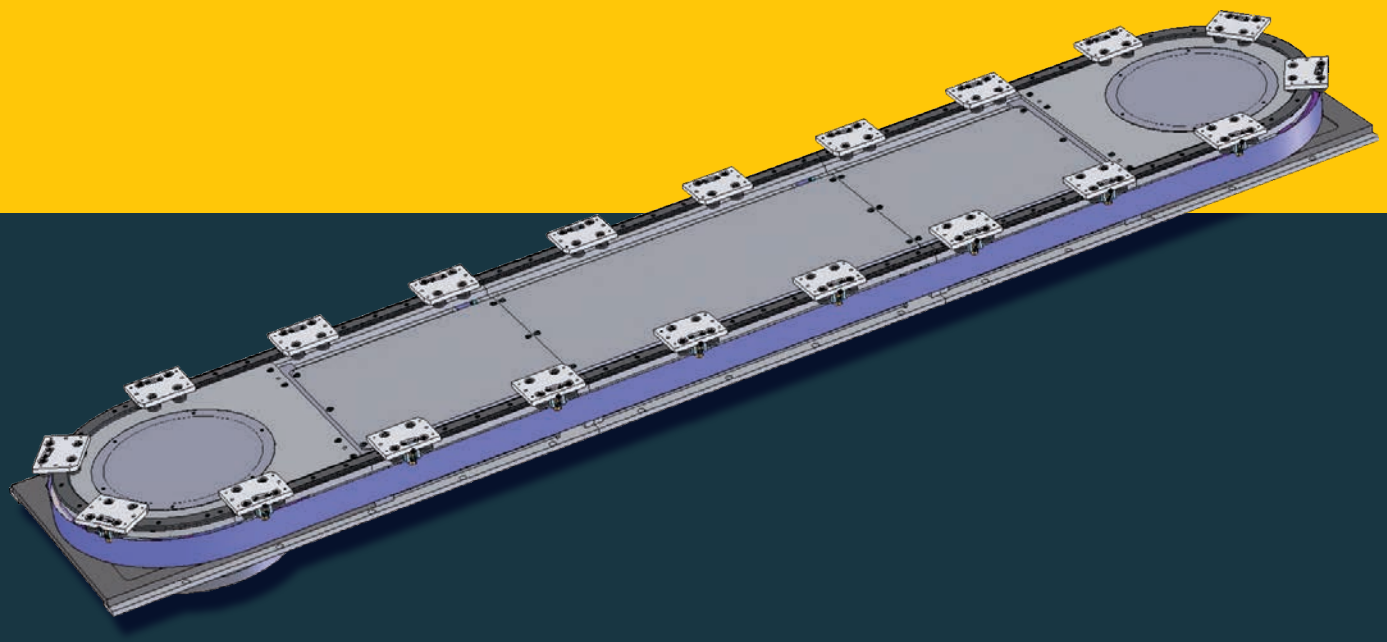
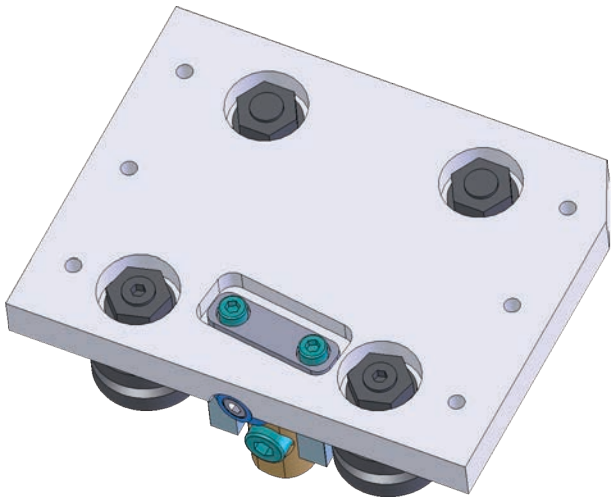
TAKTOMAT

passion for automation



Linear indexing systems flexible and precise

LB Series



LB linear indexing systems – construction and operation

The transfer system is made up of a self-supporting base frame that is divided into a number of segments. The shortest variant comprises two end units of the same length. Intermediate units of varying lengths can be fitted to expand the system. Each of the end units is fitted with an idler pulley.

A divisible steel belt is tensioned around these idler pulleys to form a friction lock. A laminated cup spring tensions the idler pulley to achieve the friction lock. A torque motor is flanged directly to the drive wheel. A high-resolution measurement system ensures ultra-precise positioning.

A high-quality, prismatic rail guide system is fitted to the outside of the base frame. Workpiece carriers run on these rails, and your workpiece holders are mounted on the carriers, either directly or using adapter plates. The workpiece carriers are secured to the steel belt using special clamping units that are fitted with an adjustment mechanism.

The number of workpiece carriers and the distance between them can be freely selected. You can also freely select whether you want the system to stop once for each workpiece holder or multiple times at different distances. Additional securing of the workpiece carriers is not necessary.

There are no fixed limits to the standard Taktomat product range. Development of flexible special designs beyond what you will find in the product catalog has been a key facet of our corporate philosophy for many years now. For this reason, we reserve 10 % of our overall manpower resources for design activities. And we make this pool of staff and their associated expertise available to our customers each and every day.

When developing new products, we constantly strive to make use of the very latest insights and technologies. Thus, for instance, modern torque motors are used in the LB transfer systems in place of three-phase AC drives and servo drives.

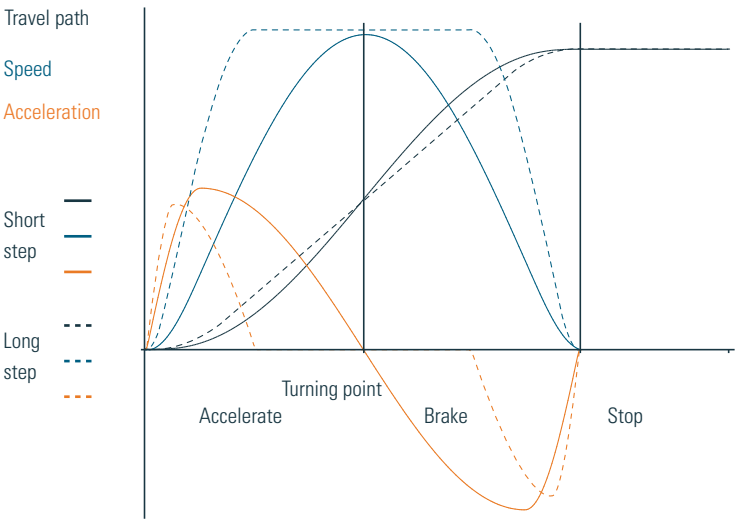
Our comprehensive design expertise allows us to precisely meet customer requirements. We combine the benefits of different types of drives to deliver new and complete solutions that will add real value to your processes. This is the added value that we have been giving our customers from a wide range of industries over many years.

Benefits for designers and custom machine engineers

- Vertical deployment - Empty workpiece carriers are returned along the underside of the system to save space
- Horizontal deployment in an oval - both sides of the system can be used for assembly operations
- Standard drilling pattern on the base frame and workpiece carriers simplify design and installation
- Modular structure - The system can be expanded as needed using intermediate units
- The support plates on the intermediate units can subsequently be removed and drilled with fixing holes for the equipment they are to carry

Meeting custom requirements

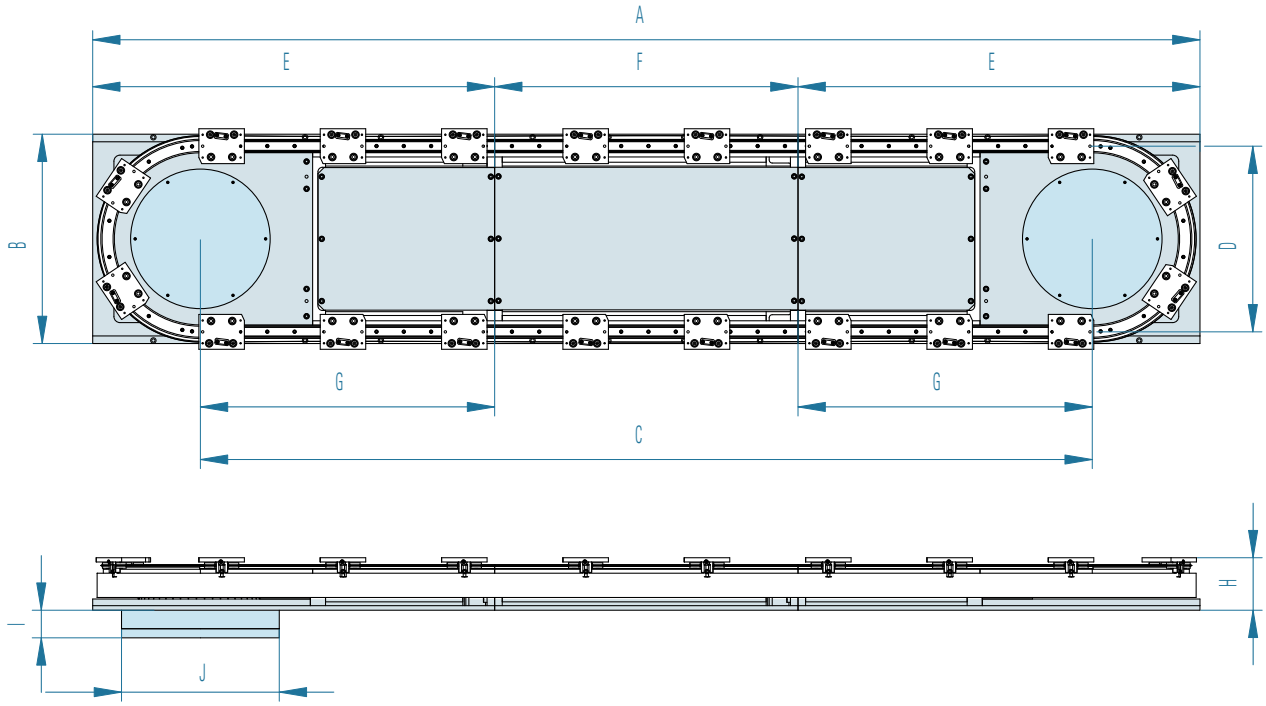
- Free choice of drive - Either supplied complete from Taktomat or any drive you wish
- Different sizes allow the system to be adapted to your needs
- We provide on-site support for assembly and commissioning
- Paint finishing to customer requirements at no extra cost



Technical benefits for users

- High reliability and long service life
- Robust construction
- Not susceptible to crashing, as the drive relies on friction locking rather than on positive locking
- Wear-free due to felt pads for lubrication and cleaning that travel in the guide rails
- No additional detent needed, saving you time and control outlay
- Positioning accuracy: ± 0.06 mm
- Short cycle times, even with long distances between the workpiece carriers
- Cost-effective because the number of workpiece carriers and the distance between them can be precisely matched to your process

Dimensions of LB linear indexing system

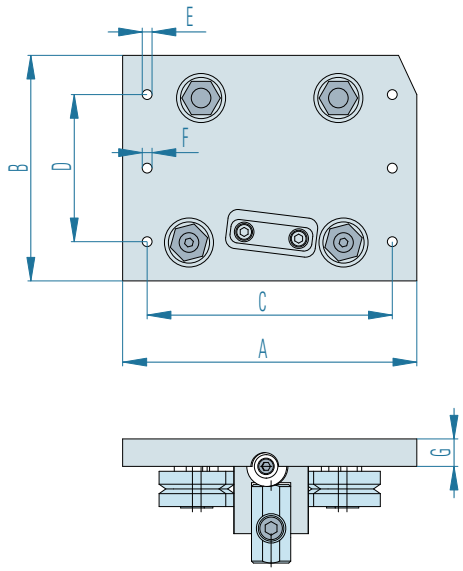


Type	A	B	C	D	E	F	F	F	F	G	H	I	J	Belt length
LB025-255	1400+Fx	320	1045+Fx	255	700	1000	1500	2000	3000	522.5	113	250	300	3000+2Fx
LB025-351	1900+Fx	416	1390+Fx	351	950	1000	1500	2000	3000	695	113	300	350	4000+2Fx
LB044-612	2650+Fx	690	1940+Fx	612	1325	1000	1500	2000	3000	970	173	500	520	6000+2Fx
LB076-1033	3550+Fx	1160	2250+Fx	1033	1775	1000	1500	2000	3000	1125	220	600	650	8000+2Fx

Fx = Total number of F modules

Carrier offset = belt length / number of carriers

Workpiece carrier



Type	A	B	C	D	E	F	G
LB025-255	105	80	90	60	M5	4H7	10
LB025-351	105	80	90	60	M5	4H7	10
LB044-612	150	115	125	75	M6	5H7	14
LB076-1033	210	185	180	100	M8	6H7	18

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Rudolf-Diesel-Str. 14 D 86554 Pöttmes Tel +49 (0)8253-9965-0 Fax +49 (0)8253-9965-50
info@taktomat.de www.taktomat.de

In cooperation with:

Motion
INDEX DRIVES, INC.