

LS LINK COMPACT LINK CONVEYOR SYSTEM TECHNICAL DATA



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GREAT SOLUTIONS

LS Link Compact is a servo-driven Precision Link Conveyor System for workpiece transport in automated assembly and packaging applications. It complements the WEISS Linear Transfer System portfolio, deliberately filling the gap between high-precision, cost-intensive linear transfer systems and simple conveyor solutions on the market. The system is optimally designed for applications with moderate precision requirements, combining stable, reproducible, and efficient processes in an economically balanced system concept.

The drive is provided by a servomotor in combination with a backlash-free precision cycloidal gearbox. Together with the thoughtfully designed guidance concept, LS Link Compact is particularly suited for high-volume, line-shaped automation and assembly processes with standardized cycle times.

LS Link Compact enables linear movements up to 8 meters and is designed for workpiece weights of up to 1.5 kg. With a positioning accuracy starting at ± 0.1 mm, the system is ideal for applications that do not require ultrahigh precision.

The motion of the workpiece carriers is transmitted via a durable, low-maintenance precision chain assembly. The chain links are manufactured with tolerances below $5 \mu\text{m}$ and connected using high-quality double-needle bearings. The workpiece carriers are positively fastened, ensuring stable positioning even under high process forces or after crash situations.

In summary, LS Link Compact is the best Precision Link Conveyor System for light workpieces, perfectly balancing precision, dynamics, and cost-efficiency.

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For more details on LS Link Compact, please visit weiss-world.com

Subject to technical modifications and other changes.

Downloads

WEISS CAD Download Portal



LS LINK COMPACT LINK CONVEYOR SYSTEM

TECHNICAL SPECIFICATIONS

SPECIFICATIONS

Max. load	Up to 1.5 kg per chain link (horizontal & vertical mounting position)
Process forces (without support) ¹	Up to 50 N
Mounting position	horizontal & vertical
Design	Oval with 180° corner
Direction of movement	Counterclockwise (CCW), clockwise (CW)
Chain link length	100 mm
Availability	> 95 %
Guidance module repeatability ^{2,3}	±0.1 mm
Strokes (exchange time)	Up to 0.3 sec. for 200 mm
Expandability	Stand alone

CONNECTIONS

Power supply	200 – 480 V, 50 – 60 Hz
Fieldbus interface	EtherCAT PROFINET EtherNet/IP Digital I/O
Workpiece carrier identification	No

SOFTWARE & SERVICES

Communication interface module for SPS	For all common SPS providers
Services	Worldwide service

PHYSICAL DATA

Guidance module _{W×H×D}	Total length from 1,000 mm to 8,000 mm × 180 mm × 244 mm
Chain link length _{W×H}	100 mm × 70 mm
Base frame	Upon request

The specified technical data may vary depending on the application.



You can find more information on LS Link Compact at weiss-world.com

¹ Depending on the application, the maximum process forces may deviate.

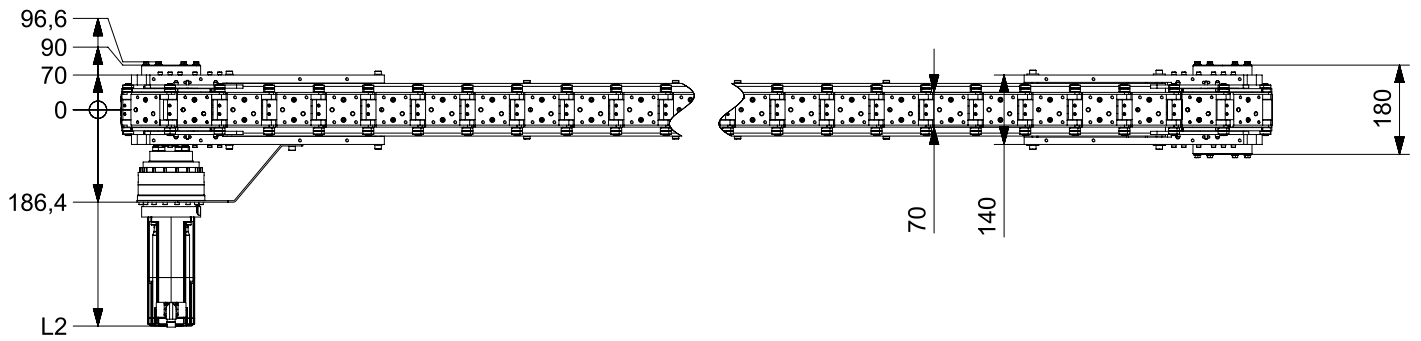
² The positioning accuracy may vary depending on the system length.

³ The positioning accuracy on straight sections up to a length of 1,000 mm is ±0.1 mm. With each additional 1,000 mm extension, the positioning accuracy is reduced by only ±0.01 mm. This results in a positioning accuracy of ±0.12 mm for a total length of 3,000 mm.

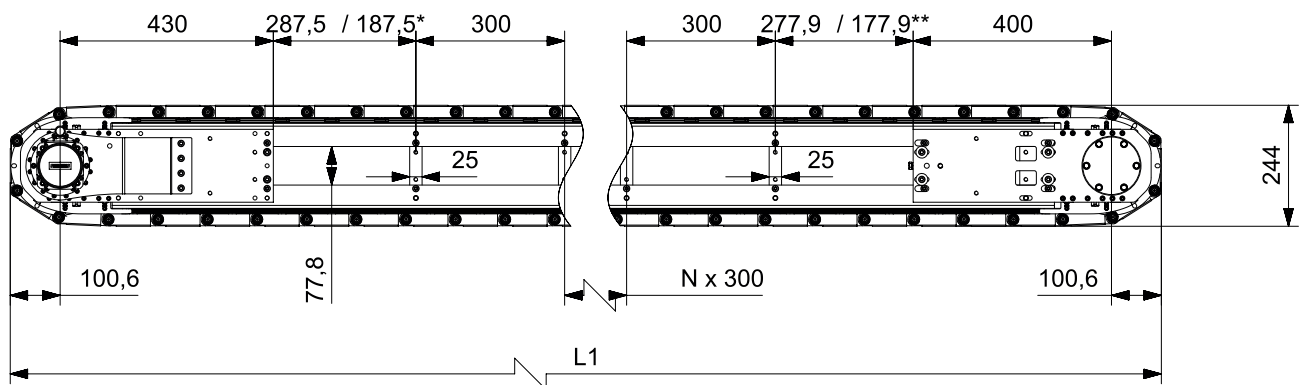
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PHYSICAL DATA

Front View



Plan View



Chain Link Detail View. Link length 100 mm.

