



Selection table



Applications



Motor selection



Controller



Motor type Step

Transmission Ball screw

Sensor switch Reed switch

Anti-rotation Linear bushing

Weight

Unit: kg

Stroke Size	SM motor			OBM / BM motor		
	30	50	75	30	50	75
16	0.95	1.08	—	0.88	1.01	—
20	1.40	1.62	1.89	1.33	1.55	1.82

Feature

- High anti-rotation accuracy.
- Compact and lightweight.
- Capable of withstanding torque and lateral force.
- Three installation directions.
- Excellent repeatability.
- Magnetic as standard.

Specification

Model		MEGS	
Size		16	20
Positioning repeatability (mm)		±0.02	
Lead (mm)		1	2
Ball screw (ø)		4	6
Stroke (mm)		30 / 50	30 / 50 / 75
Anti-rotation tolerance (°)		±0.06	
Sensor switch		RDC(V), RQC(V) 	
With step motor		☐ 25	☐ 28 ☐ 35
Max. speed	SM (mm/s)	—	≤ 50 ≤ 100
	BM (mm/s)	≤ 50	— ≤ 100
	OBM (mm/s)	≤ 50	
Rated moment load (N.m)		0.7	2
Rated axial load (kg)		0.7	0.95
Max. thrust * (N)		270	160

* Thrust and moving speed may vary depending on cable length, load, stroke and mounting conditions. Thrust tolerance: ±20%.

Order example

MEGS — 20 L02 — 30 — BC — CK10 03 N 015

Model

Size Ball screw lead

16	L01	1 mm
20	L02	2 mm

Stroke

30	30 mm
50	50 mm
75 *	75 mm

*Only for size 20.

Controller Motor

CK10	SM
CM10 *	OBM
CM20 *	BM

* Sensors would be needed.

I/O type

N	NPN
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* Not suitable for CM10.

I/O cable length

015	1.5 m (stanadrd)
03	3 m

* Not suitable for CM10.

Motor position

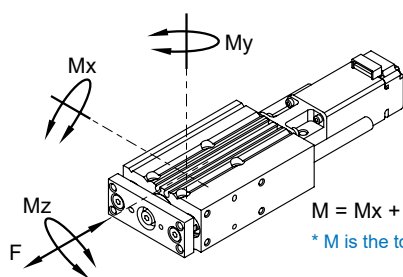
BC	Direct connection
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Motor + Encoder cable

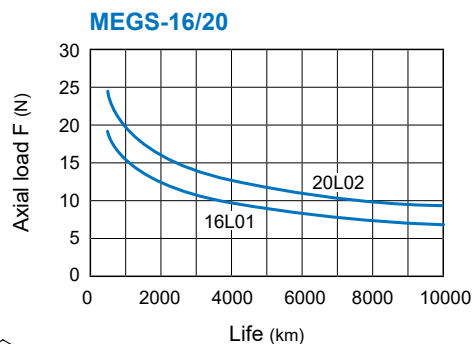
01	1 m (CM10 / CM20 only)
015	1.5 m (CK10 only)
03	3 m (Standard)
05	5 m

Life – Load relationship chart

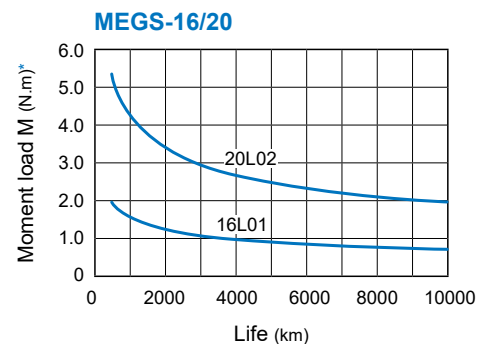
The predicted service life under axial load F and moment M is shown in the charts.



Life – Axial load relationship chart

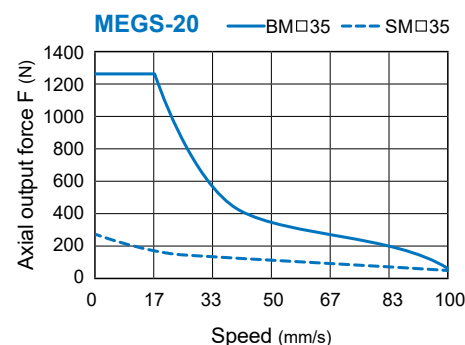
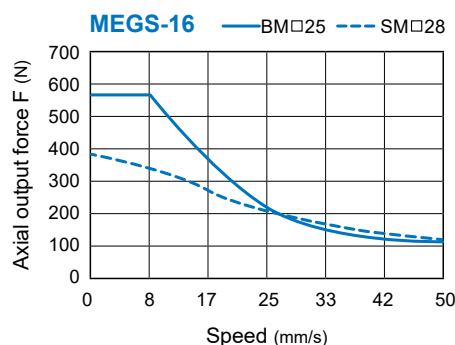


Life – Moment load relationship chart

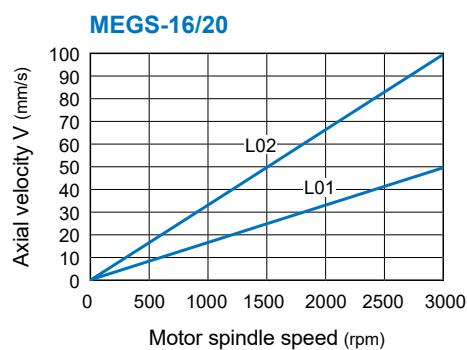


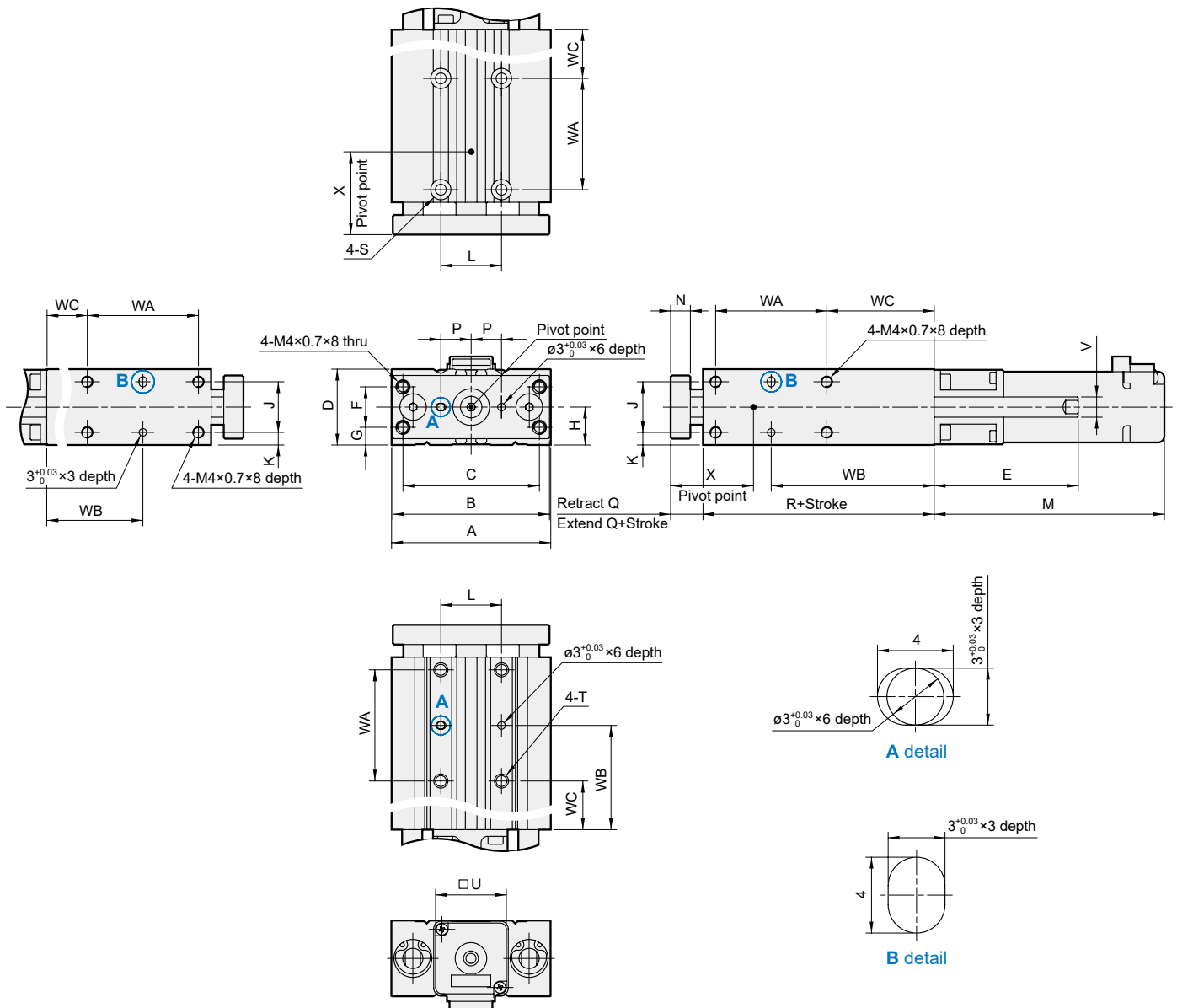
* Note: Use the max value M when the rod is fully extended.

Motor spindle speed – Axial output force chart



Speed – Axial velocity relationship chart





Code Size	A	B	C	D	F	G	H	I	J	K	L	N	P	Q	R	S	T	U	V
16	63	62	54	30	16	7	15	5	20	5	24	7.8	12	12.8	41.5	ø4.3 thru, c'bore ø8×4.5 dp	M5×0.8×10 dp	28	8
20	84	81	70	36	18	8	17	17	28	4	28	9.8	14	15.8	41.0	ø5.2 thru, c'bore ø9.5×5.5 dp	M6×1.0×12 dp	35	10

Code Stroke Size	E			WA			WB			WC			X
	30	50	75	30	50	75	30	50	75	30	50	75	
16	32.5	52.5	77.5	24	44	—	54.5	64.5	—	42.5	42.5	—	28
20	35	55	80	24	44	44	42	52	77	30	30	55	33.5

Code Motor Size	M		
	SM	BM	OBM
16	91.1	77	68
20	83.6	94.6	84.6