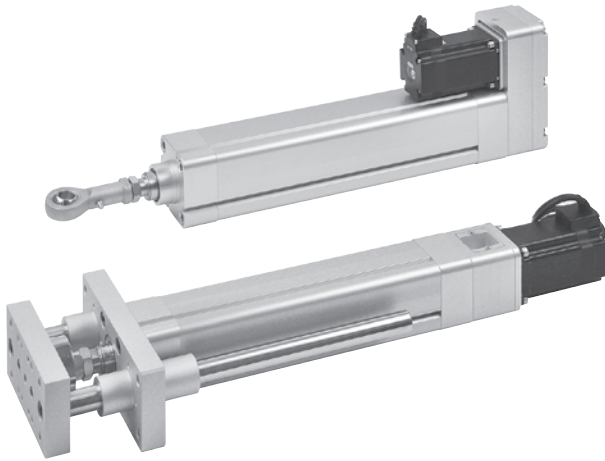




Motor type	Servo / Step	Transmission	Ball screw
Environment	Standard	Guide type	Slide guide

Specification

Model	MEQI							
Size	32		50			63		
Positioning repeatability (mm)	±0.02							
Lead *1 (mm)	1	2	5	10	20	5	10	20
Ball screw (ø)	C7ø8		C7ø16			C7ø20		
Stroke/Pitch (mm)	100~400/50		100~600/50			100~800/50		
Anti-rotation tolerance (°)	±0.4							
Start torque (N.m)	<0.05	<0.1	<0.2	<0.25	<0.3	<0.3	<0.35	<0.4
Sensor switch	RDFE (Refer to page 5-11)							

With AC servo motor (W)		100		400					
Max. speed *2 (mm/s)	50	100	250	500	1000	250	500	1000	
Rated thrust (N)	1800	900	1560	780	390	1560	780	390	
Work load *3	Horizontal *4 (kg)	16	22	110	88	40	110	88	40
	Vertical (kg)	4	5.5	33	22	10	33	22	10

With step motor	□42		□56					
Max. speed *2 (mm/s)	50	100	125	250	500	125	250	500
Rated thrust (N)	1700	850	1120	560	280	1120	560	280

*1. Other ball screw accuracy or lead is optional.

*2. Acceleration and deceleration value is set 0.2 second.

*3. An external guide is necessary to support the load.

The operating speed under work load is less than maximum speed.

*4. When the friction coefficient of carriage is 0.25.

Order example

MEQI — 50 L05 — 200 — BC — S 56 — A3 D V													
Model	Size	Ball screw lead		Stroke	Size	Motor position		Limit sensor		Sensor type		Auto switch type	
32	L01	1 mm		100~400	32	BC	Direct connection	—	No sensor	D	2-wire	—	Horizontal
	L02	2 mm		100~600	50	BA	Turned	A1	1 pc	N	NPN	V	Vertical
50 63	L05	5 mm		100~800	63			A2	2 pcs	P	PNP		
	L10	10 mm						A3	3 pcs				
	L20	20 mm											
Motor brand (*2)				Flange face		Size		* With cable 2m.					
M	Mitsubishi			10	100W servo		32						
	Yaskawa												
	Delta												
P	Panasonic			40	400W servo		50 63						
S	Mindman			42	□42 Step (*1)		32						
B				56	□56 Step (*1)		50 63						

*1. Step motors are without brake.

*2. Standard type is without motor.

Please refer to the list of standard motors for flange size.

MEQI Order example of accessories & Weight

ISO 15552 STANDARD ROD ELECTRIC ACTUATOR (WITHOUT MOTOR)



Accessories & Connector

Accessories							
Code	LB (Purchase 2 pcs)	LC (Purchase 2 pcs)	CA	CB	CDB (Purchase CB+PIN)	FAC	FBC
Mounting Size							
32	LB-Q2-32	LC-EQ1-32	CA-Q2-32	CB-Q2-32	CDB-Q2-32	FAC-Q2-32	
50	LB-Q2-50	LC-EQ1-50	CA-Q2-50	CB-Q2-50	CDB-Q2-50	FAC-Q2-50	
63	LB-Q2-63	LC-EQ1-63	CA-Q2-63	CB-Q2-63	CDB-Q2-63	FAC-Q2-63	

Accessories			Connector		
Code	TFA	TFB	TC	Y	I YS (Y+Floating pin)
Mounting Size					
32	TFA-EQ1-32		TC-EQ1-32	Y-Q2-32	I-Q2-32
50	TFA-EQ1-50		TC-EQ1-50	Y-Q2-50	I-Q2-50
63	TFA-EQ1-63		TC-EQ1-63		

Pin

Applicable	YS connector	Y&I connector	CA&CB accessories
Code	PIN-S	PIN-Y-P (with split pin)	PIN-CB-P (with split pin)
Fig Size			
32	PIN-Q2-32-S	PIN-Q2-32-2-P	PIN-Q2-32-1-P
50	PIN-Q2-50-S	PIN-Q2-50-2-P	PIN-Q2-50-1-P
63			PIN-Q2-63-1-P

Order example of self-assembled

The size 50 of LB accessories, Y connector and pin.

No.	Order number	Qty
1	LB-Q2-50	2
2	Y-Q2-50	1
3	PIN-Q2-50-2-P	1

* To order accessories/ connectors/ pin separately, please place orders separately according to the order codes in the above table.

Order example of factory assembled

△ Actuator and accessories are distinguished by the symbol " + ".

MEQI — Standard model no. + TFB

ELECTRIC ACTUATOR ACCESSORIES

Weight

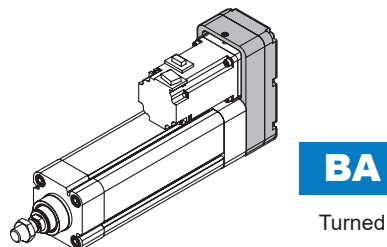
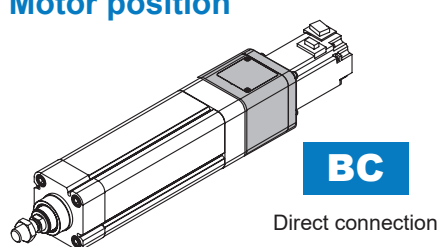
Unit: kg

Model	Basic weight MEQI - 32	Each 100 mm MEQI - 32	Basic weight MEQI - 50	Each 100 mm MEQI - 50	Basic weight MEQI - 63	Each 100 mm MEQI - 63
Size						
Motor position	BC	1.10	0.43	2.58	0.73	4.15
	BA	1.25	0.43	2.99	0.73	4.39

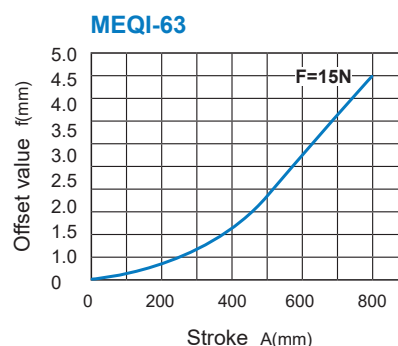
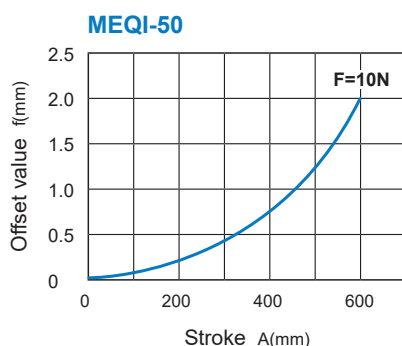
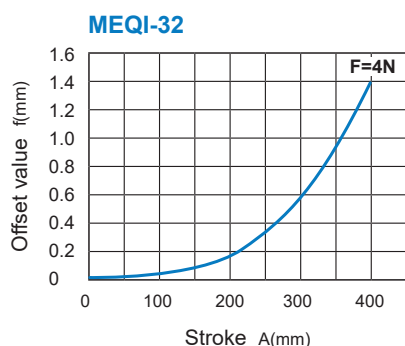
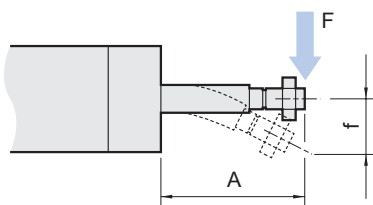
Model	LB	LC	CA	CB	CDB	FAC / FBC	TC	TFA / TFB
Size								
32	0.16	0.05	0.22	0.19	0.17	0.24	0.21	0.20
50	0.32	0.29	0.39	0.35	0.46	0.46	0.51	0.61
63	0.40	0.36	0.67	0.54	0.55	0.68	0.80	1.20

Model	Y	I	PIN		YS
			Y / I	CA / CB	
Size					
32	0.07	0.09	0.02	0.04	0.02
50	0.27	0.34	0.08	0.07	0.07
63	0.27	0.33	0.08	0.15	0.07

Motor position



Rod bending offset

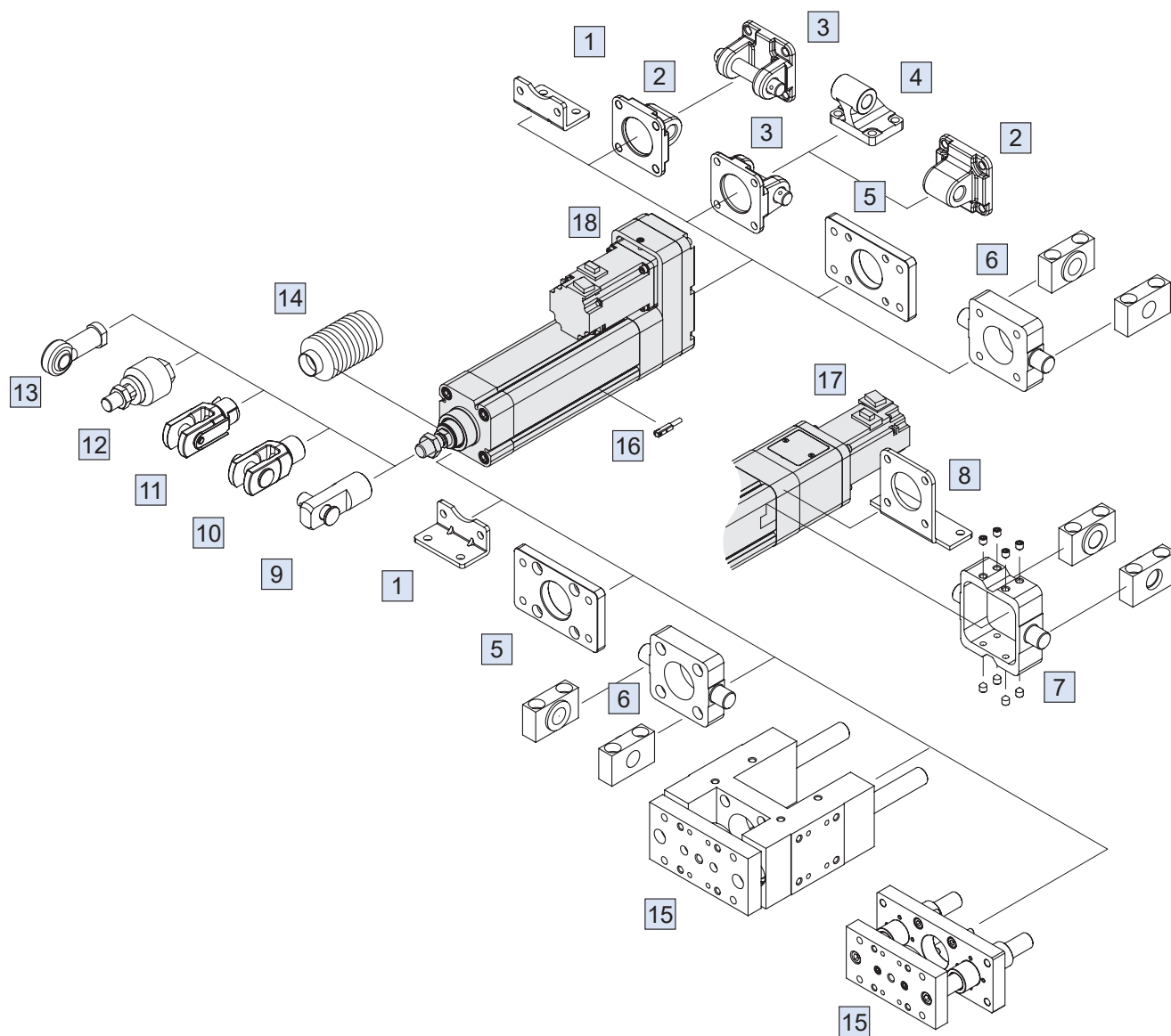


Standard motors

Brand	Mark	Power output	Motor model (Without brake)	Motor model (With brake)	Motor rod dia-shaft length (mm)	Centring collar diameter (mm)	Centring collar depth (mm)	Motor mount P.C.D (mm)	Mounting port (mm)
Mitsubishi	M	100W	HG-KN13J	HG-KN13BJ	ø8-21.5	ø30	2.5	ø46	4-ø4.5
		400W	HG-KN43J	HG-KN43B J	ø14-30	ø50	3	ø70	4-ø5.8
Yaskawa		100W	SGM7J-01A7A21	SGM7J-01A7A2C	ø8-17.5	ø30	7.5	ø46	2-ø4.3
		400W	SGM7J-04A7A21	SGM7J-04A7A2C	ø14-30	ø50	3	ø70	4-ø5.5
Delta		100W	ECMA-C10401PS	ECMA-C10401QS	ø8-20	ø30	2.5	ø46	4-ø4.5
		400W	ECMA-C20604PS	ECMA-C20604QS	ø14-30	ø50	3	ø70	4-ø5.5
Panasonic	P	100W	MHMF011L1U2	MHMF011L1V2	ø8-22	ø30	3	ø45	2-Ø4.3
		400W	MHMF042L1U2M	MHMF042L1V2M	ø14-30	ø50	3	ø70	4-ø4.5

* If your inquiry is not included in above table, please kindly contact us.

Brand	Mark	Dimensions of motor	Motor model (Without brake)	With controller	Motor rod dia-shaft length (mm)	Centring collar diameter (mm)	Centring collar depth (mm)	Mounting holes position (mm)	Mounting port (mm)
Mindman	S	□42	SM-42L-F	CK10	ø5-22	ø22	2	□31	4-M3
		□56	SM-56L-F	CK10	ø6.35-20	ø38.1	1.6	□47.14	4-ø5
	B	□42	BM-42L	CM20	ø8-22	ø22	2	□31	4-M3
		□56	BM-56L	CM20	ø8-24	ø38.1	1.6	□47.14	4-ø4.5

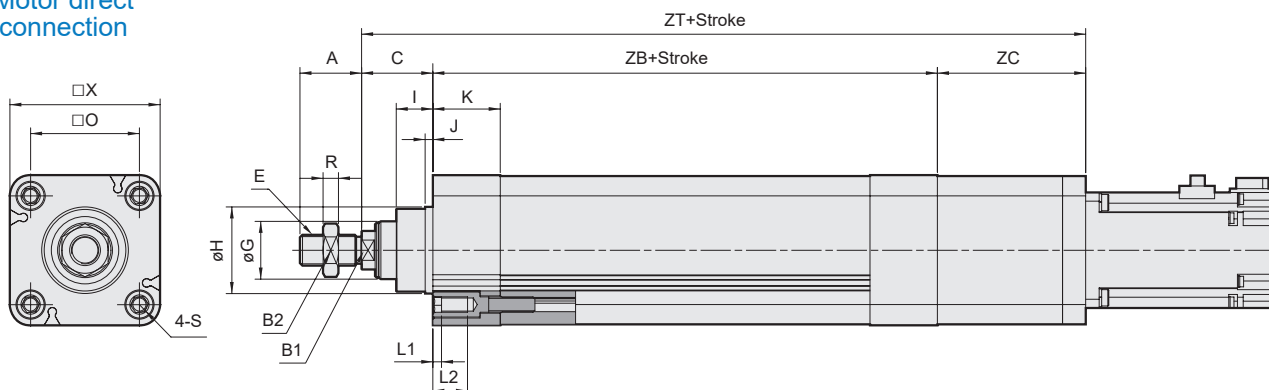


No.	Accessories	Page
1	Mounting accessories LB	4-87
2	Mounting accessories CA	4-89
3	Mounting accessories CB	4-89
4	Mounting accessories CDB	4-90
5	Mounting accessories FAC/FBC	4-88
6	Mounting accessories TFA/TFB	4-91
7	Mounting accessories TC	4-90
8	Mounting accessories LC	4-87
9	Accessories I+PIN	4-92
10	Accessories Y+PIN	4-92

No.	Accessories	Page
11	Accessories YS	4-92
12	Floating joint MFC	8-2 (Vol.2)
13	Female rod ends PHS	8-6 (Vol.2)
14	Protective bellows kit	—
15	MGTB/TU/TX Guide holder assembly	4-39 (Vol.2)
16	Sensor switch RDFE	5-11
17	Motor direct connection kit BC	4-86
18	Motor Turned kit BA	4-86

BC

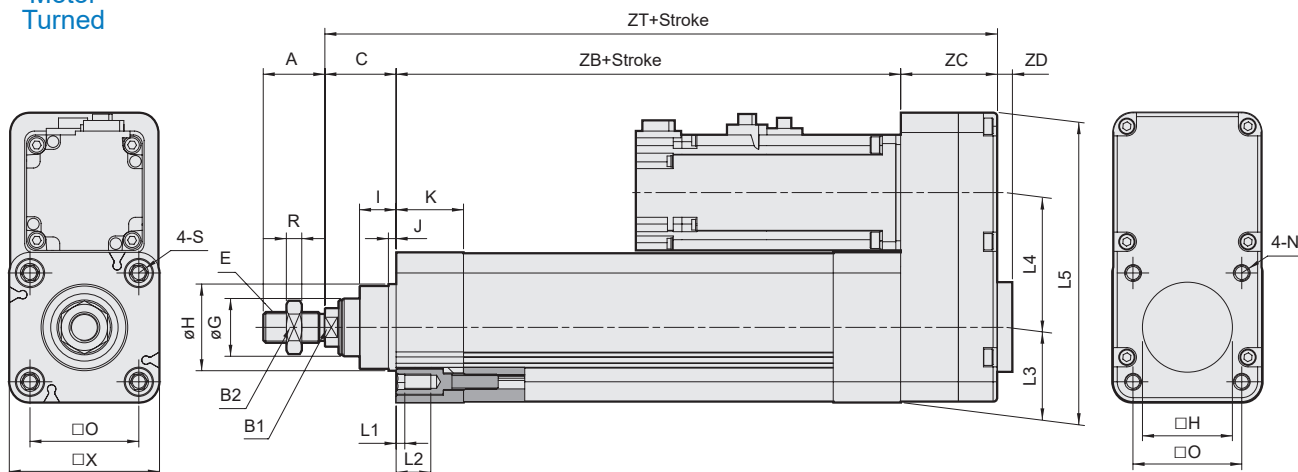
Motor direct connection



Code Size	A	B1	B2	C	E	G	H	I	J	K	L1	L2	O	R	S	X	ZB	ZC		ZT	
																		servo	step	servo	step
32	22	10	17	25.5	M10×1.25	20	30	10	5	27	4.5	17	32.5	8	M6×1.0	45	87	51		163.5	
50	32	17	24	37	M16×1.5	25	40	19	4	31	4.5	18	46.5	8	M8×1.25	65	152	67	48	256	239
63	32	17	24	37	M16×1.5	30	45	19	4	35	4.5	18	56.5	8	M8×1.25	78	162	77	55	276	256

BA

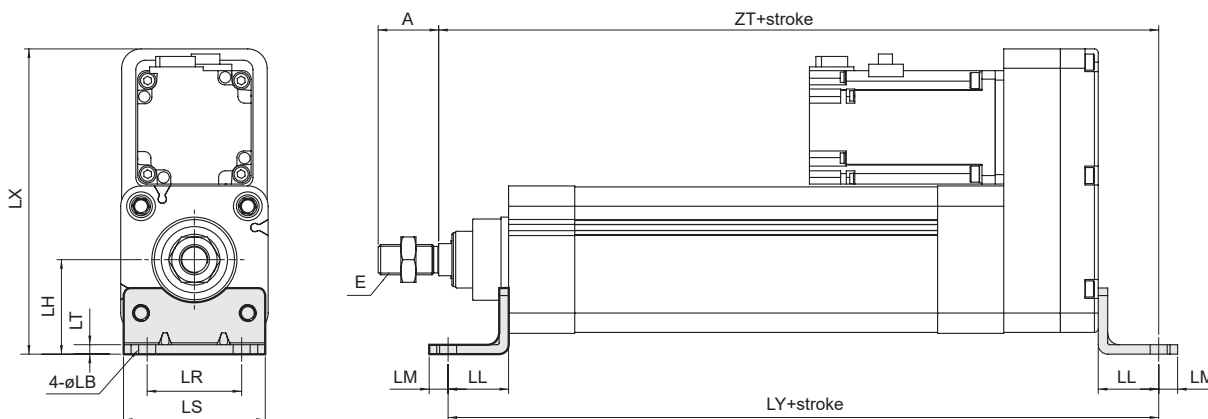
Motor Turned



Code Size	A	B1	B2	C	E	G	H	I	J	K	L1	L2	L3	L4	L5	N	O	R	S	X	ZB	ZC	ZD	ZT
32	22	10	17	25.5	M10×1.25	20	30	10	5	27	4.5	17	24.5	48	100	M6×1.0×16L	32.5	8	M6×1.0	45	87	42	4	154.5
50	32	17	24	37	M16×1.5	25	40	19	4	31	4.5	18	32.5	70	150.5	M8×1.25×12L	46.5	8	M8×1.25	65	152	50	—	239
63	32	17	24	37	M16×1.5	30	45	19	4	35	4.5	18	39.0	70	150.5	M8×1.25×12L	56.5	8	M8×1.25	78	162	50	—	249

LB

* Only for (BA) motor turned type.

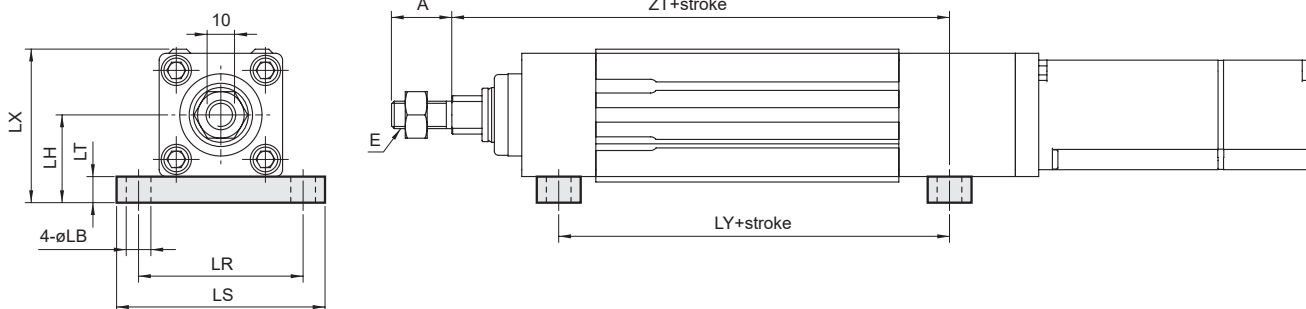


Code Size	A	E	LB	LH	LL	LM	LR	LS	LT	LX	LY	ZT
32	22	M10×1.25	7	32	24	8	32	46.5	5	107.5	177	178.5
50	32	M16×1.5	9	45	32	10	45	65	5	163.0	266	271
63	32	M16×1.5	9	50	32	10	50	75	5	161.5	276	281

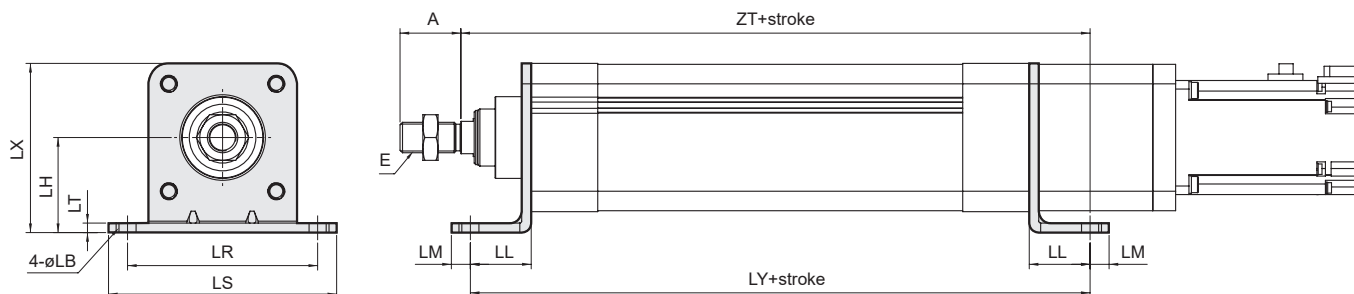
LC

* Only for (BC) motor direct connection type.

Size 32

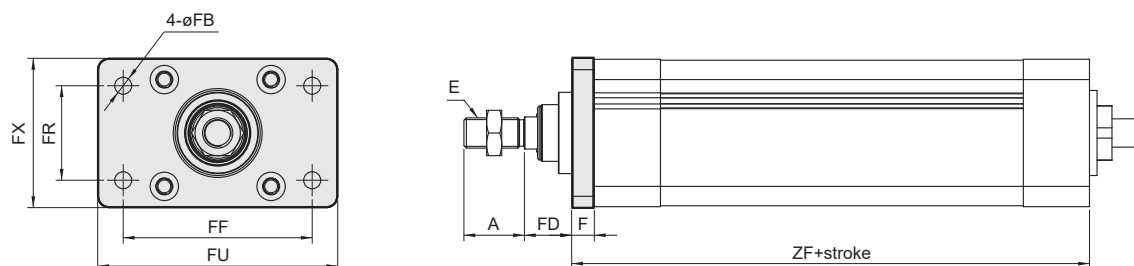


Size 50, 63



Code Size	A	E	LB	LH	LL	LM	LR	LS	LT	LX	LY	ZT
32	22	M10×1.25	9	32	—	—	60	76	9.5	56	92	131
50	32	M16×1.5	9	45	32	10	90	110	5	77.5	216	221
63	32	M16×1.5	9	50	32	10	100	120	5	89.0	226	231

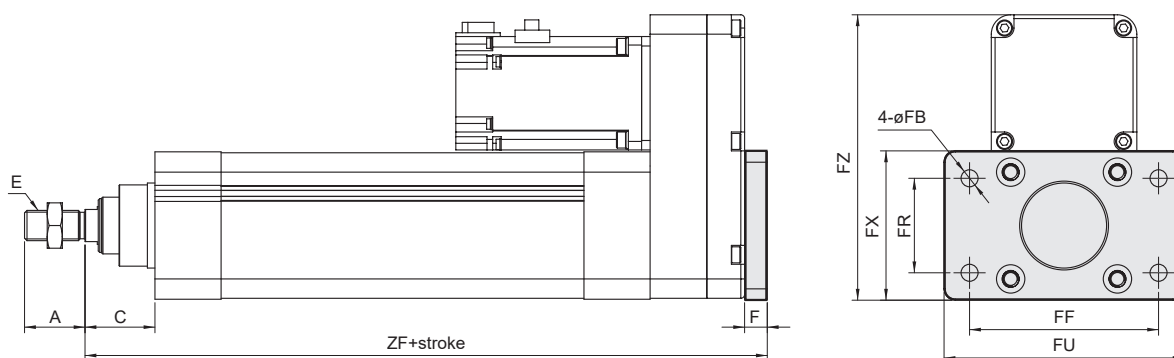
FAC



Code Size	A	E	F	FB	FD	FF	FR	FU	FX	ZF
32	22	M10×1.25	10	7	15.5	64	32	79	50	97
50	32	M16×1.5	12	9	25	90	45	112	67	164
63	32	M16×1.5	12	9	25	100	50	127	79	174

FBC

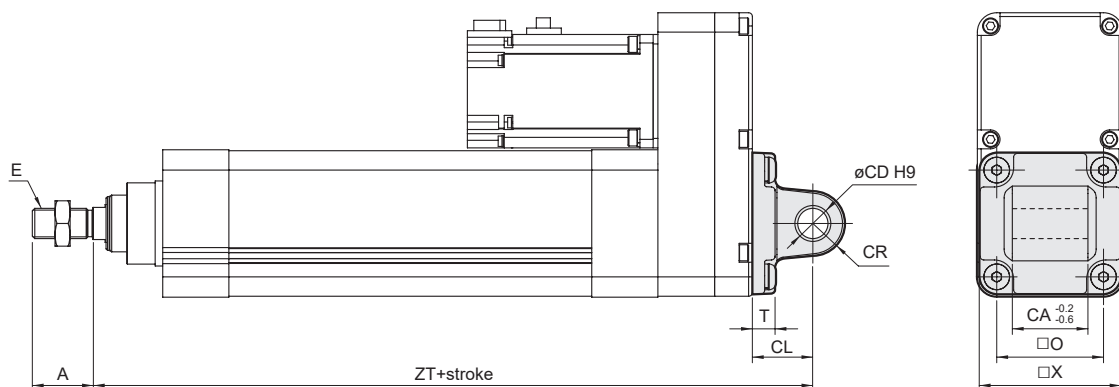
* Only for (BA) motor turned type.



Code Size	A	C	E	F	FB	FF	FR	FU	FX	FZ	ZF
32	22	25.5	M10×1.25	10	7	64	32	79	50	100.5	164.5
50	32	37	M16×1.5	12	9	90	45	112	67	151.5	251
63	32	37	M16×1.5	12	9	100	50	127	79	151.0	261

CA

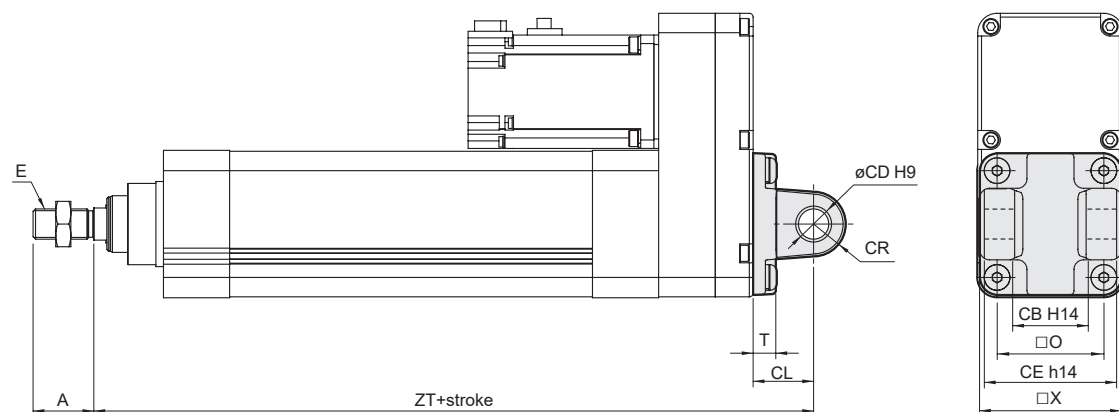
* Only for (BA) motor turned type.



Code Size	A	CA	CD	CL	CR	E	O	T	X	ZT
32	22	26	10	22	R10.5	M10×1.25	32.5	10	46.5	176.5
50	32	32	12	27	R13	M16×1.5	46.5	12	64	266
63	32	40	16	32	R17	M16×1.5	56.5	12	75	281

CB

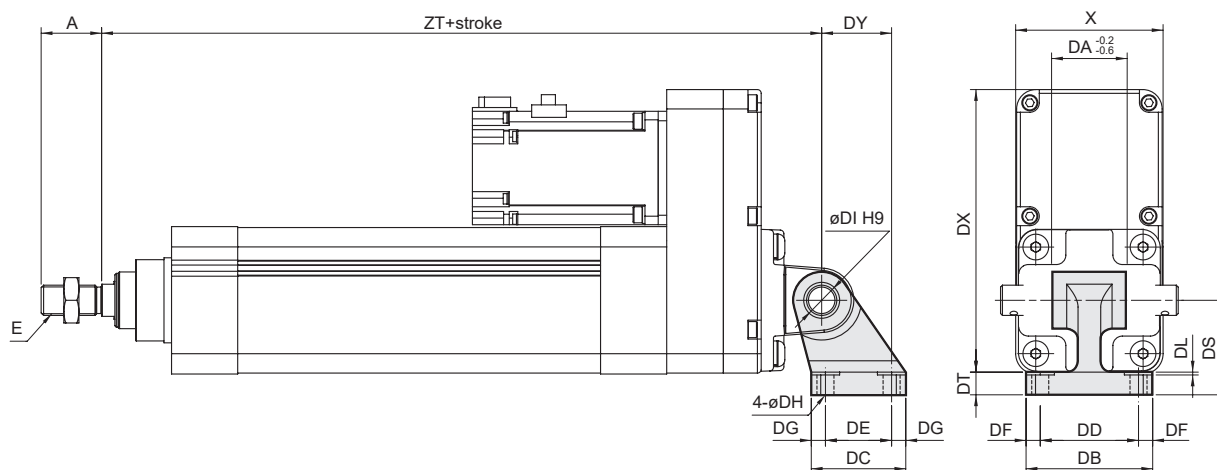
* Only for (BA) motor turned type.



Code Size	A	CB	CD	CE	CL	CR	E	O	T	X	ZT
32	22	26	10	45	22	R10.5	M10×1.25	32.5	10	46.5	176.5
50	32	32	12	60	27	R13	M16×1.5	46.5	12	64	266
63	32	40	16	70	32	R17	M16×1.5	56.5	12	75	281

CDB

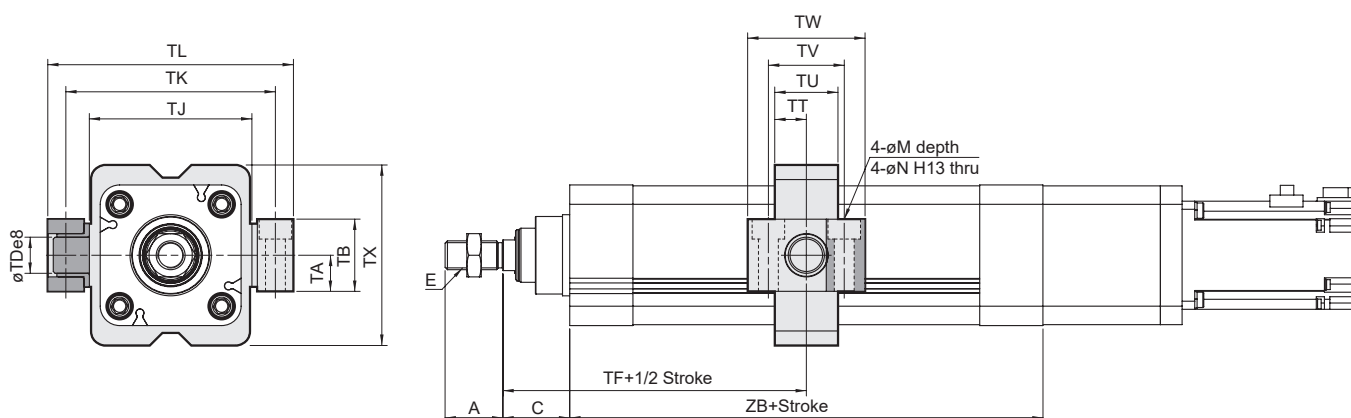
* Only for (BA) motor turned type.



Code Size	A	DA	DB	DC	DD	DE	DF	DG	DH	DI	DL	DS	DT	DX	DY	E	X	ZT
32	22	26	50	30	38	18	6	6	6.6	10	1.5	32	8	101	21	M10×1.25	46.5	176.5
50	32	32	65	45	50	30	7.5	7.5	9	12	1.5	45	12	151.0	33	M16×1.5	65	266
63	32	40	67	50	52	35	7.5	7.5	9	16	1.5	50	12	149.5	37	M16×1.5	78	281

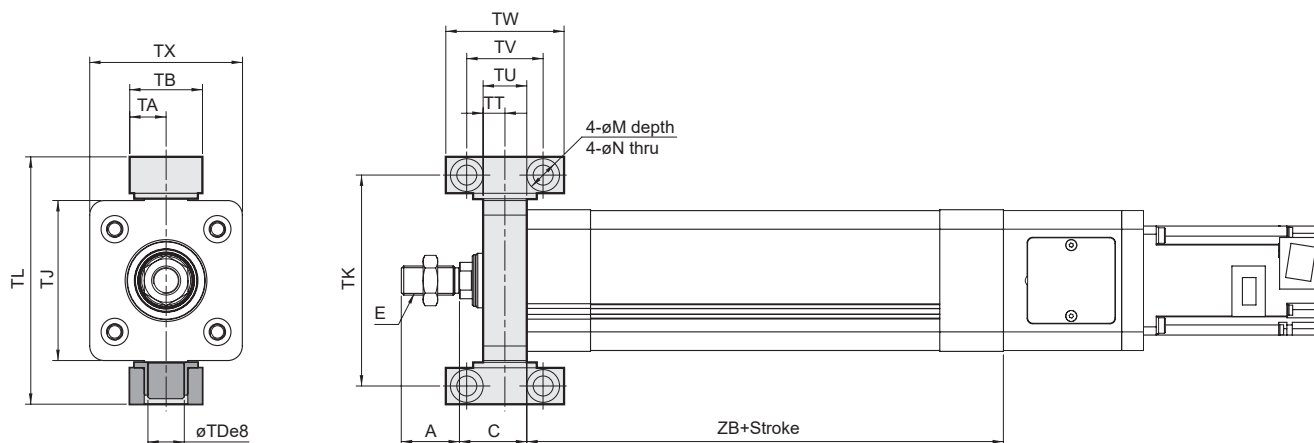
TC

* When used for (BA) motor turned type the stroke must over 250mm.



Code Size	A	C	E	M	N	TA	TB	TD	TF	TJ	TK	TL	TT	TU	TV	TW	TX	ZB
32	22	25.5	M10×1.25	11×6.8	6.6	15	30	12	44.5	50	71	86	12.5	25	32	46	65	87
50	32	37	M16×1.5	15×9	9	18	36	16	113	75	99	117	16	32	36	55	85	152
63	32	37	M16×1.5	18×11	11	20	40	20	118	90	116	136	17.5	35	42	65	100	162

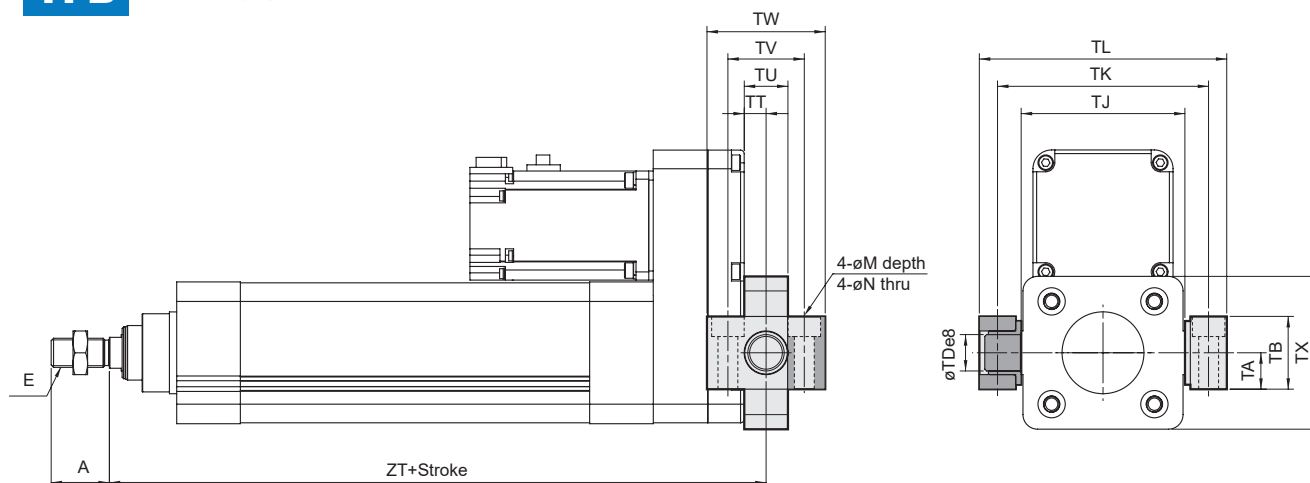
TFA



Code Size	A	C	E	M	N	TA	TB	TD	TJ	TK	TL	TT	TU	TV	TW	TX	ZB
32	22	25.5	M10×1.25	11×6.8	6.4	15	30	12	50	71	90	7	14	32	46	65	87
50	32	37	M16×1.5	15×9	9	18	36	16	75	99	117	9.5	19	36	55	69	152
63	32	37	M16×1.5	18×11	11	20	40	20	90	116	136	12	24	42	65	84	162

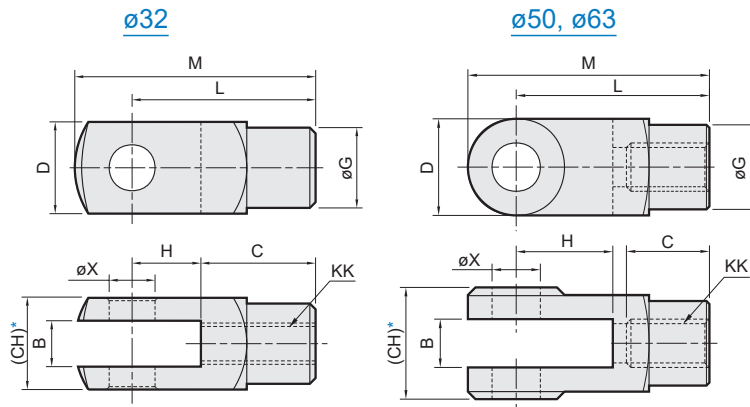
TFB

* Only for (BA) motor turned type.

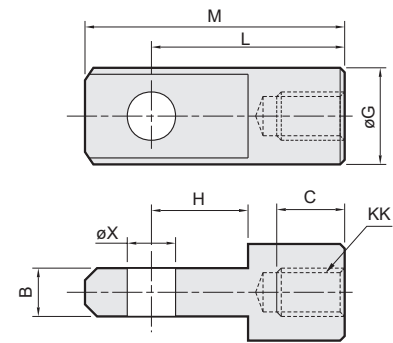


Code Size	A	E	M	N	TA	TB	TD	TJ	TK	TL	TT	TU	TV	TW	TX	ZT
32	22	M10×1.25	11×6.8	6.4	15	30	12	50	71	90	7	14	32	46	65	161.5
50	32	M16×1.5	15×9	9	18	36	16	75	99	117	9.5	19	36	55	69	248.5
63	32	M16×1.5	18×11	11	20	40	20	90	116	136	12	24	42	65	84	261.0

Y connector



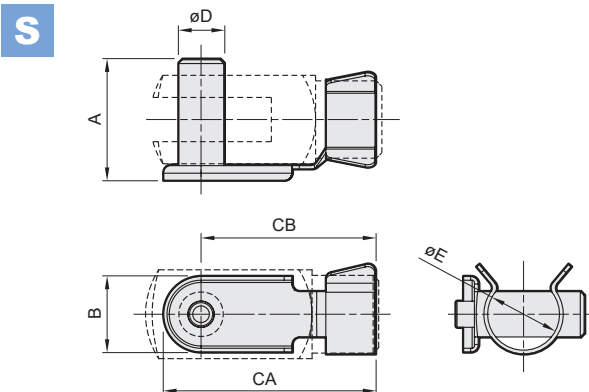
I connector



* Please do not take the sand casting plate as the mounting plate, because we do not machine it.
If you have this special demand, please contact our sales representative.

Code	B		C		CH		D		G		H		KK		L		M		X ^{H9}
Tube I.D.	Y	I	Y	I	Y	I	Y	I	Y	I	Y	I	Y	I	Y	I	Y	I	
32	10 ^{+0.5 +0.15}	10 ^{-0.1 -0.2}	20	17	19	—	19	—	ø18	ø20	20	15	M10×1.25	40	40	52	52	ø10 ^{+0.04 0}	
50	16 ^{+0.3 +0.1}	16 ^{-0.1 -0.3}	28	23	32	—	32	—	ø28	ø32	32	32	M16×1.5	64	64	89	86	ø16 ^{+0.04 0}	
63	16 ^{+0.3 +0.1}	16 ^{-0.1 -0.3}	28	23	32	—	32	—	ø28	ø32	32	32	M16×1.5	64	64	89	86	ø16 ^{+0.04 0}	

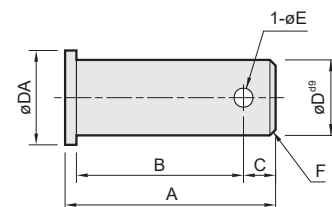
PIN



for floating pin

Code	A	B	CA	CB	D ^{d9}	E
Tube I.D.						
32	26	14	45	38	ø10 ^{-0.04 -0.07}	17
50,63	42	20	70	60	ø16 ^{-0.05 -0.09}	27

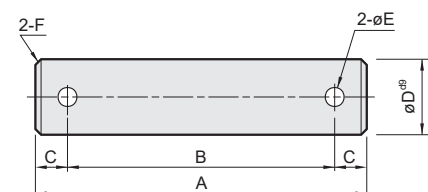
P



for Y & I connector

Code	A	B	C	D ^{d9}	DA	E	F	Split pin
Tube I.D.								
32	30	25	3.5	ø10 ^{-0.06 -0.09}	14	3.2	1	3.2×20L
50,63	47	37	7	ø16 ^{-0.05 -0.09}	22	4	1	4×25L

P



for CA & CB

Code	A	B	C	D ^{d9}	E	F	Split pin
Tube I.D.							
32	69	55	7	ø10 ^{-0.05 -0.09}	4	1.0	4×20L
50	84	70	7	ø12 ^{-0.05 -0.09}	4	1.0	4×20L
63	94	80	7	ø16 ^{-0.05 -0.09}	4	1.0	4×30L