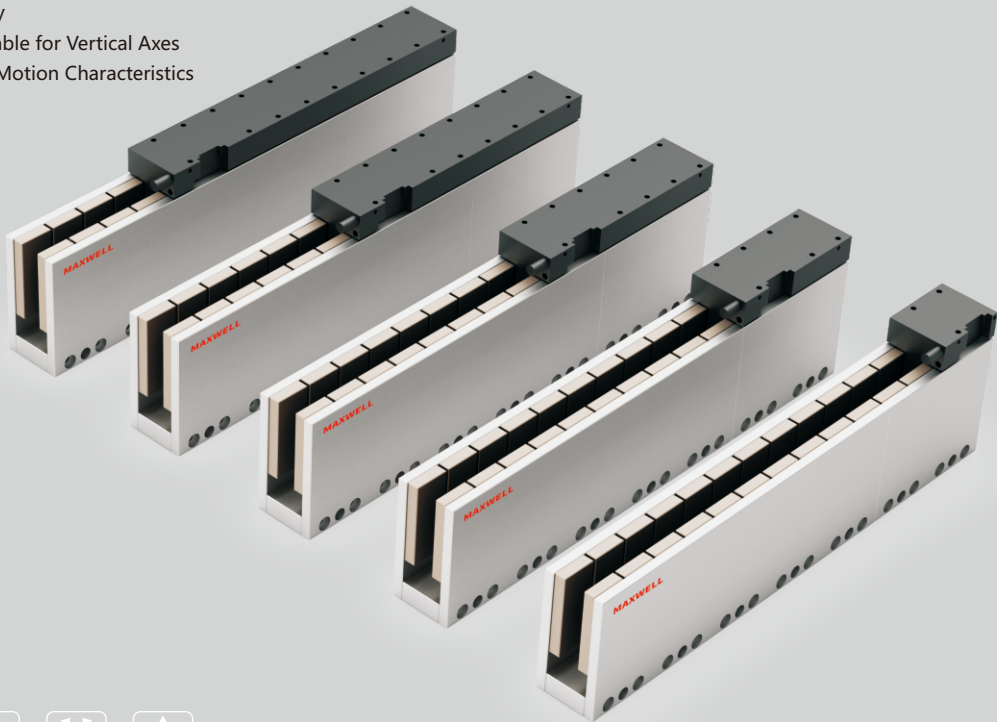


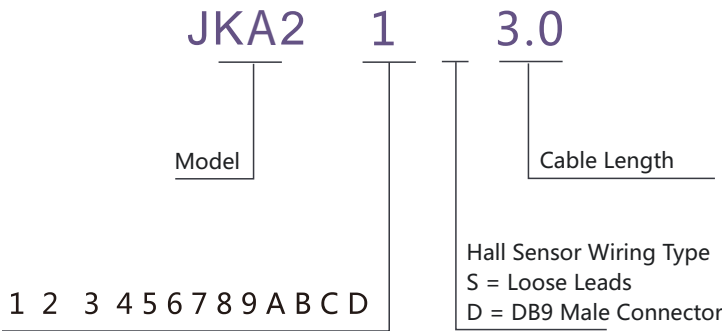
Ironless Linear Motor

- Ironless Technology
- Compact Size, Suitable for Vertical Axes
- Excellent Dynamic Motion Characteristics

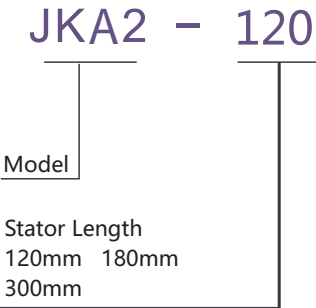


• Model Number Designation System

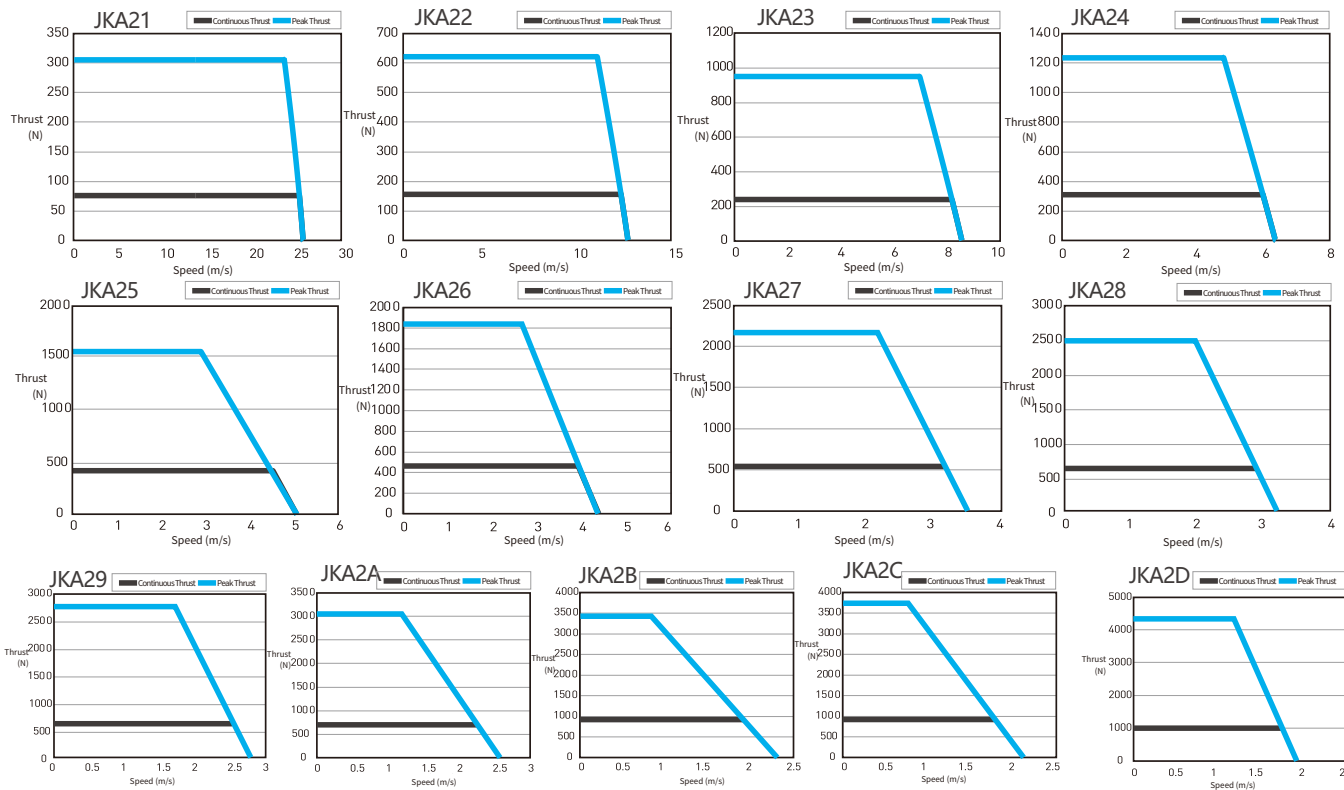
Mover Model



Stator Model



JKA2 Series: Thrust Graph



Specification Parameters

	Symbol	Unit	JKA21	JKA22	JKA23	JKA24	JKA25	JKA26	JKA27	JKA28	JKA29	JKA2A	JKA2B	JKA2C	JKA2D
Continuous Thrust	$F_c$	N	77	154	231	309	386	463	540	617	694	771	849	926	1003
Continuous Current	$I_c$	$A_{rms}$	5.7												
Peak Thrust [1s]	$F_p$	N	309	617	926	1234	1543	1852	2160	2469	2777	3086	3394	3703	4012
Peak Current [1s]	$I_p$	$A_{rms}$	22.6												
Thrust Constant	$K_t$	$N/A_{rms}$	13.7	27.3	41.0	54.6	68.3	81.9	95.6	109.2	122.9	136.5	150.2	163.9	177.5
Max. Coil Temperature	$T_{max}$	$^{\circ}C$	120												
Electrical Time Constant	$K_e$	ms	1.5												
Resistance [Line-to-Line, 25 $^{\circ}C$ ]	$R_{25}$	$\Omega$	0.6	1.2	1.7	2.3	2.9	3.5	4.1	4.6	5.2	5.8	6.4	7	7.5
Inductance [Line-to-Line]	L	mH	0.9	1.7	2.6	3.5	4.3	5.2	6.1	6.9	7.8	8.7	9.6	10.4	11.3
Pole Pitch	2 $\tau$	mm	60												
Motor Cable Bend Radius	$R_{bend}$	mm	37.5												
Back EMF Constant [Line-to-Line]	$K_v$	$V_{rms}/(m/s)$	7.9	15.8	23.7	31.5	39.4	47.3	55.2	63.1	71.0	78.8	86.7	94.6	102.5
Motor Constant [25 $^{\circ}C$ ]	$K_m$	$N/\sqrt{W}$	14.6	20.7	25.4	29.3	32.7	35.9	38.7	41.4	43.9	46.3	48.6	50.7	52.8
Thermal Resistance	$R_{TH}$	$^{\circ}C/W$	2.59	1.30	0.86	0.65	0.52	0.43	0.37	0.32	0.29	0.26	0.24	0.22	0.20
Thermal Sensor Switch			PTC												
Max. Operating Voltage		$V_{DC}$	330												
Mover Mass	$M_f$	kg	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.0	6.7	7.3	8.0	8.7
Stator Unit Mass	$M_s$	kg/m	24.7												
Mover Length / Value n	$L_f$	mm	61	121/3	181/5	241/7	301/9	361/11	421/13	481/15	541/17	601/19	661/21	721/23	781/25
Stator Length / Value N	$L_s$	mm	120mm/N=2, 180mm/N=3, 300mm/N=5												
Heat Sink Dimensions		mm	210x210x10												

Notes:  
1. All data in this table are measured at an ambient temperature of 25 $^{\circ}C$  without forced cooling.  
2. Thermal resistance data is measured with the mover mounted on the heat sink.  
3. Except for dimensional specifications, all other specifications have a tolerance of  $\pm 10\%$ .  
4. We reserve the right to make changes. Please refer to the customer-approved drawing for final specifications.

- JKA2: Dimensions

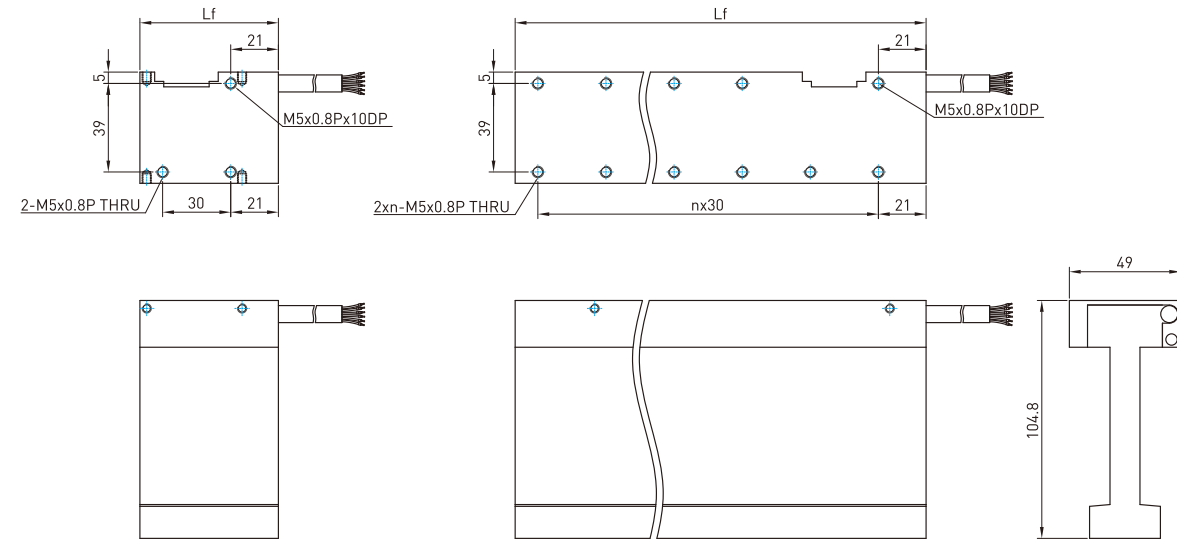


**Lead Time: 15-20 Days**  
\* The lead time is subject to change during special periods. Please consult our sales team.

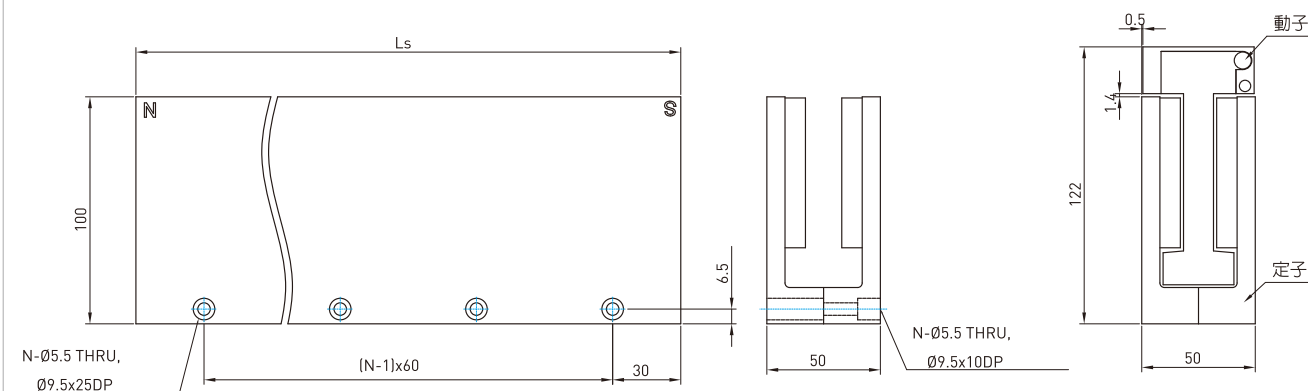
Values for Lf, m, and n: Refer to the Specification Table.

JK A2:

Values for Lf and n: Refer to the Specification Table.



Values for Ls and N: Refer to the Specification Table.



## Linear Motor Specifications Overview

## MEMO