

SERAPID
RIGID CHAIN TECHNOLOGY

LIFT SOLUTIONS FOR AUTOMOTIVE MANUFACTURING



SERAPID product range

Long life and low maintenance alternative technology

SERAPID, producers of the original Rigid Chain, has more than 45 years experience in providing lift solutions to manufacturers. SERAPID products are widely used in the four processes of automotive production: Assembly, Pressing, Welding (body in white), and Painting.

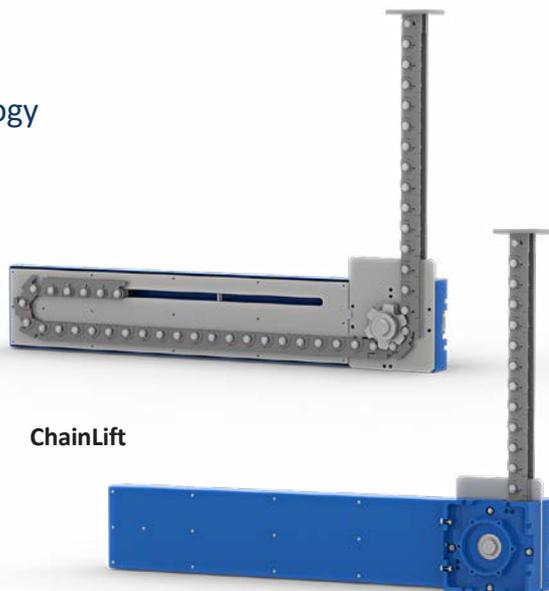
SERAPID's Chainlift, HDLift and the newly developed Vertical LinearBeam (VLB) products have the following features: High cycles, long travel, heavy loads, and space saving design. There are particularly suitable for FALS (Flexible Assembly Line System) applications.

In a traditional assembly line, the normal solution is to use multiple overhead rigging systems for component handling and vehicle movements. These solutions are expensive, take considerable time and effort to build and have high maintenance cost due to their complexity.

SERAPID offers a simple and cost effective solution for FALS applications. Combined with the traditional horizontal friction drive systems, the car body can be lifted vertically from the ground with rigid chain lifts from SERAPID. It's a flexible solution, as the height of the travel can be adjusted to meet the needs of the process and operators.

SERAPID products have established themselves in the automotive market, since the assembly line does not feature any engines. The reputation of SERAPID rigid chain is growing for the movement and positioning of battery cells, which echoes the booming investment within this market sector.

SERAPID has been doing business for more than 45 years, with increasing its penetration of the automotive industry during last decades. It has completed significant projects such as Olympic Opening and Closing ceremony. The products are widely used in FALS, Engine Mount, 1G mount, Suspension mount, Engine Assembly and more.



ChainLift

ChainLift	
capacity	up to 20 kN
max. stroke (dep. on load)	up to 2 000 mm
speed (dep. on load)	up to 200 mm/s
accuracy	± 1 mm
cycles / hour	from 5 to 15
lifetime	250 000 cycles
safety factor	3.5 ~ 4 times



Lift table, KIA Motors, Mexico



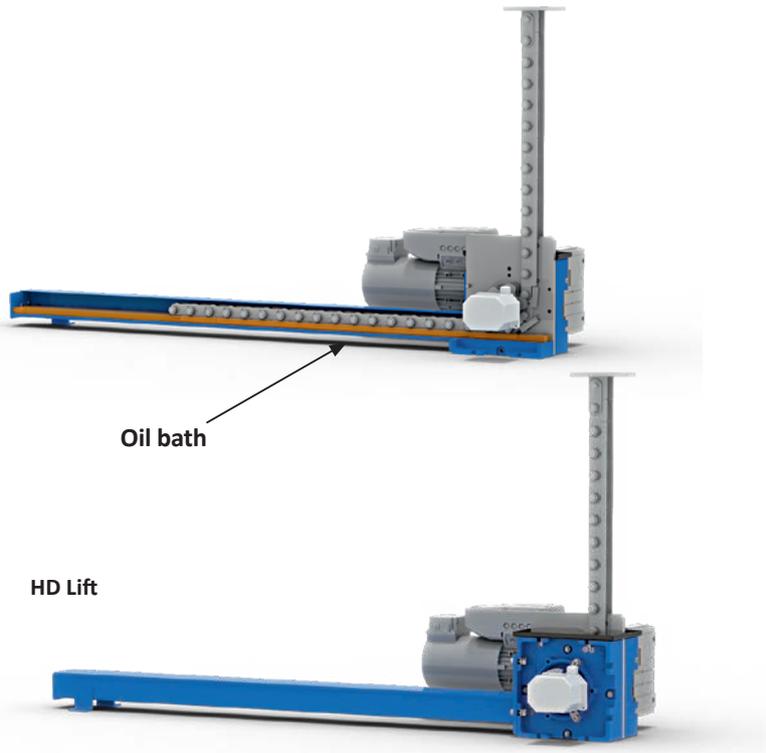
Product with bellow protection, Peugeot, France

ChainLift: life span of 250,000 cycles. It is a cost effective solution for FALS applications.

HDLift: life span of 1 million cycles. It is an ideal solution for applications that require high cycles and a long life span, such as Engine Mount, 1G mount, Suspension mount, Engine Assembly, as well as welding and painting, ...

VLB: is a newly developed product. Advantages of VLB compared to ChainLift and HDLift ranges are that VLB offers long stroke and high loads at an economical price.

Half of SERAPID's systems are bespoke solutions. Feel free to contact us with any challenging applications.



HDLift	
capacity	up to 50 kN
max. stroke (dep. on load)	up to 2 500 mm
speed (dep. on load)	up to 300 mm/s (500 mm/s max on request)
accuracy	± 1 mm
cycles / hour	> 15 (average 50 cycles per hour)
lifetime	1 000 000 cycles
safety factor	3.5 ~ 4 times



Lift table with bellow protection, SMGW, China



HDLift actuator

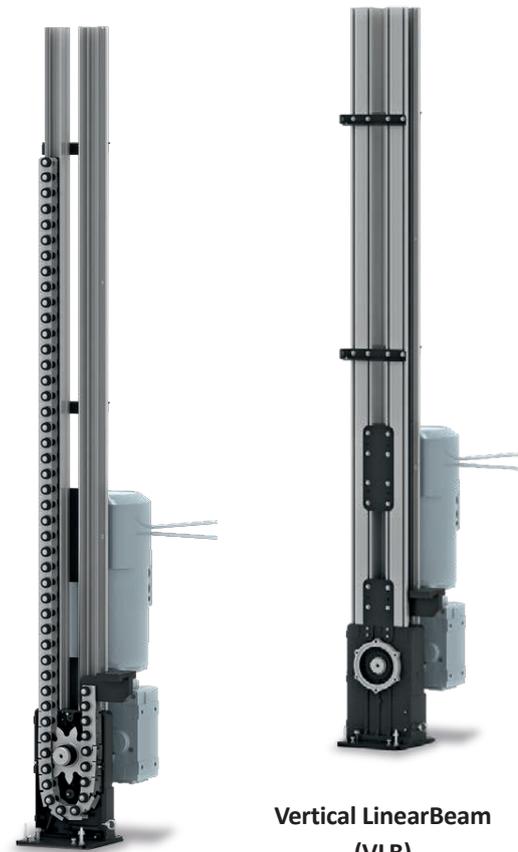


Lift table, Turkey

VLB 60S	
capacity	25 kN
max. stroke (dep. on load)	3 000 mm (over stroke on request)
speed (dep. on load)	up to 300 mm/s (500 mm/s max on request)
accuracy	± 1 mm
cycles / hour	from 5 to 15
lifetime	400 000 cycles
safety factor	3.5 ~ 4 times



Lift table with lateral elevation systems, GM Korea



Vertical LinearBeam
(VLB)

SERAPID was established in 1972, with its headquarters in Normandy, France. SERAPID has offices in the United Kingdom, Germany, Italy, United States, Mexico, Brazil, Singapore and China. The company provides after sales service worldwide.

They trust us:

Volkswagen, Peugeot, Renault, KIA Motors, General Motors Korea, Hyundai Motors, BAIC Motor, Tianjin Faw Xiali, SGMW, Anhui Jianghuai, Dongfeng Honda, Guangzhou Mitsubishi Motor, Guangzhou Honda, ...

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