

U-Channel Coreless Linear motor_ AIUL-50 Series

Force

- Peak: 170-504N
- Continuous: 56-168N

Maximum Velocity

- >4m/s

Built-in Feedback (Optional)

- Can built-in position sensor

Range of motion

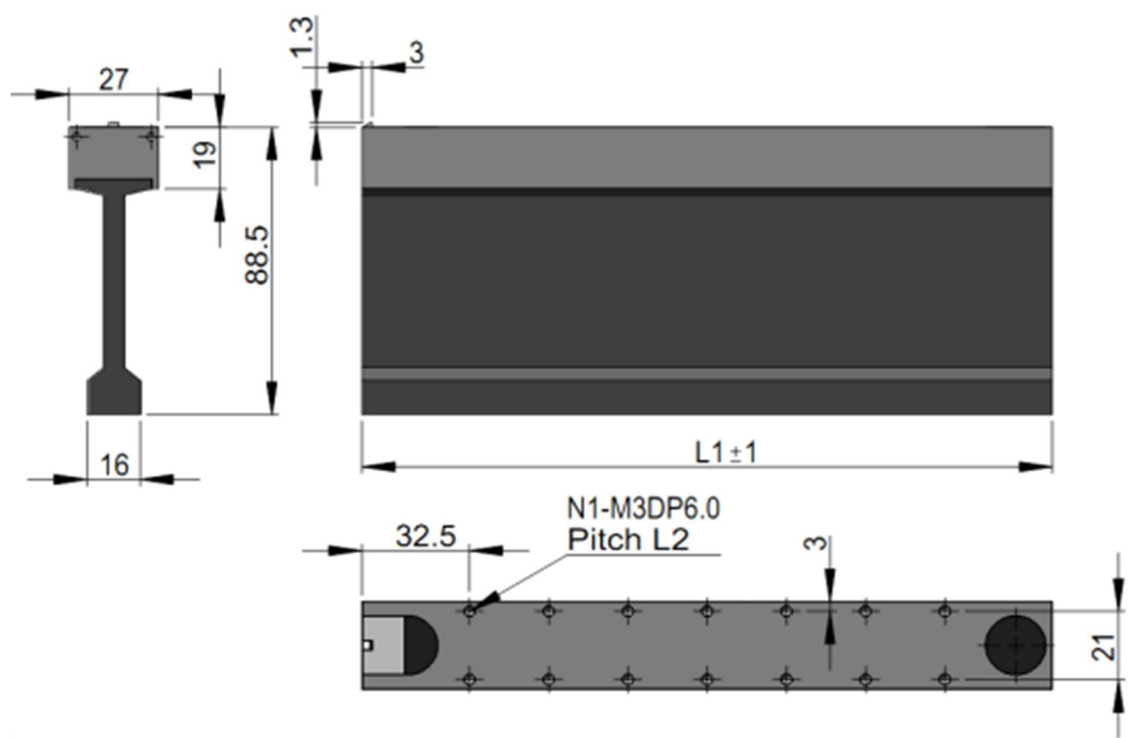
- 5mm-6000mm



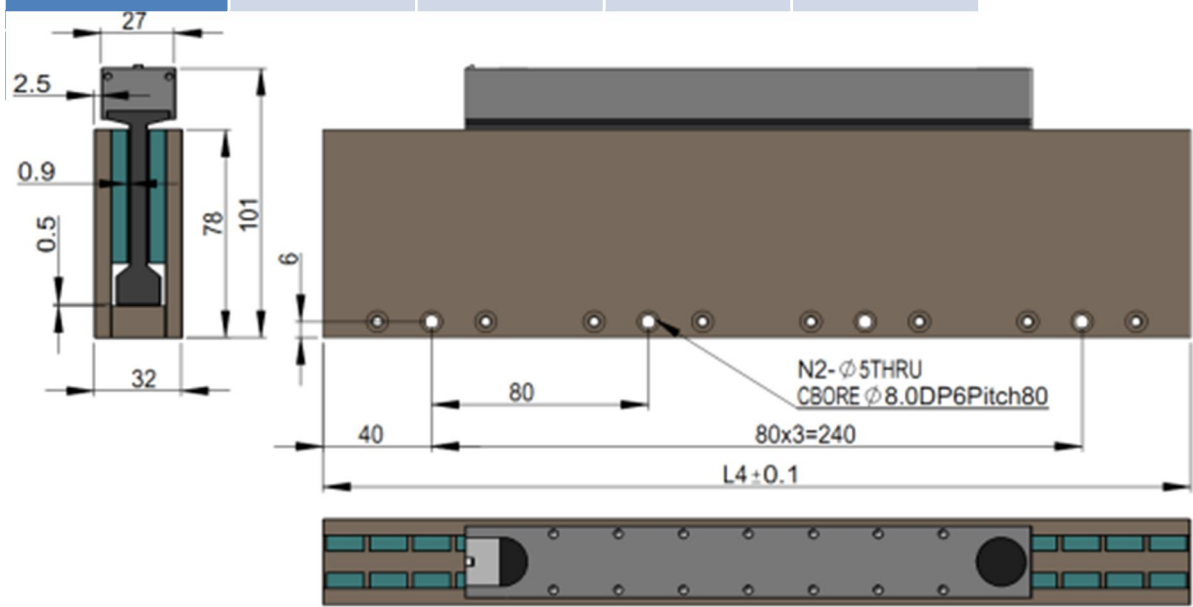
50 Series Electrical Specification:

Parameters	Unit	AIUL-50-1	AIUL-50-2	AIUL-50-3
Peak force	N	170	336	504
Continuous force	N	56	112	168
Peak current	A	4.2	4.2	4.2
Continuous current	A	1.4	1.4	1.4
Force constant	N/Arms	40	80	120
Back EMF constant	Vpk/m/s	32.6	65.2	98
Max speed	m/s	4	4	4
Peak acceleration	m/s/s	200	200	200
Max stroke	mm	5890	5780	5670
Forcer Length	mm	113	209	305
External encoder	um	0.05-5	0.05-5	0.05-5
Inductance (phase to phase)	mH	3.2	6.4	9.6
Resistance (phase to phase)	omiga	9.5	19	28.5
Pole pitch	mm	32	32	32

Outline Dimension (Unit: mm)



Type	Size[mm]		Qty[pcs]	Weight
	L1	L2	N1	Kg
AIUL-50-C1	113	24	3	0.435
AIUL-50-C2	209	24	7	0.85



Type	Size[mm]	Qty[pcs]	Weight
	L4	N2	Kg
AIUL-50-M160	160	2	2.03
AIUL-50-M240	240	3	3.05