

# LDA 91

## Lumesa Drilling Attachment



### Light powerful drill rig

Attachment carriage to at least 8 t excavators with the latest technology and agility (rotate 360° and move 600 mm). The drill rig is easily attached to the excavator with a quick coupler and without tools. The controls are in a package on the mast. The drill mast control is available wirelessly or with a cable. Optional a walking foot can be mounted for use on a walking excavator.

### Best for

- Self-drilling anchors (**KSB** R 32, R 38, R 51) up to max D 100 mm drill holes.
- Blast hole rock drilling
- Working on the walking excavator



## Technical specifications

### LDA 91

#### Specifications



|                                     |             |                   |
|-------------------------------------|-------------|-------------------|
| <b>Operating weight excavator t</b> |             | > 8               |
| <b>Weight <sup>1</sup></b>          | kg          | 770               |
| <b>Oil requirement</b>              | l/min / bar | 110 / 230         |
| <b>Feed / Retrait force</b>         | kN          | 20                |
| <b>Torque max.</b>                  | daNm        | 212               |
| <b>Feed</b>                         | mm          | 3'300             |
| <b>Dimensions</b>                   | mm          | 4'550 / 620 / 900 |
| <b>Chain feed profil</b>            | BL          | 91                |
| <b>Rotate</b>                       | Degree      | 360               |
| <b>Swivel</b>                       | Degree      | ± 90              |
| <b>Clamp</b>                        |             | 25 – 146          |
| <b>Top hammer</b>                   | daNm        | 106 / 212         |
| <b>Rotary drive</b>                 | daNm        | on request        |
| <b>Double head</b>                  | daNm        |                   |

#### Deliverable with

|  |                  |
|--|------------------|
| <b>Hydraulic control panel</b>         |                  |
| <b>Radio or cabel control</b>          | <b>inclusive</b> |
| <b>Digital display radio control</b>   | optional         |
| <b>Anti jamming system</b>             | <b>inclusive</b> |
| <b>Adjustable percussion mechanism</b> | <b>inclusive</b> |
| <b>Threaded gear</b>                   | on request       |
| <b>Swivel 90°</b>                      | optional         |
| <b>Breaking device</b>                 |                  |
| <b>Drilling guide</b>                  | optional         |
| <b>Internal power supply</b>           | optional         |
| <b>Central lubrication</b>             | optional         |
| <b>Telescopic chain feed</b>           | on request       |
| <b>Walking foot</b>                    | optional         |
| <b>Vacuum cleaning</b>                 | on request       |
| <b>Rod magazine</b>                    |                  |
| <b>Pulling winch</b>                   | on request       |

#### Drilling methods Application ideal Application conditionally possible

|                                    |          | 33   | 45  | 57  | 76  | 89   |
|------------------------------------|----------|------|-----|-----|-----|------|
| <b>Blast hole / Rock drilling</b>  | ø mm     | 33   | 45  | 57  | 76  | 89   |
| <b>KSB® Anchor drilling</b>        | ø anchor | R32  | R38 | R51 | T76 | T114 |
| <b>Rotate- / Downhole Drilling</b> | ø mm     | 70   | 90  | 140 | 178 | 250  |
| <b>Casing drilling</b>             | ø mm     | 114  | 139 | 168 | 178 | 219  |
| <b>Core drilling</b>               | inch     | 100  | 131 | 146 | 200 | 254  |
| <b>Injection connector</b>         | mm       | 3/8" |     |     |     |      |

1. Without safety device according to standard EN16228



Rotary percussion drilling

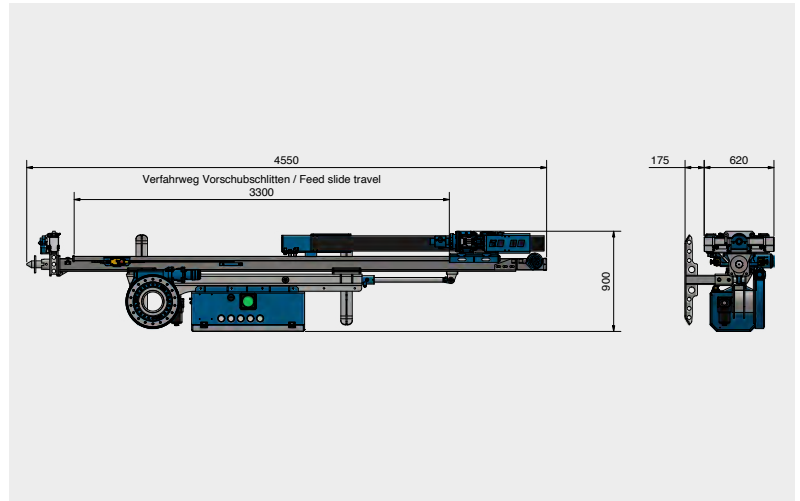


Rotating unpiped



Rotating piped

## System drawing



# Portable Chain Feeds

## Overview



Mounty® 90 L

Mounty® 90 H

Mounty® 91 H

Mounty® 92 H

### Specifications



|  |             |                       |                       |                       |                       |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <b>Operating weight excavator t</b>      |             |                       | > 2                   | > 3                   |                       |
| <b>Weight <sup>1</sup></b>               | kg          | > 45                  | > 50                  | > 110                 | > 140                 |
| <b>Oil requirement</b>                   | l/min / bar |                       | 55 / 200              | 60 / 200              | 100 / 200             |
| <b>Feed / Retrait force</b>              | kN          | 9                     | 12                    | 20                    | 40                    |
| <b>Torque max.</b>                       | daNm        | 90                    | 140                   | 180                   | 500                   |
| <b>Feed</b>                              | mm          | 1'300 / 1'800 / 2'300 | 1'300 / 1'800 / 2'300 | 1'300 / 1'800 / 2'300 | 1'300 / 1'800 / 2'300 |
| <b>Dimensions (LxBxH)</b>                | mm          | 2'160 / 580 / 650     | 2'160 / 580 / 500     | 2'220 / 580 / 500     | 2'315 / 584 / 600     |
| <b>Chain feed profil</b>                 | BL          | 90                    | 90                    | 91                    | 92                    |
| <b>Fixing plate for scaffolding tube</b> |             | inclusive             | inclusive             | inclusive             | inclusive             |
| <b>Rotary plate for scaffolding tube</b> |             | inclusive             | inclusive             | inclusive             | inclusive             |
| <b>Clamp</b>                             | mm          |                       | 25 – 116              | 25 – 146              | 25 – 181              |
| <b>Top hammer</b>                        | daNm        | 35                    | 103                   | 103                   | 150                   |
| <b>Rotary drive</b>                      | daNm        | 90                    | 140                   | 140                   | 800                   |
| <b>Double head</b>                       | daNm        |                       |                       |                       |                       |

### Deliverable with

|                                       |           |           |           |           |
|---------------------------------------|-----------|-----------|-----------|-----------|
| <b>Hydraulic control panel</b>        | inclusive | inclusive | inclusive | inclusive |
| <b>Radio or cabel control</b>         | optional  | optional  | optional  | optional  |
| <b>Digital display radio control</b>  |           |           |           |           |
| <b>Anti jamming system</b>            |           |           |           |           |
| <b>Adjustable percusion mechanism</b> |           |           |           |           |
| <b>Injection pump control</b>         | optional  | optional  | optional  | optional  |
| <b>Threaded gear</b>                  |           |           |           |           |
| <b>Swivel 90° (mechanical)</b>        | optional  | optional  | optional  | optional  |
| <b>Breaking device</b>                | optional  | optional  | optional  | optional  |
| <b>Drilling guide</b>                 | inclusive | inclusive | inclusive | inclusive |
| <b>Rack back stay</b>                 | inclusive | inclusive | inclusive | inclusive |

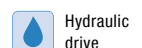
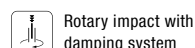
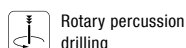
### Requirements hydraulic power units

|                     |    |           |           |           |
|---------------------|----|-----------|-----------|-----------|
| <b>Weight</b>       | kg | 390 / 700 | 390 / 700 | > 510     |
| <b>Engine power</b> |    | 18 / 43   | 18 / 43   | (18) / 43 |
| <b>Fuel</b>         |    |           |           |           |
| <b>Hose length</b>  | m  | 20 + 7    | 20 + 7    | 20 + 7    |

### Drilling methods Application ideal Application conditionally possible

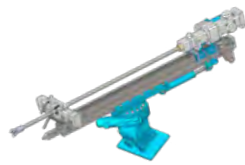
|                                    |          |      |     |     |      |      |     |      |     |     |      |     |     |     |     |      |
|------------------------------------|----------|------|-----|-----|------|------|-----|------|-----|-----|------|-----|-----|-----|-----|------|
| <b>Blast hole / Rock drilling</b>  | ø mm     | 33   | 45  | 57  | 76   | 89   | 33  | 45   | 57  | 76  | 89   | 33  | 45  | 57  | 76  | 89   |
| <b>KSB® Anchor drilling</b>        | ø anchor | R32  | R38 | R51 | T76  | T114 | R32 | R38  | R51 | T76 | T114 | R32 | R38 | R51 | T76 | T114 |
| <b>Rotate- / Downhole Drilling</b> | ø mm     | 70   | 90  | 140 | 178  | 250  | 70  | 90   | 140 | 178 | 250  | 70  | 90  | 140 | 178 | 250  |
| <b>Casing drilling</b>             | ø mm     | 114  | 139 | 168 | 178  | 219  | 114 | 139  | 168 | 178 | 219  | 114 | 139 | 168 | 178 | 219  |
| <b>Core drilling</b>               | inch     | 100  | 131 | 146 | 200  | 254  | 100 | 131  | 146 | 200 | 254  | 100 | 131 | 146 | 200 | 254  |
| <b>Injection connector</b>         | mm       | 3/8" |     |     | 3/8" |      |     | 3/8" |     |     | 3/8" |     |     |     |     |      |

1. Without safety device according to standard EN16228



# Drill Rig built on mast

## Overview



LDA 91 Mounity

LDA 91

LDA 92

LDA 92P

### Specifications



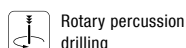
|                                     |             |            |                   |                       |                       |
|-------------------------------------|-------------|------------|-------------------|-----------------------|-----------------------|
| <b>Operating weight excavator t</b> |             | > 6        | > 8               | > 12                  | > 16                  |
| <b>Weight <sup>1</sup></b>          | kg          | 550        | 770               | 1'400 / 1'600         | 1'800 / 2'000         |
| <b>Oil requirement</b>              | l/min / bar | 60 / 200   | 110 / 230         | 120 / 230             | 160 / 230             |
| <b>Feed / Retrait force</b>         | kN          | 20         | 20                | 40                    | 40                    |
| <b>Torque max.</b>                  | daNm        | 180        | 212               | 212                   | 500                   |
| <b>Feed</b>                         |             | on request | 3'300             | 3'540                 | 3'540                 |
| <b>Dimensions</b>                   |             | on request | 4'550 / 620 / 900 | 4'600 / 1'200 / 1'850 | 4'900 / 1'200 / 1'850 |
| <b>Chain feed profil</b>            | BL          | 91         | 91                | 92                    | 92                    |
| <b>Rotate</b>                       | Degree      | 360        | 360               | 360                   | 360                   |
| <b>Swivel</b>                       | Degree      | ±90        | ± 90              | 0 – 90                | 0 – 90                |
| <b>Clamp</b>                        |             | 25 – 146   | 25 – 146          | 25 – 146              | 30 – 170              |
| <b>Top hammer</b>                   | daNm        | 150        | 106 / 212         | 106 / 212             | 250 / 500             |
| <b>Rotary drive</b>                 | daNm        | on request | on request        | 212                   | 500                   |
| <b>Double head</b>                  | daNm        |            |                   | on request            | on request            |

### Deliverable with

|  |  |           |            |            |            |
|--|--|-----------|------------|------------|------------|
| <b>Hydraulic control panel</b>         |  | inclusive |            |            |            |
| <b>Radio or cabel control</b>          |  | optional  | inclusive  | inclusive  | inclusive  |
| <b>Digital display radio control</b>   |  | optional  | optional   | optional   | optional   |
| <b>Anti jamming system</b>             |  | optional  | inclusive  | inclusive  | inclusive  |
| <b>Adjustable percussion mechanism</b> |  | inclusive | inclusive  | inclusive  | inclusive  |
| <b>Threaded gear</b>                   |  | optional  | on request | on request | on request |
| <b>Swivel 90°</b>                      |  |           | optional   | inclusive  | inclusive  |
| <b>Breaking device</b>                 |  |           |            | optional   | optional   |
| <b>Drilling guide</b>                  |  |           | optional   | optional   | optional   |
| <b>Internal power supply</b>           |  | optional  | optional   | optional   | optional   |
| <b>Central lubrication</b>             |  | optional  | optional   | optional   | optional   |
| <b>Telescopic chain feed</b>           |  |           | on request | on request | on request |
| <b>Walking foot</b>                    |  | optional  | optional   | optional   | optional   |
| <b>Vacuum cleaning</b>                 |  | optional  | on request | on request | on request |
| <b>Rod magazine</b>                    |  |           |            | on request | on request |
| <b>Pulling winch</b>                   |  |           | on request | on request | on request |

|                                    |          |     |     |      |     |      |     |     |      |     |      |     |     |     |     |      |     |     |     |     |      |
|------------------------------------|----------|-----|-----|------|-----|------|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|
| <b>Blast hole / Rock drilling</b>  | ø mm     | 33  | 45  | 57   | 76  | 89   | 33  | 45  | 57   | 76  | 89   | 33  | 45  | 57  | 76  | 89   | 33  | 45  | 57  | 76  | 89   |
| <b>KSB® Anchor drilling</b>        | ø anchor | R32 | R38 | R51  | T76 | T114 | R32 | R38 | R51  | T76 | T114 | R32 | R38 | R51 | T76 | T114 | R32 | R38 | R51 | T76 | T114 |
| <b>Rotate- / Downhole Drilling</b> | ø mm     | 70  | 90  | 140  | 178 | 250  | 70  | 90  | 140  | 178 | 250  | 70  | 90  | 140 | 178 | 250  | 70  | 90  | 140 | 178 | 250  |
| <b>Casing drilling</b>             | ø mm     | 114 | 139 | 168  | 178 | 219  | 114 | 139 | 168  | 178 | 219  | 114 | 133 | 152 | 178 | 219  | 114 | 133 | 152 | 178 | 219  |
| <b>Core drilling</b>               | inch     | 100 | 131 | 146  | 200 | 254  | 100 | 131 | 146  | 200 | 254  | 100 | 131 | 146 | 200 | 254  | 100 | 131 | 146 | 200 | 254  |
| <b>Injection connector</b>         | mm       |     |     | 3/8" |     |      |     |     | 3/8" |     |      |     |     | 1"  |     |      |     |     | 1"  |     |      |

1. Without safety device according to standard EN16228



Rotary percussion drilling



Rotating unpiped



Rotating piped



Rotary impact with damping system

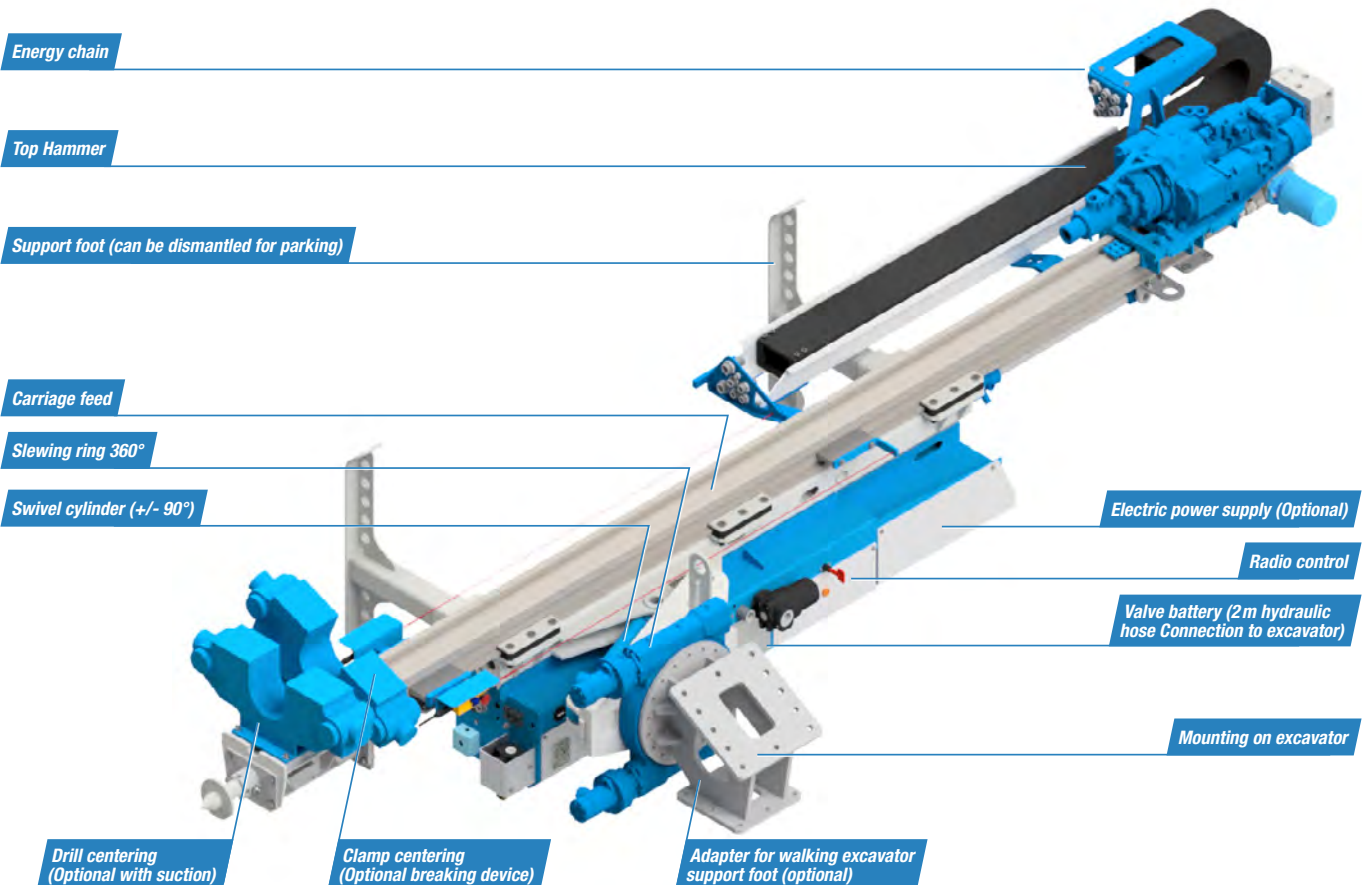


# LDA Drill Rigs Built on Mast

## Lumesa Drilling Attachment

Based on the standard system, **Lumesa** Austria produces together with **Lumesa** Switzerland customized drill rigs for every application. By means of a checklist, precise customer briefing and professional advice, an exact requirements profile is drawn up, which serves as the basis for the construction of the drill mount. The great flexibility enables efficient, individual system solutions for the respective needs and requirements on the construction site. No intervention in the excavator hydraulics is required!

### ■ Designation of the components

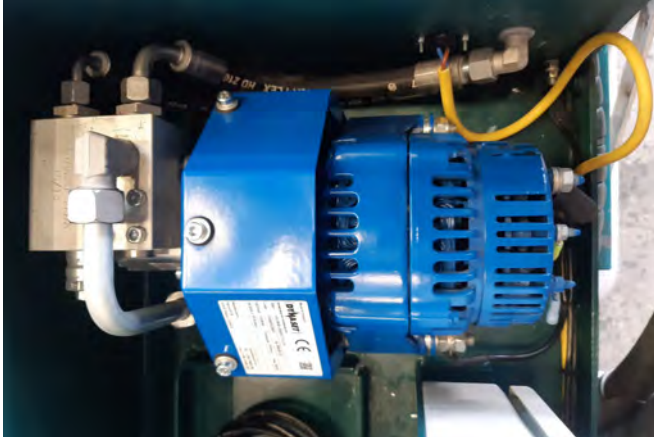


### ■ Drilling positions



# Accessories

## Generator



## Pulling winch attached to the underside of the chain feed



## Suction hood



## Walking foot easily demountable

