Double Lock

The new standard for safety in hydraulic quickcouplers
NEW: Double Lock (DL) - locked twice securely

Standard on all hydraulic (HS 01 - HS 25) and fully hydraulic quickcouplers (VL 100 - VL 250)

The new Double Lock safety standard ensures increased work safety on construction sites. The ingenious system prevents the attachment from falling off in a purely mechanical manner in the event of incorrect locking. A safety claw fitted in the middle between the coupling claws encloses the coupling shaft in a form-fitting manner immediately after the lock is actuated and prevents the attachment from being completely released in any position. The new, revised indicator pin provides information about the position of the locking pins at any time.

Safety features of the Double Lock quickcoupler
- purely mechanical fall protection
  - prevents the attachment from falling off in case of incorrect locking
  - robust, wear resistant
  - service friendly
- new indicator pins
  - as indicator for the position of the locking pins
- EuroTest certified
- BG Bau eligible
- surpasses all safety standards (EN474, ISO13031)

Double Lock - how it works

Double advantage - new housing generation

Optimized housing for all Double Lock quickcouplers with full compatibility

In the course of the Double Lock development, all housings were optimized in terms of their pick-up and wear behavior and compact design, and some of the locking mechanisms were newly developed.

New housing features of the Double Lock quickcouplers
- wider coupling claws
- more support surface
- less wear
- optimized claw geometry
- easier pick-up of attachments
- compatible with existing Lehnhoff adapters

Features HS 10 - HS 25 / VL 100 - VL 250
- new, lower construction
- more compact addition of rotator / tiltrotator possible
- housing cover strengthened and safe
- new engineered locking mechanism
- new emergency opening mechanism

example HS 10 DL
- new lower construction without the typical „hump“
- wider pick-up claws with optimized engagement procedure
- 2 indicator pins
- support surface + 70%

HS 08 DL
- support surface + 70%

example HS 08 (old)

pick-up as usual for locking
- possibility of unintentional false locking
- DL safety claw prevents falling off of the attachment
- attachment secure in every position of the bucket cylinder

optical locking indicator, pin extended
- safety claw open
- optical locking indicator, pin retracted
- safety claw closed

locking pins retracted, safety claw Double Lock open
 unlocked

locking pins extended, safety claw Double Lock closed
 unlocked

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## Overview Double Lock quickcouplers

<table>
<thead>
<tr>
<th>quickcoupler hydraulic</th>
<th>quickcoupler fully hydraulic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>excavator class</strong></td>
<td><strong>HS 01 DL</strong></td>
</tr>
<tr>
<td>0.5 - 1.9 t</td>
<td>12 - 19 t</td>
</tr>
<tr>
<td>2.0 - 6.0 t</td>
<td>235</td>
</tr>
<tr>
<td>6.1 - 12 t</td>
<td>180</td>
</tr>
<tr>
<td>12 - 19 t</td>
<td>15</td>
</tr>
<tr>
<td>19 - 28 t</td>
<td>70</td>
</tr>
<tr>
<td>28 - 38 t</td>
<td>160</td>
</tr>
<tr>
<td>adapter</td>
<td>SW 01</td>
</tr>
<tr>
<td>coupling shaft Ø (mm)</td>
<td>40</td>
</tr>
<tr>
<td>unlocking pressure min. (bar)</td>
<td>130</td>
</tr>
<tr>
<td>load hook load capacity</td>
<td>1 t</td>
</tr>
<tr>
<td>wider support surface</td>
<td>+ 50%</td>
</tr>
<tr>
<td>number indicator pins</td>
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</tr>
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See Double Lock in action here: [https://www.youtube.com/watch?v=6b9kJRHvFzc](https://www.youtube.com/watch?v=6b9kJRHvFzc)

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Lehnhoff Hartstahl GmbH

Rungsstr. 10-15 . D-76534 Baden-Baden, Germany
PO Box 11 01 65 . D-76487 Baden-Baden, Germany

Tel. +49 (0) 72 23 / 966 - 0
Fax +49 (0) 72 23 / 966 - 149
info@lehnhoff.de