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Unilift Lifting Systems

Unilift Systems
Unilift is the ideal lifting and handling system for a wide variety of precast concrete products, particularly in civil engineering applications. The system is typically used for lifting panels, pipes, pits, manholes, road barriers, bridge beams, planks, sound walls, culverts etc.

The Ancon Unilift Lifting System consists of a range of lifting anchors, clutches and recess formers used for the safe, fast and efficient handling of a wide range of precast concrete items during manufacture, transport and installation. Unilift components are available in 6 load classes with working loads reaching from 1.3t - 32t.

Unilift CA Cone Anchors and Unilift RA Reo Anchors are forged headed anchors that are cast into the concrete. Recess formers create a spherical recess around the anchor head. Unilift LK Locking Klaws engage with the anchor head and transfer the lifting loads safely into the anchor. Unilift components of different load groups are not interchangeable for maximum safety.

√ Locking Klaw can be connected with the tail towards the load and the tail away from the load preventing unsafe situations caused by mis-engagement.
√ Standard load classes of 1.3, 2.5, 5, 10, 20 and 32 tonnes available.
√ Fast, efficient handling of products in the factory, during transport and on the job-site.
√ Unique, patented design of the Unilift Locking Klaw prevents disconnection between clutch and anchor.
√ Easy to train operators how to use the system with minimal supervision.
√ Components of different load groups are not interchangeable for maximum safety.
√ Unilift Locking Klaws and Anchors exceed the requirements for lifting systems in AS 3850.1:2015 - Prefabricated Concrete Elements
√ Anchors are hot-dip galvanised for superior corrosion resistance.
Unilift Locking Klaw

These strong, safe, lightweight clutches suit all spherical head lifting anchors. They protect against dangerous disconnection where there is a risk of fouling, which is a common problem when lowering precast drainage products into confined spaces like trenches. They also help to safely rotate civil prefabricated concrete units.

Unilift Locking Klaws are the strongest clutches on the market. Their capacity exceeds the factor of safety of 4.0 for lifting clutches as specified in AS 3850.1:2015, table 2.1.

### Working Load Limits

<table>
<thead>
<tr>
<th>WLL</th>
<th>Annual Proof Load kN</th>
<th>Nominal WLL Anchor</th>
<th>Part Code</th>
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<tbody>
<tr>
<td>2</td>
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<td>1.3</td>
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<tr>
<td>3</td>
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<td>5</td>
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</tr>
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<td>20LK</td>
</tr>
<tr>
<td>32</td>
<td>384</td>
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### Part Codes and Nominal Dimensions

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<th>Part Code</th>
<th>L</th>
<th>W</th>
<th>Ch</th>
<th>Cw</th>
<th>Sw</th>
<th>S</th>
<th>Ø</th>
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<td>166</td>
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<td>182</td>
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</tr>
</tbody>
</table>

* Halten clutches carry a CE mark, more information is available on request.

A 5 tonne remote release Locking Klaw is also available which is ideal for tilt-up construction.

Product Description          | Part Code |
-------------------------------|-----------|
5 Tonne Remote Release         | 05LKRR    |
Cone Anchors

This classic spherical-headed, forged foot anchors are the first choice for most applications. They are manufactured from hot-dip galvanised, forged, high impact strength construction steel. Genuine Unilift anchors are stamped with a “U” on the head, as well as load class and length.

The Working Load Limit (Load Class) of Unilift CA Cone Anchors is based on a factor of safety of 3.0. This exceeds the working load limit factor FoS for cast-in lifting inserts of 2.25 as specified in AS 3850.1:2015 - table 2.1.

### Part Codes, Dimensions and Pack Size

<table>
<thead>
<tr>
<th>Load Class (Tonnes)</th>
<th>Dimensions (mm)</th>
<th>LK Locking Klaw</th>
<th>Part Code</th>
<th>Quantity per Bag</th>
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<tr>
<td></td>
<td>L</td>
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<tr>
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<td>700</td>
<td>50</td>
<td>32LC</td>
<td>CA32700</td>
</tr>
</tbody>
</table>

* Type 316 stainless steel anchors in stock, other sizes on request.

Tel: 1300 304 320 www.ancon.com.au
Unilift RA Reo (Eye) Anchors

Unilift RA Reo Anchors are used with a hanger bar, also known as a tension bar, where the concrete is too weak for a cone anchor. They are ideal for thin panels and other applications where the concrete cone developed by traditional foot anchors is insufficient to provide the working load limit of the anchor.

The bar is threaded through the hole in the anchor and embedded deep in the concrete. Like Unilift CA Cone Anchors they are manufactured from hot-dip galvanised, forged, high impact strength construction steel, and are stamped with a Unilift ‘U’, the load class and length.

The Working Load Limit (Load Class) of Unilift RA Reo Anchors is based on a factor of safety of 3.0. This exceeds the working load limit factor FoS for cast-in lifting inserts of 2.25 as specified in AS 3850.1:2015.

The cut lengths for the hanger bar given in the table are suitable for 15MPa concrete and calculated in accordance with AS 3600:2018 - Concrete Structures based on a FoS of 2.25.

<table>
<thead>
<tr>
<th>Load Class (Tonnes)</th>
<th>Dimensions (mm)</th>
<th>Bending Diameter d,</th>
<th>Part Code</th>
<th>Quantity per Bag</th>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>RA01065</td>
<td>200</td>
</tr>
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<td>2.5</td>
<td>L 65 S 10 D R10</td>
<td>HL 500*</td>
<td>RA02065</td>
<td>100</td>
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<td>HL 1330</td>
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* Development length of plain bar increased by factor of 1.5 in accordance with AS 3600
Unilift Recess Formers
These products are used to accurately and reliably set the anchor into its recess in the concrete panel. Recess formers are non-interchangeable between load groups to minimise errors and are available in a variety of types to meet the demands of different applications.

Rubber Recess Former
Our most economical recess former, used for a wide variety of applications. Made from a hard, yet flexible, oil resistant rubber, they are ideal for attachment to steel and timber forms as well as floats for top surface installation. Supplied complete with attachment bolt and wing nut.

<table>
<thead>
<tr>
<th>Unilift / Anchor WLL (Tonne)</th>
<th>Diameter (mm)</th>
<th>Part Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3</td>
<td>66</td>
<td>RRF01</td>
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<td>RRF20</td>
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<tr>
<td>32</td>
<td>236</td>
<td>RRF32</td>
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</tbody>
</table>

Steel Recess with Rubber Retaining Ring
Featuring a replaceable rubber retaining ring, these steel recess formers offer a long service life and are an economical alternative to rubber recesses for production precasting.

<table>
<thead>
<tr>
<th>Unilift / Anchor WLL (Tonne)</th>
<th>Diameter (mm)</th>
<th>Recess Part Code</th>
<th>Ring Part Code</th>
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<tbody>
<tr>
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<td>60</td>
<td>SRF01</td>
<td>RR01</td>
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<tr>
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<td>RR02</td>
</tr>
<tr>
<td>5.0</td>
<td>94</td>
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<td>RR05</td>
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<tr>
<td>10.0</td>
<td>130</td>
<td>SRF10</td>
<td>RR10</td>
</tr>
</tbody>
</table>

Articulating Steel Recess Former
These products are similar in action to the semi-spherical rubber recess, but are manufactured from steel, offering a long service life for production precasting.

<table>
<thead>
<tr>
<th>Unilift / Anchor WLL (Tonne)</th>
<th>Diameter (mm)</th>
<th>Part Code</th>
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<td>SRF10A</td>
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</table>
Halfen Magnetic Recess Formers
These magnetic recess formers are used in metal formwork when drilling is not an option.

<table>
<thead>
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<th>Diameter (mm)</th>
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<th>h (mm)</th>
<th>WLL (Tonne)</th>
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<tr>
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<td>M12</td>
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</table>

Panel Anchor Embedment Part Quantity per Box

<table>
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<tr>
<th>Panel Thickness (mm)</th>
<th>Anchor Length (mm)</th>
<th>Embedment Depth h_eff (mm)</th>
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<th>Quantity per Box</th>
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<td>-</td>
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</tbody>
</table>

Tilt-Up Site Cast Lifting Systems
These systems use the forged steel Unilift 5 tonne anchor and can be used with the remote release 5 tonne QwikTilt Klaw for maximum efficiency on site.

QwikTilt Face Lift Anchor Sets
The anchor is housed in a robust plastic chair with four stable legs and several tie-in points on the ring to prevent movement during casting. There is no requirement for a cross bar.
They are available from stock, in pre-packed cartons, to suit the most popular panel thickness i.e. 125, 150, 170, 175, 200, 250mm. Units to suit other panel thicknesses are available on request.
Worldwide contacts for Leviat:

**Australia**
Leviat
98 Kurrajong Avenue, Mount Druitt Sydney, NSW 2770
Tel: +61 - 2 8808 3100
Email: info.au@leviat.com

**Austria**
Leviat
Leonard-Bernstein-Str. 10
Saturn Tower, 1220 Wien
Tel: +43 - 1 - 259 8770
Email: info.at@leviat.com

**Belgium**
Leviat
Industrielaan 2
1740 Ternat
Tel: +32 - 2 - 582 29 45
Email: info.be@leviat.com

**China**
Leviat
Room 601 Tower D, Vantone Centre
No. A6 Chao Yang Men Bai Street Chaoyang District
Beijing · P.R. China 100020
Tel: +86 - 10 5907 3200
Email: info.cn@leviat.com

**Czech Republic**
Leviat
Business Center Šafránkova
Šafránkova 1238/1
155 00 Praha 5
Tel: +420 - 311 - 690 060
Email: info.cz@leviat.com

**Finland**
Leviat
Vädersgatan 5
412 50 Göteborg/Sweden
Tel: +358 (0)10 6338781
Email: info.fi@leviat.com

**France**
Leviat
6, Rue de Cabanis
FR 31240 L’Union
Toulouse
Tel: +33 - 5 - 34 25 54 82
Email: info.fr@leviat.com

**Germany**
Leviat
Liebigstrasse 14
40764 Langenfeld
Tel: +49 - 2173 - 970 - 0
Email: info.de@leviat.com

**India**
Leviat
309, 3rd Floor, Orion Business Park
Ghodbunder Road, Kapurbawdi,
Thane West, Thane,
Maharashtra 400607
Tel: +91 - 22 2589 2032
Email: info.in@leviat.com

**Italy**
Leviat
Via F.lli Bronzetti 28
24/12 Bergamo
Tel: +39 - 035 - 0760711
Email: info.it@leviat.com

**Malaysia**
Leviat
28 Jalan Anggerik Mokara 31/59
Kota Kemuning, 40460 Shah Alam
Selangor
Tel: +603 - 5122 4182
Email: info.my@leviat.com

**Netherlands**
Leviat
Oostermaat 3
7623 CS Borne
Tel: +31 - 74 - 267 14 49
Email: info.nl@leviat.com

**New Zealand**
Leviat
2/19 Nuttall Drive, Hillsborough,
Christchurch 8022
Tel: +64 - 3 376 5205
Email: info.nz@leviat.com

**Norway**
Leviat
Vestre Svanholmens 5
4313 Sandnes
Tel: +47 - 51 82 34 00
Email: info.no@leviat.com

**Philippines**
Leviat
2933 Regus, Joy Nostalg,
ADB Avenue
Ortigas Center
Pasig City
Tel: +63 - 2 7957 6381
Email: info.ph@leviat.com

**Poland**
Leviat
Ul. Obornicka 287
60-691 Poznań
Tel: +48 - 61 - 622 14 14
Email: info.pl@leviat.com

**Singapore**
Leviat
14 Benoi Crescent
Singapore 629977
Tel: +65 - 6266 6802
Email: info.sg@leviat.com

**Spain**
Leviat
Polígono Industrial Santa Ana
c/ Ignacio Zuloaga, 20
28522 Rivas-Vaciamadrid
Tel: +34 - 91 632 18 40
Email: info.es@leviat.com

**Sweden**
Leviat
Vädersgatan 5
412 50 Göteborg
Tel: +46 - 31 - 98 58 00
Email: info.se@leviat.com

**Switzerland**
Leviat
Grenzstrasse 24
3250 Lyss
Tel: +41 - 31 750 3030
Email: info.ch@leviat.com

**United Arab Emirates**
Leviat
RA08 TB02, PO Box 17225
JAFZA, Jebel Ali, Dubai
Tel: +971 (0)4 883 4246
Email: info.ae@leviat.com

**United Kingdom**
Leviat
President Way, President Park,
Sheffield, S4 7UR
Tel: +44 - 114 275 5224
Email: info.uk@leviat.com

**United States of America**
Leviat
6467 S Falkenburg Rd., Riverview, FL 33578
Tel: (800) 423-9140
Email: info.us@leviat.us

For countries not listed
Email: info@leviat.com

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For more information on the following products, please contact:

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Web: Ancon.com.au

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**General Enquiries**
Tel: 1300 304 320  
Email: info.au@leviat.com  
Web: Leviat.com

**Sales Offices and Production**

**New South Wales, Sydney**
98 Kurrajong Avenue  
Mount Druitt | Sydney  
NSW 2770

**Queensland**
4/15 Terrace Place  
Murarrie | Brisbane  
QLD 4172

**New South Wales, Casino**
10 Irving Drive  
Casino  
NSW 2470

**Western Australia**
18 Tennant Street  
Welshpool | Perth  
WA 6106

**Victoria**
9/63-69 Pipe Road  
Laverton North | Melbourne  
VIC 3026

**Leviat.com**