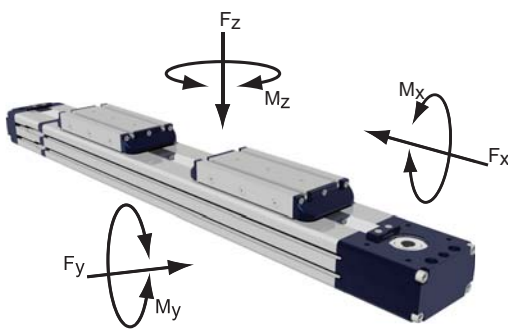
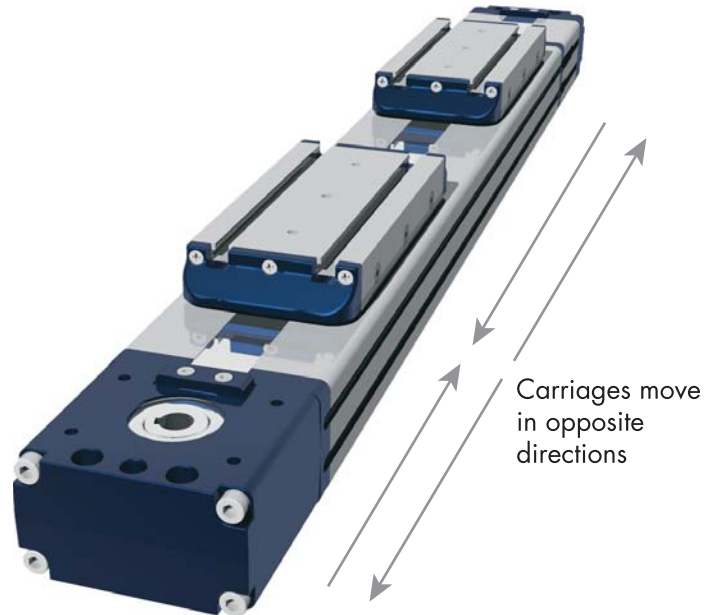


MTD Series

MTD 42 Belt Driven Units - Linearantrieb Baureihe MTD 42

Belt driven guided unit using a flat design. Extruded aluminium anodized 6060 alloy, tempred stainless steel protection band. Carriage with Sealed system to protect against pollution.

Linearantrieb mit flachem Profil und Kugelumlauführung. Profil aus eloxiertem Aluminium 6060. Schutzblech aus gehärtetem Edelstahl. Dichtsystem für den Schlittenschutz gegen Staub.



**Max values for dynamic conditions. Please refer to the following formula when combined loads are applied.

*Für die Ermittlung der maximalen dynamischen Tragzahlen bei kombinierten Kraftangriffspunkten, nutzen Sie bitte die nebenstehende Berechnungsformel.

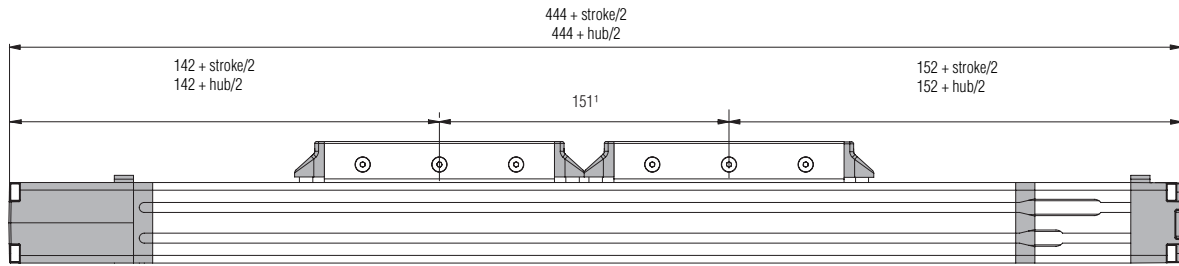
$$\frac{F_{y_A}}{F_y} + \frac{F_{z_A}}{F_z} + \frac{M_{x_A}}{M_x} + \frac{M_{y_A}}{M_y} + \frac{M_{z_A}}{M_z} \leq 1$$

The A letters show the calculated value.

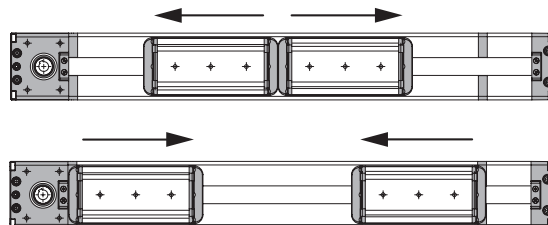
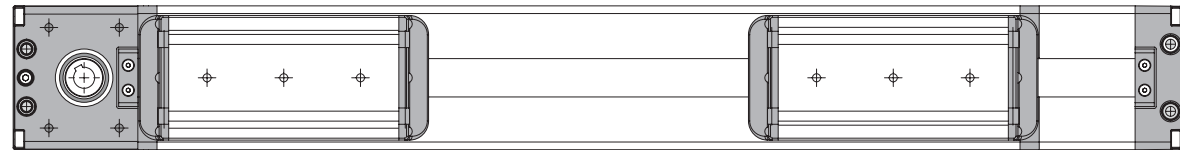
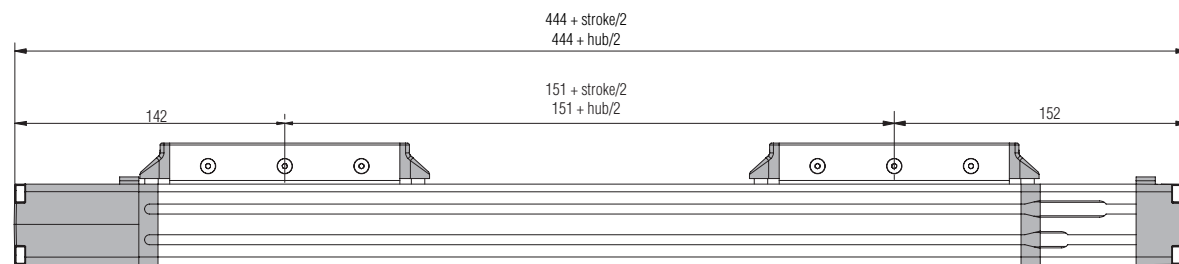
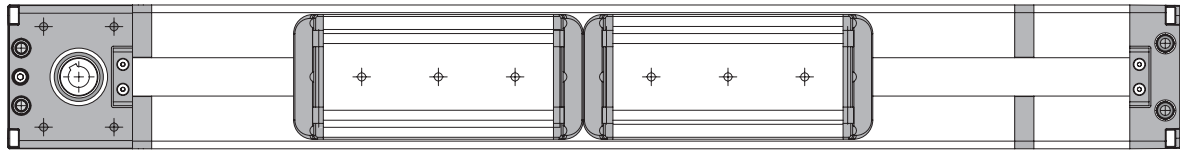
TECHNICAL DATA - TECHNISCHE DATEN

Size - Baugröße	mm	42 x 75	
Number of runner blocks - Führungswagen		2	1
Max. speed - Max. Geschwindigkeit	m/s	3	
Max. stroke length - Max. Hub	mm	3000*	
Min. stroke length - Min. Hub	mm	100	
Pulley drive ratio - Hub pro Umdrehung	mm	130	
Number of teeth of pulley - Zähne der Riemenscheibe		26	
Belt profile AT 5, width 12 mm - AT5-Profil Riemen 12mm Breite			
Max rpm - Max. Drehzahl der Antriebswelle	g/min	2000	
Base weight - Gewicht bei 0mm Hub	Kg	3.7	3.5
Add for 100 mm of stroke - Gewicht bei 100mm Hub	Kg	0.5	0.5
Max. load* - Max. Belastung	Fx	N	615
	Fy	N	1275
	Fz	N	1275
Moments* - Max. Belastungsmoment*	Mx	Nm	18
	My	Nm	110
	Mz	Nm	110
Inertia moment Aluminum profile - Flächenträgheitsmoment	Ix	cm ⁴	28
	Iy	cm ⁴	37
Repeatability - Wiederholgenauigkeit	mm	± 0,05	
Max. radial load on input shaft - Max. axiale Lasten an der Antriebswelle	N	250	
No load torque - Leerlaufmoment	Nm	1,4	1,2

DIMENSIONAL INFORMATION / ABMESSUNGEN



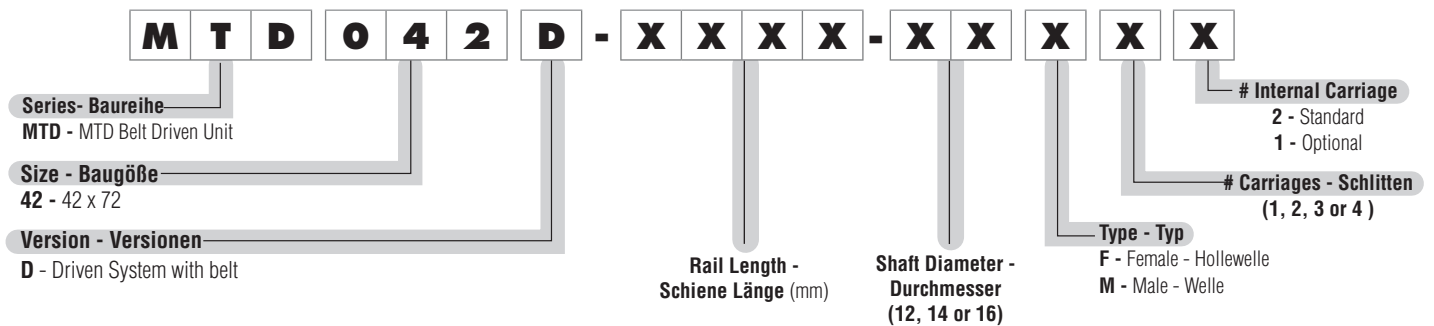
* Allow at least 35 - 50 mm between the carriages
 * Bitte beachten Sie wenigstens 35-50mm zwischen die 2



D* Bi-directional opposed movement

D* Bi- direktionale Ausführungs gegenläufige bewegungen

ORDERING INFORMATION / BESTELLANGABEN BAUREIHE



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The data and specifications in this publication have been carefully compiled and are believed to be accurate and correct. However, it is the responsibility of the user to determine and ensure the suitability of PBC Lineartechnik GmbH™ products for a specific application. PBC Lineartechnik GmbH™ only obligation will be to repair or replace without charge, any defective components if returned promptly. No liability is assumed beyond such replacement. Specifications are subject to change without notice.

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