Linear system **DSSZ 120, 160, 200**

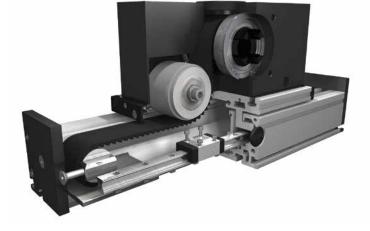


BELT DRIVE

 Ω omega system

HORIZONTAL INSTALLATION POSITION

(RG) OFF-CENTER LOADS



Function:

This linear unit consists of a rectangular aluminium profile with integrated rail guides. The carriage, which has runner blocks, is driven by a timing belt. Each standard pulley includes a coupling claw on one side and is equipped with maintenance-free ball bearings. Belt tension can be readjusted by a simple screw adjustment device in the carriage. This device can also be used for symmetrical adjustment of two or more linear units running parallel.

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

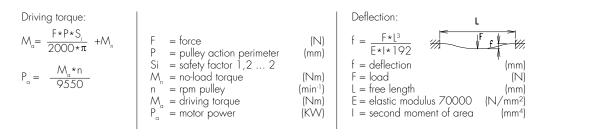
By T-slots.

By T-slots and mounting sets. The linear axis can be combined with any T-slot profile. HTD with steel reinforcement, no backlash when changing direction, repeatability \pm 0,1 mm. In the standard version, the carriage runs on 4 runner blocks which can be serviced at a central servicing position. For longer carriages the number of runner blocks can be increased.

Forces and torques	Size	1	20	1	60	200								
orces and torques	permitted dyn. Forces*	5000 km	10000 km	5000 km	10000 km	5000 km	10000 km							
Fz	F _x (N)	1900	1800	4000	3800	5900	5750							
Mz	F _Y (N)	1776	1405	5570	3900	15600	11080							
	F _z (N)	2090	1650	7050	5020	20600	14600							
Mx Fx	M _x (Nm)	81	64	358	255	1285	915							
Fy	M _v (Nm)	97	77	369	262	1375	980							
My	M _z (Nm)	96	76	364	258	1345	960							
	All forces and torques related to the following:													
	existing values Fy	. Fz	Mx + My	+ <u>Mz</u> ≤1										
	table values $\overline{Fy_{dyn}}$ + $\overline{Fz_{dyn}}$ + $\overline{Mx_{dyn}}$ + $\overline{My_{dyn}}$ + $\overline{Mz_{dyn}}$ SI													
	No-load torque													
	(Nm)	1	1,4	1	,8	2,2								
	Speed	· •		•										
	(m/s) max		5		5	5								
	Tensile force													
	permanent (N)	19	900	40	000	5900								
	0,2 s (N)	20	090	43	300	6350								
	Geometrical moments of inertia of aluminium profile													
	l _x mm ⁴	5,6	1x10 ⁵	2,13	3x10 ⁶	48,07 x10 ^₅ 259,99 x10 ^₅								
	l _v mm⁴	34,1	9x10⁵	12,3	3x10 ⁶									
	Elastic modulus N/mm ²	70	0000	70	000	70000								

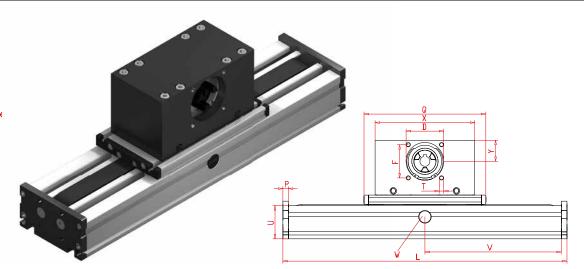
For life-time calculation use our homepage.

* referred to life-time



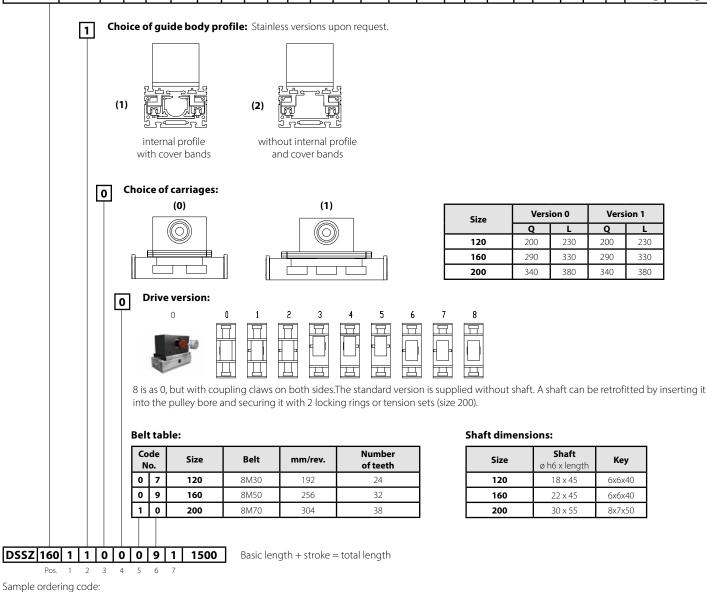


Linear system **DSSZ 120, 160, 200**



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	J	к	l for	M for	N for	O for	Р	Q	R	s □	т	U	x	Y	Basic weight	Weight per 100 mm
DSSZ 120	230	120	96	100	68	78	60	100	10	68	79	M 6	M 5	Μ6	Μ6	10	200	39	42	M 8	60	180	39	12,0 kg	1,2 kg
DSSZ 160	330	160	130	130	90	90	80	130	11	105	106	M 8	M 6	M 8	M 8	12	290	53	60	M 10	80	270	60	27,8 kg	1,8 kg
DSSZ 200	380	200	160	160	110	140	100	143	15	128	129	M 10	M 8	M 10	M 10	15	340	62,5	95	M 10	100	310	62	53,0 kg	2,6 kg



DSSZ160, body profile with internal profile without cover bands, standard carriage, coupling claws on one side, 1170 mm stroke



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 Bahr Modultechnik GmbH Dimensions (mm)