High Performance with Optimal Lifting and Material Handling

HabaSYNC® Flat Timing Belts

Designed to meet industry needs
In many lifting or handling applications where linear movement is linked with a winding function, optimal performance and high reliability and strength are crucial. After all, applications to move platforms, weights or elevators need to provide not only trouble-free operation but also safety.
Flat timing belts are an ideal alternative to hydraulic cylinders for scissor-type lifting tables, or chains and steel cables for the vertical transport of motor vehicles. Due to their flexible construction, flat timing belts permit the use of smaller pulley diameters compared to traditional systems, resulting in valuable space- and cost savings. Additionally, thanks to their maintenance-free operation with no re-tensioning or lubrication, flat timing belts ensure significant reductions in the total cost of ownership.

Benefits

The use of flat timing belts enables compact drive configurations with low inertia, which reduce not only manufacturing costs but also power consumption. They run smoothly and ensure excellent power transmission. Tensile members embedded in the belts' polyurethane material make these belts extremely flexible, hard-wearing, and durable.

Great flexibility and traction

High resistance to external factors and maintenance-free operation

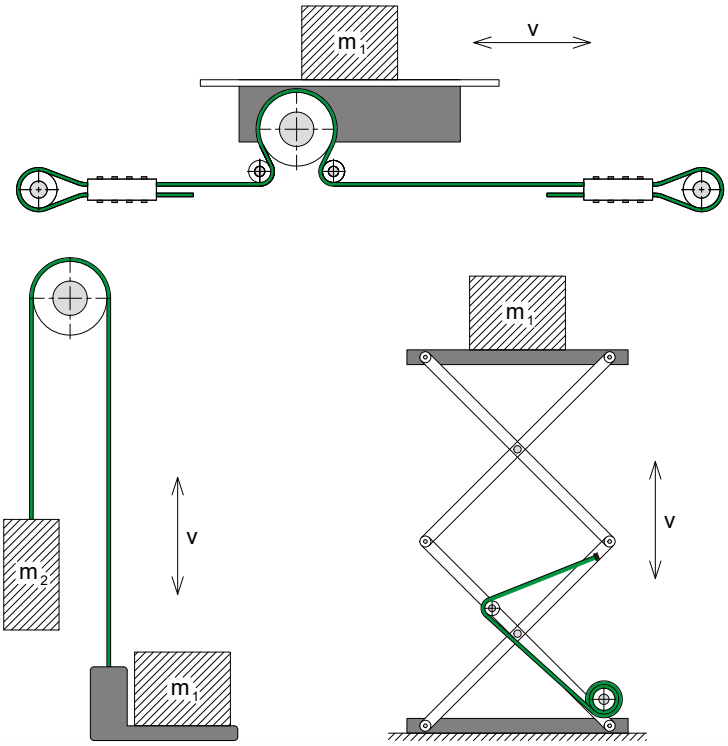
Small pulleys with compact and flexible drive design (space-saving)

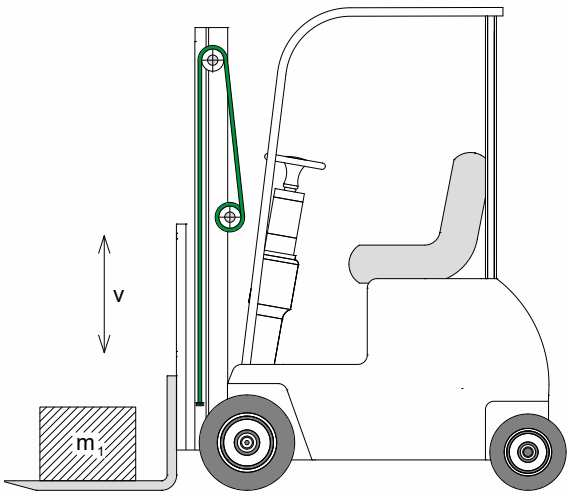
Optimal belt design for dimensional stability under load

Excellent running properties in terms of noise and vibration

Material handling and automotive applications

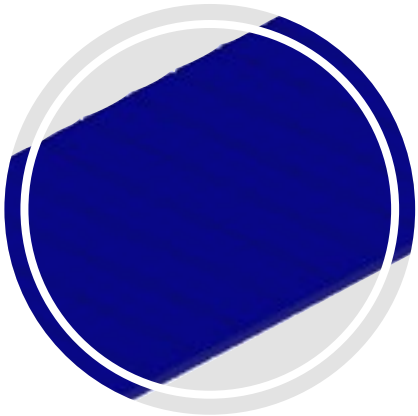
Flat timing belts are used in applications with linear drives where the precise indexing accuracy of timing belts is not required, but their tensile strength is. They are used to transport vehicle bodies, for example truck cabs on assembly lines or pallets, and mesh pallet boxes in material flow and warehousing operations. Due to their versatility, flat timing belts can also be used in many other applications.





Key technical data
Flat timing belts are available in many different versions to meet industry requirements:

- Standard thickness 1.5 mm, 2 mm, and 3 mm in tight thickness tolerances. Other variants on request
- Standard version and not exposed cords version
- Belt widths from 25 mm to 150 mm
- Different colors and base materials available on request
- Materials compliant with FDA/EU regulations available
- ESD material properties on request
- Polyamide fabric available on one or both sides
- Various coatings and cleats
- Excellent performance under dynamic load - offering the smallest belt elongation within its life cycle



TPU type	Material	Color	Hardness (ShA)	Temp. range (˚C)	Temp. range (˚F)	Food compliance
01	Polyester urethane	White	92	From -20 to 80	*From -4 to 176*	
04	Polycarbonate urethane	White	92	From -20 to 80	*From -4 to 176*	
05	Polyether urethane	Blue	90	From -30 to 80	*From -22 to 176*	●
06	Polyester urethane	Black	92	From -20 to 80	*From -4 to 176*	
09	Polycarbonate urethane	Black	92	From -20 to 80	*From -4 to 176*	
16	Polyester urethane	Transparent	85	From -30 to 80	*From -22 to 176*	○
22	Polyester urethane	Transparent	90	From -20 to 70	*From -4 to 158*	●

● FDA/EU
○ FDA

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