

KJM Series

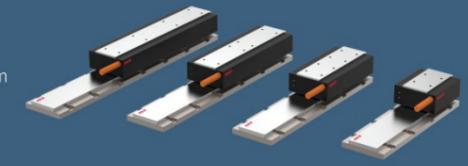
Iron-core Linear Motor



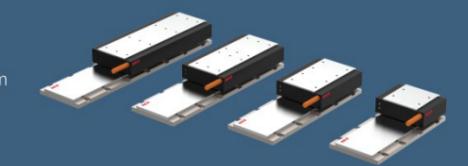
CONTENTS

With iron-core technology, Low cogging force, High acceleration, Compact size

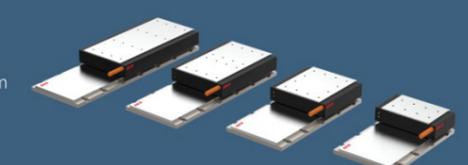
KJM030 Continuous Thrust: 68.1N-136.2N
Peak Thrust: 215N-430N
Mover Width: 030: 50mm / 050: 75mm / 080: 100mm / 100: 125mm
Mover Length: B: 96mm / D: 176mm
Width of stator: 030: 50mm
Length of stator: L80: 80mm / L200: 200mm



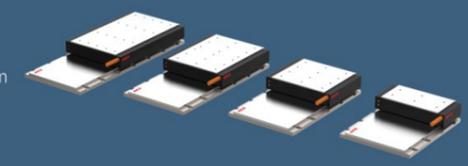
KJM050 Continuous Thrust: 117.1N-234.1N
Peak Thrust: 370N-740N
Mover Width: 030: 50mm / 050: 75mm / 080: 100mm / 100: 125mm
Mover Length: B: 96mm / D: 176mm
Width of stator: 050: 75mm
Length of stator: L80: 80mm / L200: 200mm



KJM080 Continuous Thrust: 174.6N-349.1N
Peak Thrust: 550N-1100N
Mover Width: 030: 50mm / 050: 75mm / 080: 100mm / 100: 125mm
Mover Length: B: 96mm / D: 176mm
Width of stator: 080: 100mm
Length of stator: L80: 80mm / L200: 200mm



KJM100 Continuous Thrust: 223.3N-446.7N
Peak Thrust: 704N-1410N
Mover Width: 030: 50mm / 050: 75mm / 080: 100mm / 100: 125mm
Mover Length: B: 96mm / D: 176mm
Width of stator: 100: 125mm
Length of stator: L80: 80mm / L200: 200mm



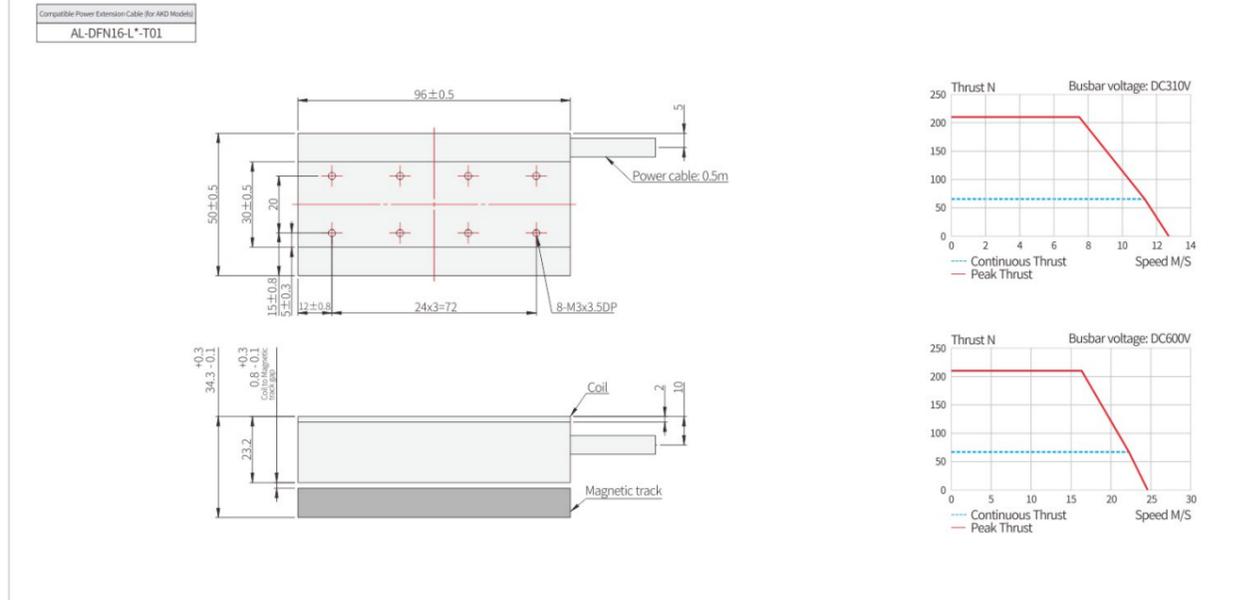
KJM030 Iron-core Linear Motor

KJM030 Iron-core Linear Motor

- Iron-core technology
- Ultra-low cogging
- High acceleration
- High speed



• KJM30-B2 Dimensional parameters



Rules of coil order number

KJM30 - B2 - 0.5

Motor model

Coil Length

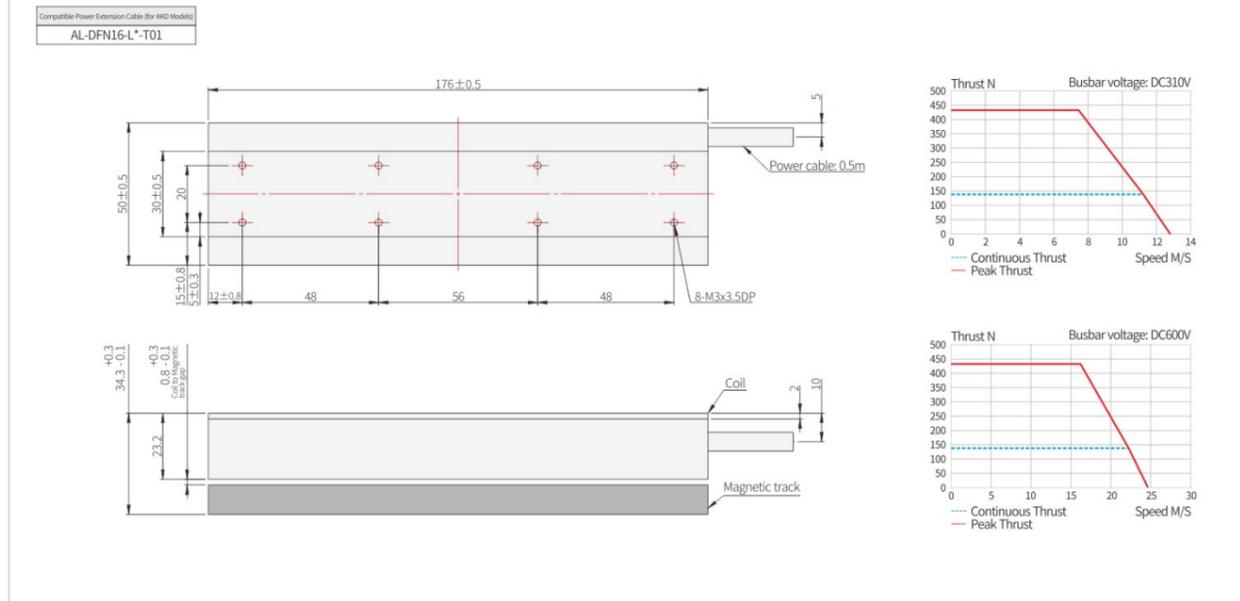
B1
B2
B4

Cable Length(m)

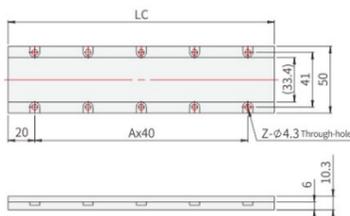
0.5 "Default"
3.0

Note:
*The default outgoing wire length is 0.5 meters. The model for the power cable extension is AL-DFN***.
*Motor Connector (Male): 16M-4K

• KJM30-B4 Dimensional parameters



Stator dimensions



Stator name: KJM030-L80, KJM030-L200

Stator model	LC	A	Magnetic pitch	Mass
Unit	mm	pcs	mm	kg/m
KJM030-L80	80	1	20	3.25
KJM030-L200	200	4	20	3.25



*Please consult our business personnel when special length is required.

Performance Parameters	Continuous thrust	Peak thrust	Continuous current	Peak current	Thrust constant ±10%	Constant of reverse electromotive force ±10%	Motor constant ±10%	Resistance ±10%	Inductance ±30%	Electrical time constant	Rated power	Max. allowable voltage	Heat dissipation constant	Magnetic attraction	Coil weight	Max. temperature
Unit	N	N	A	A	N/A	V/m/s	N/√W	Ohm	mH	ms	W	Vdc	W/°C	KN	Kg	°C
KJM30-B2	68.1	215	2.3	9	29.6	24.2	12.2	3.9	16.5	4.2	30.9	600	0.4	0.4	0.7	100
KJM30-B4	136.2	430	4.6	18	29.6	24.2	17.1	2	8.2	4.2	63.5	600	0.8	0.8	1.3	100

*1.Measurement room temperature is 25°C, depending on the cooling environment.
*2.DC current is used for resistance measurement, including 0.5m standard cable.
*3.Inductance measurement frequency 1kHz.
*4.Relevant parameter specifications are subject to changes with out a prior notice.

KJM050

Iron-core Linear Motor

- Iron-core technology
- Ultra-low cogging
- High acceleration
- High speed



Rules of coil order number

KJM050 - B2 - 0.5

Motor model

Coil Length

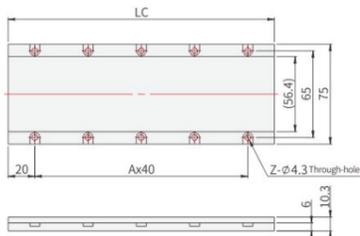
B1
B2
B4

Cable Length(m)

0.5 "Default"
3.0

Note:
*The default outgoing wire length is 0.5 meters. The model for the power cable extension is AL-DFN***.
*Motor Connector (Male): 16M-4K

Stator dimensions



Stator name: KJM050-L80, KJM050-L200

Stator model	LC	A	Magnetic pitch	Mass
Unit	mm	pcs	mm	kg/m
KJM050-L80	80	1	20	4.88
KJM050-L200	200	4	20	4.88



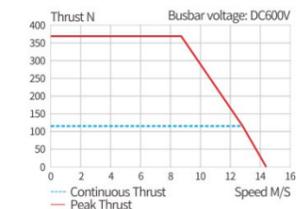
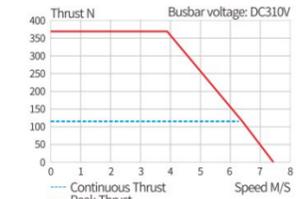
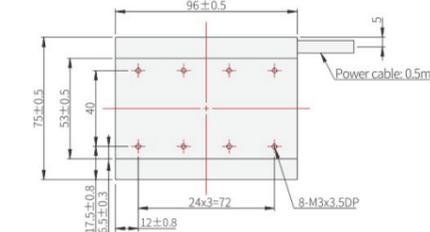
*Please consult our business personnel when special length is required.

KJM050

Iron-core Linear Motor

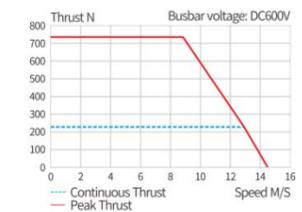
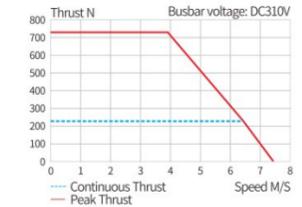
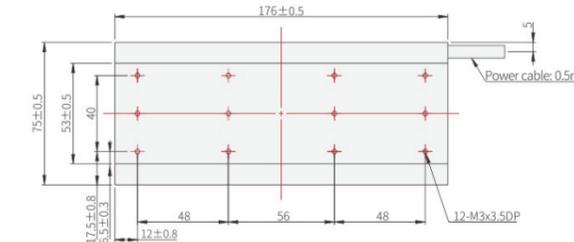
• KJM50-B2 Dimensional parameters

Compatible Power Extension Cable (for AKD Models)
AL-DFN16-L*-T01



• KJM50-B4 Dimensional parameters

Compatible Power Extension Cable (for AKD Models)
AL-DFN16-L*-T01



Performance Parameters	Continuous thrust	Peak thrust	Continuous current	Peak current	Thrust constant ±10%	Constant of reverse electromotive force ±10%	Motor constant ±10%	Resistance ±10%	Inductance ±30%	Electrical time constant	Rated power	Max. allowable voltage	Heat dissipation constant	Magnetic attraction	Coil weight	Max. temperature
Unit	N	N	A	A	N/A	V/m/s	N/√W	Ohm	mH	ms	W	Vdc	W/°C	KN	Kg	°C
KJM50-B2	117.1	370	2.3	9	50.9	41.5	17.0	6	25.9	4.3	47.6	600	0.6	0.7	1.2	100
KJM50-B4	234.1	740	4.6	18	50.9	41.5	23.6	3.1	13	4.3	98.4	600	1.3	1.3	2.4	100

*1.Measurement room temperature is 25°C, depending on the cooling environment.
*3.Inductance measurement frequency 1kHz.

*2.DC current is used for resistance measurement, including 0.5m standard cable.
*4.Relevant parameter specifications are subject to changes with out a prior notice.

KJM080

Iron-core Linear Motor

- Iron-core technology
- Ultra-low cogging
- High acceleration
- High speed



Rules of coil order number

KJM080 - B2 - 0.5

Motor model

Coil Length

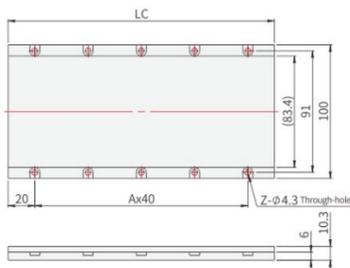
B1
B2
B4

Cable Length(m)

0.5 "Default"
3.0

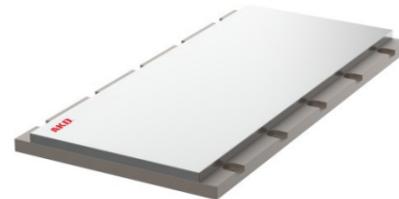
Note:
*The default outgoing wire length is 0.5 meters. The model for the power cable extension is AL-DFN***.
*Motor Connector (Male): 16M-4K

Stator dimensions



Stator name: KJM080-L80, KJM080-L200

Stator model	LC	A	Magnetic pitch	Mass
Unit	mm	pcs	mm	kg/m
KJM080-L80	80	1	20	6.5
KJM080-L200	200	4	20	6.5



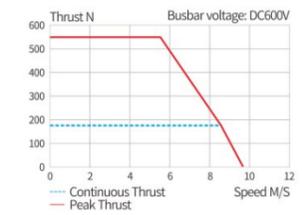
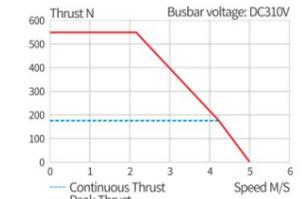
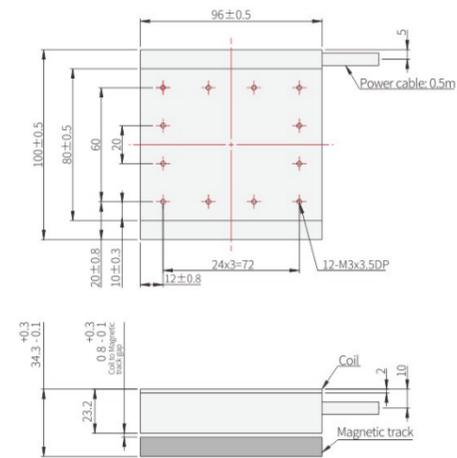
*Please consult our business personnel when special length is required.

KJM080

Iron-core Linear Motor

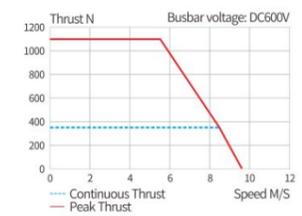
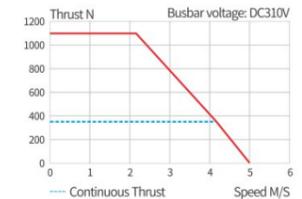
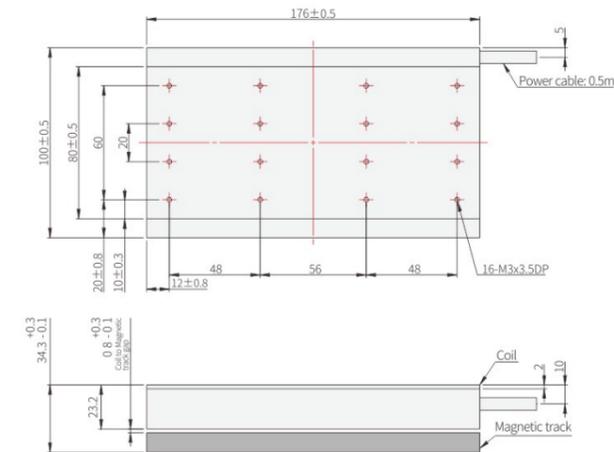
• KJM80-B2 Dimensional parameters

Compatible Power Extension Cable (for AKD Models)
AL-DFN16-L*-T01



• KJM80-B4 Dimensional parameters

Compatible Power Extension Cable (for AKD Models)
AL-DFN16-L*-T01



Performance Parameters	Continuous thrust	Peak thrust	Continuous current	Peak current	Thrust constant ±10%	Constant of reverse electromotive force ±10%	Motor constant ±10%	Resistance ±10%	Inductance ±30%	Electrical time constant	Rated power	Max. allowable voltage	Heat dissipation constant	Magnetic attraction	Coil weight	Max. temperature
Unit	N	N	A	A	N/A	V/m/s	N/√W	Ohm	mH	ms	W	Vdc	W/°C	KN	Kg	°C
KJM80-B2	174.6	550	2.3	9	75.9	61.9	21.4	8.4	37.3	4.4	66.7	600	0.9	1.0	1.9	100
KJM80-B4	349.1	1100	4.6	18	75.9	61.9	30.2	4.2	18.6	4.4	133.3	600	1.8	1.9	3.8	100

*1.Measurement room temperature is 25°C, depending on the cooling environment.
*2.DC current is used for resistance measurement, including 0.5m standard cable.
*3.Inductance measurement frequency 1kHz.
*4.Relevant parameter specifications are subject to changes with out a prior notice.

KJM100 Iron-core Linear Motor

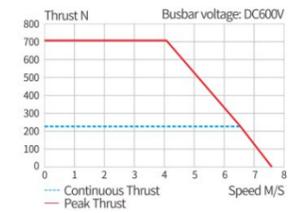
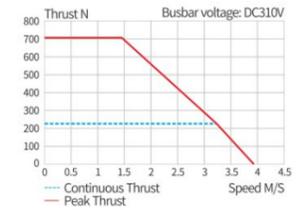
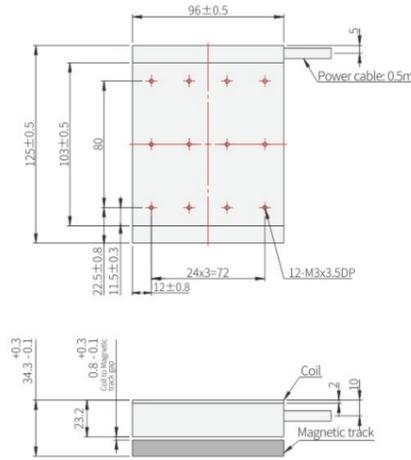
KJM100 Iron-core Linear Motor

- Iron-core technology
- Ultra-low cogging
- High acceleration
- High speed



• KJM100-B2 Dimensional parameters

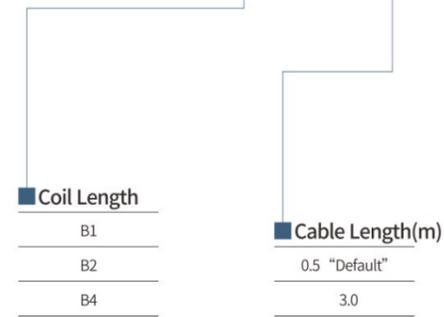
Compatible Power Extension Cable (for AKD Models)
AL-DFN16-L*-T01



Rules of coil order number

KJM100 - B2 - 0.5

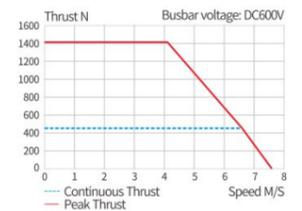
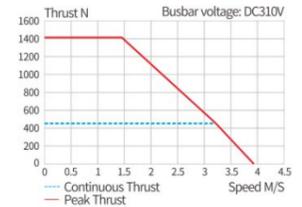
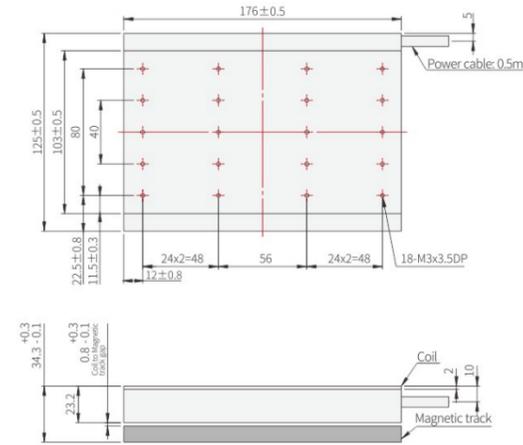
Motor model



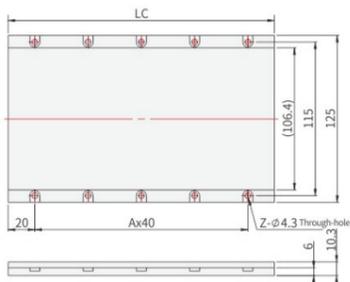
Note:
*The default outgoing wire length is 0.5 meters. The model for the power cable extension is AL-DFN***.
*Motor Connector (Male): 16M-4K

• KJM100-B4 Dimensional parameters

Compatible Power Extension Cable (for AKD Models)
AL-DFN16-L*-T01



Stator dimensions



Stator name: MJM100-L80, MJM100-L200

Stator model	LC	A	Magnetic pitch	Mass
Unit	mm	pcs	mm	kg/m
KJM100-L80	80	1	20	8.13
KJM100-L200	200	4	20	8.13



*Please consult our business personnel when special length is required.

Performance Parameters	Continuous thrust	Peak thrust	Continuous current	Peak current	Thrust constant ±10%	Constant of reverse electromotive force ±10%	Motor constant ±10%	Resistance ±10%	Inductance ±30%	Electrical time constant	Rated power	Max. allowable voltage	Heat dissipation constant	Magnetic attraction	Coil weight	Max. temperature
Unit	N	N	A	A	N/A	V/m/s	N/√W	Ohm	mH	ms	W	Vdc	W/°C	KN	Kg	°C
KJM100-B2	223.3	704	2.3	9	97.1	79.3	24.7	10.3	47.2	4.6	81.7	600	1.1	1.2	2.3	100
KJM100-B4	446.7	1410	4.6	18	97.1	79.3	34.8	5.2	23.6	4.6	165.0	600	2.2	2.5	4.7	100

*1.Measurement room temperature is 25°C, depending on the cooling environment.
*2.DC current is used for resistance measurement, including 0.5m standard cable.
*3.Inductance measurement frequency 1kHz.
*4.Relevant parameter specifications are subject to changes with out a prior notice.