

MovingCap maxTRACK
Precision linear axes for extended motion ranges

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MovingCap maxTRACK is a high-performance drive and guidance module, ideal for long travel distances. It combines compact drives with high-quality timing belt axes, enabling efficient, cost-effective, and precise linear motion. The perfectly matched components ensure high repeatability, dynamics, durability, and ease of maintenance. Additionally, the modules can be easily integrated into existing systems and cost-effectively expanded.



Linear axes type MovingCap maxTRACK

With directly mounted compact drives from the MovingCap turnTRACK series

The facts:

High load capacity:

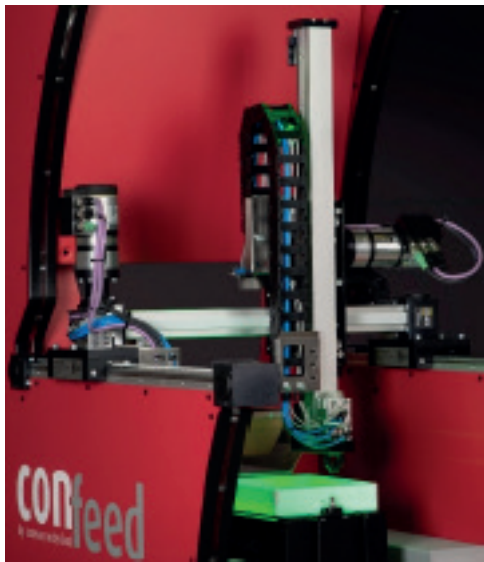
- High load capacity
- Robust carriage center section minimizes lateral bending
- Optimal guide positioning prevents profile compression
- Wide and long carriages for improved moment absorption
- Optional, retrofittable profile reinforcements enhance stability

High precision:

- Maximum precision
- Precisely adjustable, backlash-free rollers with felt wipers for protection against contamination
- Longitudinally adjustable carriage for millimeter-accurate positioning
- High-precision AT timing belt with steel reinforcement for exact movement guidance
- Precisely machined steel pulleys with double-sided bearings
- Various encoder systems available for flexible application options

High user-friendliness:

- User-friendliness & easy integration
- MovingCap drives with integrated web interface
- Simple control via I/O or fieldbus
- Quick installation and easy system integration
- High serviceability
- Rotatable guide shafts for easy maintenance in case of wear



Technical Data:

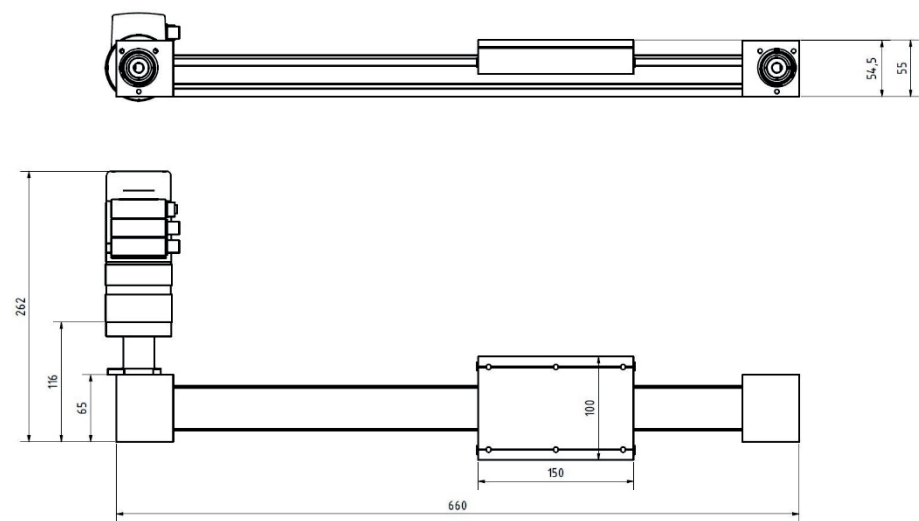
Schlittenbelastungen (dynamisch)/carriage forces (dynamic)/force de chariot (dynamique)/forze sulla slitta (dinamico)

Achsprofil profile taille mm	Schlitten carriage chariot mm	Rollen bearings galets	für Last horizontal* horizontal load* charge horizontale*	Fy(max) N	Fz(max) N	Mx(max) Nm	My(max) Nm	Mz(max) Nm
M...40	100	4	10 kg	1200	930	20	20	40
	150						30	60
	250						50	100
M...60	115	4	50 kg	2500	1600	43	70	100
	150						90	130
	200						120	170
	300	6		3100	2200	54	180	250
	500	8				65	300	400
M...90	200	4	200 kg	6500	3800	190	250	500
	300						375	600
	400	6	300 kg	8500	5000	240	550	800
	500						700	1000
	600						840	1200

Example conîguration:

Belt-driven linear axis MZK040 with 150 mm carriage & MovingCap compact drive turnTRACK349 with planetary gearbox and absolute encoder

MovingCap maxTRACK 349_MZK040





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