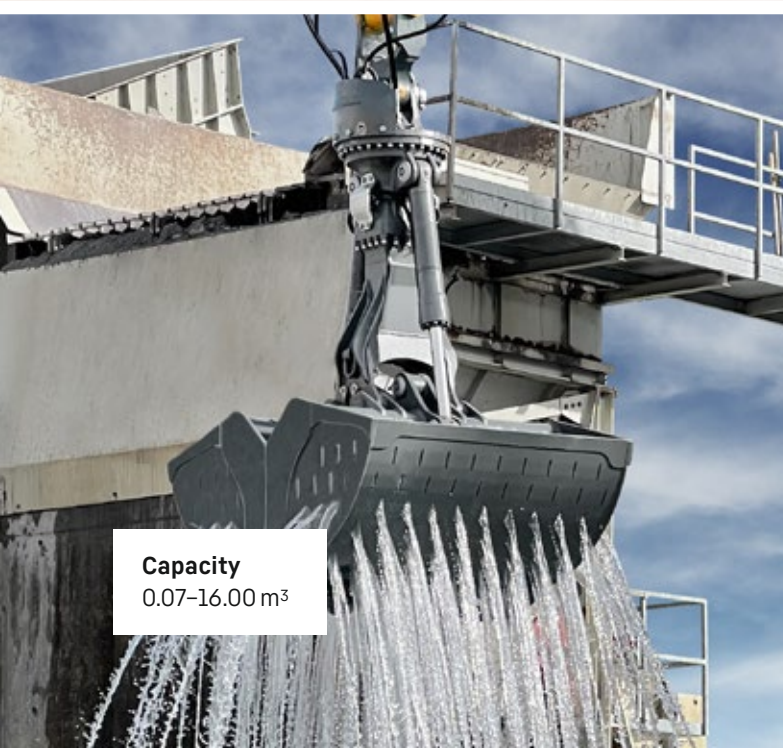
# GM 05B - GMZ 180B

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Clamshell grabs

**LIEBHERR**

Attachments

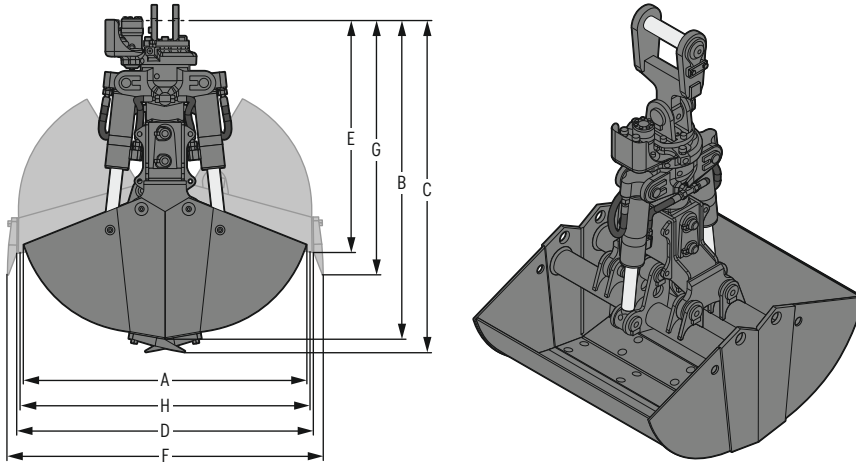


Capacity  
0.07-16.00 m<sup>3</sup>



# Clamshell grab GM 05B

## Clamshell buckets, two-piece clamshell carrier



### Machine range

#### Liebherr machines

|                             |                               |
|-----------------------------|-------------------------------|
| Wheeled excavator – Compact | A 909 Compact – A 916 Compact |
| Wheeled excavator           | A 914                         |
| Crawler excavator – Compact | R 914 Compact                 |

#### Other machine makes

|  |                |
|--|----------------|
| Weight class<br>(see operating manual for exact specification) | approx. 10–16t |
|--|----------------|

### Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     |                 | Weight <sup>2)</sup> |                          |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|----------------------|--------------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth | H Opening width | without suspension   | with standard suspension |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg                   | kg                       |
| 0.10                   | 300         | 3               | 1,195         | 1,352    | 1,408               | 1,257   | 985      | 1,341              | 1,080               | 1,217           | 410                  | 480                      |
| 0.13                   | 400         | 5               | 1,195         | 1,352    | 1,408               | 1,257   | 985      | 1,341              | 1,080               | 1,217           | 445                  | 515                      |
| 0.20                   | 600         | 5               | 1,195         | 1,352    | 1,408               | 1,257   | 985      | 1,341              | 1,080               | 1,217           | 475                  | 545                      |
| 0.27                   | 800         | 7               | 1,195         | 1,352    | 1,408               | 1,257   | 985      | 1,341              | 1,080               | 1,217           | 515                  | 585                      |
| 0.34                   | 1,000       | 7               | 1,195         | 1,352    | 1,408               | 1,257   | 985      | 1,341              | 1,080               | 1,217           | 590                  | 660                      |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

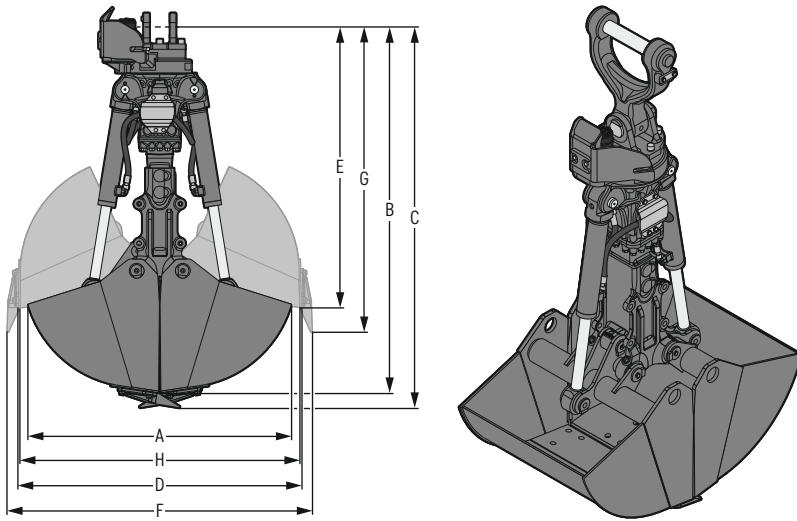
<sup>2)</sup> the weight may vary depending on the suspension

### Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 1 motor 200 cm <sup>3</sup> |
|--------------------|---------------|-----------------------------|---------------|------------------------|------------------------------------|
| 5t                 | 36 MPa        | 150 l/min.                  | 15 MPa        | 30 l/min.              | 1.08 kNm                           |

# Clamshell grab GMZ 18

## Clamshell buckets, two-piece clamshell carrier



### Machine range

#### Liebherr machines

|                             |                               |
|-----------------------------|-------------------------------|
| Wheeled excavator – Compact | A 914 Compact – A 918 Compact |
| Wheeled excavator           | A 914 – A 918                 |
| Crawler excavator – Compact | R 914 Compact – R 920 Compact |
| Railroad excavator          | A 922 Rail, A 924 Rail        |

#### Other machine makes

|  |                 |
|--|-----------------|
| Weight class<br>(see operating manual for exact specification) | approx. 14–20 t |
|--|-----------------|

### Dimensions / weights

| Capacity <sup>1)</sup><br>m <sup>3</sup> | Shell<br>width<br>mm | Number<br>of teeth<br>Piece | Shells closed    |                   |                                 | D<br>Width<br>mm | E<br>Height<br>mm | Shells open                    |                                 |                             | Weight <sup>2)</sup>        |                                |
|--|----------------------|-----------------------------|------------------|-------------------|---------------------------------|------------------|-------------------|--------------------------------|---------------------------------|-----------------------------|-----------------------------|--------------------------------|
|  |                      |                             | A<br>Width<br>mm | B<br>Height<br>mm | C<br>Height<br>with teeth<br>mm |                  |                   | F<br>Width<br>with teeth<br>mm | G<br>Height<br>with teeth<br>mm | H<br>Opening<br>width<br>mm | without<br>suspension<br>kg | with<br>HD<br>suspension<br>kg |
| 0.17                                     | 320                  | 3                           | 1,450            | 1,895             | 1,969                           | 1,512            | 1,436             | 1,633                          | 1,556                           | 1,462                       | 670                         | 745                            |
| 0.22                                     | 400                  | 3                           | 1,450            | 1,895             | 1,969                           | 1,512            | 1,436             | 1,633                          | 1,556                           | 1,462                       | 705                         | 780                            |
| 0.30                                     | 600                  | 5                           | 1,367            | 1,860             | 1,935                           | 1,443            | 1,432             | 1,467                          | 1,551                           | 1,392                       | 715                         | 790                            |
| 0.40                                     | 800                  | 5                           | 1,367            | 1,860             | 1,935                           | 1,443            | 1,432             | 1,566                          | 1,551                           | 1,392                       | 765                         | 840                            |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

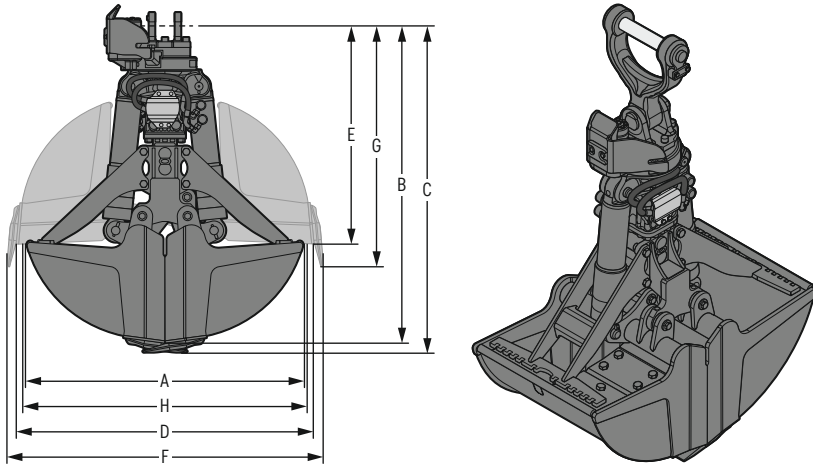
<sup>2)</sup> the weight may vary depending on the suspension

### Technical data

| Lift capacity<br>max. | Pressure<br>max. | Grab open / close<br>Flow<br>max. | Pressure<br>max. | Grab turning<br>Flow<br>max. | Torque<br>1 motor<br>200 cm <sup>3</sup> |
|-----------------------|------------------|-----------------------------------|------------------|------------------------------|--|
| 15 t                  | 36 MPa           | 200 l/min.                        | 15 MPa           | 30 l/min.                    | 1.38 kNm                                 |

# Clamshell grab GMZ 22 / GMZ 22 HD

Clamshell buckets, two-piece clamshell carrier  
Compatible with previous shell GM 7C / GM 7C HD



## Machine range

### Liebherr machines

|                             |                               |
|-----------------------------|-------------------------------|
| Wheeled excavator – Compact | A 916 Compact – A 918 Compact |
| Wheeled excavator           | A 916 – A 920                 |
| Crawler excavator           | R 918 – R 922                 |
| Railroad excavator          | A 922 Rail, A 924 Rail        |

### Other machine makes

|  |                 |
|--|-----------------|
| Weight class                                   | approx. 16–24 t |
| (see operating manual for exact specification) |                 |

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     |                 | Weight <sup>2) 3) 4)</sup> |                    |                     |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|----------------------------|--------------------|---------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth | H Opening width | without suspension         | with HD suspension | with XHD suspension |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg                         | kg                 | kg                  |
| 0.14                   | 300         | 3               | 1,459         | 1,678    | 1,726               | 1,572   | 1,154    | 1,662              | 1,273               | 1,502           | 680                        | 755                | 780                 |
| 0.20                   | 400         | 3               | 1,459         | 1,678    | 1,726               | 1,572   | 1,154    | 1,662              | 1,273               | 1,502           | 710                        | 785                | 810                 |
| 0.30                   | 600         | 5               | 1,459         | 1,678    | 1,726               | 1,572   | 1,154    | 1,662              | 1,273               | 1,502           | 780                        | 855                | 880                 |
| 0.42                   | 800         | 7               | 1,459         | 1,678    | 1,726               | 1,572   | 1,154    | 1,662              | 1,273               | 1,502           | 855                        | 930                | 955                 |
| 0.54                   | 1,000       | 9               | 1,459         | 1,678    | 1,726               | 1,572   | 1,154    | 1,662              | 1,273               | 1,502           | 935                        | 1,010              | 1,035               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

<sup>4)</sup> 20 kg additional weight for HD version

## Technical data

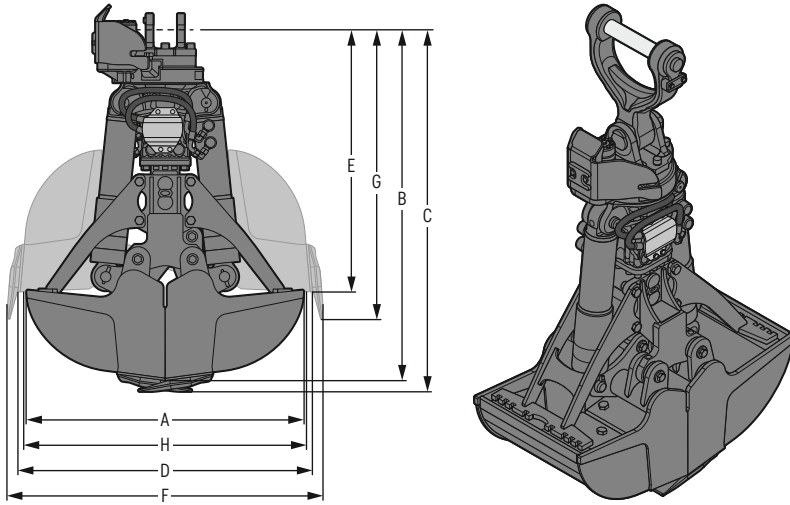
| Lift capacity max. | Grab open / close |                         | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque<br>1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
|--------------------|-------------------|-------------------------|---------------|-----------|--------------------------------|--|---------------------------------|
|                    | Pressure max.     | Flow <sup>1)</sup> max. | Pressure max. | Flow max. |                                |  |                                 |
| 15t                | 36 MPa            | 200 l/min.              | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                                 | 2.77 kNm                        |

<sup>1)</sup> 220 l/min. for HD version



# Clamshell grab GMZ 22 / GMZ 22 HD

Combination buckets, two-piece clamshell carrier  
Compatible with previous grab GM 7C / GM 7C HD



## Machine range

### Liebherr machines

|                             |                               |
|-----------------------------|-------------------------------|
| Wheeled excavator – Compact | A 914 Compact – A 918 Compact |
| Wheeled excavator           | A 914 – A 920                 |
| Crawler excavator           | R 918 – R 922                 |
| Railroad excavator          | A 922 Rail, A 924 Rail        |

### Other machine makes

|  |                 |
|--|-----------------|
| Weight class                                   | approx. 16–24 t |
| (see operating manual for exact specification) |                 |

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     |                 | Weight <sup>2) 3) 4)</sup> |                    |                     |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|----------------------------|--------------------|---------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth | H Opening width | without suspension         | with HD suspension | with XHD suspension |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg                         | kg                 | kg                  |
| 0.12                   | 400         | 3               | 1,211         | 1,536    | 1,584               | 1,289   | 1,148    | 1,379              | 1,268               | 1,227           | 630                        | 705                | 730                 |
| 0.16                   | 500         | 5               | 1,211         | 1,536    | 1,584               | 1,289   | 1,148    | 1,379              | 1,268               | 1,227           | 670                        | 745                | 770                 |
| 0.20                   | 600         | 5               | 1,211         | 1,536    | 1,584               | 1,289   | 1,148    | 1,379              | 1,268               | 1,227           | 700                        | 775                | 800                 |
| 0.24                   | 700         | 7               | 1,211         | 1,536    | 1,584               | 1,289   | 1,148    | 1,379              | 1,268               | 1,227           | 740                        | 815                | 840                 |
| 0.28                   | 800         | 7               | 1,211         | 1,536    | 1,584               | 1,289   | 1,148    | 1,379              | 1,268               | 1,227           | 770                        | 845                | 870                 |
| 0.34                   | 1,000       | 9               | 1,211         | 1,536    | 1,584               | 1,289   | 1,148    | 1,379              | 1,268               | 1,227           | 835                        | 910                | 935                 |
| 0.56 <sup>5)</sup>     | 1,600       | 0               | 1,211         | 1,536    | 1,584               | 1,289   | 1,148    |                    |                     | 1,227           | 1,020                      | 1,095              | 1,120               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

<sup>4)</sup> 20 kg additional weight for HD version

<sup>5)</sup> specifically for unloading half-pipe type tippers and filling the track bed with ballast

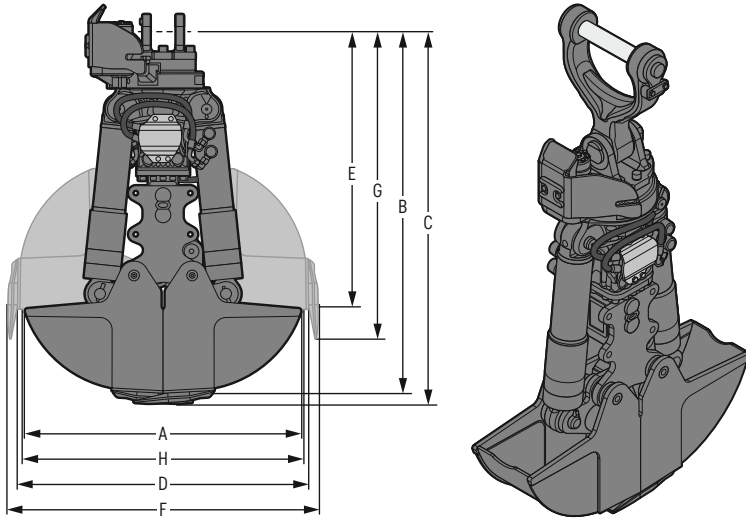
## Technical data

| Lift capacity max. | Grab open / close |                         | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque<br>1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
|--------------------|-------------------|-------------------------|---------------|-----------|--------------------------------|--|---------------------------------|
|                    | Pressure max.     | Flow <sup>1)</sup> max. | Pressure max. | Flow max. |                                |  |                                 |
| 15t                | 36 MPa            | 200 l/min.              | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                                 | 2.77 kNm                        |

<sup>1)</sup> 220 l/min. for HD version

# Clamshell grab GMZ 22 / GMZ 22 HD

Track construction buckets, two-piece clamshell carrier  
Compatible with previous grab GM 7C / GM 7C HD



## Machine range

### Liebherr machines

Railroad excavator

| A 922 Rail, A 924 Rail

### Other machine makes

Weight class

(see operating manual for exact specification)

| approx. 16-24 t

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width  | E Height | Shells open        |                     |                 | Weight <sup>2) 3) 4)</sup> |                    |                     |
|------------------------|-------------|-----------------|---------------|----------|---------------------|----------|----------|--------------------|---------------------|-----------------|----------------------------|--------------------|---------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |          |          | F Width with teeth | G Height with teeth | H Opening width | without suspension         | with HD suspension | with XHD suspension |
| 0.08 m <sup>3</sup>    | 300 mm      | 3 Pieces        | 1,136 mm      | 1,492 mm | 1,535 mm            | 1,201 mm | 1,146 mm | 1,283 mm           | 1,268 mm            | 1,141 mm        | 605 kg                     | 680 kg             | 705 kg              |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

<sup>4)</sup> 20 kg additional weight for HD version

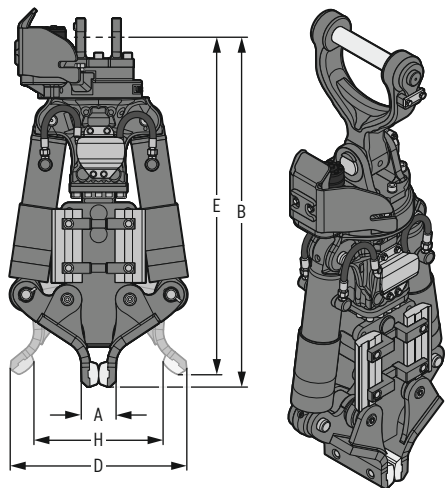
## Technical data

| Lift capacity max. | Grab open / close |                         | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque                         |                                 |
|--------------------|-------------------|-------------------------|---------------|-----------|--------------------------------|--------------------------------|---------------------------------|
|                    | Pressure max.     | Flow <sup>1)</sup> max. | Pressure max. | Flow max. |                                | 1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
| 15t                | 36 MPa            | 200 l/min.              | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                       | 2.77 kNm                        |

<sup>1)</sup> 220 l/min. for HD version

# Clamshell grab GMZ 22 / GMZ 22 HD

Track grab, two-piece clamshell carrier



## Machine range

**Liebherr machines**  
Railroad excavator | A 922 Rail, A 924 Rail

**Other machine makes**  
Weight class | approx. 16-24 t  
(see operating manual for exact specification)

## Dimensions / weights

| Shell width | Shells closed |          | D Width | Shells open |                    | H Opening width | Weight <sup>1) 2) 3)</sup> |                     |  |
|-------------|---------------|----------|---------|-------------|--------------------|-----------------|----------------------------|---------------------|--|
|             | A Width       | B Height |         | E Height    | without suspension |                 | with HD suspension         | with XHD suspension |  |
| 280 mm      | 127 mm        | 1,340 mm | 674 mm  | 1,293 mm    | 499 mm             | 495 kg          | 570 kg                     | 595 kg              |  |

<sup>1)</sup> the weight may vary depending on the suspension

<sup>2)</sup> 20 kg additional weight for rotary drive with 2 motors

<sup>3)</sup> 20 kg additional weight for HD version

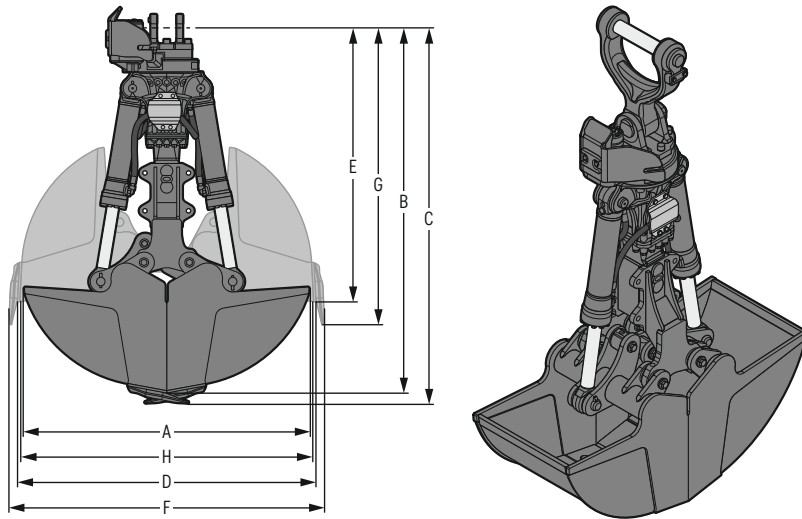
## Technical data

| Lift capacity max. | Grab open / close |                         | Grab turning  |           | Torque                      |                             |                              |
|--------------------|-------------------|-------------------------|---------------|-----------|-----------------------------|-----------------------------|------------------------------|
|                    | Pressure max.     | Flow <sup>1)</sup> max. | Pressure max. | Flow max. | 1 motor 200 cm <sup>3</sup> | 1 motor 315 cm <sup>3</sup> | 2 motors 200 cm <sup>3</sup> |
| 5 t                | 36 MPa            | 200 l/min.              | 15 MPa        | 30 l/min. | 1.38 kNm                    | 2.16 kNm                    | 2.77 kNm                     |

<sup>1)</sup> 220 l/min. for HD version

# Clamshell grab GMZ 24

Clamshell buckets, two-piece clamshell carrier  
Compatible with previous grab GM 10B



## Machine range

| Liebherr machines           |                               |
|-----------------------------|-------------------------------|
| Wheeled excavator – Compact | A 916 Compact – A 918 Compact |
| Wheeled excavator           | A 916 – A 924                 |
| Crawler excavator – Compact | R 926 Compact                 |
| Crawler excavator           | R 918 – R 922                 |
| Railroad excavator          | A 922 Rail, A 924 Rail        |

| Other machine makes                            |                 |
|--|-----------------|
| Weight class                                   | approx. 16–24 t |
| (see operating manual for exact specification) |                 |

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     |                 | Weight <sup>2) 3)</sup> |                    |                     |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|-------------------------|--------------------|---------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth | H Opening width | without suspension      | with HD suspension | with XHD suspension |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg                      | kg                 | kg                  |
| 0.16                   | 320         | 3               | 1,503         | 1,930    | 1,983               | 1,577   | 1,449    | 1,663              | 1,569               | 1,515           | 720                     | 795                | 820                 |
| 0.22                   | 400         | 3               | 1,503         | 1,930    | 1,983               | 1,577   | 1,449    | 1,663              | 1,569               | 1,515           | 755                     | 830                | 855                 |
| 0.28                   | 500         | 3               | 1,503         | 1,930    | 1,983               | 1,577   | 1,449    | 1,663              | 1,569               | 1,515           | 780                     | 855                | 880                 |
| 0.34                   | 600         | 5               | 1,503         | 1,930    | 1,983               | 1,577   | 1,449    | 1,663              | 1,569               | 1,515           | 815                     | 890                | 915                 |
| 0.46                   | 800         | 7               | 1,503         | 1,930    | 1,983               | 1,577   | 1,449    | 1,663              | 1,569               | 1,515           | 890                     | 965                | 990                 |
| 0.60                   | 1,000       | 9               | 1,503         | 1,930    | 1,983               | 1,577   | 1,449    | 1,663              | 1,569               | 1,515           | 965                     | 1,040              | 1,065               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

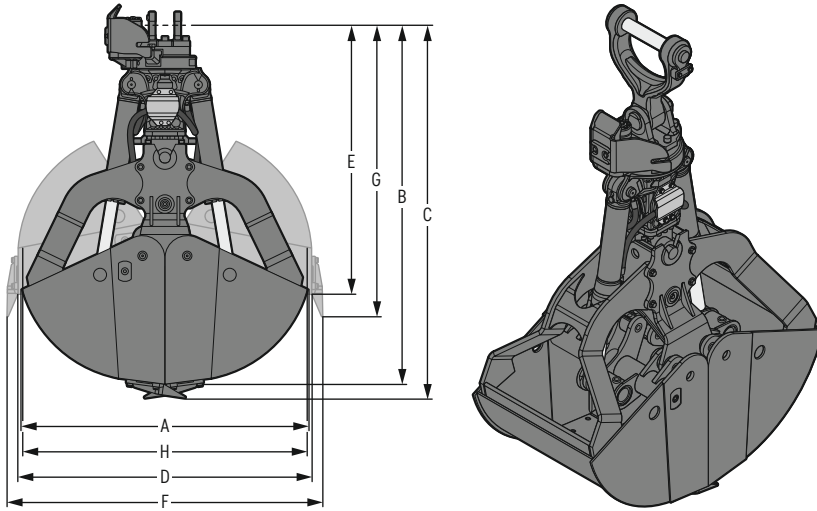
## Technical data

| Lift capacity max. | Grab open / close |            | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque                         |                                 |
|--------------------|-------------------|------------|---------------|-----------|--------------------------------|--------------------------------|---------------------------------|
|                    | Pressure max.     | Flow max.  | Pressure max. | Flow max. |                                | 1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
| 15t                | 36 MPa            | 220 l/min. | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                       | 2.77 kNm                        |



# Clamshell grab GMZ 24

Clamshell buckets SW, two-piece clamshell carrier SW  
Compatible with previous grab SW GM 10B



## Machine range

### Liebherr machines

|                             |                               |
|-----------------------------|-------------------------------|
| Wheeled excavator – Compact | A 916 Compact – A 918 Compact |
| Wheeled excavator           | A 916 – A 924                 |
| Crawler excavator – Compact | R 926 Compact                 |
| Crawler excavator           | R 918 – R 922                 |
| Railroad excavator          | A 922 Rail, A 924 Rail        |

### Other machine makes

|  |                 |
|--|-----------------|
| Weight class                                   | approx. 16–24 t |
| (see operating manual for exact specification) |                 |

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     |                 | Weight <sup>2) 3)</sup> |                    |                     |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|-------------------------|--------------------|---------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth | H Opening width | without suspension      | with HD suspension | with XHD suspension |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg                      | kg                 | kg                  |
| 0.16                   | 330         | 3               | 1,531         | 1,930    | 2,005               | 1,577   | 1,448    | 1,697              | 1,568               | 1,527           | 845                     | 920                | 945                 |
| 0.21                   | 400         | 3               | 1,531         | 1,930    | 2,005               | 1,577   | 1,448    | 1,697              | 1,568               | 1,527           | 855                     | 930                | 955                 |
| 0.33                   | 600         | 5               | 1,531         | 1,930    | 2,005               | 1,577   | 1,448    | 1,697              | 1,568               | 1,527           | 930                     | 1,005              | 1,030               |
| 0.45                   | 800         | 5               | 1,531         | 1,930    | 2,005               | 1,577   | 1,448    | 1,697              | 1,568               | 1,527           | 995                     | 1,070              | 1,095               |
| 0.57                   | 1,000       | 7               | 1,531         | 1,930    | 2,005               | 1,577   | 1,448    | 1,697              | 1,568               | 1,527           | 1,065                   | 1,140              | 1,165               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

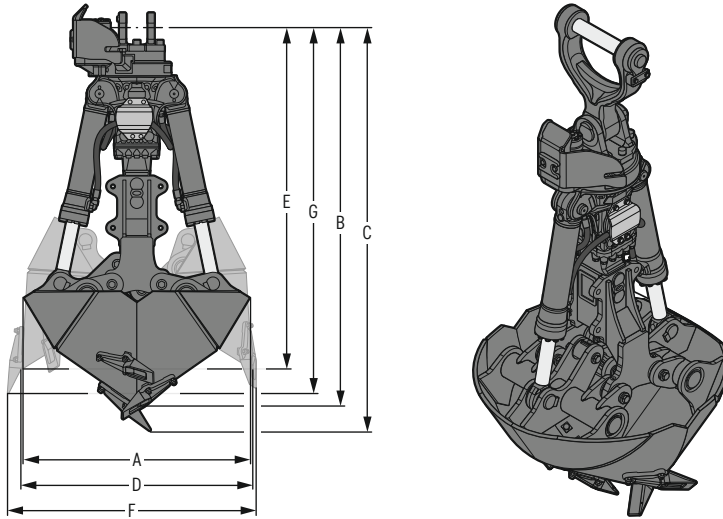
<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

## Technical data

| Lift capacity max. | Grab open / close |            | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque                         |                                 |
|--------------------|-------------------|------------|---------------|-----------|--------------------------------|--------------------------------|---------------------------------|
|                    | Pressure max.     | Flow max.  | Pressure max. | Flow max. |                                | 1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
| 15t                | 36 MPa            | 220 l/min. | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                       | 2.77 kNm                        |

# Clamshell grab GMZ 24

Round hole shells, two-piece clamshell carrier  
Compatible with previous grab GM 10B<sup>1)</sup>



## Machine range

### Liebherr machines

|                             |                               |
|-----------------------------|-------------------------------|
| Wheeled excavator – Compact | A 916 Compact – A 918 Compact |
| Wheeled excavator           | A 916 – A 924                 |
| Crawler excavator – Compact | R 926 Compact                 |
| Crawler excavator           | R 918 – R 922                 |
| Railroad excavator          | A 922 Rail, A 924 Rail        |

### Other machine makes

|  |                 |
|--|-----------------|
| Weight class<br>(see operating manual for exact specification) | approx. 16–24 t |
|--|-----------------|

## Dimensions / weights

| Capacity <sup>2)</sup><br>m <sup>3</sup> | Diameter<br>of shells<br>mm | Number<br>of teeth<br>Piece | Shells closed    |                   |                                 | Shells open      |                   |                                |                                 | Weight <sup>3)4)</sup>      |                                |                                 |
|--|-----------------------------|-----------------------------|------------------|-------------------|---------------------------------|------------------|-------------------|--------------------------------|---------------------------------|-----------------------------|--------------------------------|---------------------------------|
|  |                             |                             | A<br>Width<br>mm | B<br>Height<br>mm | C<br>Height<br>with teeth<br>mm | D<br>Width<br>mm | E<br>Height<br>mm | F<br>Width<br>with teeth<br>mm | G<br>Height<br>with teeth<br>mm | without<br>suspension<br>kg | with<br>HD<br>suspension<br>kg | with<br>XHD<br>suspension<br>kg |
| 0.07                                     | 800                         | 0                           | 732              | 1,723             |                                 | 800              | 1,653             |                                |                                 | 600                         | 675                            | 700                             |
| 0.10                                     | 1,000                       | 5                           | 883              | 1,701             | 1,820                           | 899              | 1,584             | 1,000                          | 1,701                           | 635                         | 710                            | 735                             |
| 0.22                                     | 1,200                       | 5                           | 1,084            | 1,825             | 1,943                           | 1,109            | 1,649             | 1,200                          | 1,766                           | 730                         | 805                            | 830                             |
| 0.51                                     | 1,500                       | 5                           | 1,374            | 2,008             | 2,128                           | 1,420            | 1,745             | 1,500                          | 1,862                           | 915                         | 990                            | 1,015                           |
| 1.14                                     | 1,900                       | 5                           | 1,749            | 2,240             | 2,340                           | 1,815            | 1,867             | 1,900                          | 1,984                           | 1,180                       | 1,255                          | 1,280                           |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>3)</sup> the weight may vary depending on the suspension

<sup>4)</sup> 20 kg additional weight for rotary drive with 2 motors

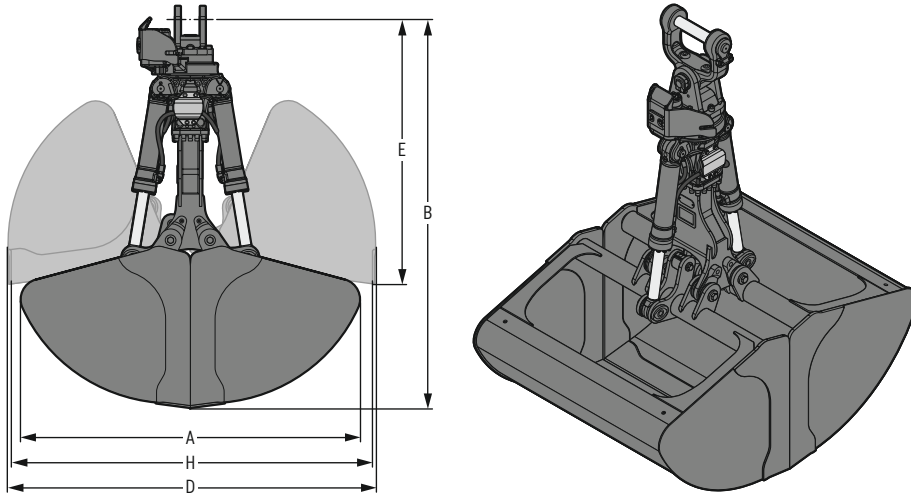
## Technical data

| Lift capacity<br>max. | Grab open / close |              | Grab turning     |              | Torque                         |                                |                                 |
|-----------------------|-------------------|--------------|------------------|--------------|--------------------------------|--------------------------------|---------------------------------|
|                       | Pressure<br>max.  | Flow<br>max. | Pressure<br>max. | Flow<br>max. | 1 motor<br>200 cm <sup>3</sup> | 1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
| 15t                   | 36 MPa            | 220 l/min.   | 15 MPa           | 30 l/min.    | 1.38 kNm                       | 2.16 kNm                       | 2.77 kNm                        |

<sup>1)</sup> compatible with shell diameter of 1,000 mm and over

# Clamshell grab GMZ 26

Shells for loose material, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 18 - LH 26

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 16-24 t

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          |         | Shells open |                 |                    | without suspension | Weight <sup>2) 3)</sup> |  |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|---------|-------------|-----------------|--------------------|--------------------|-------------------------|--|
|                        |             |                   |                       | A Width       | B Height | D Width | E Height    | H Opening width | with HD suspension |                    | with XHD suspension     |  |
| m <sup>3</sup>         | mm          | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm              | kg                 | kg                 | kg                      |  |
| 1.20                   | 1,000       | 40                | 1.6                   | 2,053         | 2,256    | 2,223   | 1,491       | 2,173           | 1,055              | 1,130              | 1,155                   |  |
| 1.50                   | 1,250       | 40                | 1.6                   | 2,053         | 2,256    | 2,223   | 1,491       | 2,173           | 1,095              | 1,170              | 1,195                   |  |
| 1.80                   | 1,500       | 40                | 1.6                   | 2,053         | 2,256    | 2,223   | 1,491       | 2,173           | 1,180              | 1,255              | 1,280                   |  |
| 2.10                   | 1,750       | 40                | 1.1                   | 2,053         | 2,256    | 2,223   | 1,491       | 2,173           | 1,330              | 1,405              | 1,430                   |  |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

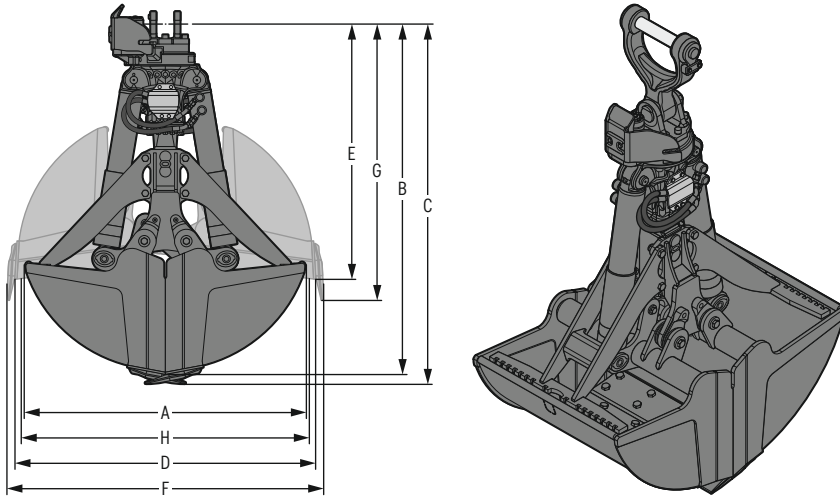
<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

## Technical data

| Lift capacity max. | Grab open / close |            | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque                         |                                 |
|--------------------|-------------------|------------|---------------|-----------|--------------------------------|--------------------------------|---------------------------------|
|                    | Pressure max.     | Flow max.  | Pressure max. | Flow max. |                                | 1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
| 15t                | 36 MPa            | 220 l/min. | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                       | 2.77 kNm                        |

# Clamshell grab GMZ 30

Clamshell buckets, two-piece clamshell carrier



## Machine range

| Liebherr machines           |                               |
|-----------------------------|-------------------------------|
| Material handling machine   | LH 18 - LH 26                 |
| Wheeled excavator           | A 920 - A 924                 |
| Crawler excavator - Compact | R 926 Compact - R 936 Compact |
| Crawler excavator           | R 922 - R 930                 |

| Other machine makes                            |                 |
|--|-----------------|
| Weight class                                   | approx. 20-30 t |
| (see operating manual for exact specification) |                 |

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     |                 | Weight <sup>2) 3)</sup> |                    |                     |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|-------------------------|--------------------|---------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth | H Opening width | without suspension      | with HD suspension | with XHD suspension |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg                      | kg                 | kg                  |
| 0.38                   | 600         | 5               | 1,595         | 2,000    | 2,053               | 1,716   | 1,458    | 1,801              | 1,579               | 1,644           | 950                     | 1,025              | 1,050               |
| 0.52                   | 800         | 7               | 1,595         | 2,000    | 2,053               | 1,716   | 1,458    | 1,801              | 1,579               | 1,644           | 1,030                   | 1,105              | 1,130               |
| 0.65                   | 1,000       | 9               | 1,595         | 2,000    | 2,053               | 1,716   | 1,458    | 1,801              | 1,579               | 1,644           | 1,110                   | 1,185              | 1,210               |
| 0.80                   | 1,200       | 11              | 1,595         | 2,000    | 2,053               | 1,716   | 1,458    | 1,801              | 1,579               | 1,644           | 1,190                   | 1,265              | 1,290               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

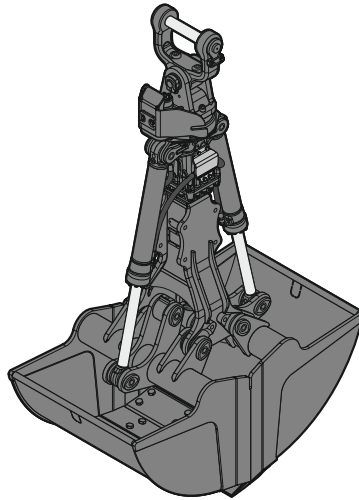
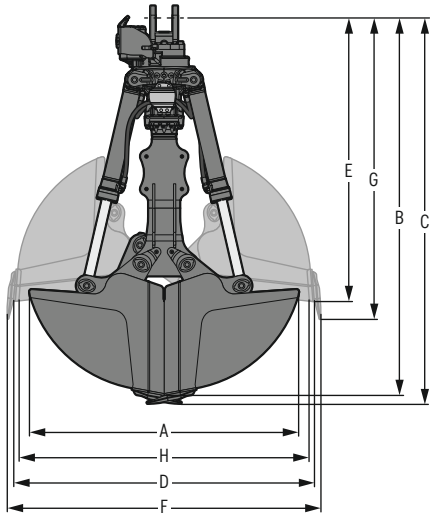
## Technical data

| Lift capacity max. | Grab open / close |            | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque                         |                                 |
|--------------------|-------------------|------------|---------------|-----------|--------------------------------|--------------------------------|---------------------------------|
|                    | Pressure max.     | Flow max.  | Pressure max. | Flow max. |                                | 1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
| 15t                | 36 MPa            | 250 l/min. | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                       | 2.77 kNm                        |



# Clamshell grab GMZ 40

## Clamshell buckets, one-piece clamshell carrier



### Machine range

| Liebherr machines           |                               |
|-----------------------------|-------------------------------|
| Material handling machine   | LH 24 - LH 50                 |
| Wheeled excavator           | A 920 - A 924                 |
| Crawler excavator - Compact | R 926 Compact - R 936 Compact |
| Crawler excavator           | R 922 - R 938                 |

| Other machine makes   |                 |
|---|-----------------|
| Weight class (see operating manual for exact specification) |                 |
| Material handling machine                                   | approx. 20-50 t |
| Wheeled excavator   | approx. 20-40 t |
| Crawler excavator - Compact                                 | approx. 20-40 t |
| Crawler excavator   | approx. 20-40 t |

### Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     |                 | Weight <sup>2) 3)</sup> |                    |                     |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|-------------------------|--------------------|---------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth | H Opening width | without suspension      | with HD suspension | with XHD suspension |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg                      | kg                 | kg                  |
| 0.65                   | 800         | 5               | 1,821         | 2,547    | 2,600               | 2,035   | 1,914    | 2,122              | 2,033               | 1,962           | 1,245                   | 1,320              | 1,345               |
| 0.85                   | 1,000       | 7               | 1,821         | 2,547    | 2,600               | 2,035   | 1,914    | 2,122              | 2,033               | 1,962           | 1,330                   | 1,405              | 1,430               |
| 1.05                   | 1,200       | 9               | 1,821         | 2,547    | 2,600               | 2,035   | 1,914    | 2,122              | 2,033               | 1,962           | 1,420                   | 1,495              | 1,520               |
| 1.20                   | 1,400       | 9               | 1,821         | 2,547    | 2,600               | 2,035   | 1,914    | 2,122              | 2,033               | 1,962           | 1,505                   | 1,580              | 1,605               |
| 1.40                   | 1,600       | 11              | 1,821         | 2,547    | 2,600               | 2,035   | 1,914    | 2,122              | 2,033               | 1,962           | 1,595                   | 1,670              | 1,695               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

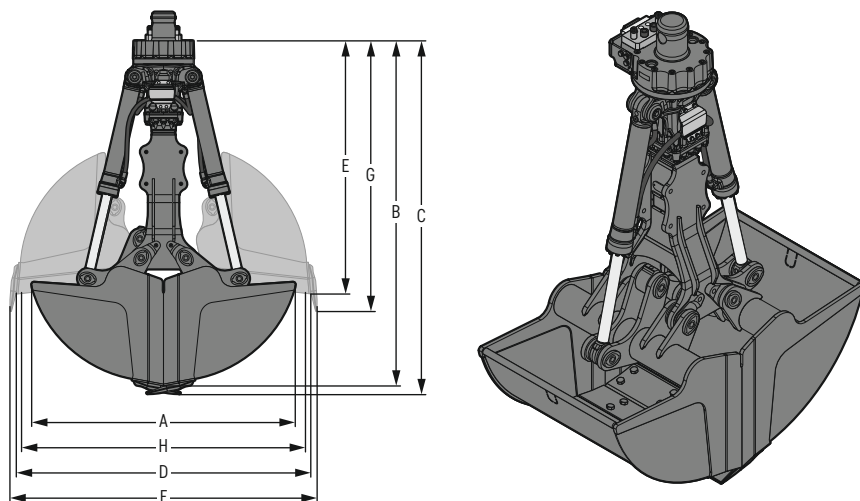
<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

### Technical data

| Lift capacity max. | Grab open / close |            | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque                         |                                 |
|--------------------|-------------------|------------|---------------|-----------|--------------------------------|--------------------------------|---------------------------------|
|                    | Pressure max.     | Flow max.  | Pressure max. | Flow max. |                                | 1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
| 15t                | 36 MPa            | 250 l/min. | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                       | 2.77 kNm                        |

# Clamshell grab GMZ 40

Clamshell buckets, mounting MH 40<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 24 - LH 50

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 20-50 t

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     | H Opening width | Weight |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|--------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth |                 |        |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg     |
| 0.65                   | 800         | 5               | 1,821         | 2,384    | 2,438               | 2,035   | 1,751    | 2,122              | 1,870               | 1,962           | 1,280  |
| 0.85                   | 1,000       | 7               | 1,821         | 2,384    | 2,438               | 2,035   | 1,751    | 2,122              | 1,870               | 1,962           | 1,365  |
| 1.05                   | 1,200       | 9               | 1,821         | 2,384    | 2,438               | 2,035   | 1,751    | 2,122              | 1,870               | 1,962           | 1,455  |
| 1.20                   | 1,400       | 9               | 1,821         | 2,384    | 2,438               | 2,035   | 1,751    | 2,122              | 1,870               | 1,962           | 1,540  |
| 1.40                   | 1,600       | 11              | 1,821         | 2,384    | 2,438               | 2,035   | 1,751    | 2,122              | 1,870               | 1,962           | 1,630  |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

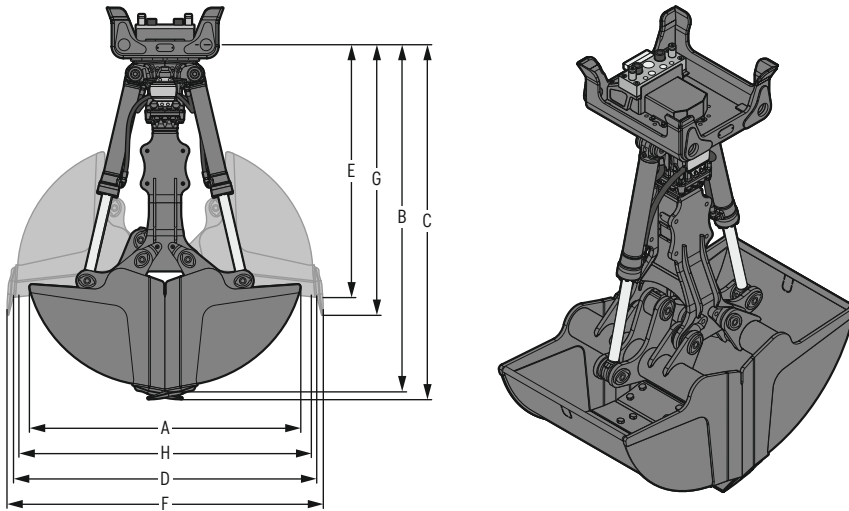
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 15t                | 36 MPa        |                   | 250 l/min. |

<sup>1)</sup> for all MH 40 versions

# Clamshell grab GMZ 40

Clamshell buckets, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 24 - LH 50

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 20-50 t

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     | H Opening width | Weight |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|--------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth |                 |        |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg     |
| 0.65                   | 800         | 5               | 1,821         | 2,330    | 2,384               | 2,035   | 1,697    | 2,122              | 1,816               | 1,962           | 1,335  |
| 0.85                   | 1,000       | 7               | 1,821         | 2,330    | 2,384               | 2,035   | 1,697    | 2,122              | 1,816               | 1,962           | 1,420  |
| 1.05                   | 1,200       | 9               | 1,821         | 2,330    | 2,384               | 2,035   | 1,697    | 2,122              | 1,816               | 1,962           | 1,510  |
| 1.20                   | 1,400       | 9               | 1,821         | 2,330    | 2,384               | 2,035   | 1,697    | 2,122              | 1,816               | 1,962           | 1,595  |
| 1.40                   | 1,600       | 11              | 1,821         | 2,330    | 2,384               | 2,035   | 1,697    | 2,122              | 1,816               | 1,962           | 1,685  |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

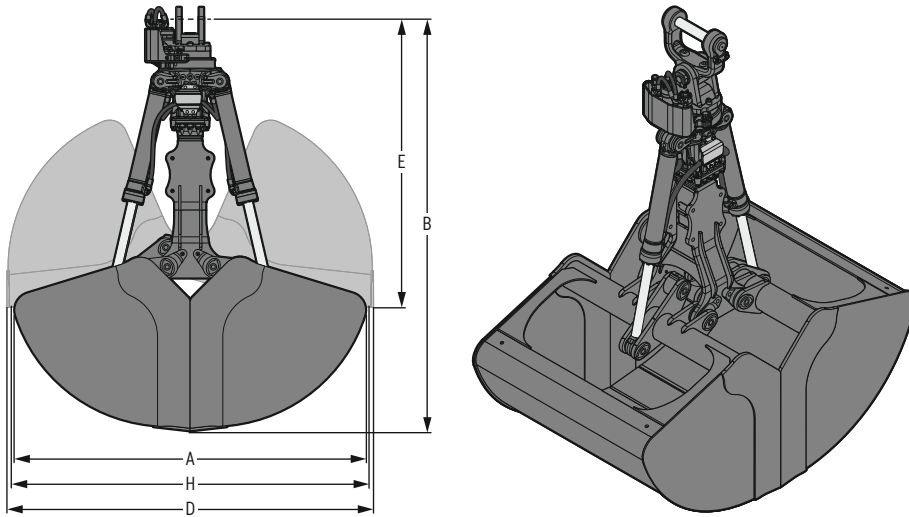
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 15t                | 36 MPa        |                   | 250 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 40

Shells for loose material, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 24 - LH 50

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 20-50 t

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Shell specification | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open E Height | H Opening width | Weight <sup>2)3)</sup> |                    |                     |
|------------------------|-------------|---------------------|-------------------|-----------------------|---------------|----------|---------|----------------------|-----------------|------------------------|--------------------|---------------------|
|                        |             |                     |                   |                       | A Width       | B Height |         |                      |                 | without suspension     | with HD suspension | with XHD suspension |
| m <sup>3</sup>         | mm          |                     | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm                   | mm              | kg                     | kg                 | kg                  |
| 2.10                   | 1,190       | Standard            |                   | 2.6                   | 2,364         | 2,675    | 2,472   | 1,845                | 2,412           | 1,640                  | 1,715              | 1,740               |
| 2.50                   | 1,500       | Standard            |                   | 2.6                   | 2,364         | 2,675    | 2,472   | 1,845                | 2,412           | 1,785                  | 1,860              | 1,885               |
| 3.00                   | 1,750       | Standard            | 40                | 2.0                   | 2,364         | 2,675    | 2,472   | 1,845                | 2,412           | 1,905                  | 1,980              | 2,005               |
| 3.50                   | 1,900       | Standard            | 40                | 2.0                   | 2,364         | 2,675    | 2,472   | 1,845                | 2,412           | 1,980                  | 2,055              | 2,080               |
| 4.00                   | 2,150       | Standard            | 40                | 1.1                   | 2,364         | 2,675    | 2,472   | 1,845                | 2,412           | 2,240                  | 2,315              | 2,340               |
| 4.50                   | 2,500       | Standard            | 40                | 1.1                   | 2,364         | 2,675    | 2,472   | 1,845                | 2,412           | 2,395                  | 2,470              | 2,495               |
| 1.20                   | 1,190       | Wide                |                   | 2.6                   | 1,835         | 2,423    | 1,961   | 1,819                | 1,901           | 1,440                  | 1,515              | 1,540               |
| 1.50                   | 1,500       | Wide                |                   | 2.6                   | 1,835         | 2,423    | 1,961   | 1,819                | 1,901           | 1,565                  | 1,640              | 1,665               |
| 1.75                   | 1,750       | Wide                | 40                | 2.0                   | 1,835         | 2,423    | 1,961   | 1,819                | 1,901           | 1,670                  | 1,745              | 1,770               |
| 2.00                   | 2,000       | Wide                | 40                | 2.0                   | 1,835         | 2,423    | 1,961   | 1,819                | 1,901           | 1,775                  | 1,850              | 1,875               |
| 2.25                   | 2,250       | Wide                | 40                | 1.1                   | 1,835         | 2,423    | 1,961   | 1,819                | 1,901           | 1,950                  | 2,025              | 2,050               |
| 2.50                   | 2,500       | Wide                | 40                | 1.1                   | 1,835         | 2,423    | 1,961   | 1,819                | 1,901           | 2,055                  | 2,130              | 2,155               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

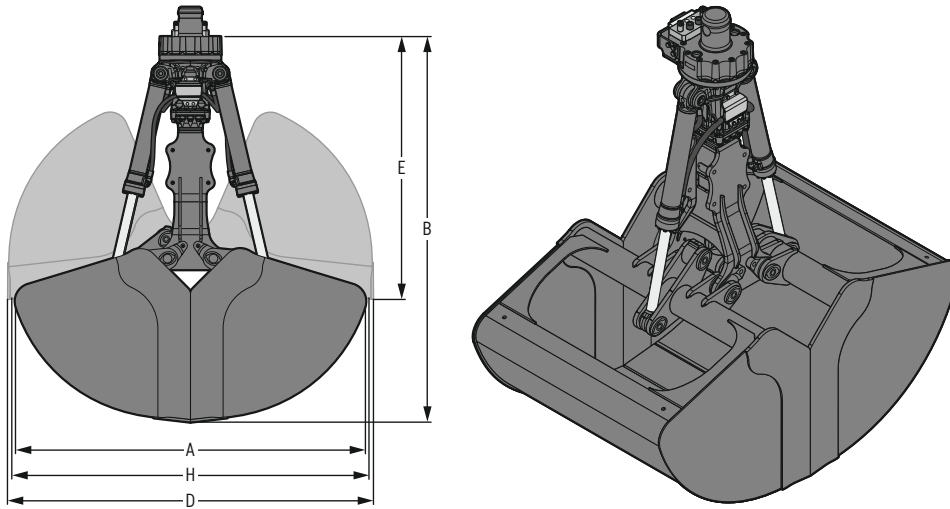
## Technical data

| Lift capacity max. | Grab open / close |            | Grab turning  |           | 1 motor 200 cm <sup>3</sup> | Torque 1 motor 315 cm <sup>3</sup> | 2 motors 200 cm <sup>3</sup> |
|--------------------|-------------------|------------|---------------|-----------|-----------------------------|------------------------------------|------------------------------|
|                    | Pressure max.     | Flow max.  | Pressure max. | Flow max. |                             |                                    |                              |
| 15t                | 36 MPa            | 250 l/min. | 15 MPa        | 30 l/min. | 1.38 kNm                    | 2.16 kNm                           | 2.77 kNm                     |



# Clamshell grab GMZ 40

Shells for loose material, mounting MH 40<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 24 - LH 50

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 20-50 t

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Shell specification | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |       | H Opening width | Weight |
|------------------------|-------------|---------------------|-------------------|-----------------------|---------------|----------|---------|-------------|-------|-----------------|--------|
|                        |             |                     |                   |                       | A Width       | B Height |         | E Height    | H     |                 |        |
| m <sup>3</sup>         | mm          |                     | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm    | kg              |        |
| 2.10                   | 1,190       | Standard            |                   | 2.6                   | 2,364         | 2,605    | 2,472   | 1,775       | 2,412 | 1,675           |        |
| 2.50                   | 1,500       | Standard            |                   | 2.6                   | 2,364         | 2,605    | 2,472   | 1,775       | 2,412 | 1,820           |        |
| 3.00                   | 1,750       | Standard            | 40                | 2.0                   | 2,364         | 2,605    | 2,472   | 1,775       | 2,412 | 1,940           |        |
| 3.50                   | 1,900       | Standard            | 40                | 2.0                   | 2,364         | 2,605    | 2,472   | 1,775       | 2,412 | 2,015           |        |
| 4.00                   | 2,150       | Standard            | 40                | 1.1                   | 2,364         | 2,605    | 2,472   | 1,775       | 2,412 | 2,275           |        |
| 4.50                   | 2,500       | Standard            | 40                | 1.1                   | 2,364         | 2,605    | 2,472   | 1,775       | 2,412 | 2,430           |        |
| 1.20                   | 1,190       | Wide                |                   | 2.6                   | 1,834         | 2,353    | 1,961   | 1,749       | 1,901 | 1,475           |        |
| 1.50                   | 1,500       | Wide                |                   | 2.6                   | 1,834         | 2,353    | 1,961   | 1,749       | 1,901 | 1,600           |        |
| 1.75                   | 1,750       | Wide                | 40                | 2.0                   | 1,834         | 2,353    | 1,961   | 1,749       | 1,901 | 1,705           |        |
| 2.00                   | 2,000       | Wide                | 40                | 2.0                   | 1,834         | 2,353    | 1,961   | 1,749       | 1,901 | 1,810           |        |
| 2.25                   | 2,250       | Wide                | 40                | 1.1                   | 1,834         | 2,353    | 1,961   | 1,749       | 1,901 | 1,985           |        |
| 2.50                   | 2,500       | Wide                | 40                | 1.1                   | 1,834         | 2,353    | 1,961   | 1,749       | 1,901 | 2,090           |        |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

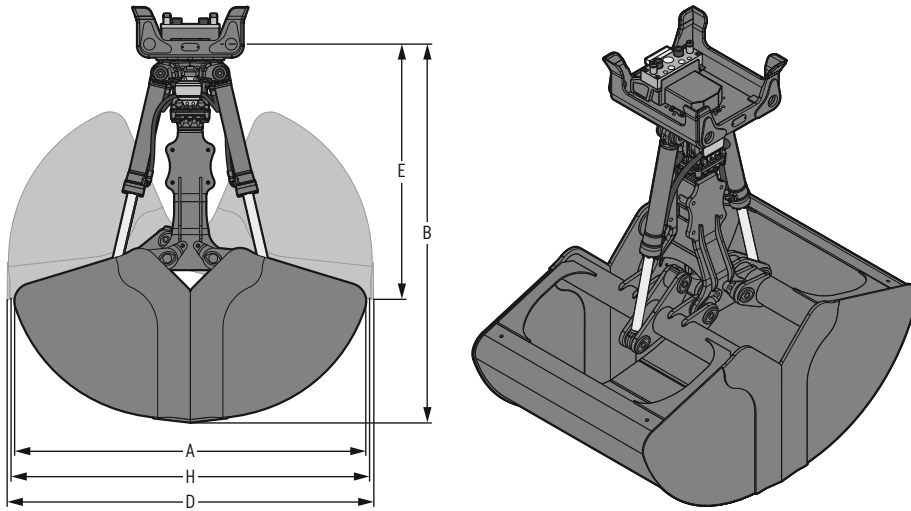
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 15t                | 36 MPa        |                   | 250 l/min. |

<sup>1)</sup> for all MH 40 versions

# Clamshell grab GMZ 40

Shells for loose material, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 24 - LH 50

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 20-50 t

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Shell specification | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |                 | H Opening width | Weight |
|------------------------|-------------|---------------------|-------------------|-----------------------|---------------|----------|---------|-------------|-----------------|-----------------|--------|
|                        |             |                     |                   |                       | A Width       | B Height |         | E Height    | H Opening width |                 |        |
| m <sup>3</sup>         | mm          |                     | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm              | kg              |        |
| 2.10                   | 1,190       | Standard            |                   | 2.6                   | 2,364         | 2,551    | 2,472   | 1,721       | 2,412           | 1,730           |        |
| 2.50                   | 1,500       | Standard            |                   | 2.6                   | 2,364         | 2,551    | 2,472   | 1,721       | 2,412           | 1,875           |        |
| 3.00                   | 1,750       | Standard            | 40                | 2.0                   | 2,364         | 2,551    | 2,472   | 1,721       | 2,412           | 1,995           |        |
| 3.50                   | 1,900       | Standard            | 40                | 2.0                   | 2,364         | 2,551    | 2,472   | 1,721       | 2,412           | 2,070           |        |
| 4.00                   | 2,150       | Standard            | 40                | 1.1                   | 2,364         | 2,551    | 2,472   | 1,721       | 2,412           | 2,330           |        |
| 4.50                   | 2,500       | Standard            | 40                | 1.1                   | 2,364         | 2,551    | 2,472   | 1,721       | 2,412           | 2,485           |        |
| 1.20                   | 1,190       | Wide                |                   | 2.6                   | 1,834         | 2,299    | 1,961   | 1,695       | 1,901           | 1,530           |        |
| 1.50                   | 1,500       | Wide                |                   | 2.6                   | 1,834         | 2,299    | 1,961   | 1,695       | 1,901           | 1,655           |        |
| 1.75                   | 1,750       | Wide                | 40                | 2.0                   | 1,834         | 2,299    | 1,961   | 1,695       | 1,901           | 1,760           |        |
| 2.00                   | 2,000       | Wide                | 40                | 2.0                   | 1,834         | 2,299    | 1,961   | 1,695       | 1,901           | 1,865           |        |
| 2.25                   | 2,250       | Wide                | 40                | 1.1                   | 1,834         | 2,299    | 1,961   | 1,695       | 1,901           | 2,040           |        |
| 2.50                   | 2,500       | Wide                | 40                | 1.1                   | 1,834         | 2,299    | 1,961   | 1,695       | 1,901           | 2,145           |        |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

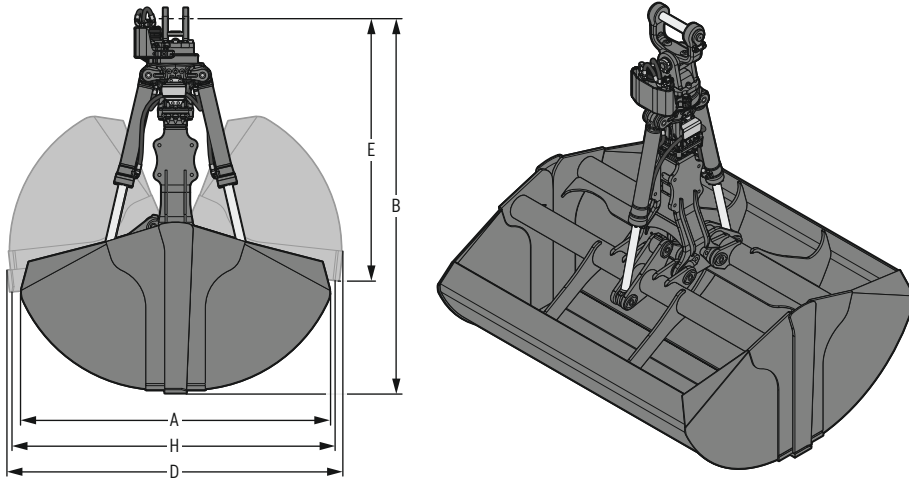
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 15t                | 36 MPa        |                   | 250 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 40

Shells for light material, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 24 - LH 50

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 20-45 t

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          |          | Shells open |                 |                    | without suspension | Weight <sup>2) 3)</sup> |  |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|----------|-------------|-----------------|--------------------|--------------------|-------------------------|--|
|                        |             |                   |                       | A Width       | B Height | D Width  | E Height    | H Opening width | with HD suspension |                    | with XHD suspension     |  |
| 4.50 m <sup>3</sup>    | 2,500 mm    | 40 mm             | 0.9 t/m <sup>3</sup>  | 2,284 mm      | 2,775 mm | 2,481 mm | 1,941 mm    | 2,395 mm        | 2,585 kg           | 2,660 kg           | 2,685 kg                |  |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

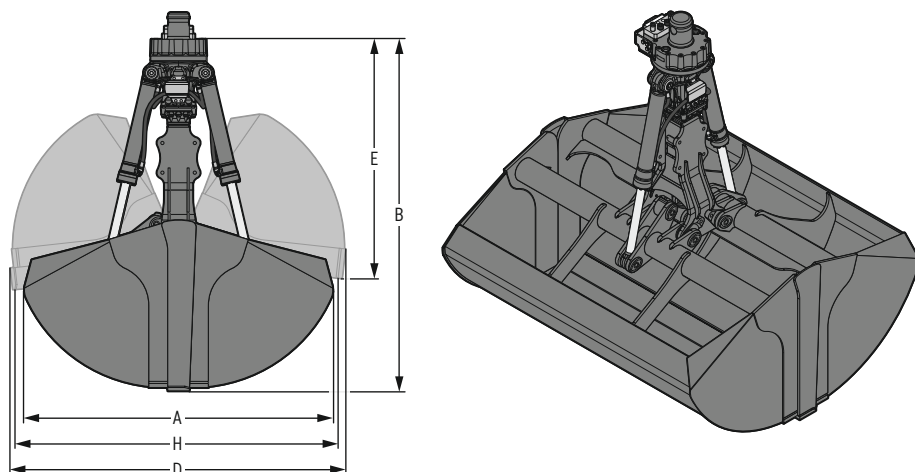
<sup>3)</sup> 20 kg additional weight for rotary drive with 2 motors

## Technical data

| Lift capacity max. | Grab open / close |            | Grab turning  |           | 1 motor<br>200 cm <sup>3</sup> | Torque                         |                                 |
|--------------------|-------------------|------------|---------------|-----------|--------------------------------|--------------------------------|---------------------------------|
|                    | Pressure max.     | Flow max.  | Pressure max. | Flow max. |                                | 1 motor<br>315 cm <sup>3</sup> | 2 motors<br>200 cm <sup>3</sup> |
| 15t                | 36 MPa            | 250 l/min. | 15 MPa        | 30 l/min. | 1.38 kNm                       | 2.16 kNm                       | 2.77 kNm                        |

# Clamshell grab GMZ 40

Shells for light material, mounting MH 40<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 24 - LH 50

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 20-45 t

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width  | Shells open |                 | Weight   |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|----------|-------------|-----------------|----------|
|                        |             |                   |                       | A Width       | B Height |          | E Height    | H Opening width |          |
| 4.50 m <sup>3</sup>    | 2,500 mm    | 40 mm             | 0.9 t/m <sup>3</sup>  | 2,284 mm      | 2,705 mm | 2,481 mm | 1,871 mm    | 2,395 mm        | 2,620 kg |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

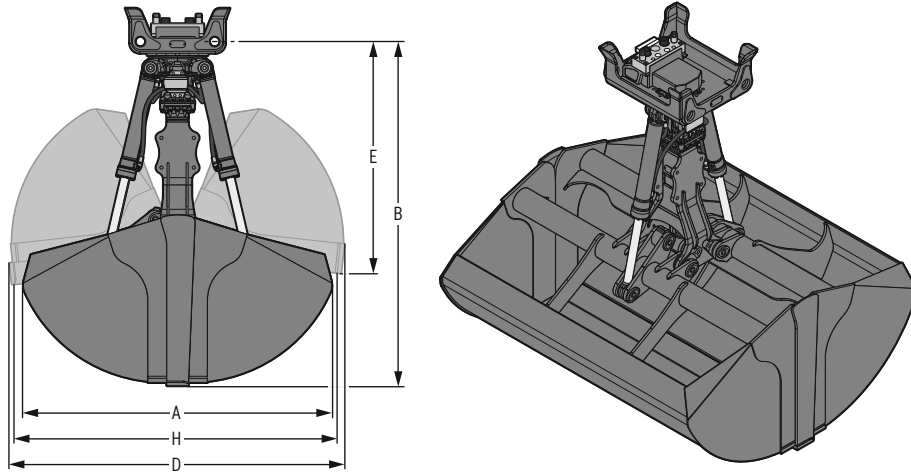
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 15 t               | 36 MPa        |                   | 250 l/min. |

<sup>1)</sup> for all MH 40 versions

# Clamshell grab GMZ 40

Shells for light material, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 24 - LH 50

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 20-45 t

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width  | Shells open |                 | Weight   |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|----------|-------------|-----------------|----------|
|                        |             |                   |                       | A Width       | B Height |          | E Height    | H Opening width |          |
| 4.50 m <sup>3</sup>    | 2,500 mm    | 40 mm             | 0.9 t/m <sup>3</sup>  | 2,284 mm      | 2,651 mm | 2,481 mm | 1,817 mm    | 2,395 mm        | 2,675 kg |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

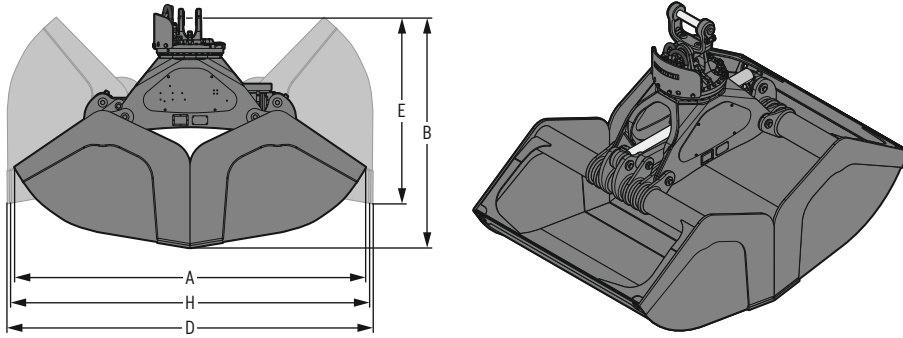
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 15 t               | 36 MPa        |                   | 250 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 50

Shells for loose material, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 40 - LH 150

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 36-150 t

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |                 | Weight <sup>2)</sup> |                     |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|---------|-------------|-----------------|----------------------|---------------------|
|                        |             |                   |                       | A Width       | B Height |         | E Height    | H Opening width | without suspension   | with XHD suspension |
| m <sup>3</sup>         | mm          | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm              | kg                   | kg                  |
| 3.50                   | 1,400       | 20                | 1.6                   | 3,233         | 2,122    | 3,376   | 1,713       | 3,306           | 2,530                | 2,615               |
| 4.00                   | 1,600       | 20                | 1.6                   | 3,233         | 2,122    | 3,376   | 1,713       | 3,306           | 2,665                | 2,750               |
| 4.50                   | 1,800       | 20                | 1.1                   | 3,233         | 2,122    | 3,376   | 1,713       | 3,306           | 2,740                | 2,825               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

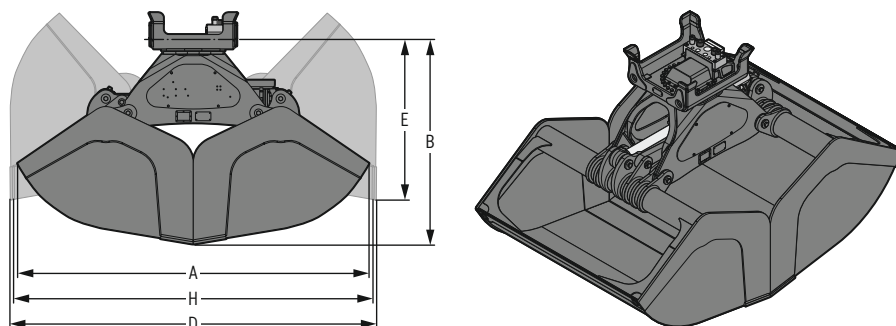
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 2 motors 200 cm <sup>3</sup> |
|--------------------|---------------|-----------------------------|---------------|------------------------|-------------------------------------|
| 30 t               | 36 MPa        | 300 l/min.                  | 15 MPa        | 50 l/min.              | 3.73 kNm                            |



# Clamshell grab GMZ 50

Shells for loose material, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

**Liebherr machines**  
Material handling machine | LH 40 - LH 150

**Other machine makes**  
Weight class | approx. 36-150 t  
(see operating manual for exact specification)

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |                 | Weight |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|---------|-------------|-----------------|--------|
|                        |             |                   |                       | A Width       | B Height |         | E Height    | H Opening width |        |
| m <sup>3</sup>         | mm          | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm              | kg     |
| 3.50                   | 1,400       | 20                | 1.6                   | 3,233         | 1,884    | 3,376   | 1,480       | 3,306           | 2,480  |
| 4.00                   | 1,600       | 20                | 1.6                   | 3,233         | 1,884    | 3,376   | 1,480       | 3,306           | 2,615  |
| 4.50                   | 1,800       | 20                | 1.1                   | 3,233         | 1,884    | 3,376   | 1,480       | 3,306           | 2,690  |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

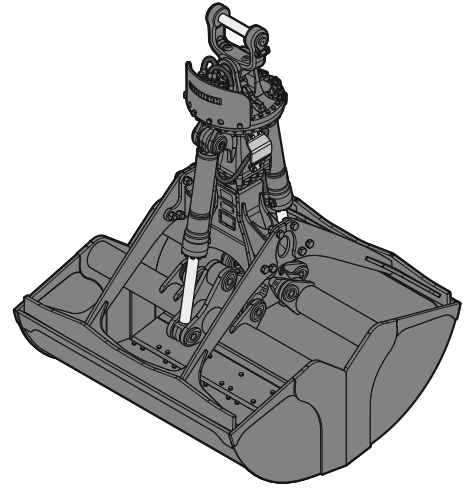
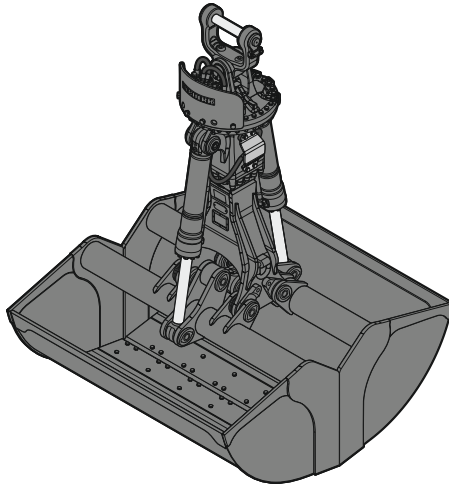
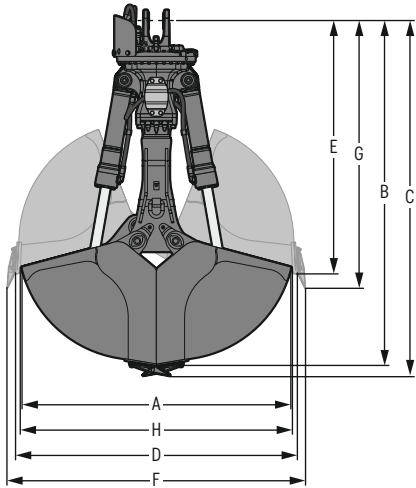
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 30t                | 36 MPa        |                   | 300 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 80

Clamshell buckets, one-piece clamshell carrier



## Machine range

### Liebherr machines

|                             |                   |
|-----------------------------|-------------------|
| Material handling machine   | LH 40 – LH 110    |
| Crawler excavator – Compact | R 936 Compact     |
| Crawler excavator           | R 930 – R 960 SME |

### Other machine makes

|  |                 |
|--|-----------------|
| Weight class                                   | approx. 30–70 t |
| (see operating manual for exact specification) |                 |

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |        |                   | D     | E      | Shells open      |                   | H             | Weight <sup>2)</sup> |                     |
|------------------------|-------------|-----------------|---------------|--------|-------------------|-------|--------|------------------|-------------------|---------------|----------------------|---------------------|
|                        |             |                 | A             | B      | C                 |       |        | F                | G                 |               | without suspension   | with XHD suspension |
| m <sup>3</sup>         | mm          | Piece           | Width         | Height | Height with teeth | Width | Height | Width with teeth | Height with teeth | Opening width | kg                   | kg                  |
| 1.40                   | 1,200       | 7               | 2,099         | 2,693  | 2,773             | 2,201 | 1,979  | 2,332            | 2,092             | 2,128         | 2,085                | 2,170               |
| 1.40                   | 1,200       | 0               | 2,099         | 2,693  |                   | 2,201 | 1,979  |                  |                   | 2,128         | 2,045                | 2,130               |
| 1.70                   | 1,400       | 9               | 2,099         | 2,693  | 2,773             | 2,201 | 1,979  | 2,332            | 2,092             | 2,128         | 2,190                | 2,275               |
| 1.70                   | 1,400       | 0               | 2,099         | 2,693  |                   | 2,201 | 1,979  |                  |                   | 2,128         | 2,140                | 2,225               |
| 2.00                   | 1,650       | 11              | 2,099         | 2,693  | 2,773             | 2,201 | 1,979  | 2,332            | 2,092             | 2,128         | 2,330                | 2,415               |
| 2.00                   | 1,650       | 0               | 2,099         | 2,693  |                   | 2,201 | 1,979  |                  |                   | 2,128         | 2,260                | 2,345               |
| 2.50                   | 2,000       | 13              | 2,099         | 2,693  | 2,773             | 2,201 | 1,979  | 2,332            | 2,092             | 2,128         | 2,510                | 2,595               |
| 2.50                   | 2,000       | 0               | 2,099         | 2,693  |                   | 2,201 | 1,979  |                  |                   | 2,128         | 2,435                | 2,520               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

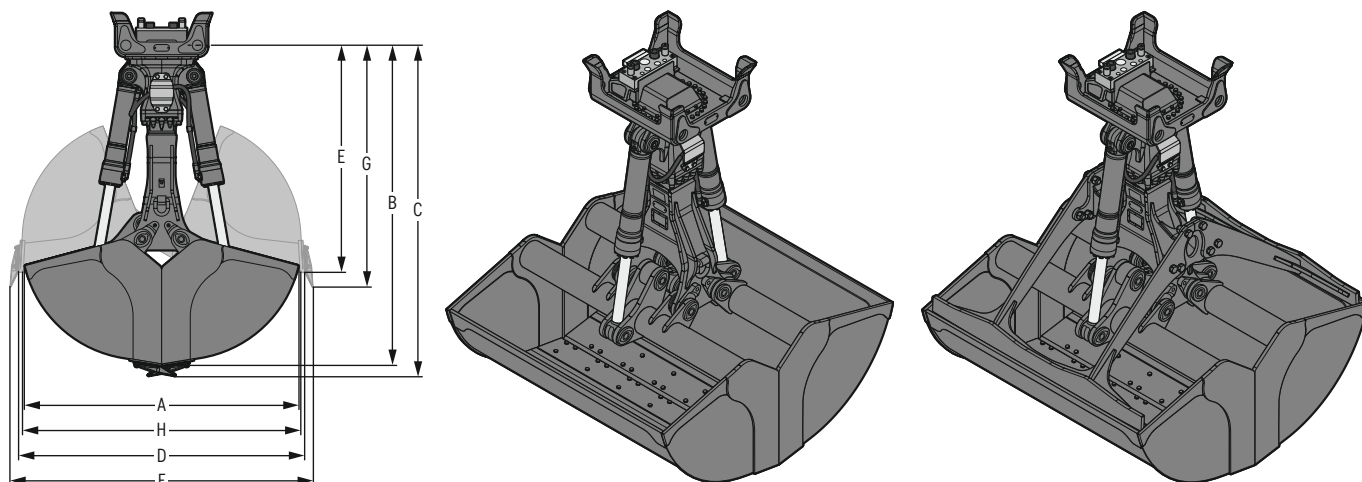
<sup>2)</sup> the weight may vary depending on the suspension

## Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 2 motors 200 cm <sup>3</sup> |
|--------------------|---------------|-----------------------------|---------------|------------------------|-------------------------------------|
| 30 t               | 36 MPa        | 300 l/min.                  | 15 MPa        | 50 l/min.              | 3.73 kNm                            |

# Clamshell grab GMZ 80

Clamshell buckets, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 40 - LH 110

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 30-70 t

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     | H Opening width | Weight |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|--------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth |                 |        |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg     |
| 1.40                   | 1,200       | 7               | 2,099         | 2,461    | 2,541               | 2,201   | 1,747    | 2,332              | 1,860               | 2,128           | 2,020  |
| 1.40                   | 1,200       | 0               | 2,099         | 2,461    |                     | 2,201   | 1,747    |                    |                     | 2,128           | 1,980  |
| 1.70                   | 1,400       | 9               | 2,099         | 2,461    | 2,541               | 2,201   | 1,747    | 2,332              | 1,860               | 2,128           | 2,125  |
| 1.70                   | 1,400       | 0               | 2,099         | 2,461    |                     | 2,201   | 1,747    |                    |                     | 2,128           | 2,075  |
| 2.00                   | 1,650       | 11              | 2,099         | 2,461    | 2,541               | 2,201   | 1,747    | 2,332              | 1,860               | 2,128           | 2,265  |
| 2.00                   | 1,650       | 0               | 2,099         | 2,461    |                     | 2,201   | 1,747    |                    |                     | 2,128           | 2,195  |
| 2.50                   | 2,000       | 13              | 2,099         | 2,461    | 2,541               | 2,201   | 1,747    | 2,332              | 1,860               | 2,128           | 2,445  |
| 2.50                   | 2,000       | 0               | 2,099         | 2,461    |                     | 2,201   | 1,747    |                    |                     | 2,128           | 2,370  |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

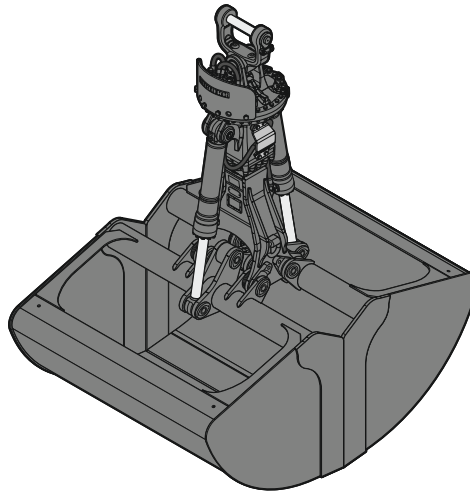
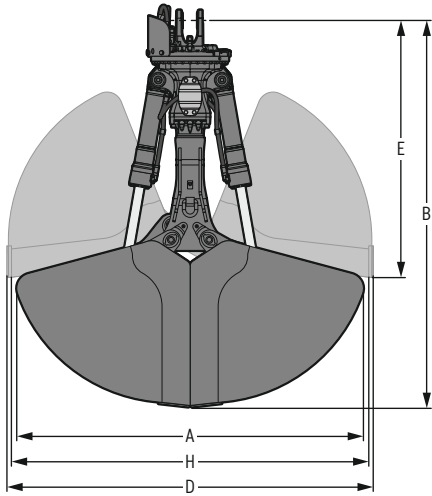
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 30t                | 36 MPa        |                   | 300 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 80

Shells for loose material, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 40 - LH 110

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 30-110 t

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Shell specification | Max. granule size | Max. material density | Shells closed |          | Shells open |          |                 | Weight <sup>2)</sup> |                     |
|------------------------|-------------|---------------------|-------------------|-----------------------|---------------|----------|-------------|----------|-----------------|----------------------|---------------------|
|                        |             |                     |                   |                       | A Width       | B Height | D Width     | E Height | H Opening width | without suspension   | with XHD suspension |
| m <sup>3</sup>         | mm          |                     | mm                | t/m <sup>3</sup>      | mm            | mm       | mm          | mm       | mm              | kg                   | kg                  |
| 3.00                   | 1,300       | Standard            |                   | 2.6                   | 2,717         | 3,032    | 2,871       | 2,017    | 2,801           | 2,425                | 2,510               |
| 3.50                   | 1,500       | Standard            |                   | 2.6                   | 2,717         | 3,032    | 2,871       | 2,017    | 2,801           | 2,540                | 2,625               |
| 4.00                   | 1,750       | Standard            |                   | 2.0                   | 2,717         | 3,032    | 2,871       | 2,017    | 2,801           | 2,690                | 2,775               |
| 4.50                   | 2,000       | Standard            | 40                | 2.0                   | 2,717         | 3,032    | 2,871       | 2,017    | 2,801           | 2,835                | 2,920               |
| 5.00                   | 2,200       | Standard            | 40                | 1.1                   | 2,717         | 3,032    | 2,871       | 2,017    | 2,801           | 3,170                | 3,255               |
| 6.00                   | 2,600       | Standard            | 40                | 1.1                   | 2,717         | 3,032    | 2,871       | 2,017    | 2,801           | 3,405                | 3,490               |
| 7.00                   | 3,000       | Standard            | 40                | 0.8                   | 2,717         | 3,032    | 2,871       | 2,017    | 2,801           | 3,635                | 3,720               |
| 2.00                   | 1,300       | Wide                |                   | 2.6                   | 2,262         | 2,794    | 2,401       | 1,990    | 2,331           | 2,225                | 2,310               |
| 2.30                   | 1,500       | Wide                |                   | 2.6                   | 2,262         | 2,794    | 2,401       | 1,990    | 2,331           | 2,315                | 2,400               |
| 2.70                   | 1,750       | Wide                |                   | 2.0                   | 2,262         | 2,794    | 2,401       | 1,990    | 2,331           | 2,450                | 2,535               |
| 3.00                   | 2,000       | Wide                | 40                | 1.1                   | 2,262         | 2,794    | 2,401       | 1,990    | 2,331           | 2,585                | 2,670               |
| 3.40                   | 2,200       | Wide                | 40                | 1.1                   | 2,262         | 2,794    | 2,401       | 1,990    | 2,331           | 2,810                | 2,895               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

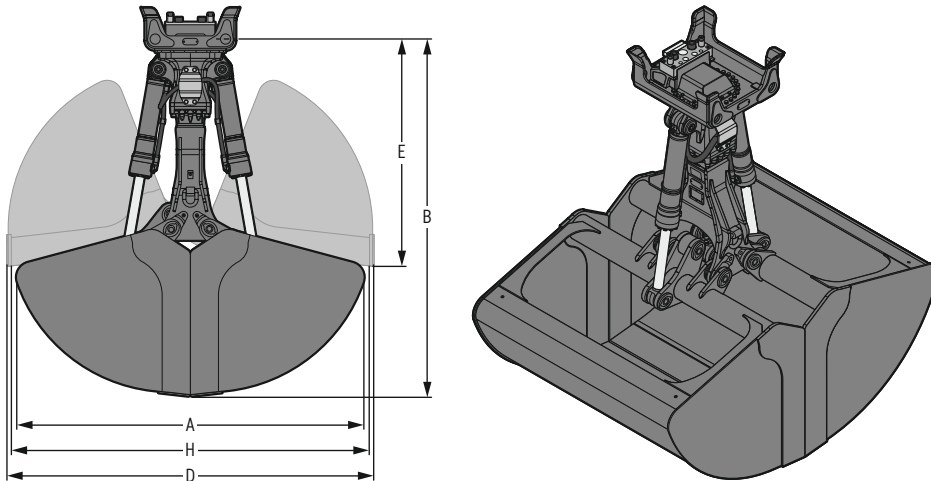
<sup>2)</sup> the weight may vary depending on the suspension

## Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 2 motors 200 cm <sup>3</sup> |
|--------------------|---------------|-----------------------------|---------------|------------------------|-------------------------------------|
| 30 t               | 36 MPa        | 300 l/min.                  | 15 MPa        | 50 l/min.              | 3.73 kNm                            |

# Clamshell grab GMZ 80

Shells for loose material, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 40 - LH 110

### Other machine makes

Weight class

(see operating manual for exact specification)

approx. 30-110 t

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Shell specification | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |       | H Opening width | Weight |
|------------------------|-------------|---------------------|-------------------|-----------------------|---------------|----------|---------|-------------|-------|-----------------|--------|
|                        |             |                     |                   |                       | A Width       | B Height |         | E Height    |       |                 |        |
| m <sup>3</sup>         | mm          |                     | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm    | kg              |        |
| 3.00                   | 1,300       | Standard            |                   | 2.6                   | 2,717         | 2,799    | 2,871   | 1,784       | 2,801 | 2,360           |        |
| 3.50                   | 1,500       | Standard            |                   | 2.6                   | 2,717         | 2,799    | 2,871   | 1,784       | 2,801 | 2,475           |        |
| 4.00                   | 1,750       | Standard            |                   | 2.0                   | 2,717         | 2,799    | 2,871   | 1,784       | 2,801 | 2,625           |        |
| 4.50                   | 2,000       | Standard            | 40                | 2.0                   | 2,717         | 2,799    | 2,871   | 1,784       | 2,801 | 2,770           |        |
| 5.00                   | 2,200       | Standard            | 40                | 1.1                   | 2,717         | 2,799    | 2,871   | 1,784       | 2,801 | 3,105           |        |
| 6.00                   | 2,600       | Standard            | 40                | 1.1                   | 2,717         | 2,799    | 2,871   | 1,784       | 2,801 | 3,340           |        |
| 7.00                   | 3,000       | Standard            | 40                | 0.8                   | 2,717         | 2,799    | 2,871   | 1,784       | 2,801 | 3,570           |        |
| 2.00                   | 1,300       | Wide                |                   | 2.6                   | 2,262         | 2,561    | 2,401   | 1,757       | 2,331 | 2,160           |        |
| 2.30                   | 1,500       | Wide                |                   | 2.6                   | 2,262         | 2,561    | 2,401   | 1,757       | 2,331 | 2,250           |        |
| 2.70                   | 1,750       | Wide                |                   | 2.0                   | 2,262         | 2,561    | 2,401   | 1,757       | 2,331 | 2,385           |        |
| 3.00                   | 2,000       | Wide                | 40                | 1.1                   | 2,262         | 2,561    | 2,401   | 1,757       | 2,331 | 2,520           |        |
| 3.40                   | 2,200       | Wide                | 40                | 1.1                   | 2,262         | 2,561    | 2,401   | 1,757       | 2,331 | 2,745           |        |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

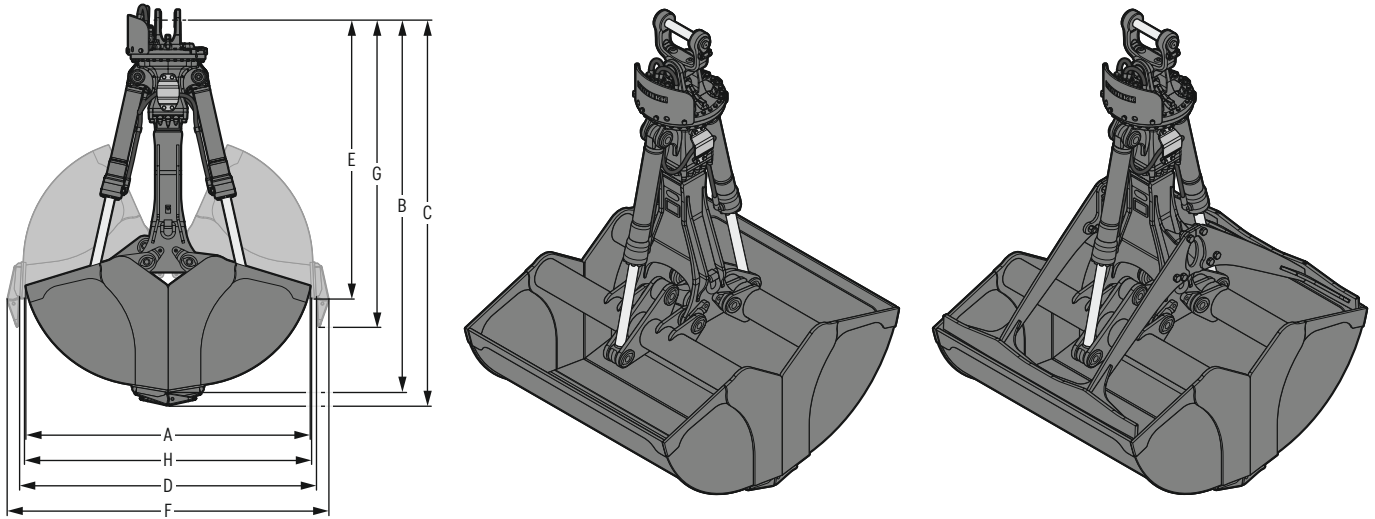
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 30t                | 36 MPa        |                   | 300 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 120

## Clamshell buckets, one-piece clamshell carrier



### Machine range

#### Liebherr machines

Material handling machine  
Crawler excavator

LH 60 - LH 150  
R 956 - R 978 SME

#### Other machine makes<sup>1)</sup>

Weight class (see operating manual for exact specification)  
Material handling machine  
Crawler excavator

approx. 55-150 t  
approx. 50-80 t

<sup>1)</sup> other weight classes possible on request

### Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     | H Opening width | Weight <sup>2)</sup> |                     |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|----------------------|---------------------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth |                 | without suspension   | with XHD suspension |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | kg              | kg                   |                     |
| 3.20                   | 2,000       | 0               | 2,336         | 3,058    |                     | 2,439   | 2,288    |                    | 2,359               | 2,890           | 2,975                |                     |
| 3.20                   | 2,000       | 9               | 2,336         | 3,058    | 3,161               | 2,439   | 2,288    | 2,643              | 2,519               | 3,125           | 3,210                |                     |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

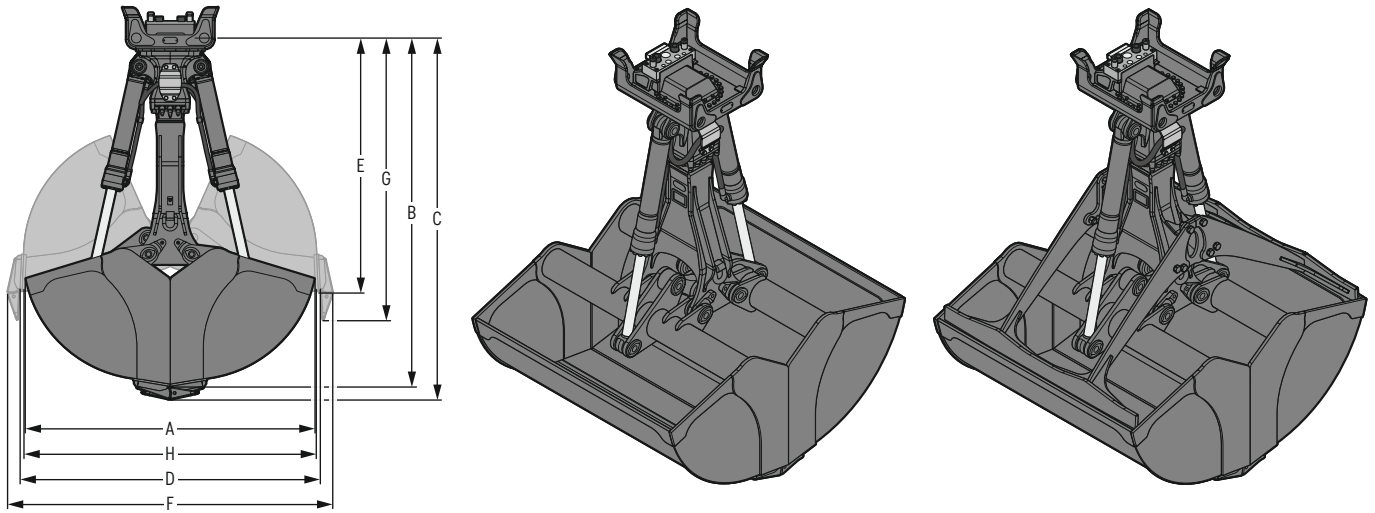
<sup>2)</sup> the weight may vary depending on the suspension

### Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 2 motors 200 cm <sup>3</sup> |
|--------------------|---------------|-----------------------------|---------------|------------------------|-------------------------------------|
| 30 t               | 36 MPa        | 300 l/min.                  | 15 MPa        | 50 l/min.              | 3.73 kNm                            |

# Clamshell grab GMZ 120

Clamshell buckets, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine | LH 60 - LH 150

### Other machine makes<sup>1)</sup>

Weight class  
(see operating manual for exact specification)

approx. 55-150 t

<sup>1)</sup> other weight classes possible on request

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Number of teeth | Shells closed |          |                     | D Width | E Height | Shells open        |                     | H Opening width | Weight |
|------------------------|-------------|-----------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|--------|
|                        |             |                 | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth |                 |        |
| m <sup>3</sup>         | mm          | Piece           | mm            | mm       | mm                  | mm      | mm       | mm                 | mm                  | mm              | kg     |
| 3.20                   | 2,000       | 0               | 2,336         | 2,826    |                     | 2,439   | 2,056    |                    | 2,359               |                 | 2,825  |
| 3.20                   | 2,000       | 9               | 2,336         | 2,826    | 2,929               | 2,439   | 2,056    | 2,643              | 2,287               | 2,359           | 3,060  |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

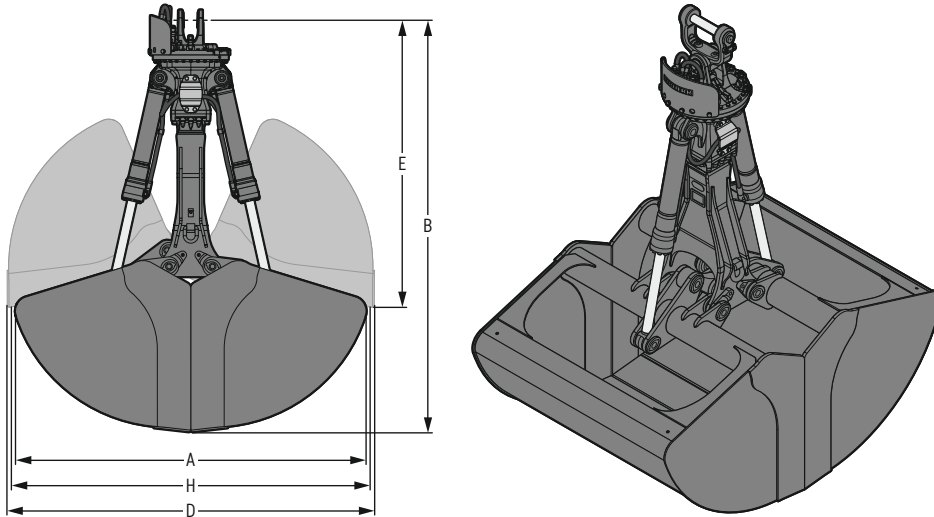
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 30t                | 36 MPa        |                   | 300 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 120

Shells for loose material, one-piece clamshell carrier



## Machine range

Liebherr machines

Material handling machine

LH 60 - LH 150

Other machine makes<sup>1)</sup>

Weight class  
(see operating manual for exact specification)

approx. 55-150 t

<sup>1)</sup> other weight classes possible on request

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |                 | Weight <sup>2)</sup> |                     |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|---------|-------------|-----------------|----------------------|---------------------|
|                        |             |                   |                       | A Width       | B Height |         | E Height    | H Opening width | without suspension   | with XHD suspension |
| m <sup>3</sup>         | mm          | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm              | kg                   | kg                  |
| 4.00                   | 1,600       |                   | 2.6                   | 2,831         | 3,324    | 2,966   | 2,319       | 2,896           | 2,920                | 3,005               |
| 4.50                   | 1,800       |                   | 2.6                   | 2,831         | 3,324    | 2,966   | 2,319       | 2,896           | 3,055                | 3,140               |
| 5.00                   | 2,000       | 40                | 2.0                   | 2,831         | 3,324    | 2,966   | 2,319       | 2,896           | 3,195                | 3,280               |
| 5.50                   | 2,200       | 40                | 2.0                   | 2,831         | 3,324    | 2,966   | 2,319       | 2,896           | 3,545                | 3,630               |
| 6.00                   | 2,400       | 40                | 1.1                   | 2,831         | 3,324    | 2,966   | 2,319       | 2,896           | 3,690                | 3,775               |
| 7.00                   | 2,800       | 40                | 1.1                   | 2,831         | 3,324    | 2,966   | 2,319       | 2,896           | 3,955                | 4,040               |
| 8.00                   | 3,200       | 40                | 0.8                   | 2,831         | 3,324    | 2,966   | 2,319       | 2,896           | 4,245                | 4,330               |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

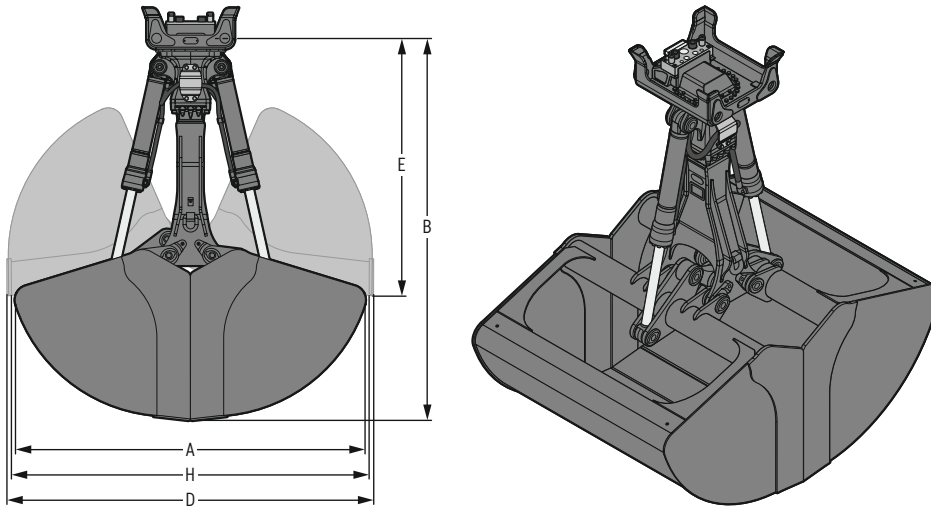
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 2 motors 200 cm <sup>3</sup> |
|--------------------|---------------|-----------------------------|---------------|------------------------|-------------------------------------|
| 30 t               | 36 MPa        | 300 l/min.                  | 15 MPa        | 50 l/min.              | 3.73 kNm                            |



# Clamshell grab GMZ 120

Shells for loose material, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 60 - LH 150

### Other machine makes<sup>1)</sup>

Weight class

(see operating manual for exact specification)

approx. 55-150 t

<sup>1)</sup> other weight classes possible on request

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |                 | Weight |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|---------|-------------|-----------------|--------|
|                        |             |                   |                       | A Width       | B Height |         | E Height    | H Opening width |        |
| m <sup>3</sup>         | mm          | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm              | kg     |
| 4.00                   | 1,600       |                   | 2.6                   | 2,831         | 3,092    | 2,966   | 2,087       | 2,896           | 2,855  |
| 4.50                   | 1,800       |                   | 2.6                   | 2,831         | 3,092    | 2,966   | 2,087       | 2,896           | 2,990  |
| 5.00                   | 2,000       | 40                | 2.0                   | 2,831         | 3,092    | 2,966   | 2,087       | 2,896           | 3,130  |
| 5.50                   | 2,200       | 40                | 2.0                   | 2,831         | 3,092    | 2,966   | 2,087       | 2,896           | 3,480  |
| 6.00                   | 2,400       | 40                | 1.1                   | 2,831         | 3,092    | 2,966   | 2,087       | 2,896           | 3,755  |
| 7.00                   | 2,800       | 40                | 1.1                   | 2,831         | 3,092    | 2,966   | 2,087       | 2,896           | 3,890  |
| 8.00                   | 3,200       | 40                | 0.8                   | 2,831         | 3,092    | 2,966   | 2,087       | 2,896           | 4,180  |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

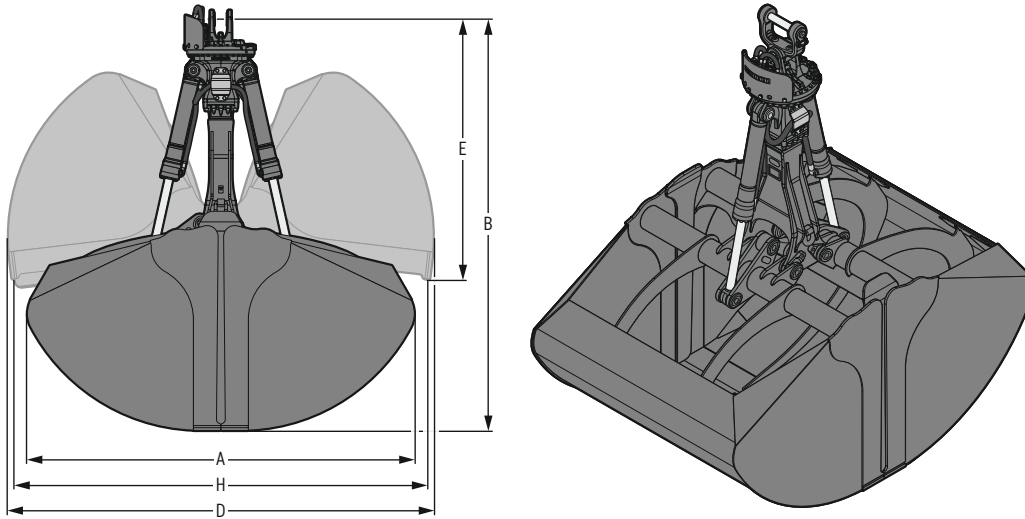
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 30t                | 36 MPa        |                   | 300 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 120

Shells for light material, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 60 - LH 150

### Other machine makes<sup>1)</sup>

Weight class

(see operating manual for exact specification)

approx. 55-150 t

<sup>1)</sup> other weight classes possible on request

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |                    | H Opening width | Weight <sup>2)</sup> |  |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|---------|-------------|--------------------|-----------------|----------------------|--|
|                        |             |                   |                       | A Width       | B Height |         | E Height    | without suspension |                 | with XHD suspension  |  |
| m <sup>3</sup>         | mm          | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm                 | kg              | kg                   |  |
| 10.00                  | 2,400       | 40                | 0.9                   | 3,523         | 3,747    | 3,868   | 2,367       | 3,754              | 4,230           | 4,315                |  |
| 12.00                  | 2,800       | 40                | 0.9                   | 3,523         | 3,747    | 3,868   | 2,367       | 3,754              | 4,540           | 4,625                |  |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

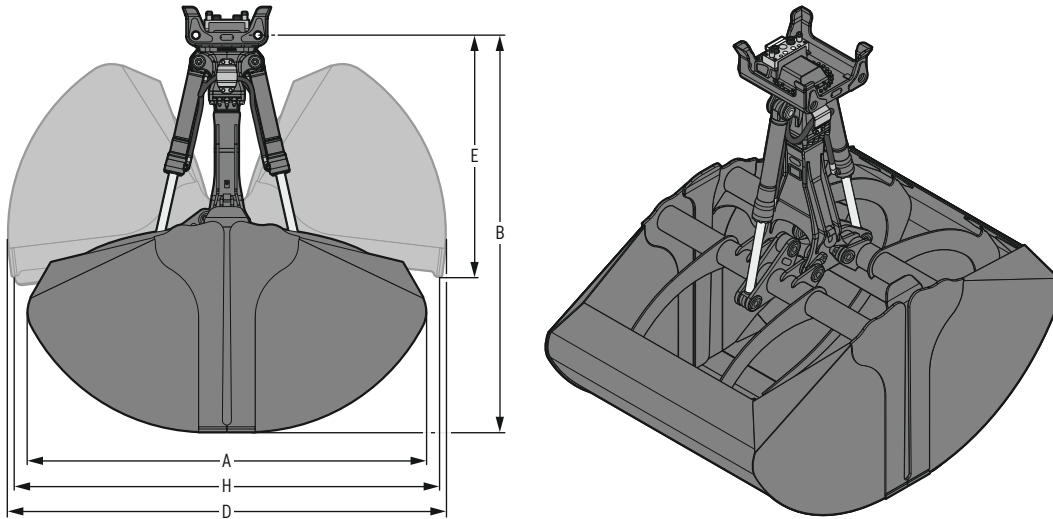
<sup>2)</sup> the weight may vary depending on the suspension

## Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 2 motors 200 cm <sup>3</sup> |
|--------------------|---------------|-----------------------------|---------------|------------------------|-------------------------------------|
| 30 t               | 36 MPa        | 300 l/min.                  | 15 MPa        | 50 l/min.              | 3.73 kNm                            |

# Clamshell grab GMZ 120

Shells for light material, mounting MH 110<sup>1)</sup>, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 60 - LH 150

### Other machine makes<sup>1)</sup>

Weight class

(see operating manual for exact specification)

approx. 55-150 t

<sup>1)</sup> other weight classes possible on request

## Dimensions / weights

| Capacity <sup>2)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width | Shells open |       | H Opening width | Weight |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|---------|-------------|-------|-----------------|--------|
|                        |             |                   |                       | A Width       | B Height |         | E Height    |       |                 |        |
| m <sup>3</sup>         | mm          | mm                | t/m <sup>3</sup>      | mm            | mm       | mm      | mm          | mm    | kg              |        |
| 10.00                  | 2,400       | 40                | 0.9                   | 3,523         | 3,515    | 3,868   | 2,135       | 3,754 | 4,165           |        |
| 12.00                  | 2,800       | 40                | 0.9                   | 3,523         | 3,515    | 3,868   | 2,135       | 3,754 | 4,475           |        |

<sup>2)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

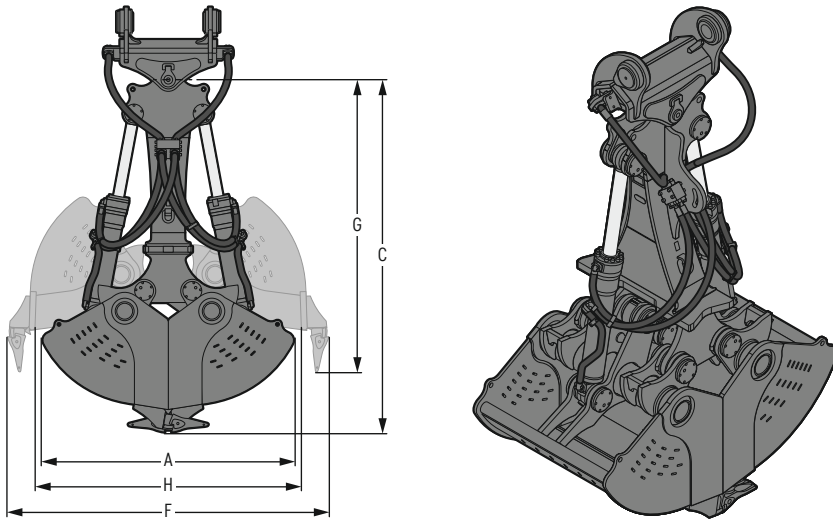
## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 30t                | 36 MPa        |                   | 300 l/min. |

<sup>1)</sup> for all MH 110 versions

# Clamshell grab GMZ 180

Clamshell buckets, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine  
Crawler excavator

LH 110 - LH 150  
R 978 SME - R 9200

### Other machine makes<sup>1)</sup>

Weight class  
(see operating manual for exact specification)

approx. 100-200 t

<sup>1)</sup> other weight classes possible on request

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shell specification | Shells closed |          |                     | D Width | E Height | Shells open        |                     |                 | Weight <sup>2)</sup> |                         |
|------------------------|-------------|-----------------|---------------------|---------------|----------|---------------------|---------|----------|--------------------|---------------------|-----------------|----------------------|-------------------------|
|                        |             |                 |                     | A Width       | B Height | C Height with teeth |         |          | F Width with teeth | G Height with teeth | H Opening width | without suspension   | with special suspension |
| 2.00 m <sup>3</sup>    | 1,500 mm    | 4 Pieces        | Special             | 2,592 mm      |          | 3,646 mm            |         |          | 3,323 mm           | 3,022 mm            | 2,753 mm        | 6,770 kg             | 7,320 kg                |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

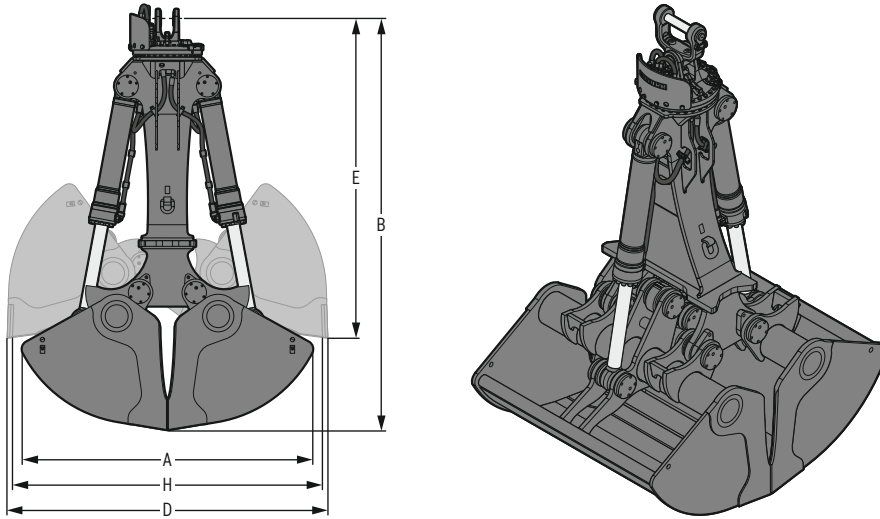
<sup>2)</sup> the weight may vary depending on the suspension

## Technical data

| Lift capacity max. | Pressure max. | Grab open / close | Flow max.  |
|--------------------|---------------|-------------------|------------|
| 50t                | 36 MPa        |                   | 400 l/min. |

# Clamshell grab GMZ 180B

Special shells, one-piece clamshell carrier



## Machine range

| Liebherr machines         |                    | Other machine makes <sup>1)</sup>              |                   |
|---------------------------|--------------------|--|-------------------|
| Material handling machine | LH 110 - LH 150    | Weight class                                   | approx. 100-200 t |
| Crawler excavator         | R 978 SME - R 9200 | (see operating manual for exact specification) |                   |

<sup>1)</sup> other weight classes possible on request

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Number of teeth | Shell specification | Shells closed |          |                     | D Width  | E Height | Shells open        |                     | H Opening width | Weight <sup>2)</sup> |                     |
|------------------------|-------------|-----------------|---------------------|---------------|----------|---------------------|----------|----------|--------------------|---------------------|-----------------|----------------------|---------------------|
|                        |             |                 |                     | A Width       | B Height | C Height with teeth |          |          | F Width with teeth | G Height with teeth |                 | without suspension   | with XHD suspension |
| 3.00 m <sup>3</sup>    | 2,000 mm    | 0 Pieces        | Special             | 2,581 mm      | 3,654 mm |                     | 2,851 mm | 2,842 mm |                    |                     | 2,754 mm        | 6,025 kg             | 6,110 kg            |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

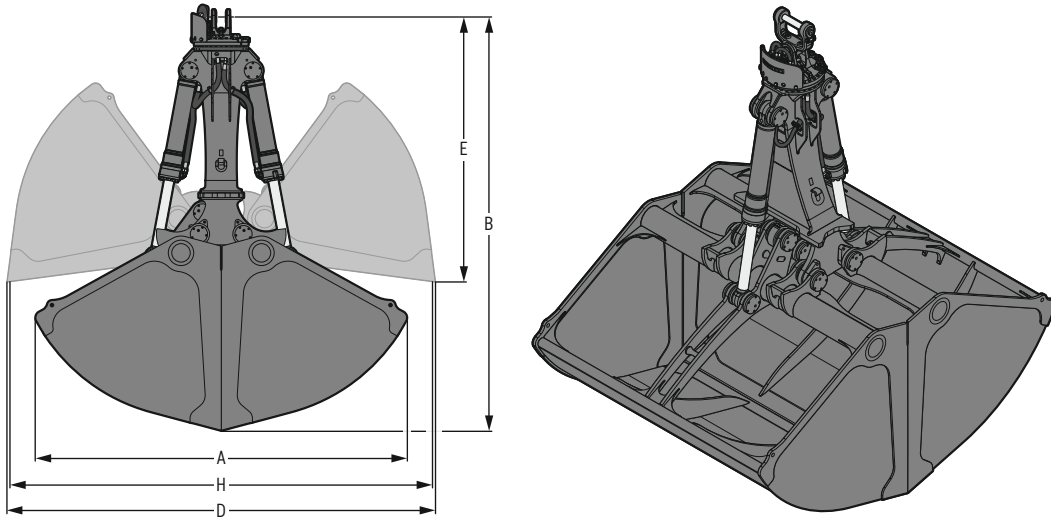
<sup>2)</sup> the weight may vary depending on the suspension

## Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 2 motors                 |
|--------------------|---------------|-----------------------------|---------------|------------------------|---------------------------------|
| 30 t               | 36 MPa        | 400 l/min.                  | 15 MPa        | 50 l/min.              | 200 cm <sup>3</sup><br>3.73 kNm |

# Clamshell grab GMZ 180B

Shells for loose material, one-piece clamshell carrier



## Machine range

### Liebherr machines

Material handling machine

LH 110 - LH 150

### Other machine makes<sup>1)</sup>

Weight class

(see operating manual for exact specification)

approx. 100-200 t

<sup>1)</sup> other weight classes possible on request

## Dimensions / weights

| Capacity <sup>1)</sup> | Shell width | Max. granule size | Max. material density | Shells closed |          | D Width  | Shells open |                 | Weight <sup>2)</sup> |                     |
|------------------------|-------------|-------------------|-----------------------|---------------|----------|----------|-------------|-----------------|----------------------|---------------------|
|                        |             |                   |                       | A Width       | B Height |          | E Height    | H Opening width | without suspension   | with XHD suspension |
| 16.00 m <sup>3</sup>   | 3,200 mm    | 40 mm             | 0.9 t/m <sup>3</sup>  | 4,159 mm      | 4,639 mm | 4,804 mm | 2,966 mm    | 4,729 mm        | 8,335 kg             | 8,420 kg            |

<sup>1)</sup> capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

<sup>2)</sup> the weight may vary depending on the suspension

## Technical data

| Lift capacity max. | Pressure max. | Grab open / close Flow max. | Pressure max. | Grab turning Flow max. | Torque 2 motors                 |
|--------------------|---------------|-----------------------------|---------------|------------------------|---------------------------------|
| 30 t               | 36 MPa        | 400 l/min.                  | 15 MPa        | 50 l/min.              | 200 cm <sup>3</sup><br>3.73 kNm |

# Guide values for bulk goods weights

|                             | t/m <sup>3</sup> |
|-----------------------------|------------------|
| <b>Coke</b>                 | 0.50             |
| <b>Wood chips / sawdust</b> | 0.50             |
| <b>Paper</b>                | 0.60             |
| shredded / loose            | 0.60             |
| waste paper / cardboard     | 1.00             |
| <b>Compost</b>              | 0.80             |
| dry                         | 0.80             |
| wet                         | 1.00             |
| <b>Cereal crops</b>         | 0.90             |
| <b>Coal</b>                 | 0.90             |
| light material density      | 0.90             |
| heavy material density      | 1.20             |
| <b>Glass waste</b>          | 1.00             |
| solid                       | 1.00             |
| broken                      | 1.40             |
| <b>Topsoil</b>              | 1.10             |
| <b>Fertilizers</b>          | 1.30             |

|                      | t/m <sup>3</sup> |
|----------------------|------------------|
| <b>Earth</b>         | 1.30             |
| dry                  | 1.30             |
| wet excavated        | 1.60             |
| <b>Clay / gravel</b> | 1.40             |
| dry                  | 1.40             |
| wet                  | 1.60             |
| <b>Clay</b>          | 1.40             |
| hard                 | 1.40             |
| natural              | 1.60             |
| <b>Bauxite</b>       | 1.40             |
| <b>Gravel</b>        | 1.50             |
| crushed stone        | 1.50             |
| dry                  | 1.60             |
| moist                | 1.90             |
| <b>Sand</b>          | 1.50             |
| dry                  | 1.50             |
| wet                  | 1.90             |
| <b>Sandstone</b>     | 1.60             |

|                        | t/m <sup>3</sup> |
|------------------------|------------------|
| <b>Sand / clay</b>     | 1.60             |
| <b>Limestone</b>       | 1.60             |
| <b>Gravel and sand</b> | 1.70             |
| dry                    | 1.70             |
| wet                    | 2.00             |
| <b>Slate</b>           | 1.75             |
| <b>Granite</b>         | 1.80             |
| <b>Gypsum</b>          | 1.80             |
| broken                 | 1.80             |
| <b>Slag</b>            | 1.80             |
| broken                 | 1.80             |
| <b>Basalt</b>          | 1.95             |

# Equipment

## Suspension

|   | GM 05B Clamshell buckets | GMZ 18 Clamshell buckets | GMZ 22 Clamshell buckets | GMZ 22 Combination buckets | GMZ 22 Track construction buckets | GMZ 22 Track grab | GMZ 24 Clamshell buckets | GMZ 24 Clamshell buckets SW | GMZ 24 Round hole shells | GMZ 30 Clamshell buckets | GMZ 40 Clamshell buckets | GMZ 80 Clamshell buckets | GMZ 120 Clamshell buckets | GMZ 180 Clamshell buckets | GMZ 180B Special shells | GMZ 26 Shells for loose material | GMZ 40 Shells for loose material | GMZ 40 Shells for light material | GMZ 50 Shells for loose material | GMZ 80 Shells for loose material | GMZ 120 Shells for loose material | GMZ 120 Shells for light material | GMZ 180B Shells for loose material |   |
|---|--------------------------|--------------------------|--------------------------|----------------------------|-----------------------------------|-------------------|--------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|-------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|---|
| Suspension for direct mounting                            | ●                        | ●                        | ●                        | ●                          | ●                                 | ●                 | ●                        | ●                           | ●                        | ●                        | ●                        | ●                        | ●                         | ●                         | ●                       | ●                                | ●                                | ●                                | ●                                | ●                                | ●                                 | ●                                 | ●                                  | ● |
| SW suspension separable for direct mounting <sup>1)</sup> |                          | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| Suspension for industrial SWA mechanical                  |                          | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| Suspension for SW industrial stick (hydraulic)            |                          | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| Oscillation brake   | +                        | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| MH 40 Solidlink <sup>2)</sup>                             |                          |                          |                          |                            |                                   |                   | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           |                         | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| MH 110 Solidlink <sup>2)</sup>                            |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Screw couplings   | ●                        | ●                        | ●                        | ●                          | ●                                 | ●                 | ●                        | ●                           | ●                        | ●                        | ●                        | ●                        | ●                         |                           | ●                       | ●                                | ●                                | ●                                | ●                                | ●                                | ●                                 | ●                                 | ●                                  | ● |
| Multi coupling  |                          | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| SWA 33 mechanical   | +                        | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| SWA 33 hydraulic  | +                        | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| SWA 33 Solidlink  | +                        | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| SWA 48 mechanical   | +                        | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| SWA 48 hydraulic  | +                        | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| SWA 48 Solidlink  | +                        | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |
| SWA 66 mechanical   |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| SWA 66 hydraulic  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| SWA 66 Solidlink  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| SWA 77 mechanical   |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| SWA 77 hydraulic  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| SWA 92 mechanical   |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| SWA 92 hydraulic  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Oilquick OQ 45/5  | +                        |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Oilquick OQ 60/5  | +                        |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Oilquick OQ Rail  |                          |                          | +                        | +                          | +                                 | +                 |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Oilquick OQ 65  |                          | +                        | +                        | +                          | +                                 | +                 | +                        | +                           |                          |                          |                          |                          |                           |                           |                         | +                                |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Oilquick OQ 70  |                          | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           |                         | +                                | +                                |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Oilquick OQ 70/55   |                          | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           |                         | +                                | +                                |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Oilquick OQ 80  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |   |
| Tool Management <sup>3)</sup>                             | +                        | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           | +                       | +                                | +                                | +                                | +                                | +                                | +                                 | +                                 | +                                  | + |

Other conventional suspension types for all main machine makes available on request.



## Grab

|   | GM 05B Clamshell buckets | GMZ 18 Clamshell buckets | GMZ 22 Clamshell buckets | GMZ 22 Combination buckets | GMZ 22 Track construction buckets | GMZ 22 Track grab | GMZ 24 Clamshell buckets | GMZ 24 Clamshell buckets SW | GMZ 24 Round hole shells | GMZ 30 Clamshell buckets | GMZ 40 Clamshell buckets | GMZ 80 Clamshell buckets | GMZ 120 Clamshell buckets | GMZ 180 Clamshell buckets | GMZ 180B Special shells | GMZ 26 Shells for loose material | GMZ 40 Shells for loose material | GMZ 40 Shells for light material | GMZ 50 Shells for loose material | GMZ 80 Shells for loose material | GMZ 120 Shells for loose material | GMZ 120 Shells for light material | GMZ 180B Shells for loose material |                 |
|---|--------------------------|--------------------------|--------------------------|----------------------------|-----------------------------------|-------------------|--------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|-------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-----------------|
| Rotary drive 1 motor 200cm <sup>3</sup>                               | ●                        | ●                        | ●                        | ●                          | ●                                 | ●                 | ●                        | ●                           | ●                        | ●                        | ●                        |                          |                           |                           |                         | ●                                | ●                                | ●                                |                                  |                                  |                                   |                                   |                                    |                 |
| Rotary drive 1 motor 315cm <sup>3</sup>                               |                          |                          | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        |                          |                           |                           |                         | +                                | +                                | +                                |                                  |                                  |                                   |                                   |                                    |                 |
| Rotary drive 2 motors 200cm <sup>3</sup>                              |                          |                          | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | ●                        | ●                         |                           |                         | +                                | +                                | +                                |                                  |                                  |                                   |                                   |                                    | +               |
| Rotary drive 2 motors 315cm <sup>3</sup>                              |                          |                          | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | ●                        | ●                         |                           |                         | +                                | +                                | +                                |                                  |                                  |                                   |                                   |                                    | ●               |
| Motor guard   |                          | +                        | +                        | +                          | +                                 | +                 | +                        | +                           | +                        | +                        | +                        | ●                        | ●                         |                           |                         | +                                | +                                | +                                |                                  |                                  |                                   |                                   |                                    | ●               |
| Soft start  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          | +                        | +                         |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    | +               |
| Grab extension  | +                        | +                        | +                        | +                          | +                                 |                   | +                        | +                           | +                        | +                        | +                        | +                        | +                         |                           |                         | +                                | +                                | +                                |                                  |                                  |                                   |                                   |                                    |                 |
| Clamshell carrier splitted  | ●                        | ●                        | ●                        | ●                          | ●                                 | ●                 | ●                        |                             | ●                        | ●                        |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Clamshell carrier splitted SW   |                          |                          |                          |                            |                                   |                   |                          | ●                           |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Clamshell carrier single-piece  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          | ●                        | ●                        | ●                         | ●                         | ●                       | ●                                | ●                                | ●                                | ●                                | ●                                | ●                                 | ●                                 | ●                                  | ●               |
| HD version  |                          |                          | +                        | +                          | +                                 | +                 |                          |                             |                          |                          |                          | ●                        | ●                         | ●                         | ●                       | ●                                | ●                                | ●                                | ●                                | ●                                | ●                                 | ●                                 | ●                                  | ●               |
| End position cushioning on ground side                                |                          |                          | ● <sup>5)</sup>          | ● <sup>5)</sup>            | ● <sup>5)</sup>                   | ● <sup>5)</sup>   | ● <sup>6)</sup>          | ● <sup>6)</sup>             | ● <sup>6)</sup>          | ● <sup>6)</sup>          | ● <sup>6)</sup>          | ● <sup>6)</sup>          | ● <sup>6)</sup>           | ● <sup>6)</sup>           | ● <sup>6)</sup>         | ● <sup>6)</sup>                  | ● <sup>6)</sup>                  | ● <sup>6)</sup>                  | ● <sup>6)</sup>                  | ● <sup>6)</sup>                  | ● <sup>6)</sup>                   | ● <sup>6)</sup>                   | ● <sup>6)</sup>                    | ● <sup>6)</sup> |
| Cylinder hose protection  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  | +                                |                                  |                                   |                                   |                                    |                 |
| Protection for piston rod   |                          |                          | ●                        | ●                          | ●                                 | ●                 | +                        | +                           | +                        | ●                        | +                        | +                        | +                         |                           |                         | +                                | +                                | +                                |                                  |                                  |                                   |                                   |                                    | +               |
| Central lubrication fully automatic via carrier machine <sup>4)</sup> |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          | +                        | +                        | +                         |                           |                         |                                  |                                  |                                  | +                                | +                                | +                                 | +                                 | +                                  | +               |
| Mounting console for track roller clamp                               |                          |                          |                          |                            |                                   | +                 |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Lashing eyelets   |                          |                          | +                        | +                          | +                                 | +                 | + <sup>7)</sup>          |                             | + <sup>8)</sup>          | +                        |                          | ●                        | ●                         | ●                         | ●                       |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    | ●               |
| Water sprinkling system   |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          | +                        | +                         |                           |                         |                                  |                                  |                                  |                                  |                                  | +                                 | +                                 | +                                  |                 |
| Water slits   |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          | +                        | +                         | ●                         |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Wear part set   |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          | +                        | +                         |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Ejector   | +                        | +                        | +                        | +                          | +                                 |                   | +                        | +                           |                          | +                        | +                        | +                        | +                         |                           |                         |                                  | +                                |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Internal web (side reinforcement)                                     |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          | +                        | +                         |                           |                         |                                  |                                  |                                  |                                  |                                  | +                                 | +                                 | ●                                  |                 |
| Shell cover   |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         | +                                | +                                |                                  | +                                |                                  |                                   |                                   |                                    |                 |
| Clamp jaws for track 54E3/S54 (galvanised steel)                      |                          |                          |                          |                            |                                   | ●                 |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Clamp jaws for track UIC60/60E1 (galvanised steel)                    |                          |                          |                          |                            |                                   | ●                 |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Clamp jaws for track 54E3/S54 (aluminium)                             |                          |                          |                          |                            |                                   | +                 |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Clamp jaws for track UIC60/60E1 (aluminium)                           |                          |                          |                          |                            |                                   | +                 |                          |                             |                          |                          |                          |                          |                           |                           |                         |                                  |                                  |                                  |                                  |                                  |                                   |                                   |                                    |                 |
| Sealing kit   |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          |                          |                           |                           |                         | +                                | +                                | ●                                | +                                | +                                | +                                 | +                                 |                                    |                 |
| Bolt-on cutting edge  |                          |                          |                          |                            |                                   |                   |                          |                             |                          |                          |                          | +                        | +                         |                           |                         |                                  |                                  |                                  |                                  |                                  | +                                 | +                                 |                                    |                 |
| Teeth   | +                        | ●                        | +                        | +                          | +                                 |                   | +                        | ●                           | + <sup>8)</sup>          | +                        | +                        | +                        | +                         | +                         |                         | +                                | +                                |                                  |                                  |                                  |                                   |                                   |                                    |                 |

<sup>1)</sup> possible for all LH machines, only for machines from other manufacturers by agreement

<sup>2)</sup> for all MH 40 / MH 110 versions

<sup>3)</sup> only possible for SWA 48 Solidlink and SWA 66 Solidlink

<sup>4)</sup> not possible with Solidlink

<sup>5)</sup> the HD cylinder has no end position cushioning

<sup>6)</sup> disassembly of the end position cushioning possible if necessary

<sup>7)</sup> possible for shell width from 600 mm

<sup>8)</sup> possible for shell diameter from 1,000 mm

● = Standard, + = Option

