

HYDRAULIC LOCKING UNIT „LE-X“



STATE-OF-THE-ART SAFETY SOLUTION FOR
PASSENGER RESTRAINT SYSTEMS IN AMUSEMENT RIDES

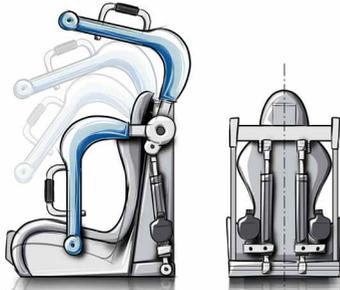
DESIGNED AND BUILT BY THE INDUSTRY LEADER – MADE IN GERMANY



PROVEN TECHNOLOGY RETHOUGHT

The new generation of hydraulic locking units type “LE-X” is, as with the previous generation, designed for highest loads. The fatigue load, for example, is 2,360 lbf. This design ensures passenger safety in even the most demanding rides. The level of safety is achieved with very compact dimensions, allowing simple installation completely integrated into the seat housing. For use even in dusty or humid environments, up to IP 67 (protection class) is standard for the relevant components. Optionally, we offer corrosion protection up to level C4.

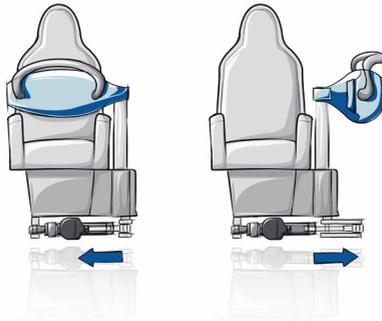
Shoulder bar



Lap bar



Belly bar



SEVERAL OPTIONS ARE AVAILABLE

The right solution for every requirement: Our wide range of remote release options for emergency actuation allows for flexible integration – even in confined spaces or complex installation scenarios. In an emergency, they ensure a fast and comfortable evacuation of passengers. A selection of available pressure accumulators enables customized configuration for different seat sizes and types.

HAWE COMPONENTS FOR YOUR SYSTEM:



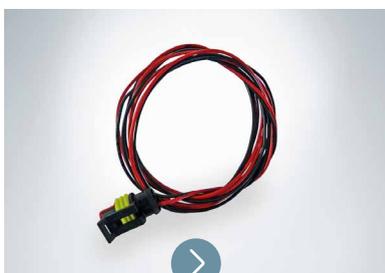
MECHANICAL REMOTE RELEASE OF THE EMERGENCY ACTUATION

- Available in lengths of 1, 2, 3 or 4m
- Immediate opening of the restraint bar in case of an emergency (no dismantling of panels necessary and purely mechanical)



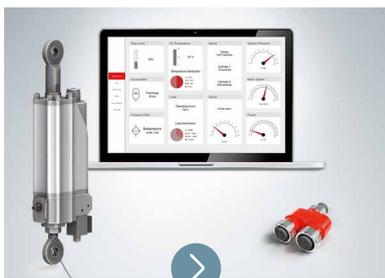
HYDRAULIC REMOTE RELEASE (HRR) OF THE EMERGENCY ACTUATION

- Activation with minimal effort and without stick-slip effect
- Suitable for very small installation spaces
- Available with different hose lengths
- Easy installation and integration (plug & play)



COIL CABLE

- In different lengths (1.5, 2 or 5m) and versions (IP 65 / 67) available, depending on requirements



CONDITION MONITORING SET FOR HLU LE-X (E)

- eVolex Data Logger
- eVolex Dashboard
- Y-Adapter

Technology at a glance:

- + Stroke lengths up to 250 mm
- + Fatigue load: 2,360 lbf
- + Integrated emergency actuation (remote release optional)
- + Corrosion protection level up to C4



“The ready-to-install solution shortens the assembly time and reduces our costs.”

Your advantages:

- + 100% running test before delivery
- + Maximum reliability
- + Extremely low maintenance
- + Noiseless and stepless restraint bar adjustment
- + Improved service life of up to 2 million cycles (according to specifications in assembly instructions)
- + Compatible LE-X variants available for previous LE 25 / 32 series

ADDITIONALLY FOR VERSION HLU LE-X (E):

- + Great safety plus, due to integrated sensor technology
- + Electronic maintenance mode
- + Electronic test mode before/ after rides
- + Condition monitoring



CERTIFIED FOR THE SAFETY OF YOUR CUSTOMERS AND PASSENGERS

With the hydraulic locking units type HLU, HAWE Micro Fluid GmbH has been successful in the market for amusement rides since 1995. In addition to roller coasters, robot simulators and water attractions, an increasing number of applications are being added, such as virtual reality attractions and 4D cinemas.

The company is certified according to ISO 9001. Consequently, manufacturers and operators also benefit from all the associated advantages with the new generation of LE-X products.



CERTIFICATIONS

TÜV-Süd component certificate according to
DIN EN 13814 / ISO 17842-01
(also applicable: ASTM F 2974-20 / F 2291-20)
ISO 9001

CONFORMITIES

RoHs compliant
REACH compliant

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The acceptance of the ride, whether at the initial inspection or by the operator on site, is significantly accelerated by TÜV certification.

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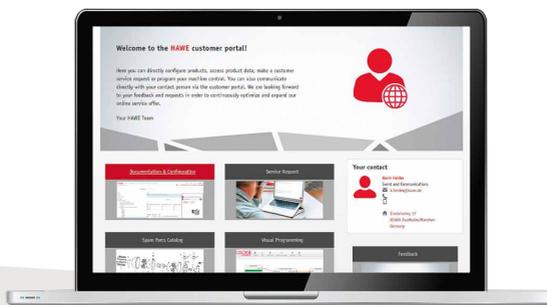
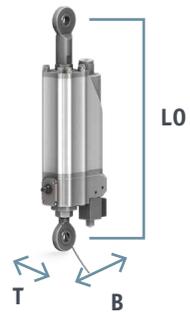
Main dimensions

Hub [mm]	L0* [mm]	B [mm]	T [mm]
80	331	104	59
90	341	104	59
110	361	104	59
140	391	104	59
150	401	104	59
190	441	104	59
250	501	104	59



Small dimensions
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Easy to integrate

*L0 can be reduced by up to 4mm if required



COMPREHENSIVE DOCUMENTATION & CUSTOMER TOOLS

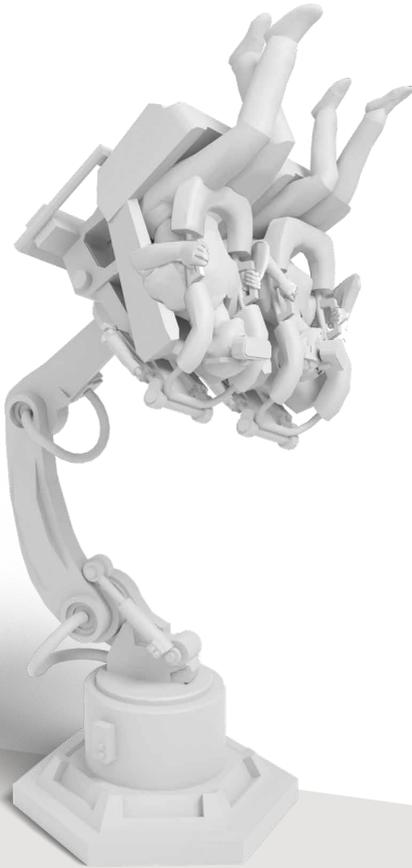
[The HAWE customer portal](#) with product configurator and extensive product documentation



HAWE Micro Fluid GmbH is a member
of the following associations:



VDFU
Verband Deutscher Freizeitparks
und Freizeitunternehmen e.V.



HAWE Micro Fluid GmbH
Borsigstraße 11
DE-93092 Barbing

info@hawe-microfluid.de

www.hawe.com



For more information
on the hydraulic locking
unit "LE-X," please use
the QR code or reach out
to your Sales contact
person at:

www.hawe.com/contact

