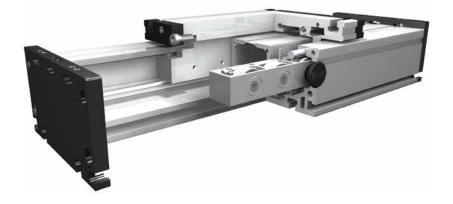
Linear system **DLR 120, 160, 200**

ROLLER UNIT

- WITHOUT DRIVE
- ■→ SUPPORT UNIT



REFEREN ONL

Function:

This unit consists of a rectangular aluminium profile with 2 integrated roller guides. The openings of the guide body are sealed with 3 stainless steel cover bands to protect the guide from splash water and dust. Alternatively, it can also be supplied without cover bands. The roller guide can be either driven by an internal pneumatic cylinder or other additional drives or it serves as load carrying linear slide.

Fitting position: **Carriage mounting:** Unit mounting: **Carriage support:**

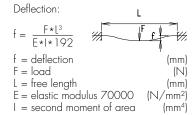
As required. Max. length 6.000 mm without joints.

By T-slots.

By T-slots and mounting sets. The linear axis can be combined with any T-slot profile. 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.

Forces and torques	Size	120		160		200									
	Forces/Torques	static	dynamic	statisch	dynam.	statisch	dynam.								
Fz	F _x (N)	-	-	-	-	-	-								
Mz	F _v (N)	1100	900	3000	2000	4400	3100								
	F _z (N)	1250	1000	3500	2800	4900	4400								
Mx	M _x (Nm)	150	125	400	320	600	510								
Fx Fx	M _v (Nm)	140	120	360	300	560	480								
Fy My	M _z (Nm)	100	90	180	150	310	275								
My		<u>-</u> y +	$\frac{1}{2}$ + $\frac{Mx}{Mx_{dy}}$	- +	- + $\frac{Mz}{Mz_{dyn}}$	≤1									
	Speed														
	(m/s) max 4 6				5	8									
	Geometrical moments of	of inertia of	aluminium pr	ofile			0								
	l _x mm⁴			x10 ⁵	63,8x10 ⁵										
	l _v mm⁴	38,6x10 ⁵		122,0x10 ⁵		335,0x10 ⁵									
	Elastic modulus N/mm ²	70000		70000		70000									

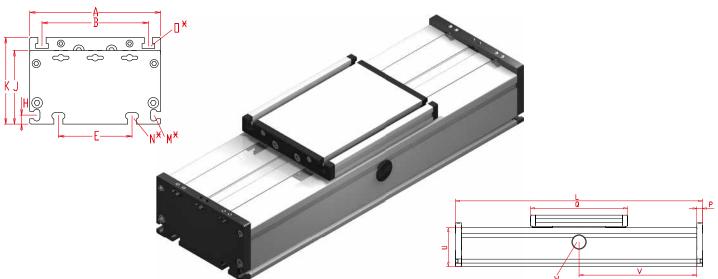
For life-time calculation of rollers use our homepage.





Linear system **DLR 120, 160, 200**

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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	E	н	J	к	M for	N for	O for	Ρ	Q	U	Basic weight	Weight per 100 mm
DLR 120	200	120	96	78	10	68	79	M 5	M 6	M 6	10	156	60	3,2 kg	0,71 kg
DLR 160	240	160	130	90	11	90	106	M 6	M 8	M 8	12	200	80	6,9 kg	1,42 kg
DLR 200	320	200	160	140	15	110	129	M 8	M 10	M 10	15	270	100	11,4 kg	2,30 kg

O Choice of guide body profile: Stainless versions upon request.



internal profile with cover bands

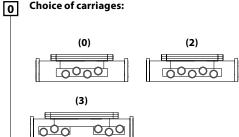
Choice of carriages:



internal profile without cover bands



without internal profile and cover bands



Size	Vers	ion 0	Vers	ion 2	Version 3			
	Q	L	Q	L	Q	L		
120	156	200	196	240	>236	>280		
160	200	240	250	290	>300	>340		
200	270	320	330	380	>410	>470		

Basic length + stroke = total length

Pos. 1 2 3 4 5 6 7 Sample ordering code:

DLR 160 0 0 0 0 0 0 0 0 0 0 01500

DLR160, with internal profile and cover bands, standard rollers, 1260 mm stroke.

