Positioning system DSR 120, 160, 200

Roller unit without drive



Function:

0

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

Fitting position:As requireCarriage mounting:By T-slots.Unit mounting:By T-slotsCarriage support:In the stan

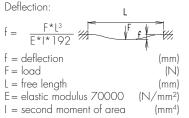
As required. Max. length 6.000 mm without joints.

By Tslots and mounting sets. The linear axis can be combined with any T-slot profile.
In the standard version, the carriage runs on 4 runner blocks which can be adjusted and serviced at a central servicing position. For longer carriages the number of runner blocks can be increased.

Forces and torques	Size	1:	20	10	60	200					
	permitted dyn. Forces*	5000 km	10000 km	5000 km	10000 km	5000 km	10000 km				
Fz∮	F _y (N)	1776	1405	2236 5278	1775 4189 224 225	5155 11311 752 813	4092 8977 597 646 684				
K. ⊂V S ^{MZ}	$F_z(N)$	2090	1650 64 77								
Mx -	M _x (Nm)	81		282							
FX	M _v (Nm)	97		283							
Fy	M _z (Nm)	96	76	300	238	862					
	C (N)	23	10	7800		22800					
	$\begin{array}{c c} \text{existing values} & Fy \\ \text{table values} & F_{y_{dyn}} & \bullet & Fz \\ \hline \end{array} \\ \bullet & \hline \\ \bullet & \hline \\ \hline \\ \bullet & \hline \\ \hline$										
	Speed		5	(F	5					
	(m/s) max		-		5 5						
	Geometrical moments of inertia of aluminium profile										
	mm ⁴	5,61×105		2,13x10 ⁶		4,81 ×10 ⁶					
	l _v mm⁴	34,19x10 ⁵			3x10 ⁶	26,0 x10 ⁶					
	Elastic modulus N/mm ²	70	000	70	000	70000					

* referred to life-time

Formula: DSR



Nominal lifetime:

L

С

F

 $=\left(\frac{C}{F}\right)^3 \times 10^5$

= Lifetime in meter = Dynamic load factor (N) = Middle load (N)

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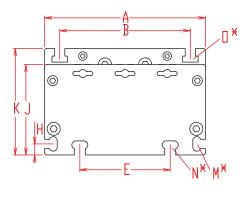






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Dimensions (mm)

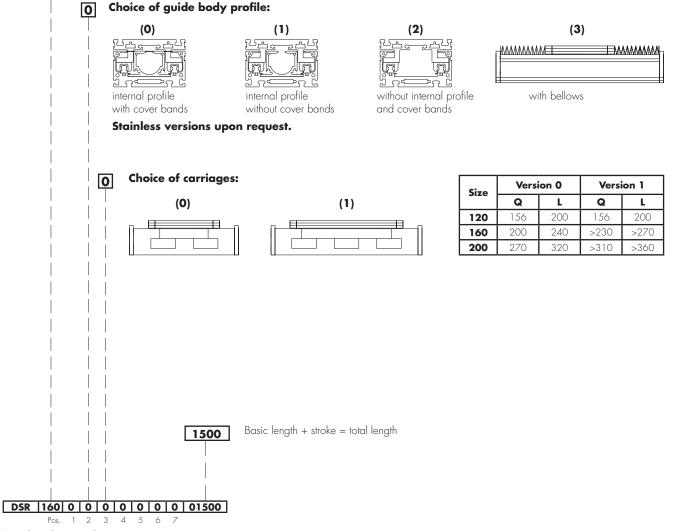


Increasing the carriage length will increase the basic length by the same amount.

*For slide nuts refer to chapter 2.2 page 2

V = Q + 100 mm W = servicing position

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
DSR 120	200	120	96	78	10	68	79	M 5	M 6	M 6	10	156	60	3,2 kg	0,71 kg
DSR 160	240	160	130	90	11	90	106	M 6	M 8	M 8	12	200	80	7,0 kg	1,5 kg
DSR 200	320	200	160	140	15	110	129	M 8	M 10	M 10	15	270	100	15,0 kg	2,9 kg



Rost frei

Sample ordering code:

DSR160, with internal profile and cover bands, standard runner blocks, 1260 mm stroke.





