

U-Channel Coreless Linear motor_ AIUL-30 Series

Force

- Peak: 226-450N
- Continuous: 75-150N

Maximum Velocity

- 4m/s

Built-in Feedback (Optional)

- Can built-in position

sensor

- Maximum 4 micron resolution and 8 micron repeatability

Range of motion

- 5mm-6000mm

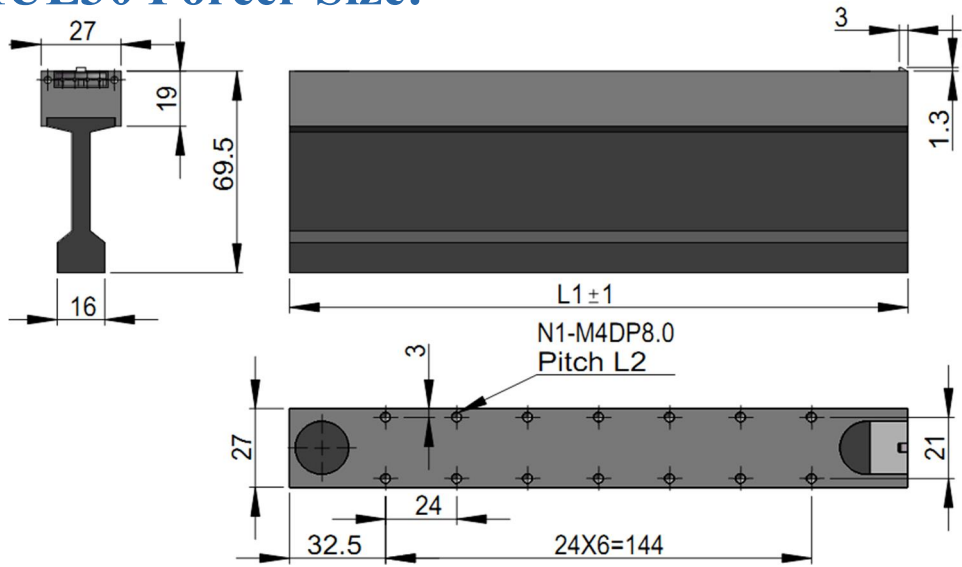


30 Series Electrical Specification:

Parameters	Unit	AIUL-30-01	AIUL-30-02	AIUL-30-03
Peak force	N	90	180	270
Continuous force	N	30	60	90
Peak current	A	4.2	4.2	4.2
Continuous current	A	1.4	1.4	1.4
Force constant	N/Arms	21	42	63
Back EMF constant	Vpk/m/s	18	36	54
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	2.16	4.32	6.48
Resistance (phase to phase)	omiga	7.1	14.2	21.3
Pole pitch	mm	32	32	32

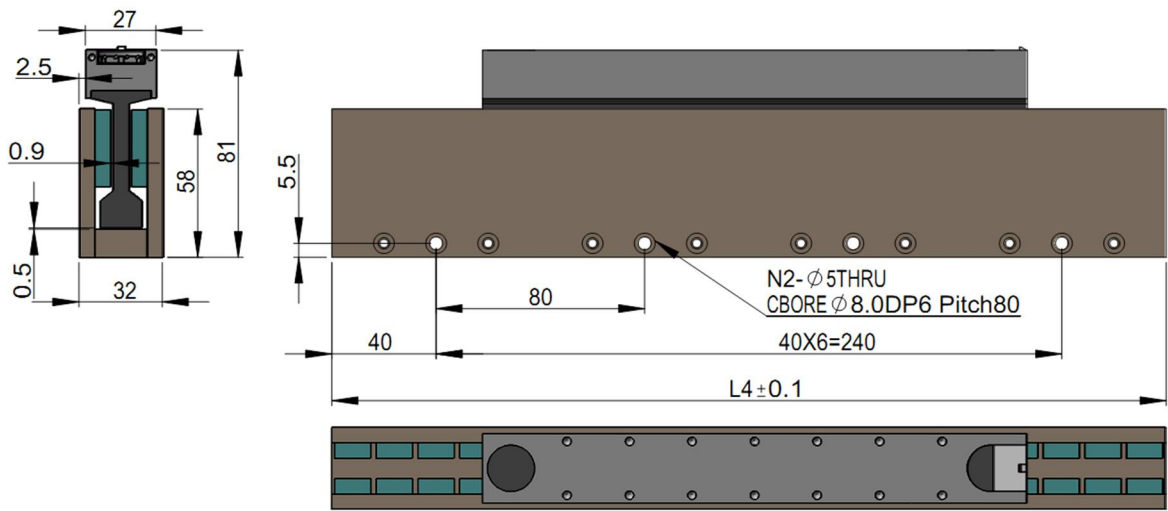
Outline Dimension (Unit: mm)

AIUL30 Forcer Size:



Type	Size[mm]		Qty[pcs]	Weight
	L1	L2	N1	Kg
IUL-30-C1	113	24	3	0.345
IUL-30-C2	209	24	7	0.68
IUL-30-C3	305	48	6	1.02

AIUL30 Stator Size:



Type	Size[mm]	Qty[pcs]	Weight
	L4	N2	Kg
IUL-30-M160	160	2	1.54
IUL-30-M240	240	3	2.31
IUL-30-M320	320	4	3.08