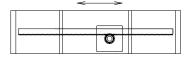
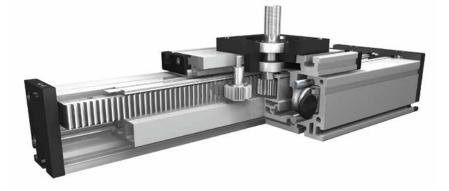
Linear system **DLZA 120, 160, 200**



RACK AND PINION DRIVE

- 🔆 HIGH LOADS
- HIGH DYNAMICS
- LONG TRAVERSE PATH >6000 мм
- ₩ SPACE SAVING





Function:

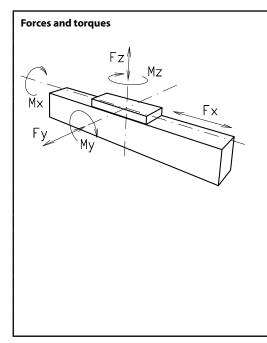
This unit consists of a rectangular aluminium profile with 2 integrated roller guides. The carriage, which has internal linear ball bearings that can be adjusted free of play, is driven along the guide rods by a high precision rack. The rack and pinion system is suitable for highly dynamic servo operation and ideal for lifting movements. The pinion is equipped with maintenance-free ball bearings. The rack is lubricated by a toothed felt wheel. With this series, multi-part assembled units with long strokes can be realized.

Fitting position: Carriage mounting: Unit mounting: Rack: Carriage support: As required. Max. length 6.000 mm without joints.

By T-slots.

By T-slots and mounting sets. The linear axis can be combined with any T-slot profile. 6h23 Modul 2 (hardened and ground), repeatability \pm 0,1 mm.

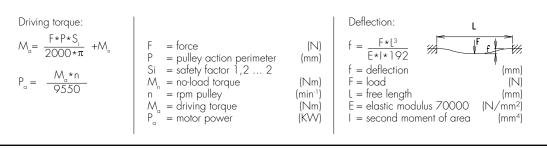
In the standard version, the carriage runs on 8 rollers which can be adjusted and serviced at a central servicing position. For longer carriages the number of rollers can be increased.



en 21.06.702.B

	Size	1	60	200			
For	ces/Torques	static	dynam.	static	dynam.		
	F _x (N)	1900	1800	4000	3800		
	F _v (N)	3000	2000	4400	3100		
	F _z (N)	3500	2800	4900	4400		
	M _x (Nm)	400	320	600	510		
	M _v (Nm)	360	300	560	480		
	M _z (Nm)	180	150	310	275		
All forces and torques	related to the following:		0				
existing values	Fy Fz Mx	Му	Mz				
table values	$\frac{Fy}{Fy} + \frac{Fz}{Fz} + \frac{Mx}{Mx} +$	My _{dyn} +	Mz _{dyn}				
No-load torque							
	Nm	1	,5	2,6			
Speed							
	(m/s) max		3	5,0			
Tensile force							
pe	rmanent (N)	19	900	3000			
Geometrical moments	s of inertia of aluminium profile						
	l _x mm ⁴	22,2	2x10 ⁵	63,8x10⁵			
	l _v mm ⁴	122,	0x10 ⁵	335x10 ⁵			
Elastic	modulus N/mm²	70	000	70	000		

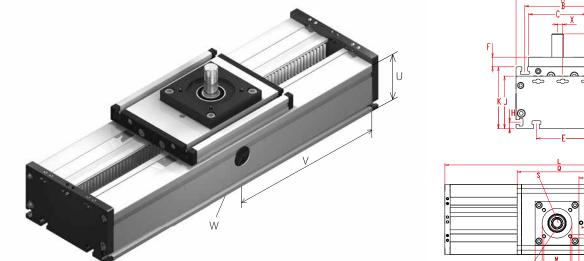
For life-time calculation of rollers use our homepage.

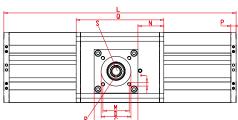


Linear system **DLZA 120, 160, 200**

Dimensions (mm)

134





V = Q + 100 mmW = servicing position

Increasing the carriage length will increase the basic length by the same amount.

Size	Basic length L	A	в	с	D ±0,05	E	F	G	н	ſ	к	м	N	O for	Ox for	Oy for	Р	Q	T for	U	x	Basic weight	Weight per 100 mm
DLZA 160	240	160	130	100	68	90	16,5	56,5	11	90	106	60	59	M 8	M 8	Μ6	12	200	M 8	80	8,5	13,0 kg	2,10 kg
DLZA 200	320	200	160	120	90	140	20	45	15	110	129	80	95	M 10	M 10	M 8	15	270	M 8	100	5	28,9 kg	6,15 kg

O Choice of guide body profile: Stainless versions upon request. (0) (1) internal profile internal profile with cover bands without cover bands 0 Choice of carriage: (1) (0) Π П 60000 6000 Version 0 Version 1 Version 2 Version 3 Size (3) (2) 0 0 0 L ο н П 160 200 240 250 290 >300 >340 6000 200 270 320 330 380 >410 >460 >535 >580 nÓn pya 1 Drive version: 2 3 5 4 1 Shaft dimensions: Shaft Pinion \odot Key \odot h6 x length Size \odot \odot R mm/rev Modul S 6x6x35 160 20 x 40 100,53 2 200 18 x 25 6x6x20 94,25 2 DLZA 160 1 0 0 1 0 0 1 1500 Basic length + stroke = total length

Pos 1 2 Sample ordering code:

DLZA160 with internal profile and cover bands, standard carriage,1260 mm stroke.



3 4 5 6 7

> Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2023-9452) © 2023 Bahr Modultechnik GmbH