

Load ratings and sizes

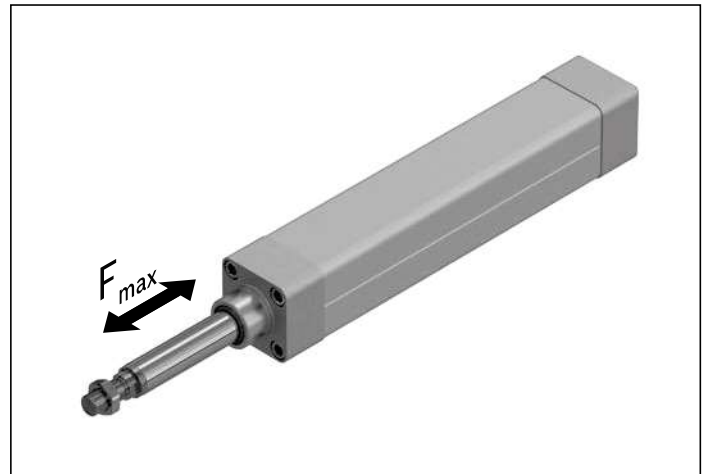
Note on dynamic load ratings

In relation to the desired service life, generally speaking an equivalent dynamic axial load of up to about 20 % of the dynamic load rating (C) has proven effective.

(see also service life graphs in the “Technical Data” section).

Here the following must not be exceeded:

- The maximum permissible drive torque
- The maximum permissible load
- The maximum permissible linear speed
- The maximum permissible acceleration



The size designation 32 to 100 is selected according to the piston diameter of an ISO 15552 standard cylinder.

The built-in ball screw drives have a diameter of 12 mm to 50 mm.

EMC	$d_0 \times P$	C (N)	F_{max} (N)	$s_{max\ perm}$ (mm)	v_{max} (m/s)
32	12 x 5	3800	1200	750	0.57
	12 x 10	2500	750		1.13
40	16 x 5	12300	4500	750	0.38
	16 x 10	9600	3000		0.77
	16 x 16	9600	2000		1.23
50	20 x 5	14300	7800	900	0.32
	20 x 10	14100	5500		0.63
	20 x 20	13300	3200		1.27
63	25 x 5	15900	15900	1200	0.28
	25 x 10	15700	14800		0.55
	25 x 25	14700	8000		1.38
80	32 x 5	21600	21600	1500	0.25
	32 x 10	26000	22000		0.50
	32 x 20	19700	15000		1.00
	32 x 32	19500	10400		1.60
100	40 x 5	29100	29100	1500	0.18
	40 x 10	42100	29000		0.37
	40 x 20	37900	29000		0.73
	40 x 40	37000	22900		1.47
100XC	50 x 10	79000	56000	1500	0.50
	50 x 20	93000	50000		1.00

C	= Dynamic load rating of the EMC
d_0	= nominal diameter of ball screw
F_{max}	= max. load
P	= screw lead
$s_{max\ perm}$	= maximum permissible travel range
v_{max}	= maximum permissible linear speed