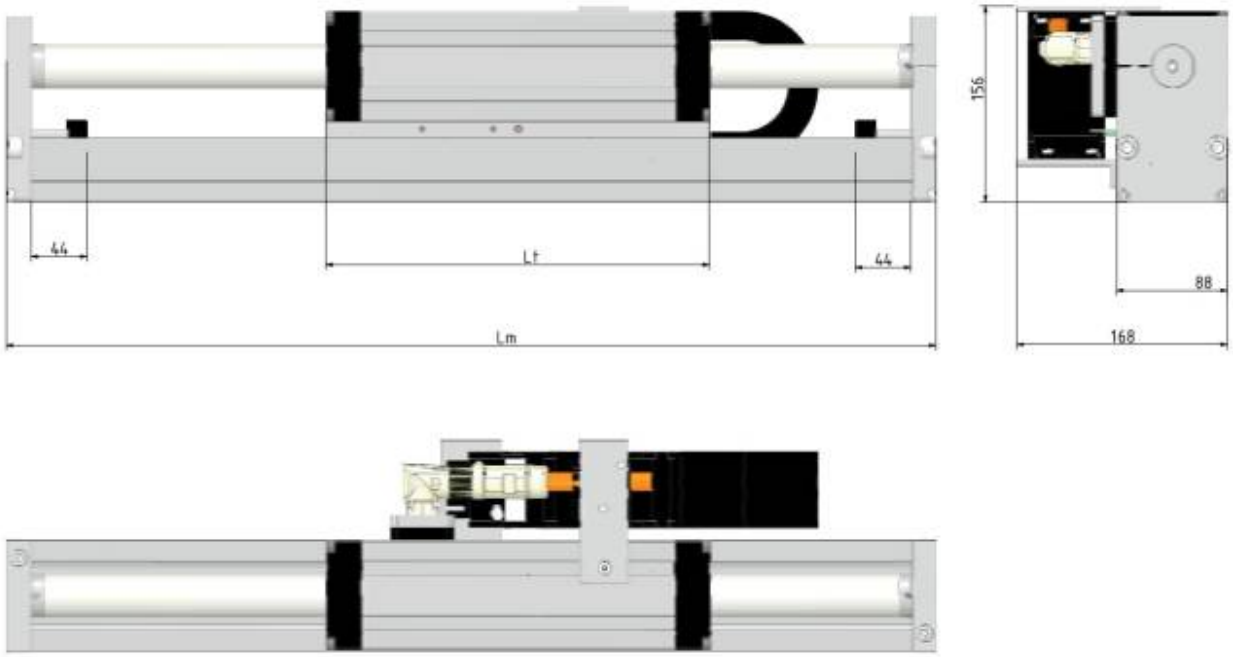
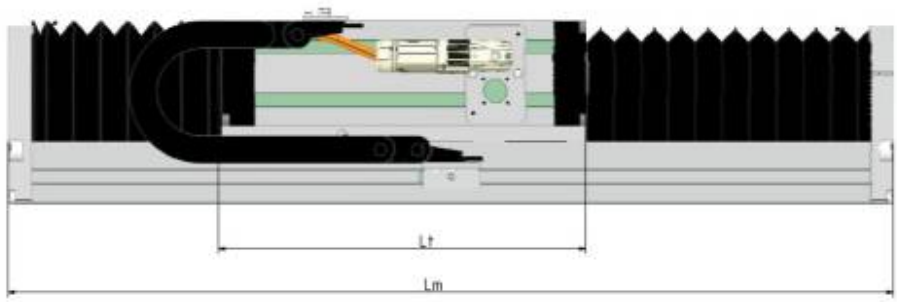
Technical data

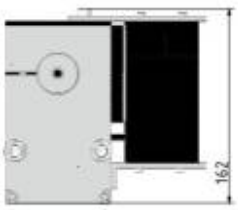
This page gives the **technical data** of the GDM linear stages. The table lists the electrical and mechanical parameters for the available models.

Unit without protection bellows



Unit with protection bellows







Parameter	Unit	Symbol	GDM250XS	GDM350XS	GDM350ES
Rated Force	N	Fr	109	191	269
Peak Force	N	Fp	709	1242	1749
Carriage length	mm	Lt	305	305	502
Unit length	mm	Lm	Stroke+305	Stroke+305	Stroke+502
Slider diameter	mm	D	25	35	35
Pole pitch	mm	2p	60	60	60
Force constant	N/A	Fc	52	73	73
Rated current	A	Ia	2.1	2.6	3.6
BEMF constant	Vrms/m/s	Ke	32.35	42.4	43.6
Phase resistance	ohm	Rph	10.6	7.65	5.25
Phase inductance	mH	Lph	16.5	7.5	4.9

Notes on the data

- The **rated force (Fr)** and **peak force (Fp)** are the continuous and short-term force. - The **unit length** depends on the stroke: it is the stroke plus the carriage length. - The **pole pitch**, **force constant**, and **BEMF constant** define the electrical and commutation behaviour. - The **phase resistance** and **phase inductance** are the winding parameters for the drive sizing.

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