Rigid Chain Technology For Lift Applications

INTERLIFT 2015
SERAPID Deutschland GmbH
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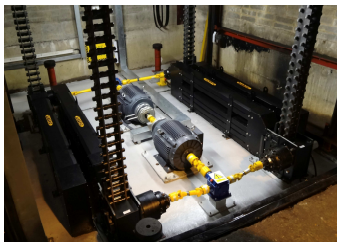
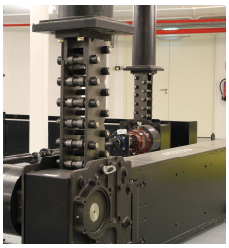
www.serapid.com

Serapid Group

Serapid, the art of moving structures

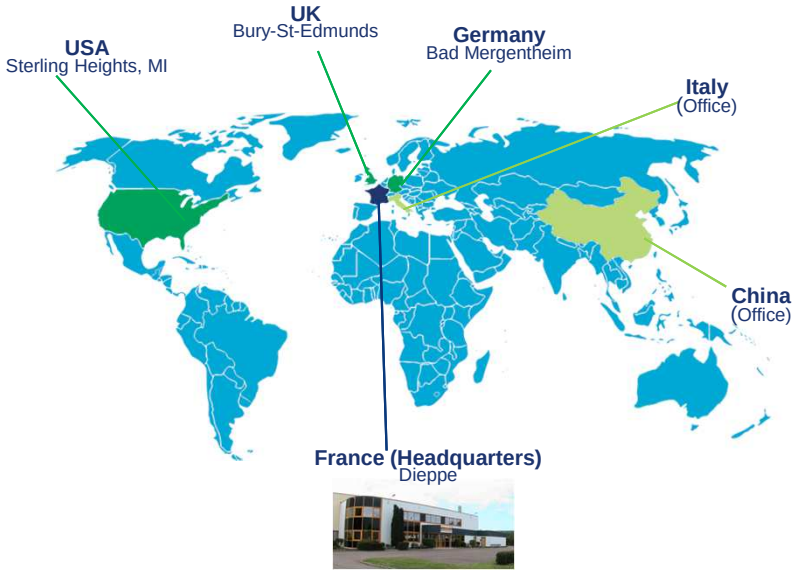
Patented technology
EN81 certified
thousands of applications all over the world





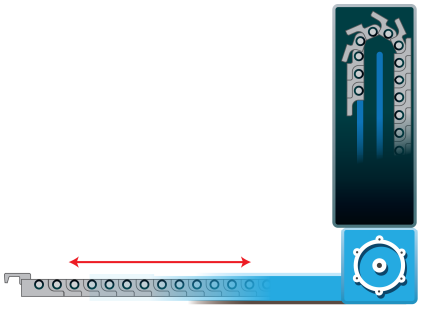
Serapid Group | Locations

Founded : 1972 | Employee : 120+

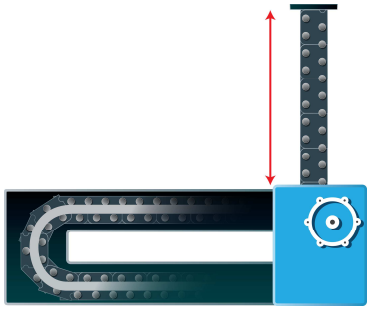


Rigid Chain Technology

Rigid chain is a **telescopic mechanical actuator** that is flexible in one direction and rigid, like a steel beam, in the other. It is ideally suited for moving heavy structures over long distances.
It consists of links that interlock with each other.



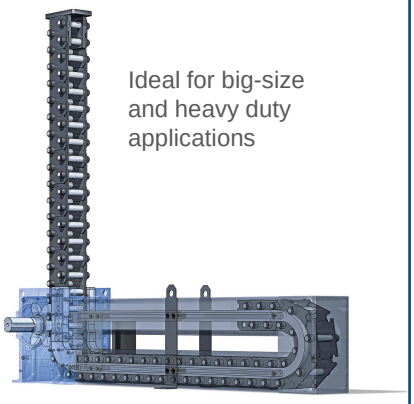
Horizontal applications



Vertical applications

Solutions for Lift Applications

1 LinkLift (LL)



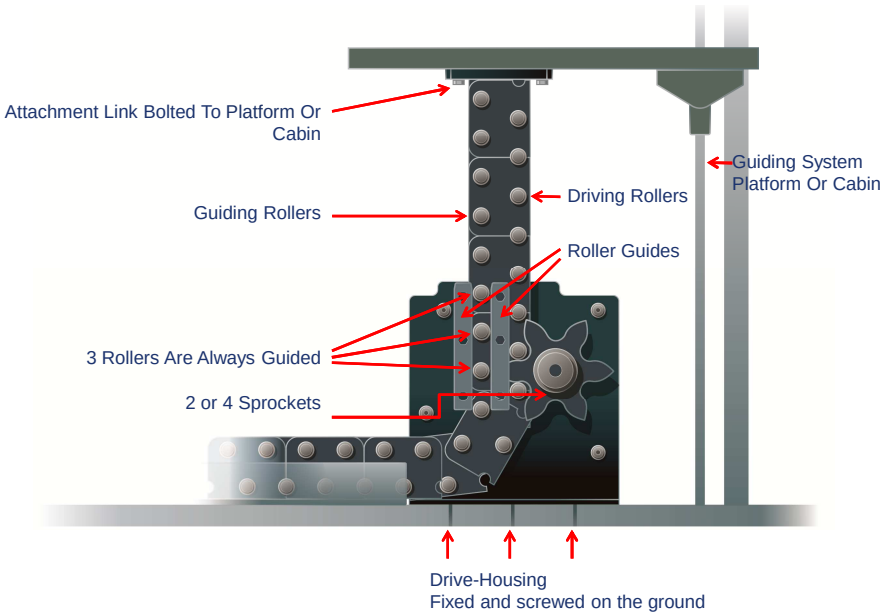
Ideal for big-size and heavy duty applications

2 Vertical Linear Beam (VLB)

The alternative to hydraulics for lift applications

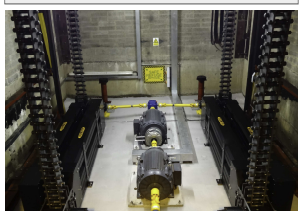
NEW

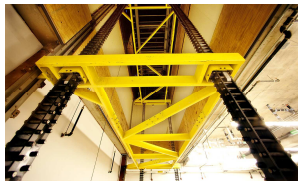
LinkLift | Construction & Conception



LinkLift | Technical Specifications

- **Chain types :**
  LL30, LL50/50R, LL80/80R, LL100/100R
  with 4 different standard magazines
- **Load capacity :**
  from 10 000 to 150 000 N per chain
- **Speed :**
  0 to 0,6 m/s (under special conditions)
- **Stroke :**
  up to 8m (without chain guide)
  extending options: intermediate frame guides, chain guides
- **Wide range of options such as :**
  - Reliable gearboxes, motor and safety brake systems
  - Load measurement, safety level up to SIL3
  - Automatic lubrication systems
  - Chain coating for harsh and moist environment
  - Intermediate frame guides, or chain guides
  - Customized magazines
  - Limit switches and encoders





LinkLift | How does it work? → VERY SIMPLE

LinkLift | Certification

EN81-1 certified

EN81-20 certification
expected by end of 2015

LinkLift is ready to use!

LIFTINSTITUUT

TYPE-EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V.

Certificate nr.	: NL14-400-1001-189-01 Revision nr.: 1
Description of the product	: Vertical chain drive system as partly completed machine
Trademark, type	: Serapid Chain System 30, 50, 50R, 80, 80R, 100 and 100R
Name and address of the manufacturer	: STI Serapid Group ZI Bleue L. Delaporte F-76370 Rouxmesnil-Bouteilles, France
Name and address of the certificate holder	: STI Serapid Group ZI Bleue L. Delaporte F-76370 Rouxmesnil-Bouteilles, France
Certificate issued on the following requirements	: Machinery directive 2006/42/EC
Certificate based on the following standards	: Parts of EN 81-31:2010, EN 81-1:1995+A3:2010, DIN 56950-1:2012-05
Test laboratory	: None
Date and number of the laboratory report	: None
Date of type-examination	: January – December 2014
Annexes with this certificate	: Report belonging to the type-examination certificate nr.: NL14-400-1001-189-01
Additional remarks	: None
Conclusion	: The machine meets the requirements of the Machinery directive 2006/42/EC taking into account any additional remarks mentioned above.

Issued in Amsterdam
Date of issue : 19-12-2014
Valid until : 30-10-2019

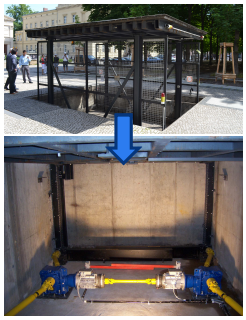
ing. A.J. van Ommen
Manager Business Unit Certification

Certification decision by

Liftinstituut B.V. · Bukalderweerpkade 381 · P.O. BOX 38027 · 1030 MA Amsterdam Netherlands · www.liftinstituut.nl
Registered at the KvK under number 34157363

LinkLift | Benefits

- Excellent and repeatable positioning accuracy +/-1mm, irrespective of load
- Not affected by eccentric loads so there is no requirement for compensation systems or pawls, radically simplifying design of the lift and shaft.
- No bounce or movement as concentrated loads enter or leave the lift car
- Low loading of the guides as there is no overturning moment of the car floor
- All lifting loads taken directly into the pit floor
- No mechanical safety-gear necessary in case of using two or more chain columns

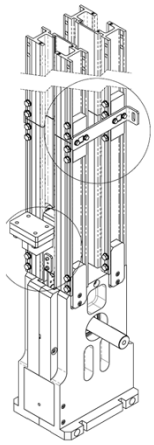


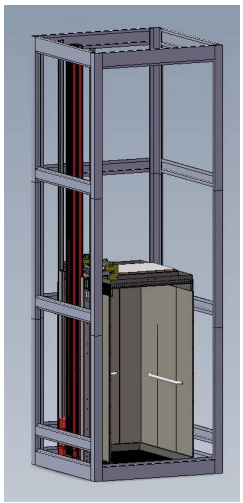
Vauxhall | Goods Lift

Vertical Linear Beam (VLB)

NEW

- **Real alternative to hydraulics**
- Developed for lift applications
- New applications and retrofit
- Small footprint
- Very easy to install
- Precise & stable regardless of load
- Environmentally friendly and sustainable (energy efficient, no oil)
- No machine room
- Low maintenance





Vertical Linear Beam (VLB) | Specifications

- **3 Product ranges :**
  - **VLB 40** → up to 500 kg load capacity
  - **VLB 40-S** → up to 1000 kg load capacity
  - **VLB 60-S** → up to 2500 kg load capacity
- **Footprint without motor** (width x depth) **:**
  - **VLB 40** → 140 x 240 mm
  - **VLB 40-S** → 200 x 180 mm
  - **VLB 60-S** → 250 x 320 mm
- **Speed :** up to 800 mm/s
- **Stroke :** modular & extendable

EN 81-20 certification in process
(expected by end of 2015)

VLB 40 VLB 40-S VLB 60-S

RCT | RIGID CHAIN TECHNOLOGY

- Proven technology for lifts (over 40 years operational experience)
- Safe and reliable (an unquestionable track record)
- Overcomes many of the problems associated with hydraulics and large capacity traction lifts
- An efficient and environmentally friendly technology
- No machine room
- Easy to control
- Quick and easy to install
- Simple to maintain
- certified

RELIABLE AND VERY COST EFFECTIVE OVER THE COMPLETE LIFETIME

SERAPID

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HALL 3 | BOOTH 3113