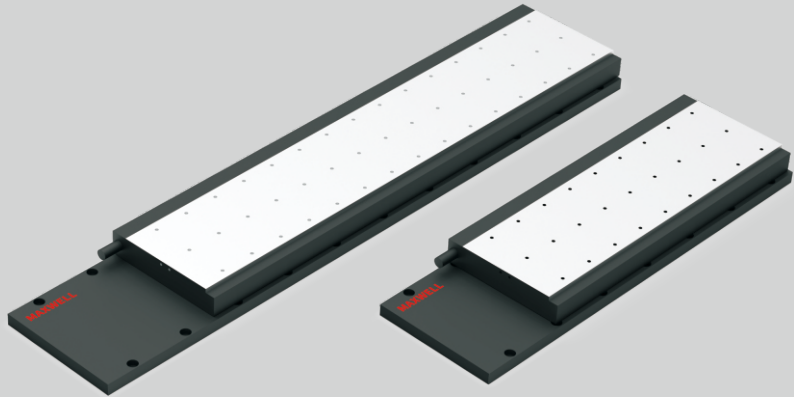


Iron Core Linear Motor

- Iron Core Technology
- Ultra-low Cogging Force
- High Thrust
- High Rigidity



Linear Motion

Horizontal/Vertical

Angular

Rotary

Vertical & Rotary

Mover Model Number Designation System

MK

Series

MK

4

Mover Width

123.5mm

A

Mover Length

1:328mm

2:538mm

Stator Model Number Designation System

DMK

Series

MK

126

Stator Width

126mm

- L120

Stator Length

L120mm

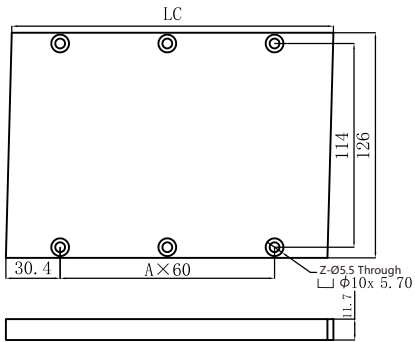
L180mm

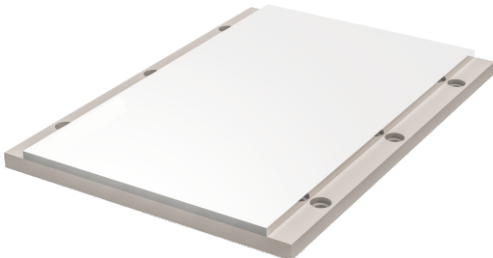
L300mm

Stator Model	Length LC	Width	Height	A	Z	Pole Pitch	Weight
Unit	mm	mm	mm	PCS	PCS	mm	Kg/m
MK4-120	120	126	11.7	1	4	30	9.7
MK4-180	180	126	11.7	2	6	30	9.7
MK4-300	300	126	11.7	4	10	30	9.7

The coils of the MK4 series can be freely paired with MK4-120, MK4-180, or MK4-300.

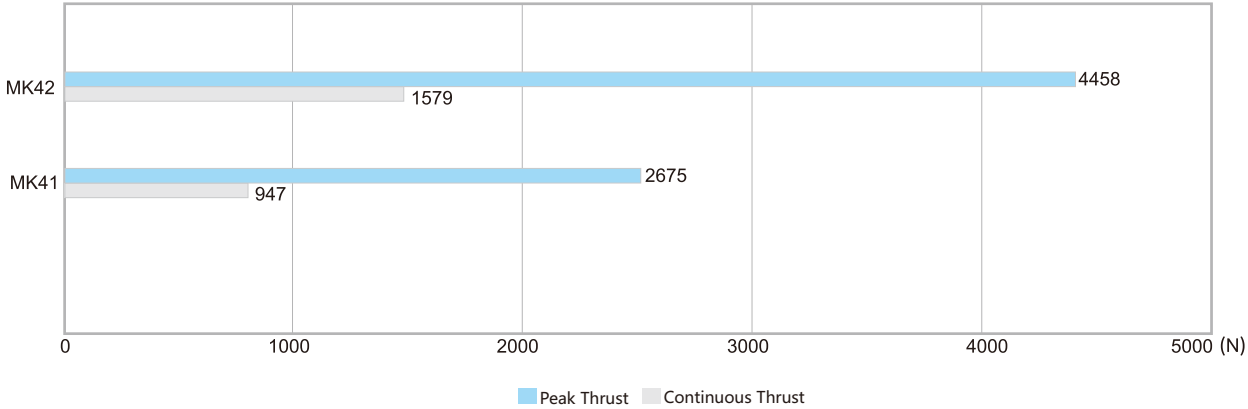
Stator Size





* For special length requirements, please consult our sales team.

Thrust Graph



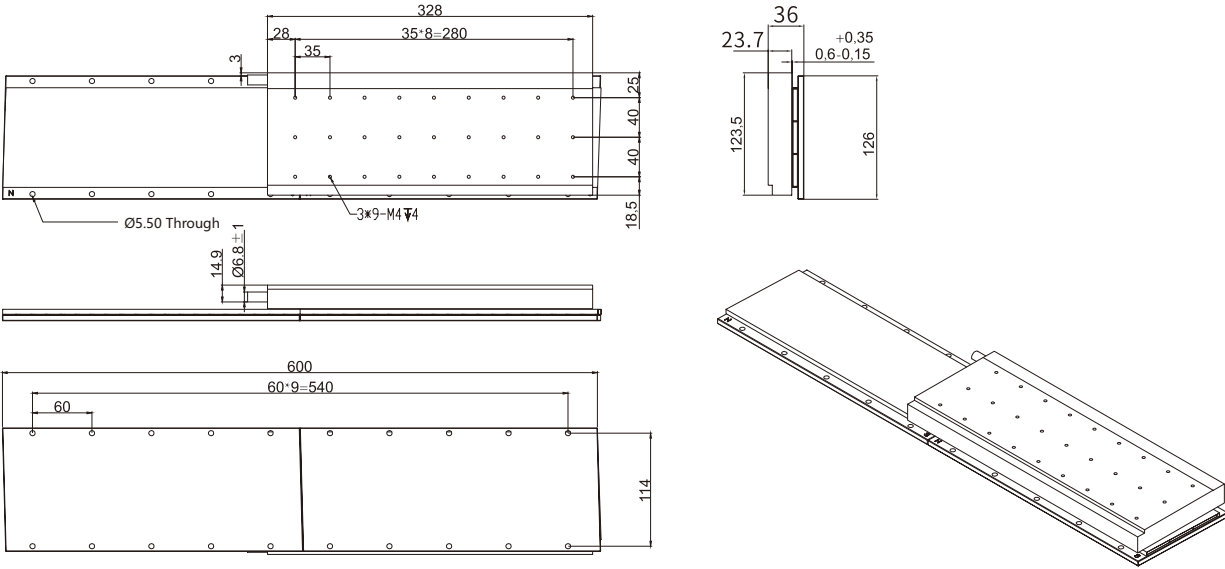
Specification Parameters

	Symbol	Unit	MK41	MK42
Continuous Thrust	F_c	N	947	1579
Continuous Current	I_c	A_{rms}	6.0	10.0
Peak Thrust [1s]	F_p	N	2675	4458
Peak Current [1s]	I_p	A_{rms}	18	30.0
Limiting Thrust [0.5s]	F_u	N	3505	5842
Limiting Current [0.5s]	I_u	A_{rms}	30.0	50.0
Thrust Constant	K_f	N/A_{rms}	157.9	157.9
Attractive Force Between Mover & Stator	F_a	N	4694	7823
Max. Coil Temperature	T_{max}	°C	120	
Electrical Time Constant	K_e	ms	5.0	5.0
Resistance [Line-to-Line, 25°C]	R_{25}	Ω	6.8	4.1
Resistance [Line-to-Line, 120°C]	R_{120}	Ω	9.4	5.7
Inductance [Line-to-Line]	L	mH	33.8	20.3
Pole Pitch	2τ	mm	30	
Motor Cable Bend Radius	R_{bend}	mm	69	
Back EMF Constant [Line-to-Line]	K_v	$V_{rms}/[m/s]$	91.2	91.2
Motor Constant [25°C]	K_m	$N/\sqrt{W}$	49.3	63.7
Thermal Resistance	R_{TH}	°C/W	0.19	0.11
Thermal Time Constant	t_{TH}	s		
Thermal Sensor Switch	—	—	3 PNC SNM120 In Series	
Max. Operating Voltage	—	V_{DC}	600	
Mover Mass	M_f	kg	6.3	10.5
Stator Unit Mass	M_s	kg/m	9.7	9.7
Total Installation Height	H	mm	36	36

• MK41 Series: Dimensions



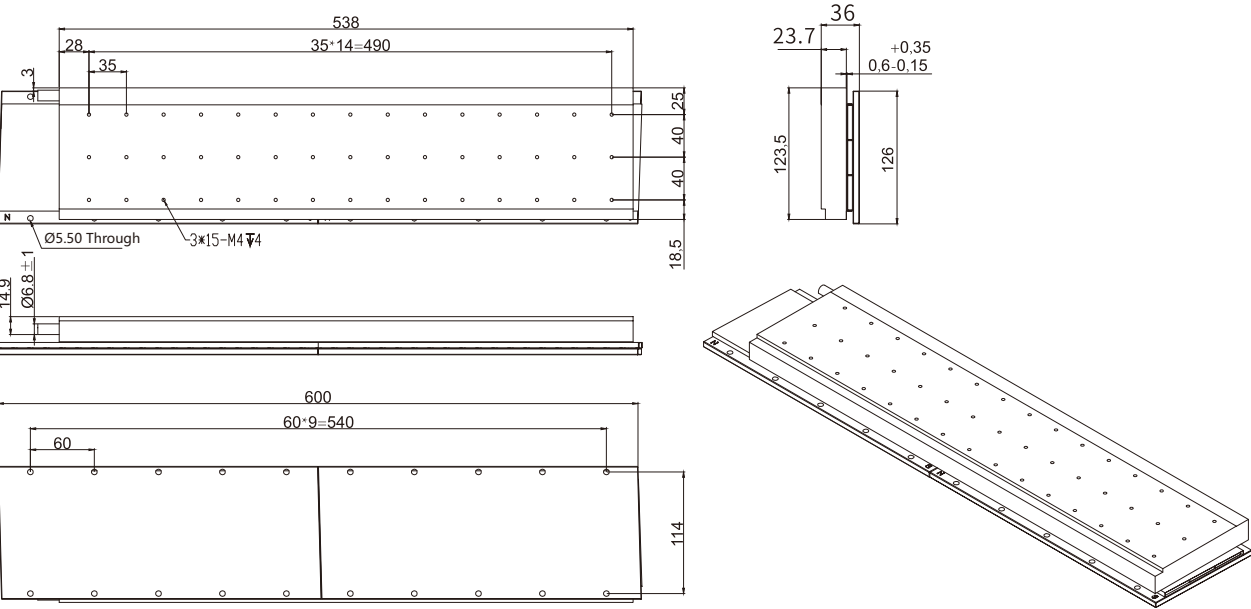
Lead Time: 7 Days
The lead time is subject to change during special periods. Please consult our sales team.



• MK42 Series: Dimensions



Lead Time: 7 Days
The lead time is subject to change during special periods. Please consult our sales team.



MEMO

Blank memo area for notes.