

Model selection

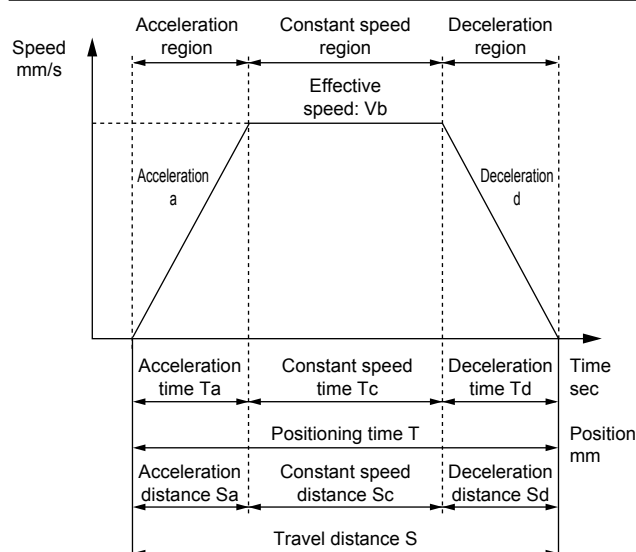
STEP 1 Confirming load capacity

Load capacity varies with mounting orientation, screw lead, transport speed, acceleration/deceleration and power supply voltage. Refer to the Series Variation (page 2), the specification table for each model and the Table of Load Capacity by Speed and Acceleration/Deceleration to select the size and screw lead.

STEP 2 Confirming positioning time

Calculate the positioning time with the selected product according to the following example and confirm that the required tact is achievable.

Positioning time for general transport operation



	Content	Code	Unit	Remarks
Set value	Set speed	V	mm/s	
	Set acceleration	a	mm/s ²	
	Set deceleration	d	mm/s ²	
	Travel distance	S	mm	
Calculated value	Achieved speed	V_{max}	mm/s	$= \{2 \times a \times d \times S / (a + d)\}^{1/2}$
	Effective speed	V_b	mm/s	Smaller of V and V_{max}
	Acceleration time	T_a	s	$= V_b / a$
	Deceleration time	T_d	s	$= V_b / d$
	Constant speed time	T_c	s	$= S_c / V_b$
	Acceleration distance	S_a	mm	$= (a \times T_a^2) / 2$
	Deceleration distance	S_d	mm	$= (d \times T_d^2) / 2$
	Constant speed distance	S_c	mm	$= S - (S_a + S_d)$
	Positioning time	T	s	$= T_a + T_c + T_d$

* Do not use at speeds that exceed the specifications.

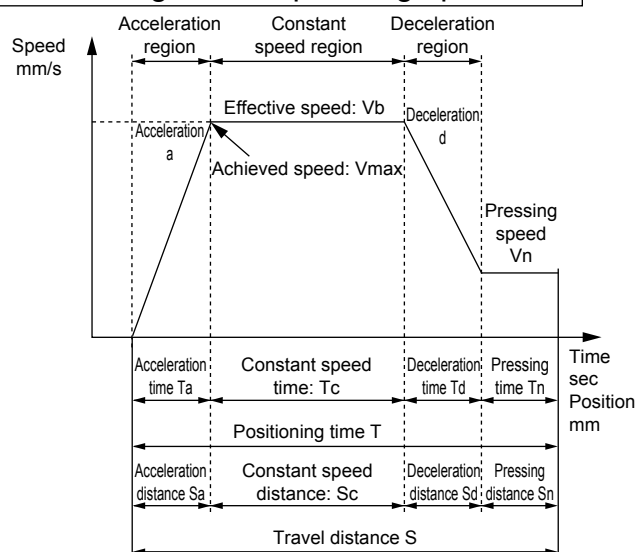
* Depending on acceleration/deceleration and stroke length, the trapezoid speed waveform may not be formed (the set speed may not be achieved). In this case, select the effective speed (V_b) from the set speed (V) and the achieved speed (V_{max}), whichever is smaller.

* Acceleration/deceleration varies depending on the product and the working conditions. Refer to page 28 for details.

* While settling time depends on working conditions, it may take 0.2 seconds or so.

* $1\text{ G} \approx 9.8\text{ m/s}^2$.

Positioning time for pressing operation



	Content	Code	Unit	Remarks
Set value	Set speed	V	mm/s	
	Set acceleration	a	mm/s ²	
	Set deceleration	d	mm/s ²	
	Travel distance	S	mm	
	Pressing speed	V_n	mm/s	
	Pressing distance	S_n	mm	
Calculated value	Achieved speed	V_{max}	mm/s	$= \{2 \times a \times d \times (S - S_n + V_n^2 / 2d) / (a + d)\}^{1/2}$
	Effective speed	V_b	mm/s	The lesser value of V and V_{max}
	Acceleration time	T_a	s	$= V_b / a$
	Deceleration time	T_d	s	$= (V_b - V_n) / d$
	Constant speed time	T_c	s	$= S_c / V_b$
	Pressing time	T_n	s	$= S_n / V_n$
	Acceleration distance	S_a	mm	$= (a \times T_a^2) / 2$
	Deceleration distance	S_d	mm	$= ((V_b + V_n) \times T_d) / 2$
	Constant speed distance	S_c	mm	$= S - (S_a + S_d + S_n)$
	Positioning time	T	s	$= T_a + T_c + T_d + T_n$

* Do not use at speeds that exceed the specifications.

* Pressing speed differs depending on the product.

* Depending on acceleration/deceleration and stroke length, the trapezoid speed waveform may not be formed (the set speed may not be achieved). In this case, select the effective speed (V_b) from the set speed (V) and the achieved speed (V_{max}), whichever is smaller.

* Acceleration/deceleration varies depending on the product and the working conditions. Refer to page 28 for details.

* While settling time depends on working conditions, it may take 0.2 seconds or so.

* $1\text{ G} \approx 9.8\text{ m/s}^2$.

STEP 3 Confirming static allowable load and moment

Calculate the load and moment that are generated when the table is stopped.

Make sure that the resultant moment (M_T) is as follows (the following formula is satisfied) according to the formula below.

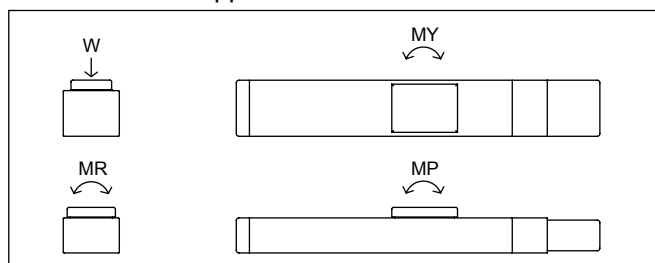
$$M_T = \frac{W}{W_{\max}} + \frac{MP}{MP_{\max}} + \frac{MR}{MR_{\max}} + \frac{MY}{MY_{\max}} < 1$$

Static allowable load and moment

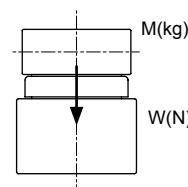
Model No.	Vertical load W max (N)	Pitching moment MP max (N·m)	Yawing moment MY max (N·m)	Rolling moment MR max (N·m)
EBS-04	1030	62	62	92
EBS-05	1168	103	103	144
EBS-08	2781	203	203	336

Calculating static allowable load and moment

How moment is applied

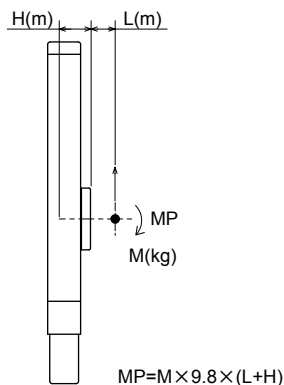


● Vertical load W (N)

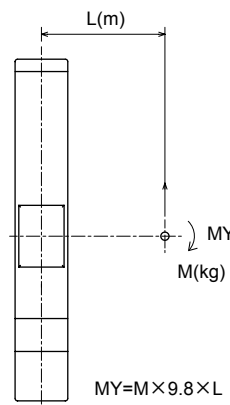


M: Workpiece weight (kg)
 $W = M \times 9.8$

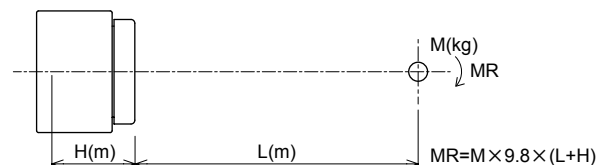
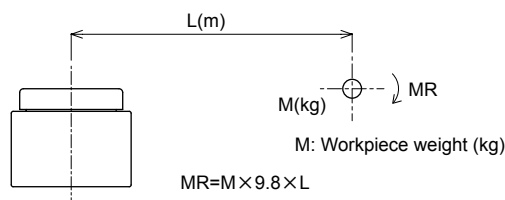
● Pitching moment MP (N·m)



● Yawing moment MY (N·m)



● Rolling moment MR (N·m)



Model No.	H(m)
EBS-04	0.040
EBS-05	0.048
EBS-08	0.052

STEP 4 Checking allowable overhang length

Make sure that the load overhang length during operation is within the allowable range (pages 24 to 26).

EBS
(With motor)

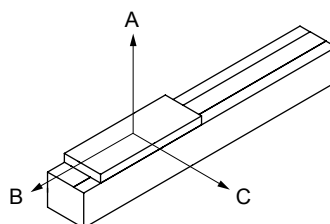
EBR
(With motor)

ECR
(Controller)

Safety
precautions

Allowable overhang length (EBS Series)

[When installed horizontally]



[Allowable overhang length]

●EBS-04M

Motor mounted	Acceleration/ deceleration G	Screw lead	Weight kg	Overhang length mm		
				A	B	C
Straight/ side/ bottom	0.3	6	6	800	135	190
			11	595	70	95
			16	375	40	60
		12	4	800	190	255
			9	490	80	105
			13	320	50	65
	1.0	6	5	800	230	330
			10	590	110	160
			16	350	60	90
		12	3	710	260	320
			5	400	150	180
			8	230	90	105

●EBS-05M

Motor mounted	Acceleration/ deceleration G	Screw lead	Weight kg	Overhang length mm		
				A	B	C
Straight/ side/ bottom	0.3	2	15	1000	105	145
			30	815	45	65
			45	520	25	35
		5	13	820	95	125
			27	350	40	50
			40	210	20	30
		10	12	765	100	130
			23	355	45	60
			35	210	25	35
		20	5	1000	235	285
			11	520	100	120
			16	330	65	75
	0.7	2	15	950	115	160
			30	450	50	70
			45	285	30	45
		5	13	760	120	170
			27	340	50	70
			40	210	30	45
	1.0	10	6	1000	235	310
			11	540	120	160
			16	220	70	85
		20	3	1000	440	555
			7	590	180	225
			10	400	125	150

●EBS-08M

Motor mounted	Acceleration/ deceleration G	Screw lead	Weight kg	Overhang length mm		
				A	B	C
Straight/ side/ bottom	0.3	5	25	1000	185	305
			50	1000	85	140
			80	740	45	75
		10	25	1000	165	260
			45	875	85	135
			70	525	50	75
		20	14	1000	305	490
			29	1000	140	220
			43	920	90	140
	1.0	5	27	1000	195	325
			53	560	90	150
			80	350	55	90
		10	23	1000	230	385
			47	630	105	175
			70	410	65	110
		20	6	1000	665	970
			12	1000	325	465
			18	700	210	300

*Values with actuator operating life restricted to 5,000 km.

*The overhang direction is for a single-direction load.

*Dimensions A, B, and C are measured from the center of the table top.

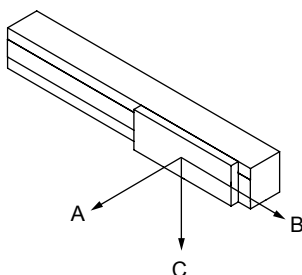
*Values are at maximum speed given stroke of 350 mm and maximum load capacity.

*Values may vary according to motor mounting direction and power supply voltage. Contact CKD for details.

*For acceleration/deceleration and load capacity, refer to the Table of Load Capacity by Speed and Acceleration/Deceleration (page 28).

Allowable overhang length (EBS Series)

[When wall-mounted]



[Allowable overhang length]

●EBS-04M

Motor mounted	Acceleration/ deceleration G	Screw lead	Weight kg	Overhang length mm		
				A	B	C
Straight/ side/ bottom	0.3	6	6	150	105	800
			11	60	40	490
			16	20	15	240
		12	4	220	165	800
			9	70	50	390
			13	30	25	210
	1.0	6	5	290	200	800
			10	120	80	600
			16	50	35	360
		12	3	290	230	680
			5	150	120	370
			8	75	60	200

●EBS-05M

Motor mounted	Acceleration/ deceleration G	Screw lead	Weight kg	Overhang length mm		
				A	B	C
Straight/ side/ bottom	0.3	2	10	175	125	1000
			20	55	40	1000
			30	15	10	560
		5	7	205	150	1000
			13	80	60	685
			20	30	20	335
		10	7	195	145	1000
			13	75	55	575
			20	25	20	265
		20	5	245	200	1000
			11	80	65	400
			16	35	25	200
	0.7	2	10	200	140	1000
			20	70	50	700
			30	25	15	450
		5	7	280	200	1000
			13	120	90	770
			20	50	40	490
	1.0	6	6	270	200	995
			11	115	85	495
			16	60	40	290
		10	3	520	405	1000
			7	185	145	555
			10	110	90	360

●EBS-08M

Motor mounted	Acceleration/ deceleration G	Screw lead	Weight kg	Overhang length mm		
				A	B	C
Straight/ side/ bottom	0.3	5	25	250	155	1000
			50	85	50	1000
			70	40	20	680
		10	25	210	130	1000
			45	85	50	745
			70	25	15	345
		20	15	350	220	1000
			30	140	90	810
			43	90	55	790
	1.0	5	27	270	165	1000
			53	100	60	1000
			80	40	25	370
		10	23	330	200	1000
			47	125	75	660
			70	55	35	430
		20	6	920	630	1000
			12	425	290	1000
			18	260	180	660

*Values with actuator operating life restricted to 5,000 km.

*The overhang direction is for a single-direction load.

*Dimensions A, B, and C are measured from the center of the table top.

*Values are at maximum speed given stroke of 350 mm and maximum load capacity.

*Values may vary according to motor mounting direction and power supply voltage. Contact CKD for details.

*For acceleration/deceleration and load capacity, refer to the Table of Load Capacity by Speed and Acceleration/Deceleration (page 28).

EBS
(With motor)

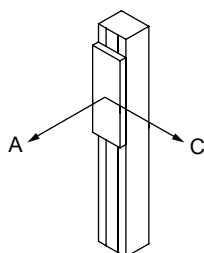
EBR
(With motor)

ECR
(Controller)

Safety
precautions

Allowable overhang length (EBS Series)

[When installed vertically]



[Allowable overhang length]

●EBS-04M

Motor mounted	Acceleration/deceleration G	Screw lead	Weight kg	Overhang length mm	
				A	C
Straight / side / bottom	0.3	6	3	315	315
			5	175	175
			8	90	90
		12	1	755	725
			2	355	340
			3	225	215
	0.5	6	3	315	315
			5	175	170
			8	90	90
		12	1	790	770
			2	375	365
			3	235	235

●EBS-05M

Motor mounted	Acceleration/deceleration G	Screw lead	Weight kg	Overhang length mm	
				A	C
Straight / side / bottom	0.3	2	8	175	175
			16	65	65
			24	25	25
		5	6	265	265
			11	120	120
			16	70	70
		10	3	525	525
			5	295	295
			8	170	170
		20	2	815	810
			3	525	525
			4.5	340	340
	0.5	2	8	185	185
			16	65	65
			24	30	30
		5	6	265	265
			11	120	120
			16	70	70
		10	3	525	525
			5	295	295
			8	170	170
		20	2	815	810
			3	525	525
			4.5	340	340

●EBS-08M

Motor mounted	Acceleration/deceleration G	Screw lead	Weight kg	Overhang length mm	
				A	C
Straight / side / bottom	0.3	5	15	325	325
			25	175	175
			40	90	90
		10	6	690	680
			12	315	315
			18	195	195
		20	3	1000	1000
			7	580	575
			10	390	390
	0.5	5	12	420	420
			23	195	195
			35	110	110
		10	6	900	900
			12	420	420
			18	235	235
		20	3	1000	1000
			5	835	825
			8	500	500

*Values with actuator operating life restricted to 5,000 km.

*The overhang direction is for a single-direction load.

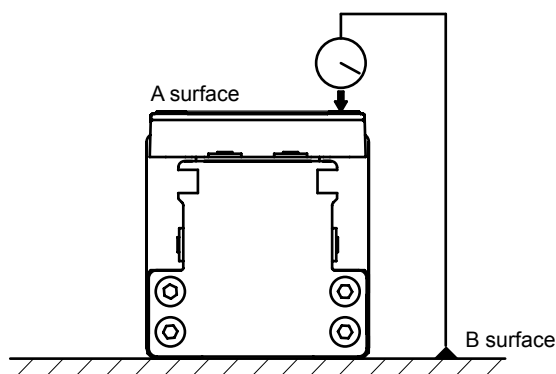
*Dimensions A, B, and C are measured from the center of the table top.

*Values are at maximum speed given stroke of 350 mm and maximum load capacity.

*Values may vary according to motor mounting direction and power supply voltage. Contact CKD for details.

*For acceleration/deceleration and load capacity, refer to the Table of Load Capacity by Speed and Acceleration/Deceleration (page 28).

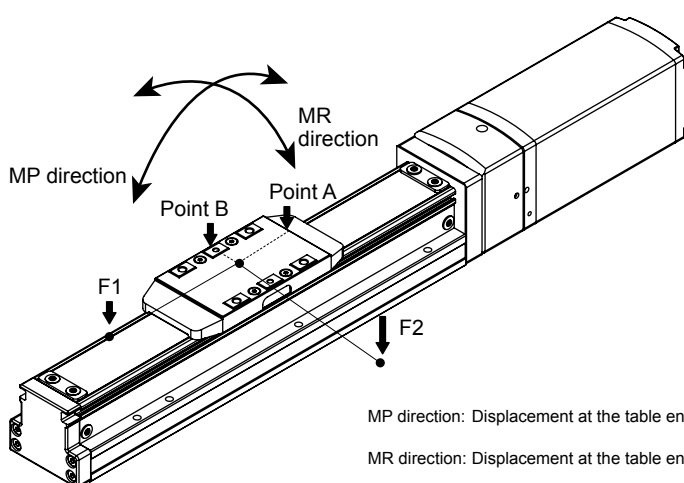
Slider parallelism *Reference value



	(mm)
	Parallelism
	A surface against B surface
EBS-04 Series	0.03
EBS-05 Series	
EBS-08 Series	

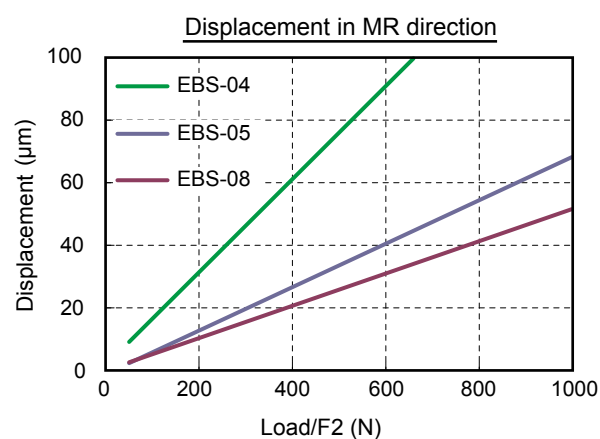
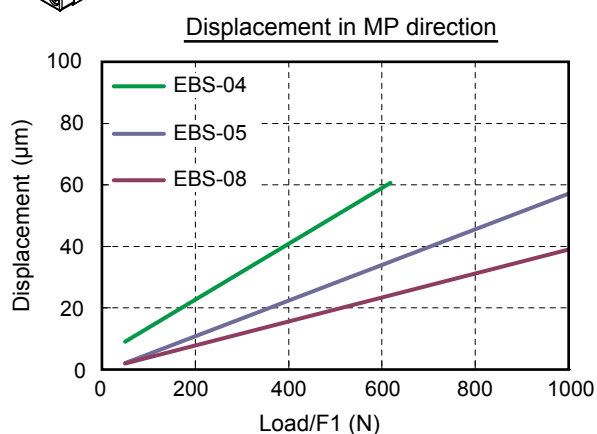
*1 Parallelism with the product fixed to a surface plate.

Table deflection *Reference value

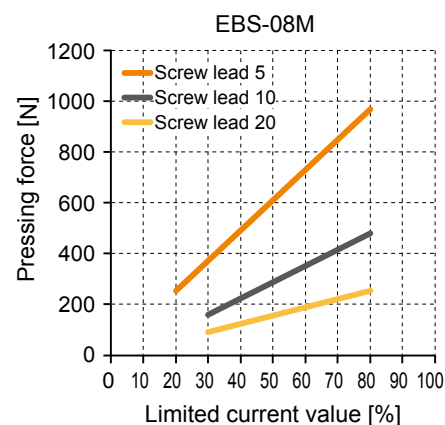
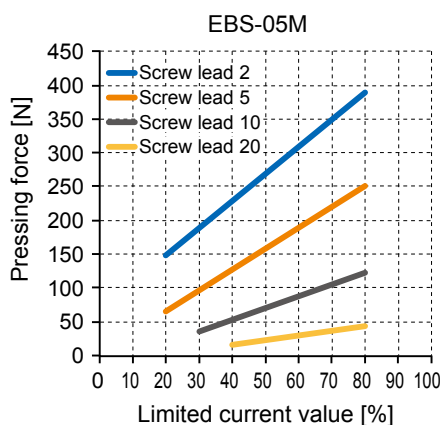
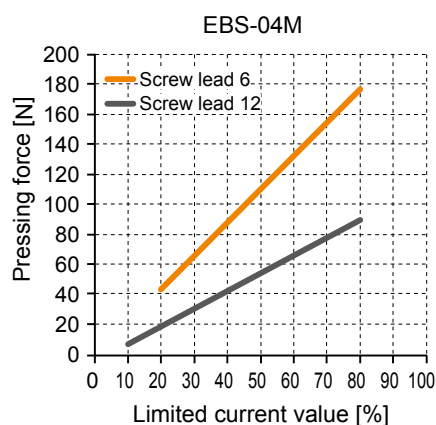


MP direction: Displacement at the table end (Point A) when load (F1) is applied to a position 100 mm from the center of the table

MR direction: Displacement at the table end (Point B) when load (F2) is applied to a position 100 mm from the center of the table



Pressing force



*The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

Table of Load Capacity by Speed and Acceleration/Deceleration

48 VDC

[When installed horizontally]

■EBS-04M

Screw lead 6 (kg)

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	1.0	0.3	1.0
0	16.6	16.6	16.6	16.6
50	16.6	16.6	16.6	16.6
100	16.6	15.0	16.6	16.6
150	16.6	10.0	16.6	13.3
200	16.6	1.6	16.6	8.3
250	16.6	1.6	16.6	1.6
300	13.3		13.3	
350	8.3		8.3	
400	3.3		6.6	

Screw lead 12

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	1.0	0.3	1.0
0	13.3	8.3	13.3	8.3
100	13.3	8.3	13.3	8.3
200	13.3	8.3	13.3	8.3
300	13.3	8.3	13.3	8.3
400	13.3	8.3	13.3	8.3
500	6.6	3.3	6.6	3.3
600	5.0	2.5	5.0	2.5
700	1.6	0.8	1.6	0.8
800	0.8			

■EBS-05M

Screw lead 2

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.7	0.3	0.7
0	45.0	45.0	45.0	45.0
50	45.0	45.0	45.0	45.0
60	45.0	13.3	45.0	13.3
70	45.0	13.3	45.0	13.3
80	45.0		45.0	
100	45.0		45.0	
110	26.6		26.6	
120	18.3		18.3	
130	10.0		10.0	

Screw lead 5

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	1.0	0.3	1.0
0	40.0	40.0	40.0	40.0
50	40.0	40.0	40.0	40.0
100	40.0	40.0	40.0	40.0
150	40.0	35.0	40.0	18.3
200	40.0	18.3	40.0	8.3
250	40.0	10.0	40.0	8.3
300	26.6		23.3	

Screw lead 10

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	1.0	0.3	1.0
0	35.0	16.6	35.0	16.6
200	35.0	16.6	35.0	16.6
250	35.0	10.0	35.0	10.0
300	35.0	8.3	35.0	8.3
400	25.0	8.3	25.0	6.6
500	21.6	5.0	21.6	1.6
600	16.6		8.3	
650	10.0			
700	0.8			

Screw lead 20

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	1.0	0.3	1.0
0	16.6	10.0	16.6	10.0
100	16.6	10.0	16.6	10.0
200	16.6	10.0	16.6	8.3
300	16.6	10.0	16.6	8.3
400	16.6	6.6	16.6	6.6
500	16.6	3.3	16.6	3.3
700	15.0	3.3	15.0	3.3
800	10.0	1.6	10.0	1.6
900	6.6	1.6	6.6	1.6
1000	3.3		3.3	1.6
1100	3.3		3.3	

■EBS-08M

Screw lead 5

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	1.0	0.3	1.0
0	80.0	80.0	80.0	80.0
50	80.0	80.0	80.0	80.0
60	80.0	38.3	80.0	38.3
70	80.0	21.6	80.0	21.6
75	80.0	15.0	80.0	15.0
80	80.0	6.6	80.0	6.6
125	80.0	6.6	80.0	
150	70.0	3.3	46.6	
175	70.0		46.6	
200	18.3		18.3	
225	3.3		3.3	
250	3.3			

Screw lead 10

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	1.0	0.3	1.0
0	70.0	70.0	70.0	70.0
50	70.0	70.0	70.0	70.0
100	70.0	51.6	70.0	70.0
150	70.0	51.6	70.0	43.3
200	70.0	18.3	70.0	18.3
250	68.3	5.0	68.3	4.1
300	41.6		68.3	
350	36.6		48.3	
400	33.3		35.0	
450	25.0		16.6	
500	6.6		5.0	
550	3.3		5.0	

Screw lead 20

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	1.0	0.3	1.0
0	43.3	18.3	43.3	18.3
300	36.6	18.3	36.6	18.3
400	26.6	8.3	26.6	8.3
500	21.6	3.3	21.6	3.3
600	18.3	1.6	20.0	1.6
700	16.6	0.8	20.0	0.8
800	10.0		18.3	
900	6.6		10.0	
1000	3.3		1.6	
1100	3.3			

[When installed vertically]

■EBS-04M

Screw lead 6

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	8.3	8.3	8.3	8.3
100	8.3	8.3	8.3	8.3
150	5.0	6.6	5.0	5.0
200	5.0	5.0	5.0	5.0
250	5.0	3.3	2.5	1.6
300	3.3	1.6	1.6	0.4
350	1.6	0.4	1.6	0.4
400	0.4			

Screw lead 12

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	3.3	3.3	3.3	3.3
100	3.3	3.3	3.3	3.3
200	3.3	3.3	3.3	3.3
300	3.3	3.3	3.3	3.3
400	3.3	2.5	3.3	2.5
500	2.5	1.6	0.8	0.4
600			0.8	0.4

■EBS-05M

Screw lead 2

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	24.0	24.0	24.0	24.0
50	24.0	24.0	24.0	24.0
60	24.0	18.3	24.0	18.3
70	24.0	13.3	11.6	8.3
80	18.3	6.6	1.6	
90	18.3	6.6		
100	18.3	6.6		
110	18.3			
120	6.6			
130	1.6			

Screw lead 5

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	16.6	16.6	16.6	16.6
50	16.6	16.6	16.6	16.6
100	15.0	15.0	15.0	15.0
150	11.6	11.6	11.6	11.6
200	10.0	10.0	10.0	10.0
250	10.0	5.0	10.0	5.0
300	5.0	3.3	3.3	3.3

Screw lead 10

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	8.3	8.3	8.3	8.3
100	8.3	8.3	8.3	8.3
200	6.6	6.6	6.6	6.6
250	5.0	5.0	5.0	5.0
300	5.0	5.0	5.0	5.0
400	5.0	3.3	5.0	3.3
450	5.0	3.3	3.3	3.3
500	5.0		3.3	
600	1.6		0.4	

Screw lead 20

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	4.5	4.5	4.5	4.5
100	4.5	4.5	4.5	4.5
400	3.3	3.3	4.5	4.5
500	3.3	3.3	4.5	4.1
600	3.3	3.3	4.1	3.3
700	3.3	2.9	3.3	2.9
800	2.5	2.0	3.3	2.0
900	2.5	2.0	1.6	2.0
1000	2.5	2.0	1.6	1.6
1100	2.5	2.0	0.8	0.8

■EBS-08M

Screw lead 5

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	40.0	35.0	40.0	35.0
50	40.0	35.0	40.0	35.0
75	30.0	31.6	30.0	31.6
100	25.0	25.0	25.0	25.0
125	23.3	25.0	20.0	18.3
150	23.3	11.6	11.6	6.6
175	18.3	5.0	6.6	0.8
200	11.6		3.3	
225	5.0		0.8	
250	3.3			

Screw lead 10

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	18.3	18.3	18.3	18.3
50	18.3	18.3	18.3	18.3
100	18.3	18.3	13.3	13.3
200	18.3	11.6	13.3	11.6
250	10.0	10.0	10.0	10.0
300	10.0	10.0	8.3	8.3
400	5.0	1.6	5.0	1.6
500	1.6	1.6	0.8	

Screw lead 20

Speed (mm/s)	Straight		Side/Bottom	
	Acceleration/deceleration (G)			
	0.3	0.5	0.3	0.5
0	10.0	8.3	8.3	8.3
200	10.0	8.3	8.3	8.3
300	8.3	6.6	8.3	6.6
400	6.6	5.0	6.6	5.0
500	6.6	5.0	5.8	4.1
600	5.0	3.3	5.0	3.3
700	3.3	3.3	3.3	2.5
800	3.3	1.6	1.6	0.8
900	1.6	1.6	0.8	

Table of Load Capacity by Speed and Acceleration/Deceleration

24 VDC

[When installed horizontally]

■EBS-04M

Screw lead 6 (kg)

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	16.6	16.6
50	16.6	16.6
100	16.6	16.6
150	16.6	16.6
200	6.6	6.6
250		5.0

Screw lead 12

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	11.6	11.6
100	11.6	11.6
200	11.6	11.6
300	10.0	10.0
400	3.3	3.3
500	1.6	1.6
600	1.6	

* At 24 VDC, operation is possible up to 0.7 G when horizontally installed and 0.3 G when vertically installed.
Contact CKD for details.

■EBS-05M

Screw lead 2

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	45.0	45.0
25	45.0	45.0
50	45.0	45.0
60	35.0	35.0
70	2.5	2.5

Screw lead 5

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	40.0	40.0
50	40.0	40.0
100	40.0	40.0
150	40.0	20.0
200	18.3	5.0
250	8.3	5.0

Screw lead 10

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	35.0	35.0
100	35.0	35.0
200	35.0	35.0
300	21.6	18.3
350	15.0	13.3
400	10.0	6.6
450	7.5	3.3
500	5.0	3.3
550	5.0	
600	0.8	

Screw lead 20

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	16.6	16.6
100	16.6	16.6
200	16.6	16.6
300	16.6	16.6
400	16.6	13.3
500	12.5	8.3
600	8.3	6.6
700	4.1	4.1
800	2.5	2.5
900	0.8	0.8

■EBS-08M

Screw lead 5

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	80.0	80.0
25	80.0	80.0
50	80.0	80.0
75	80.0	51.6
100	76.6	3.3
125	43.3	
150	10.0	

Screw lead 10

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	70.0	70.0
50	70.0	70.0
100	70.0	70.0
150	58.3	58.3
200	29.1	29.1
250	11.6	11.6
300	2.5	2.5

Screw lead 20

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	43.3	43.3
100	43.3	43.3
200	31.6	30.0
300	26.6	21.6
400	15.0	10.0
500	6.2	8.3
600	2.5	

[When installed vertically]

■EBS-04M

Screw lead 6

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	6.6	6.6
50	6.6	6.6
100	6.6	6.6
150	5.0	3.3
200	1.6	1.6

Screw lead 12

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	2.5	2.5
100	2.5	2.5
200	2.5	2.5
300	1.6	0.8
400	0.8	0.8

■EBS-05M

Screw lead 2

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	24.0	24.0
10	24.0	24.0
20	24.0	24.0
30	24.0	24.0
40	24.0	24.0
50	16.6	16.6
60	8.3	8.3
70	0.8	0.8

Screw lead 5

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	16.6	16.6
50	16.6	16.6
75	16.6	16.6
100	16.6	16.6
125	11.6	11.6
150	8.3	8.3
175	5.8	5.8
200	4.1	4.1
225	2.5	2.5
250	1.6	

Screw lead 10

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	8.3	8.3
100	8.3	8.3
200	6.6	5.0
300	3.3	2.5
350	3.3	1.6
400	2.5	0.8
450	1.6	
500	0.4	

Screw lead 20

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	4.5	4.5
100	4.5	4.5
200	4.5	4.5
300	4.5	4.1
400	2.5	2.5
500	1.6	0.8
600	1.2	0.8
700	0.8	0.8
800	0.4	0.4

■EBS-08M

Screw lead 5

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	38.3	36.6
25	38.3	36.6
50	36.6	36.6
75	18.3	18.3
100	4.1	4.1
125	4.1	
150	4.1	

Screw lead 10

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	18.3	16.6
50	18.3	16.6
100	18.3	13.3
150	8.3	6.6
200	5.8	5.0
250	2.5	2.5
300	0.8	

Screw lead 20

Speed (mm/s)	Straight	Side/Bottom
	Acceleration/deceleration (G)	Acceleration/deceleration (G)
	0.3	0.3
0	10.0	8.3
100	10.0	8.3
200	10.0	8.3
300	5.8	5.0
400	3.3	2.5
500	1.6	
600	0.8	