

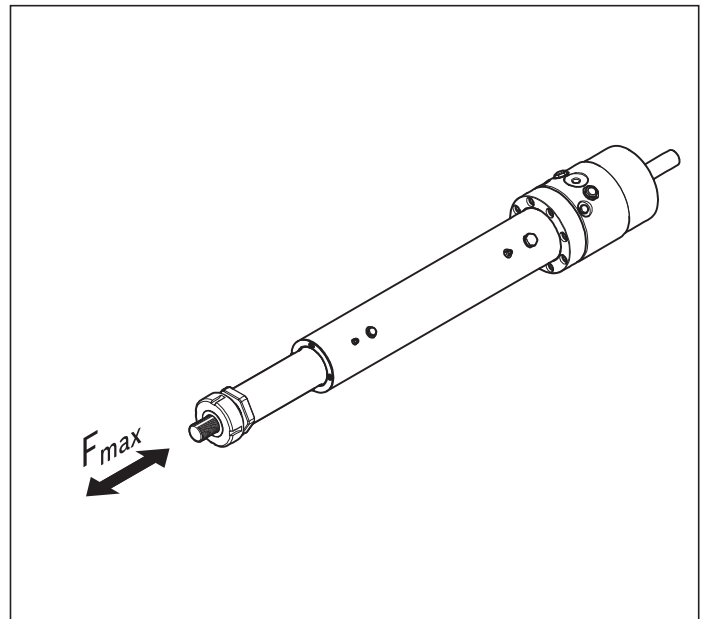
Load ratings and sizes

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



EMC-HD	Drive unit	$d_0 \times P$ (mm)	C (N)	F_{max} (N)	$s_{max perm}$ (mm)	v_{max} (m/s)
085	PLSA	30x5	87 000	44 000	700	0.42
		30x10	98 000	44 000		0.83
	Ball screw	40x10	72 000	44 000		0.63
		40x20	95 000	38 000		1.00
125	PLSA	48x5	188 000	95 000	1 200	0.26
		48x10	211 000	110 000		0.52
	Ball screw	63x10	88 000	88 000		0.40
		63x20	130 000	85 000		0.80
180	PLSA	75x10	470 000	250 000	1 700	0.33
		75x20	470 000	290 000		0.67

- C = dynamic load rating
- d_0 = diameter of screw drive
- F_{max} = maximum permissible axial force
- BS = Ball Screw Assembly
- PLSA = Planetary Screw Assembly
- P = screw drive lead
- $s_{max perm}$ = maximum permissible linear travel
- v_{max} = maximum linear speed