Technical data

This page gives the **technical data** of the NLi integrated drive linear motors. The table lists the main electrical and mechanical parameters for the available models.

PARAMETER	UNIT	SYMBOL	NLi080Q	NLi080X	NLi120Q	NLi120X
Rated Force	N	Fr	4.8	8,6	20.6	39,0
Peak Force	N	Fp	31.2	56,2	137,3	247,1
Pole pitch	mm	pp	30	30	60	60
Force constant	N/A	Fc	2	2	12	12
Position repeatability	mm		0,015	0,015	0,029	0,029
Slider diameter	mm	D	8	8	12	12
Slider weight	Kg/m		0,35	0,35	0,78	0,78

For detailed information about motor parameters, please use the Datasheet Engine tool considering the motor code without “i”.
Link: Datasheet Engine

Notes on the data

- **Rated force (Fr)** is the continuous force at the rated duty cycle; **Peak force (Fp)** is the short-term force. - **Pole pitch** and **force constant** determine the commutation and the force per amp. - **Position repeatability** is the achievable positioning repeatability for the application. - Use the Datasheet Engine tool with the motor code **without the “i”** to get the detailed datasheet and the force-velocity curves.

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