Available

Available

Electric Cylinders EC Series

EC Series	Motor Type*	Motor Options	Drive Ratio	Screw Lead	Stroke Length	Cylinder Mounting	Rod Ends	Options	Cable Option
EC2 –	AKM23D -	- BNR –	10 –	05B -	300 -	MP2 –	FT1M	(-)-	CO

Stroke Length**

EC1 EC2 EC3 EC4 EC5			AII AII AII EC2, EC3, EC4, EC5 EC2, EC3, EC4, EC5
Motor Type*	Available		EC2, EC3, EC4, EC5 EC2, EC3, EC4, EC5
CTP12 = CTP12xLF10MMA00 stepper motor	EC1		EC2, EC3, EC4, EC5
AKM11B = AKM11B-ANCxx-00 brushless servo	EC1		EC3, EC4, EC5
AKM13C = AKM13C-ANCxx-00 brushless servo	EC1		EC4, EC5
AKM23D = AKM23D-EFxxx-00 brushless servo	EC2, EC3		EC4, EC5
AKM23C = AKM23C-EFxxx-00 brushless servo	EC2, EC3		
AKM42G = AKM42G-EKxxx-00 brushless servo	EC3, EC4, EC5	Cylinder Mounting	Available
AKM42E = AKM42E-EKxxx-00 brushless servo	EC3, EC4, EC5	MF1 = Front rectangular flange	

Motor Options

EC Series

- B ■ = Rotatable IP65 connectors
- C■■ = 0.5 m shielded cables w/ IP65 connectors

AKM52G = AKM52G-EKxxx-00 brushless servo

AKM52L = AKM52L-EKxxx-00 brushless servo

- C■■ = Rotatable IP65 connectors
- N = No brake
- ■2 = 24 Vdc power-off holding brake
- ■R = Resolver
- ■■2 = 2048 LPR incremental comm. encoder
- ■■C = Smart Feedback Device (SFD)
- ■■ = Omit field for CTP12

Drive Ratio

- 10 = 1.0:1 drive belt/pulley (EC1 helical)
- 15 = 1.5:1 drive belt/pulley
- 20 = 2.0:1 drive belt/pulley (EC1 helical)
- 40 = 4.0:1 helical gears
- 70 = 7.1:1 helical gears
- 100 = 10.0:1 helical gears

Available

- 50 = 5.0:1 helical gears
- 10L = 1.0:1 inline coupling (direct 1:1 coupling is the only ratio available for inline models)

Screw Lead

03B = 0.125 in/rev ballscrew
05B = 5 mm/rev ballscrew
10B = 10 mm/rev ballscrew
16B = 16 mm/rev ballscrew
25B = 25 mm/rev ballscrew
32B = 32 mm/rev ballscrew
04A = 4 mm/rev lead screw

Available

ΑII

EC4, EC5

EC4, EC5

AKM2

Available

AKM1, AKM2

AKM4, AKM5

AKM1, AKM2, AKM4, AKM5

AKM1, AKM2, AKM4, AKM5

AKM1, AKM2, AKM4, AKM5

AKM1, AKM2, AKM4, AKM5

AKM2, AKM4, AKM5

EC2, EC3, EC4, EC5

EC2, EC3, EC4, EC5

EC1 only

EC3 only EC2, EC4, EC5

Not valid for EC3-AKM42

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EC1
EC2, EC3
EC3, EC4, EC5
EC2, EC3
EC4
EC5
EC2, EC3

MF1 = Front rectangular flange MF1E = Front rectangular flange (English) MF1M = Front rectangular flange (metric) MF2 = Rear rectangular flange MF2E = Rear rectangular flange (English) MF2M = Rear rectangular flange (metric) MF3 = Front & rear rectangular flange MF3E = Front & rear rectangular flange MF3M = Front & rear rectangular flange MP2 = Rear double clevis without pivot base MP3 = Rear double clevis with pivot base MS1 = Side end angle MS2 = Side lugs

MS6M = Side tapped holes (metric)

MS6E = Side tapped holes (English) MT4 = Trunnion

Rod Ends

FC2 = Clevis (includes MT1M) FS2 = Spherical joint (includes FT1M) FT1M = Female thread (metric) ΑII FT1E = Female thread (English) EC2, EC3, EC4, EC5 MT1M = Male thread (metric) MT1E = Male thread (English) EC2, EC3, EC4, EC5

Options***

(add multiple in the following sequence, omit if no options required)

BA24 = 24 Vdc brake on actuator (EC1 only, not available with 10L ratio or MS1 mounting options) BS24 = 24 Vdc brake on ballscrew (not available with EC1 or 10L ratio,

or with MF2(x), MF3(x), MS1, MP2(x), MP3(x) mounting options) BS115 = 115 Vac brake on ballscrew (not available with EC1 or 10L ratio, or with MF2(x), MF3(x), MS1, MP2(x), MP3(x) mounting options) PB = Protective boot*

L = Linear potentiometer (only valid through 600 mm stroke, standard lengths)

Cable

CO = No cable supplied, motor includes connectors. Default for all AKM servomotors; select Kollmorgen cables based on motor/drive pairing.

www.kollmorgen.com

^{*} Refer to Alternate AKM servomotor and electric cylinder systems table on page 72. Contact customer support for AKM combinations outside of those listed.

^{**} For custom lengths round up to next standard incremental plus add standard cut fee.

^{***} Contact customer support for non-standard pricing and lead times.

Note: Options shown in bold blue text are considered standard