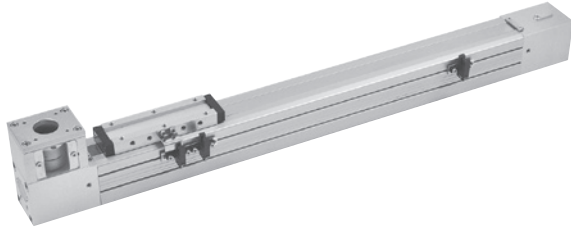


METFB-32 series

SLIDER ELECTRIC CYLINDER (WITHOUT MOTOR)



Motor type Servo / Step

Transmission Timing belt

Environment Standard

Guide type Linear guide

Specification

Model	METFB-32
Positioning repeatability (mm)	±0.05
Lead (mm/rev)	72
Belt pitch (mm)	3
Stroke (mm)	100~2000/50 pitch
No-load torque (N.m)	0.2
Slot-type photomicrosensor	RLT (Please refer to page 5-16)

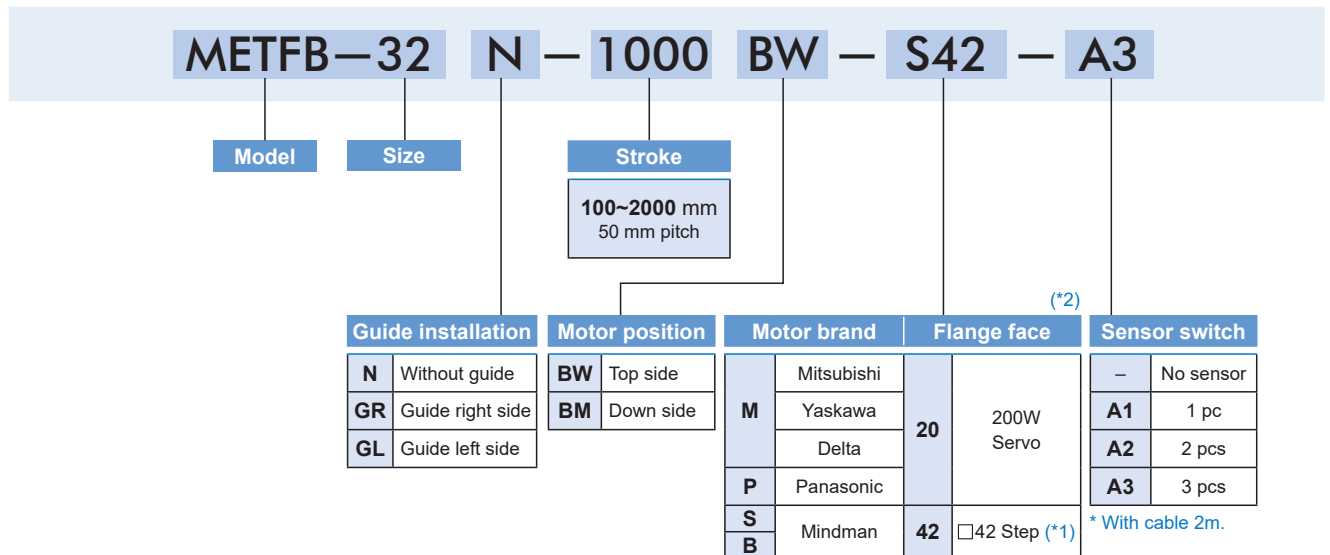
Motor type	AC servo	Step
Power output / size	200W	□42
Max. speed *1 (mm/s)	2400	720
Work load *2,3	Horizontal (kg)	9
	Vertical (kg)	—

*1. Acceleration and deceleration value is set 0.5 second.

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

*3. Not available for vertical condition.

Order example of electric cylinder



*1. Step motors are without brake.

*2. Standard type is without motor.

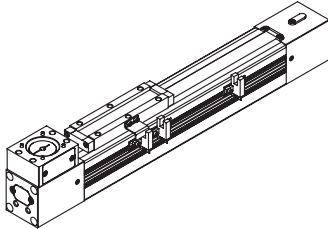
Please refer to the list of standard motors for flange size.

METFB-32 Motor specification

SLIDER ELECTRIC CYLINDER (WITHOUT MOTOR)

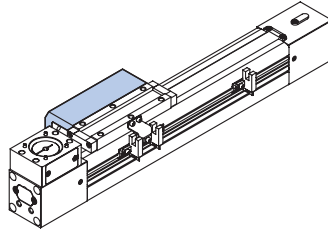


Guide installtion



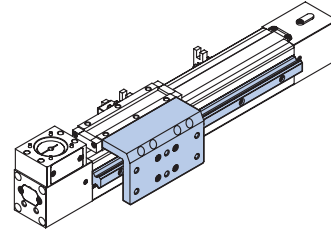
N

Without guide



GR

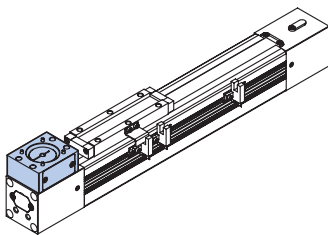
Guide right side



GL

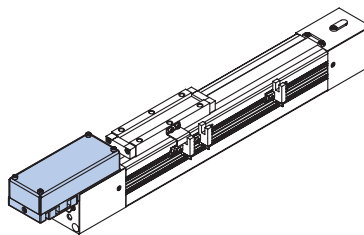
Guide left side

Motor position



BW

Top side



BM

Down side

Weight

Unit: kg

Model	Basic weight METFB-32N	Stroke 100 mm METFB-32N	Basic weight (with guide) METFB-32G*	Stroke 100 mm (with guide) METFB-32G*
Size				
32	2.06	0.36	2.7	0.49

* The form is the weight of the type of motor top side.

Standard motors

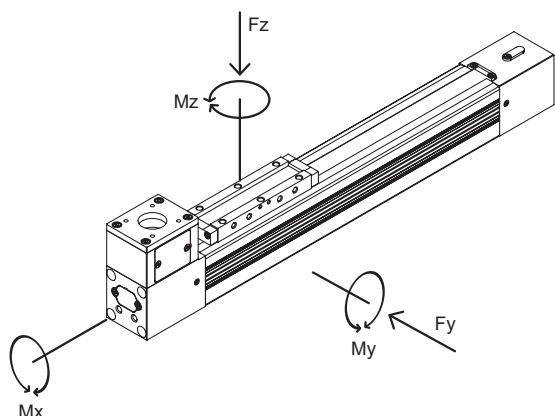
Brand	Mark	Power output	Motor model (Without brake)	Motor model (With brake)	Motor rod dia-shaft length (mm)	Centring collar diameter (mm)	Centring collar depth (mm)	Motor mount P.C.D (mm)	Mounting port (mm)
Mitsubishi	M	200W	HG-KN23J	HG-KN23B J	ø14-30	ø50	3	ø70	4-ø5.8
Yaskawa		200W	SGM7J-02A7A21	SGM7J-02A7A2C	ø14-30	ø50	3	ø70	4-ø5.5
Delta		200W	ECMA-C20602PS	ECMA-C20602FS	ø14-30	ø50	3	ø70	4-ø5.5
Panasonic	P	200W	MHMF022L1U2M	MHMF022L1V2M	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	ø5-24	ø22	2	□31	4-M3×4.5L
	B	□42	BM-42M	CM20	ø5-20	ø22	2	□31	4-M3×4L

METFB-32 Capacity

SLIDER ELECTRIC CYLINDER (WITHOUT MOTOR)



Forces & Moments

Model		Mx	My	Mz	Fy	Fz
		Max. allowed moment (N.m)			Max. allowed load(N)	
METFB-32	Without guide	5.5	22	22	—	500
	With guide	47.5	48	48	2800	3300

Attention: In case of undefinable situations the above max. values have to be reduced by 10~20%.

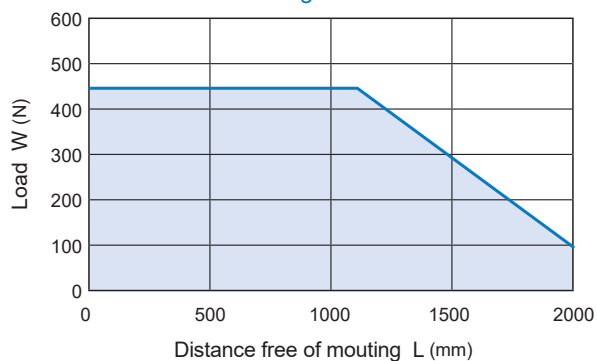
Please refer to the following formula when combined loads are applied.

$$\frac{M_{xA}}{M_x} + \frac{M_{yA}}{M_y} + \frac{M_{zA}}{M_z} + \frac{F_{yA}}{F_y} + \frac{F_{zA}}{F_z} \leq 1$$

* The A letters show the calculated value.

Positioning of cylinder mountings

METFB-32 Without guide



METFB-32 With guide

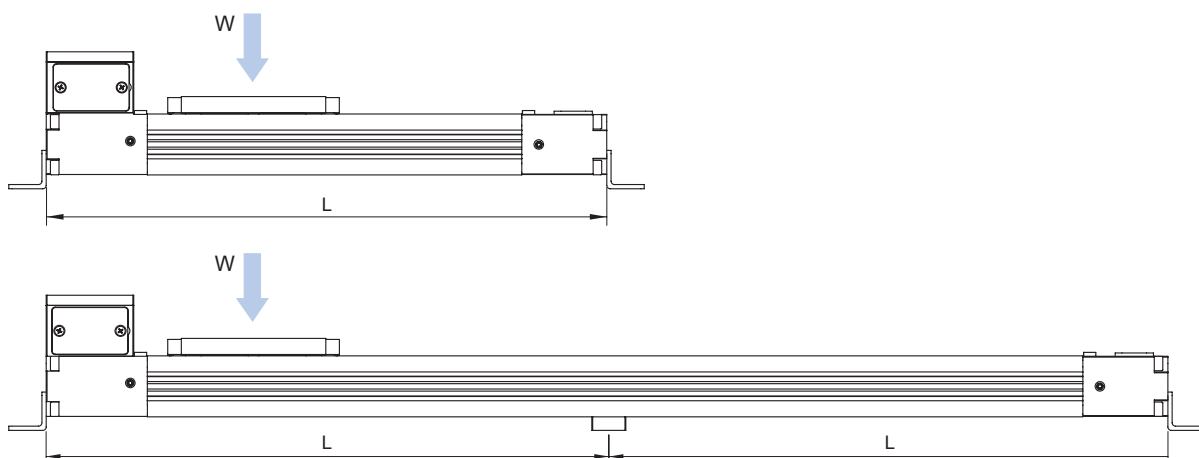
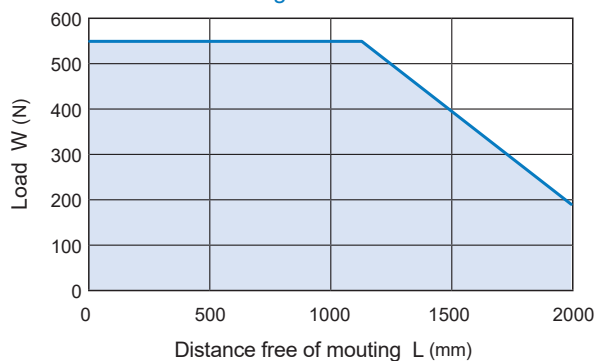


Diagram information

- Calculated deflections without support of 0.5~1 mm allow exceeding of the approved limits.
- Calculated deflections without support of > 1~1.5 mm require reduction of approved limits.

METFB-32 Dimensions

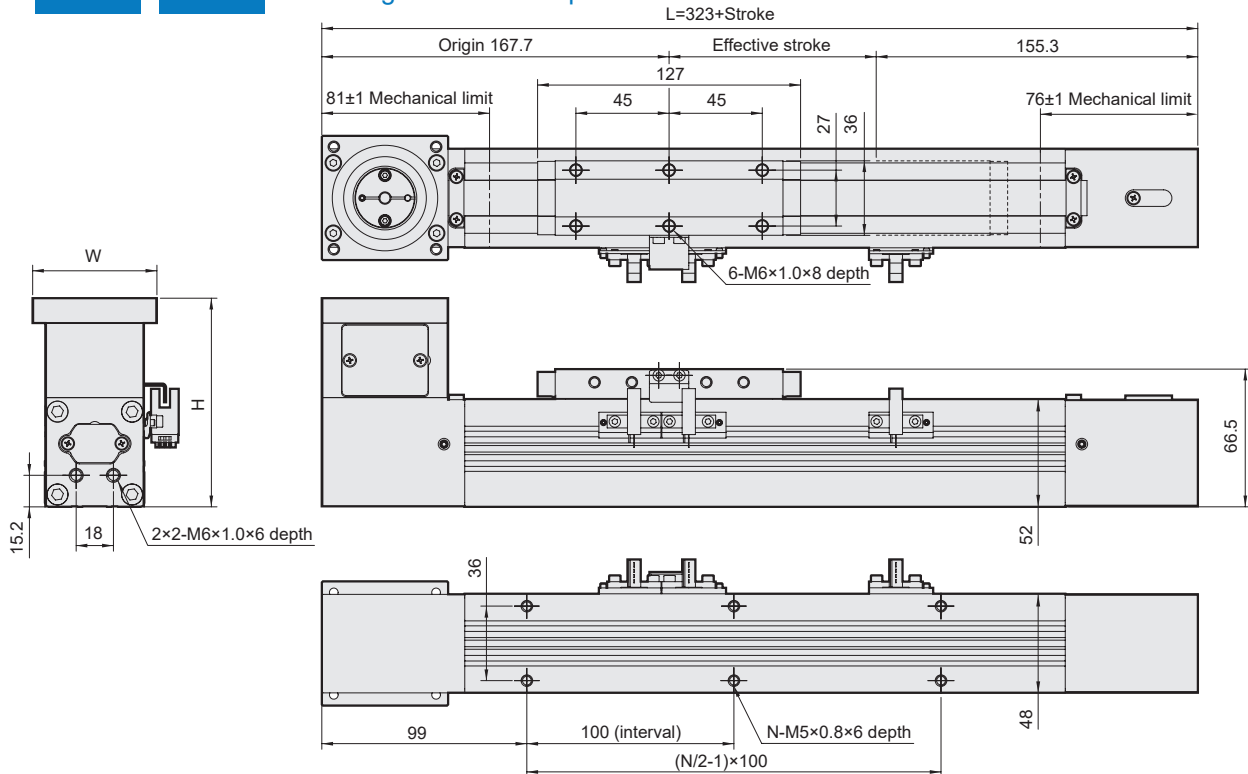
SLIDER ELECTRIC CYLINDER (WITHOUT MOTOR)



N

BW

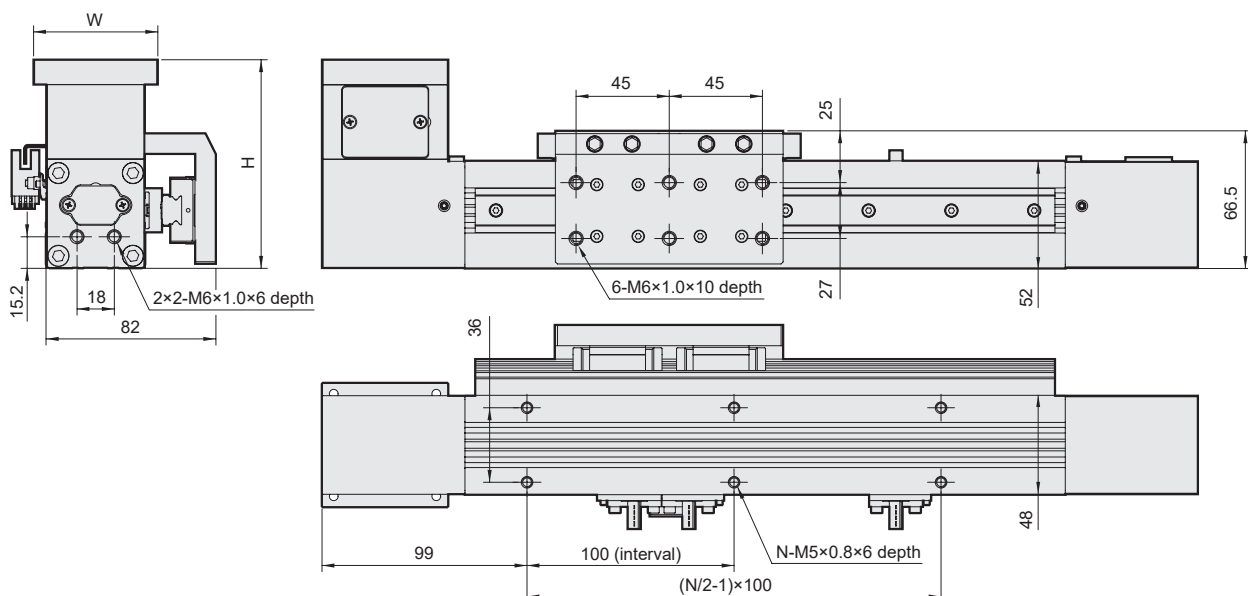
Without guide • Motor top side



GL

BW

Guide left side • Motor top side



Unit: mm

Stroke Code	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	423	523	623	723	823	923	1023	1123	1223	1323	1423	1523	1623	1723	1823	1923	2023	2123	2223	2323
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44

Stroke Code	Servo	Step
W	60	47.6
H	100.8	94.8

METFB-32 Dimensions

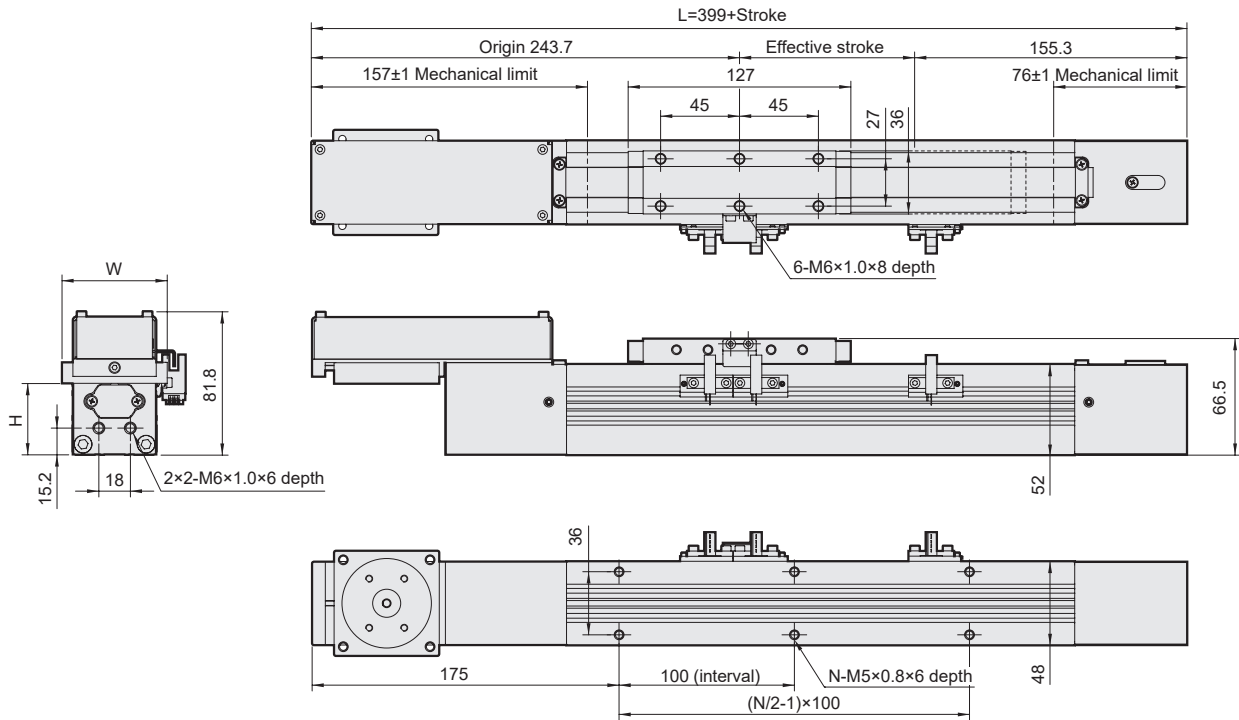
SLIDER ELECTRIC CYLINDER (WITHOUT MOTOR)



N

BM

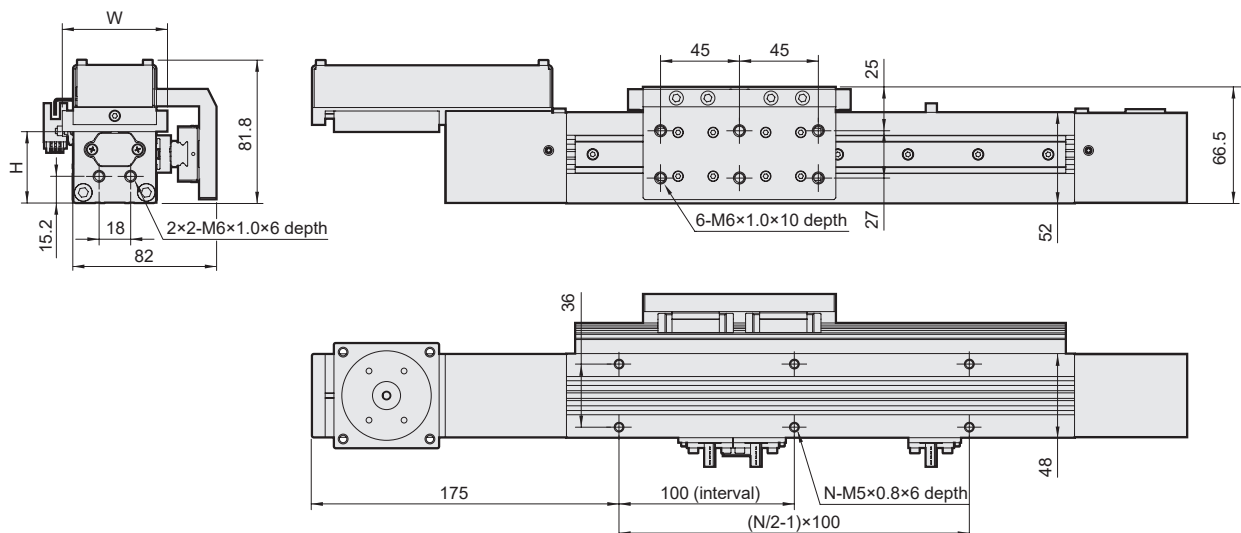
Without guide • Motor down side



GL

BM

Guide left side • Motor down side



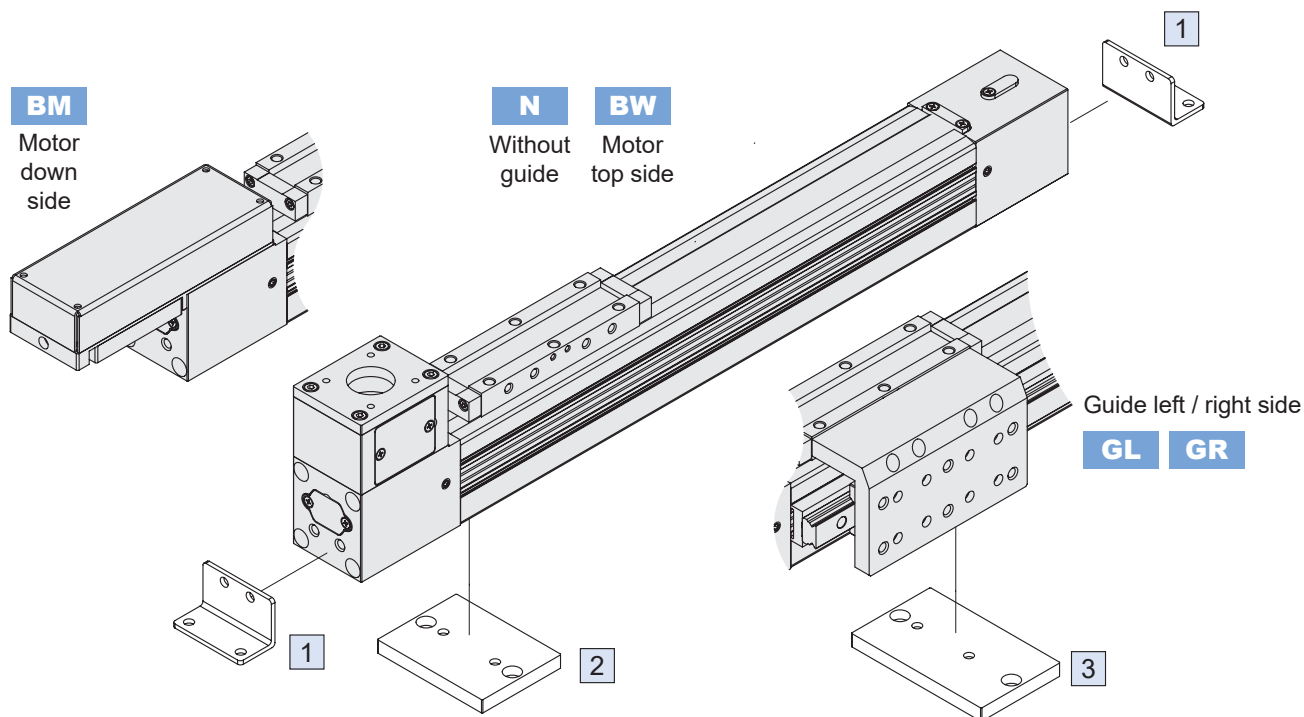
Unit: mm

Stroke Code	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	499	599	699	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44

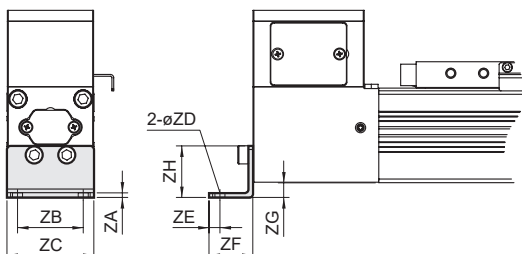
Stroke Code	Servo	Step
W	60	47.6
H	40.8	42.8

METFB-32 Mounting accessories

SLIDER ELECTRIC CYLINDER (WITHOUT MOTOR)

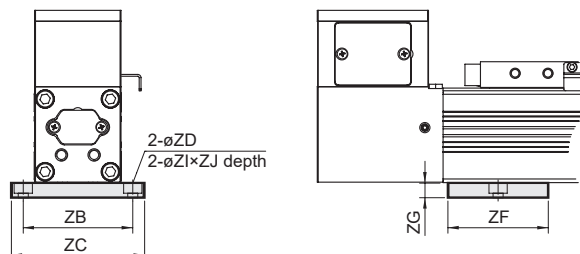


1 End cover bracket (2pcs/set)

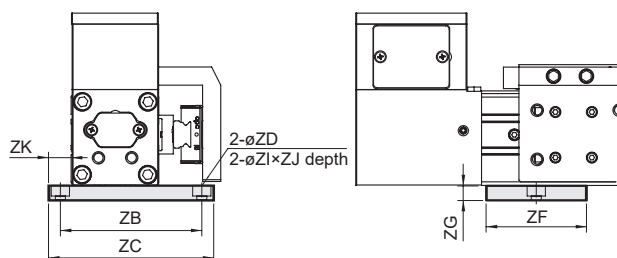


* Not applicable for (BM) motor down side.

2 Mid section support *Applicable for (N) without guide.



3 Mid section support * Applicable for (GR / GL) with guide.



Unit: mm

Item	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	Weight (g)	Order number
1	2.5	36	47.6	5.5	6	24	8	28.3	—	—	—	46	ETFB32-1
2	—	60	72	5.5	—	55	8	—	10	5.5	—	82	ETFB32-2
3	—	78	90	5.5	—	55	8	—	10	5.5	12.5	103	ETFB32-3