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HIGH RIGIDITY BALLSCREW ACTUATORS/SE SERIES

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SG

SG20

SG26

SG33

SG46

SG55

SE

SE15

SE23

SE30

SE45

SC

SC23

SC30

SC45

Sensor

Technical Data

VARIATIONS

Model No.	SE15	SE23	SE30	SE45
Performance grade	H: Repeated positioning accuracy $\pm 3\mu\text{m}$ (Note 1) U: Repeated positioning accuracy $\pm 5\mu\text{m}$ (Note 2) W: Repeated positioning accuracy $\pm 10\mu\text{m}$ (Note 2)			
Screw shaft dia. (mm)	6	8	10	15
Lead (mm)	1	○		
	2	○	○	●
	4		●	○
	5		○	○
	6			○
	8		●	
	10			○
20			○	○



○: In-stock items ●: Manufactured by order
(Note 1) There is no Performance Grade H in SE30 leads 6mm and 20mm.
(Note 2) Performance may be different from the values shown above, depending on applied options and usage.

HOW TO INTERPRET MODEL NO.

SE30	05	A	-	150	U	-	A1	N	N	-	N	N	-	PS
①	②	③		④	⑤		⑥	⑦	⑧		⑨	⑩		⑪

① Model ② Lead

① Model	② Lead	② Sub guide rail
SE15	1, 2	SB
SE23	2, 5	
SE30	4, 5, 6, 10, 20	
SE45	5, 10, 20	

③ Slide block

Model	Slide block
SE15	A: With 1 long block B: With 2 long blocks
SE23	A: With 1 long block B: With 2 long blocks
SE30	E: With 1 long block (LUBSEAL) F: With 2 long blocks (LUBSEAL)
SE45	A: With 1 long block B: With 2 long blocks C: With 1 short block D: With 2 short blocks E: With 1 long block (LUBSEAL) F: With 2 long blocks (LUBSEAL) G: With 1 short block (LUBSEAL) H: With 2 short blocks (LUBSEAL)

④ Guide rail length (Note 1) (Note 2)

Model	Guide rail length (mm)
SE15	100, 150, 200
SE23	150, 200, 250, 300
SE30	150, 200, 300, 400, 500, 600, 700*, 750*
SE45	340, 440, 540, 640, 740, 840, 940

⑤ Performance grade (Note 3)

H	Repeated positioning accuracy $\pm 3\mu\text{m}$
U	Repeated positioning accuracy $\pm 5\mu\text{m}$
W	Repeated positioning accuracy $\pm 10\mu\text{m}$
L	Sub guide rail

⑥ Motor bracket configuration

Model	Motor bracket configuration	Sub guide rail
SE15	A0, A1, A2, A3	NN
SE23	A0, A1, A2, A3, A5, A6, A7	
SE30	A0, A1, A2, A3, A4, A5, A7, B1, RN, E□, F□	
SE45	A0, A1, A2, A3, A4, A5, A6, RN, E□, F□, G□	

⑦ Type of cover

N	Without cover
C	With cover

⑧ Sensor

Model	Sensor
SE15	N: Without sensor K, E: Proximity sensor 1: For sensor rails only
SE23	N: Without sensor S: Photo-microsensor K, E: Proximity sensor 1: For sensor rails only
SE30	N: Without sensor M, Y, C, P: Photo-microsensor K, E: Proximity sensor 1: For sensor rails only
SE45	K, E: Proximity sensor 1: For sensor rails only

⑨ Surface treatment (Note 4)

N	Standard treatment
L	Anti corrosive black coating

⑩ Grease (Note 5)

Model	Grease
SE15	N: Standard grease S: Dust preventive KURODA S grease
SE23	
SE30	
SE45	

⑪ Additional options (Note 6)

Blank	No dowel pin hole
PS	For slide block only
PR	For guide rail only
PSR	For both slide block and guide rail
ML	For reversed guide rail reference surface
MPS	For both reversed guide rail reference surface and slide block
MPR	For both reversed guide rail reference surface and guide rail
MSR	For reversed guide rail reference surface, slide block and guide rail

(Note 1) For specifications of guide rail with long rails or intermediate stroke with non-standard length, consult KURODA.

(Note 2) The SE30 rail lengths marked with "*" are not available in Performance Grade H.

(Note 3) There is no Performance Grade H in SE30 leads 6mm and 20mm.

(Note 4) With standard specifications of surface treatment (Symbol: N), only guide rails are treated with black coating.

(Note 5) With standard grease (Symbol: N), Multemp PS No.2 Grease (KYODO YUSHI CO., LTD.) is contained in slide block and ball screw components.

(Note 6) Dowel pin hole configuration is not available for SE15.

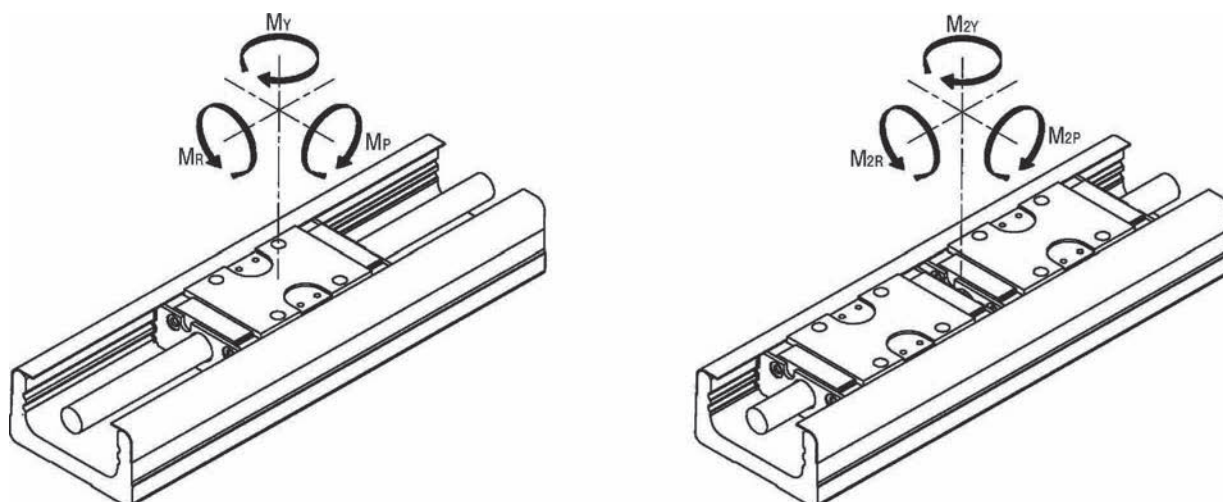
(Note 7) With Lubrication unit LUBSEAL specifications refer to Front matters 14 to 15.

SPECIFICATIONS

Model No.			SE1501	SE1502	SE2302	SE2305	SE3004	SE3005	SE3006	SE3010	SE3020	SE4505	SE4510	SE4520			
Performance grade			W	U	H	W	U	H	W	U	H	W	U	H	W	U	H
Guide	Radial clearance		μm	-3~0			-3~0			-3~0			-5~0				
	Long block	Basic dynamic load rating	C	kN		1.6		4.3		7			27				
		Basic static load rating	Co	kN		2.7		7.0		11.8			45.0				
		Static permissible moment	M _P	N·m	10		46		101			572					
			M _{2P}		60		276		606			3,432					
			M _Y		11		51		120			681					
			M _{2Y}		71		306		720			4,086					
			M _R		28		134		260			1,410					
	M _{2R}	56		268		520			2,820								
	Short block	Basic dynamic load rating	C	kN		Not available			Not available			16.9					
		Basic static load rating	Co	kN		Not available			Not available			28.1					
		Static permissible moment	M _P	N·m	Not available		Not available		Not available			223					
			M _{2P}		Not available		Not available		Not available			1,341					
			M _Y		Not available		Not available		Not available			266					
M _{2Y}			Not available		Not available		Not available			1,598							
M _R			Not available		Not available		Not available			887							
M _{2R}	Not available		Not available		Not available			1,774									
Ball screw	Shaft diameter		mm	6		8		10			15						
	Lead		mm	1	2	2	5	4	5	6	10	20	5	10	20		
	Basic dynamic load rating	Ca	kN	0.39	0.54	1.8	1.9	3.0	3.0	3.0	2.0	2.2	5.1	5.1	3.1		
	Basic static load rating	Coa	kN	0.77	0.76	3.2	3.1	5.3	5.3	5.3	3.2	3.5	10.5	10.5	6.6		
Fixed side bearing	Model No. of bearing			604 or equivalent		AC6-16DF or equivalent		708DFP5 or equivalent			5201A or equivalent						
	Basic dynamic load rating	Cb	kN	0.5		1.79		4.40			5.90						
	Basic static load rating	Cob	kN	0.19		1.76		4.36			3.20						

(Note 1) There is no Performance Grade H in SE30 leads 6mm and 20mm.

DIRECTION OF MOMENT



ACCURACY

Model No.	Guide rail length (mm)	Repeated positioning accuracy (μm)			Positioning accuracy (μm)			Travelling parallelism B (μm)			Backlash (μm)			Starting torque (Note 2) ($\text{N} \cdot \text{m}$)		
		W	U	H	W	U	H	W	U	H	W	U	H	W	U	H
SE15	100	± 10	± 5	± 3	65	60	15	15	20	5	5	0.010	0.012	0.012		
	150				70											
	200				75											
SE23	150	± 10	± 5	± 3	70	60	15	15	20	5	5	0.03	0.06	0.06		
	200				75											
	250				85											
	300				90											
SE30	150	± 10	± 5	± 3 (± 5)	70	60	15	15	20	5	5	0.07	0.15	0.15		
	200				80											
	300				90											
	400				95											
	500			100	100	25	-	-								
	600			110												
	700			120												
	750			130												
SE45	340	± 10	± 5	± 3 (± 5)	95	60	35	35	20	5	5	0.1	0.2	0.2		
	440				100											
	540				110											
	640				120	100	40	40								
	740				130											
	840				150	150	50	50								
	940				170											

(Note 1) Measurement is to be performed with KURODA's specified motor mounted.

(Note 2) Above starting torque value is applied when the standard grease is used. The value may change depending on the properties of the grease.

(Note 3) For repeated positioning accuracy, the value in parentheses is for parallel motor mounted configurations.

INERTIA

Inertia for slide block and ball screw of ballscrew actuator is shown in the following table. (Unit : $\times 10^{-5} \text{kg}\cdot\text{m}^2$)

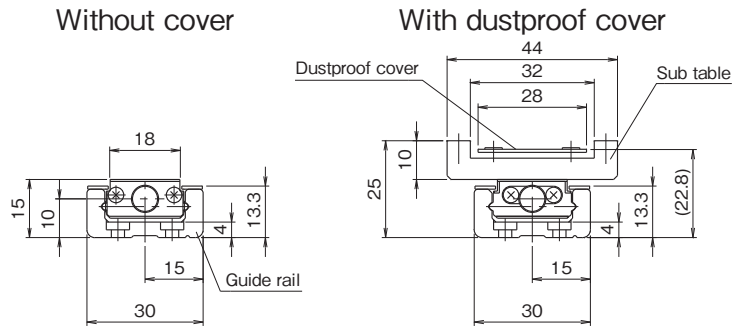
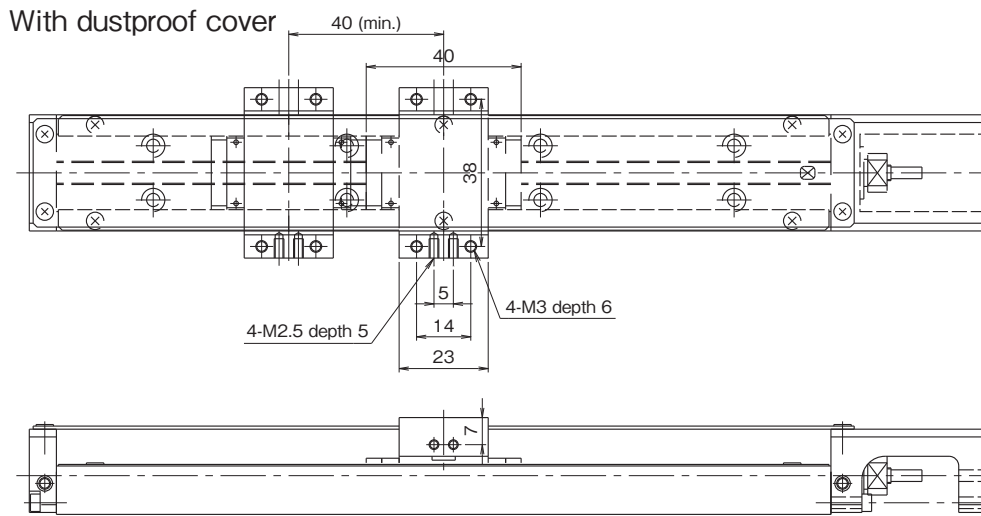
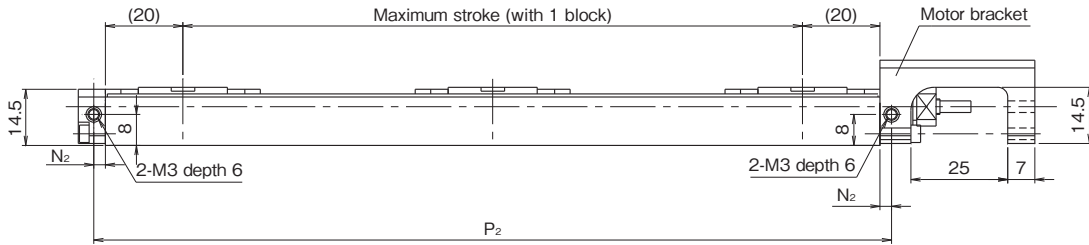
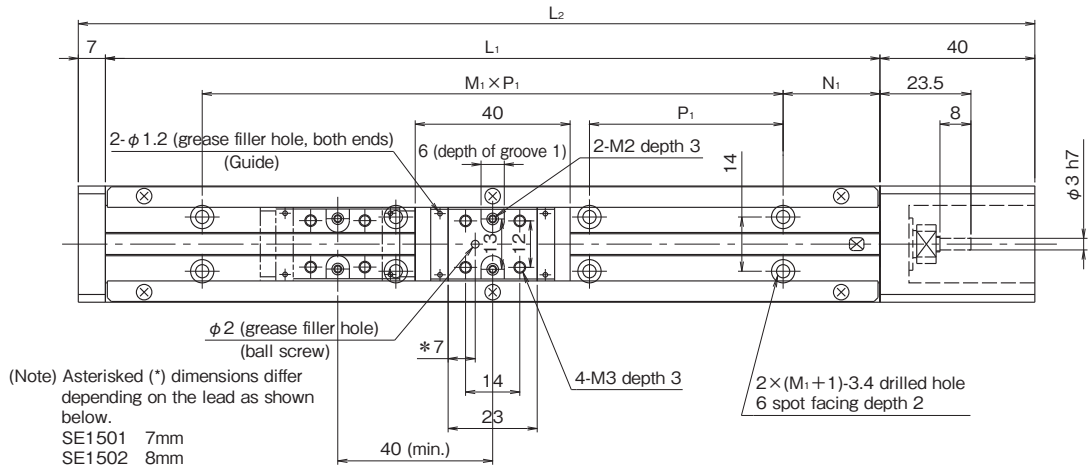
Model No.	Guide rail length (mm)	Without dustproof cover				With dustproof cover			
		Long block		Short block		Long block		Short block	
		1 block	2 blocks	1 block	2 blocks	1 block	2 blocks	1 block	2 blocks
		A	B	C	D	A	B	C	D
SE1501	100	0.0111	—	—	—	0.0120	—	—	—
	150	0.0160	0.0161			0.0161	0.0162		
	200	0.0210	0.0211			0.0211	0.0212		
SE1502	100	0.0115	—	—	—	0.0116	—	—	—
	150	0.0164	0.0167			0.0166	0.0171		
	200	0.0214	0.0217			0.0216	0.0220		
SE2302	150	0.0607	—	—	—	0.0615	—	—	—
	200	0.0764	0.0779			0.0772	0.0787		
	250	0.0921	0.0936			0.0929	0.0944		
	300	0.1080	0.1090			0.1090	0.1100		
SE2305	150	0.0696	—	—	—	0.0741	—	—	—
	200	0.0853	0.0946			0.0898	0.0992		
	250	0.1010	0.1100			0.1060	0.1150		
	300	0.1170	0.1260			0.1210	0.1310		
SE3004	150	0.157	—	—	—	0.162	—	—	—
	200	0.196	—			0.201	—		
	300	0.273	0.284			0.277	0.289		
	400	0.350	0.361			0.354	0.366		
	500	0.426	0.438			0.431	0.442		
	600	0.503	0.514			0.507	0.519		
	700	0.580	0.591			0.584	0.596		
SE3005	150	0.165	—	—	—	0.172	—	—	—
	200	0.203	—			0.210	—		
	300	0.280	0.298			0.287	0.305		
	400	0.356	0.374			0.363	0.381		
	500	0.433	0.451			0.440	0.458		
	600	0.510	0.528			0.517	0.535		
SE3006	150	0.175	—	—	—	0.184	—	—	—
	200	0.213	—			0.223	—		
	300	0.290	0.316			0.299	0.325		
	400	0.367	0.392			0.376	0.402		
	500	0.443	0.469			0.453	0.479		
	600	0.520	0.546			0.529	0.555		
	700	0.597	0.622			0.606	0.632		
SE3010	150	0.222	—	—	—	0.250	—	—	—
	200	0.261	—			0.288	—		
	300	0.337	0.409			0.365	0.437		
	400	0.414	0.486			0.442	0.514		
	500	0.491	0.562			0.518	0.590		
	600	0.567	0.639			0.595	0.667		
	700	0.644	0.716			0.672	0.744		
	750	0.682	0.754			0.710	0.782		
SE3020	150	0.453	—	—	—	0.558	—	—	—
	200	0.491	—			0.597	—		
	300	0.568	0.874			0.673	1.085		
	400	0.645	0.950			0.750	1.161		
	500	0.721	1.027			0.827	1.238		
	600	0.798	1.104			0.903	1.315		
	700	0.875	1.181			0.980	1.391		
SE4505	340	1.63	1.68	1.61	1.64	1.65	1.72	1.62	1.67
	440	2.01	2.10	1.99	2.03	2.03	2.11	2.01	2.06
	540	2.40	2.46	2.38	2.42	2.42	2.50	2.40	2.45
	640	2.79	2.85	2.77	2.81	2.81	2.89	2.78	2.83
	740	3.17	3.24	3.16	3.20	3.20	3.28	3.17	3.22
	840	3.56	3.62	3.55	3.59	3.59	3.67	3.56	3.61
	940	3.95	4.01	3.94	3.97	3.98	4.05	3.95	4.00
SE4510	340	1.81	2.04	1.73	1.88	1.89	2.20	1.78	1.98
	440	2.20	2.42	2.12	2.27	2.28	2.59	2.17	2.37
	540	2.58	2.81	2.51	2.66	2.67	2.98	2.56	2.76
	640	2.97	3.20	2.90	3.05	3.06	3.37	2.95	3.15
	740	3.36	3.59	3.28	3.44	3.44	3.76	3.33	3.54
	840	3.75	3.98	3.67	3.82	3.83	4.14	3.72	3.93
SE4520	940	4.14	4.36	4.06	4.21	4.22	4.53	4.11	4.31
	340	2.54	3.45	2.23	2.84	2.87	4.12	2.43	3.24
	440	2.92	3.84	2.62	3.23	3.26	4.50	2.82	3.63
	540	3.31	4.22	3.01	3.62	3.65	4.89	3.21	4.02
	640	3.70	4.61	3.40	4.00	4.03	5.28	3.60	4.41
	740	4.09	5.00	3.78	4.39	4.42	5.67	3.99	4.80
	840	4.48	5.39	4.17	4.78	4.81	6.06	4.38	5.19
940	4.86	5.78	4.56	5.17	5.20	6.45	4.76	5.57	

(Note 1) Dash (-) in the above table means the configuration is not available.

SE15

● LONG BLOCK CONFIGURATIONS

With 1 long block: A (With 2 long blocks: B)



SE15

● LONG BLOCK DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	P_2	Maximum stroke	
						Long block	
						A: 1 block	B: 2 blocks
100	147	25	1 × 50	3	106	60	—
150	197		2 × 50		156	110	70
200	247		3 × 50		206	160	120

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)		Mass (kg)				Slide block	
	Lead		Without cover		With cover		Without cover	With cover
	1mm	2mm	A	B	A	B		
100	133	260	0.28	—	0.31	—	0.03	0.05
150			0.36	0.39	0.39	0.44		
200	90	180	0.45	0.48	0.48	0.53		

(Note 1) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 2) Hex socket head cap screws (M3×5, with stainless steel) should be used for fixing guide rails.

(Note 3) For long rail configurations, please consult KURODA.

SG

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SE

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SC

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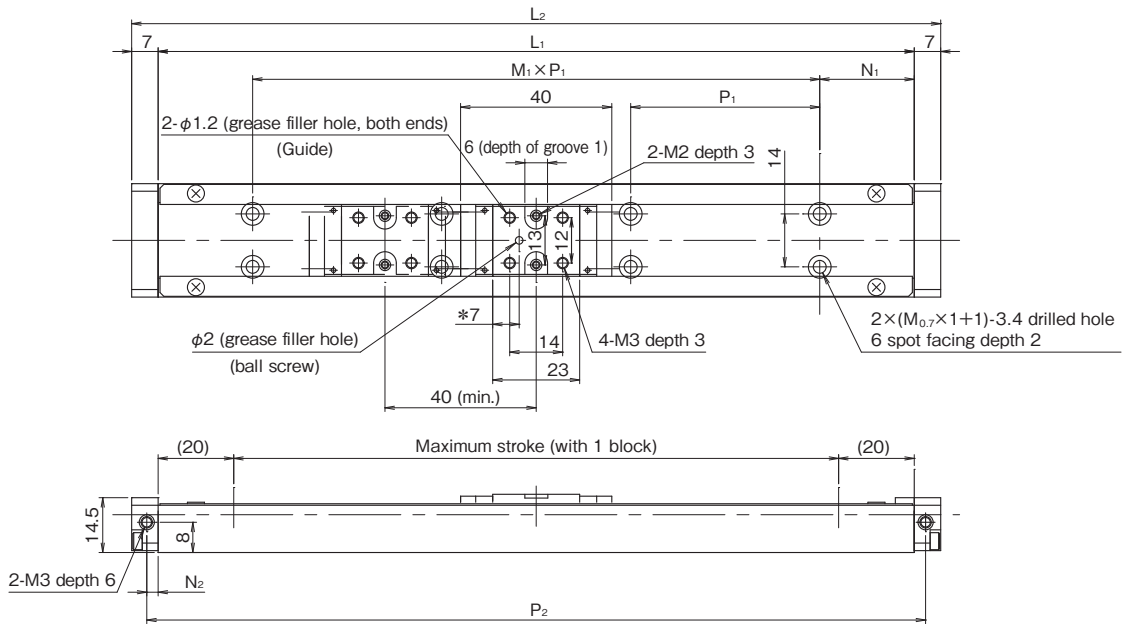
Sensor

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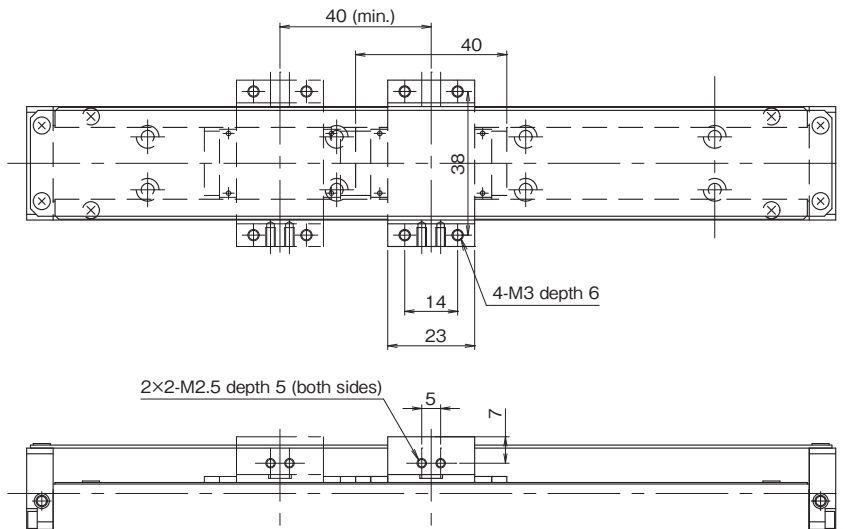
SE15

● LONG BLOCK SUB GUIDE RAIL CONFIGURATIONS

With 1 long block: A (With 2 long blocks: B)

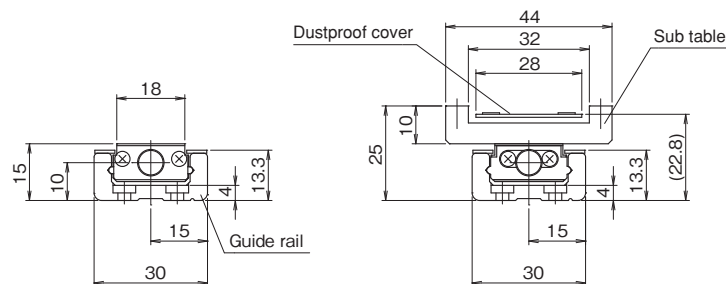


With dustproof cover



Without cover

With dustproof cover



SE15

● LONG BLOCK SUB GUIDE RAIL DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	P_2	Maximum stroke	
						Long block	
						A: 1 block	B: 2 blocks
100	147	25	1 × 50	3	106	60	—
150	197		2 × 50		156	110	70
200	247		3 × 50		206	160	120

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)	Mass (kg)					
		Without cover		With cover		Slide block	
		A	B	A	B	Without cover	With cover
100	260	0.25	—	0.29	—	0.03	0.05
150		0.33	0.36	0.36	0.41		
200		0.4	0.43	0.44	0.49		

(Note 1) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

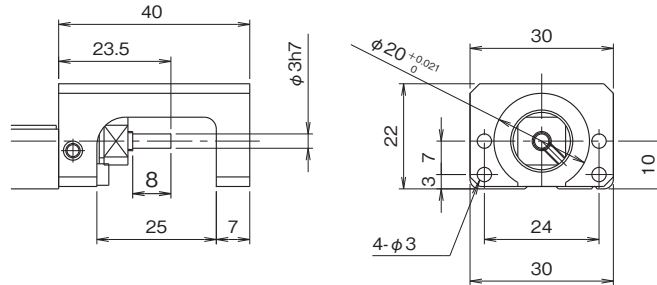
(Note 2) Hex socket head cap screws (M3×5, with stainless steel) should be used for fixing guide rails.

(Note 3) For long rail configurations, please consult KURODA.

SE15

● MOTOR BRACKET CONFIGURATIONS

Motor bracket configuration: A0



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SE
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SE23
SE30
SE45

SC
SC23
SC30
SC45

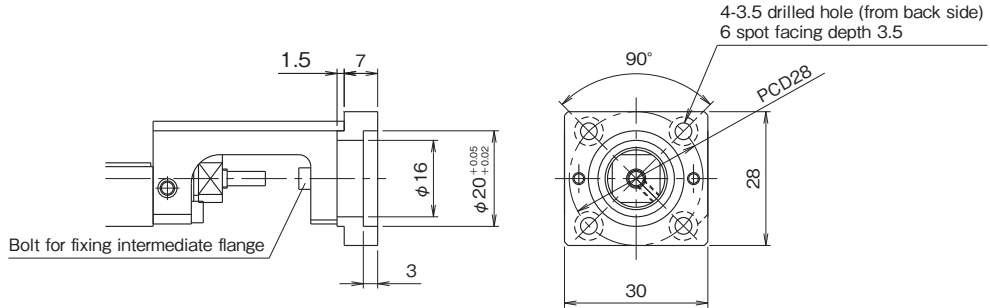
Sensor

Technical Data

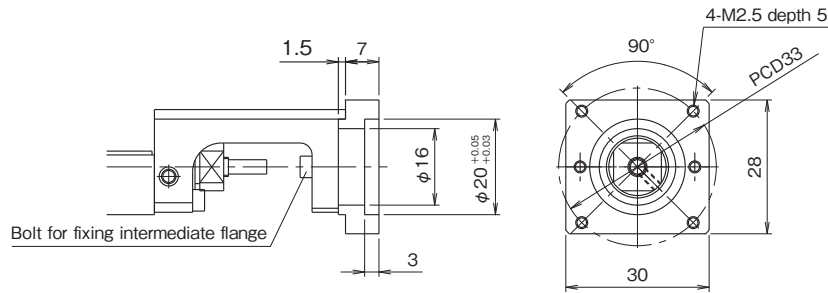
SE15

● MOTOR BRACKET CONFIGURATIONS (INTERMEDIATE FLANGE)

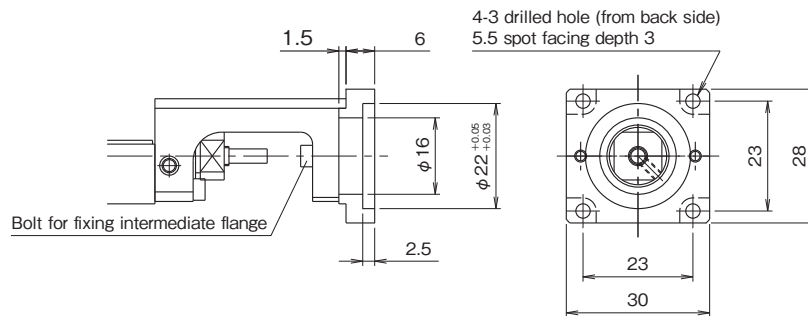
Motor bracket configuration: A1 (mass: 10g)



Motor bracket configuration: A2 (mass: 10g)



Motor bracket configuration: A3 (mass: 10g)



(Note) For A1 and A3 configuration, install the intermediate flange to motor before mounting it to actuator.

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● MOTOR BRACKET CONFIGURATIONS AND MOTOR OPTION

Motor type	Maker	Motor option			Motor bracket configuration	Recommended coupling
		Series	Model No.	Output		
AC SERVO motor	MITSUBISHI ELECTRIC	MELSERVO J4	HG-AK0136	10W	A1	ALS-014 (MIKI PULLEY)
			HG-AK0236	20W		
			HG-AK0336	30W		
	YASKAWA ELECTRIC	Σ-V	SGMMV-A1	10W	A1	
			SGMMV-A2	20W		
			SGMMV-A3	30W		
		Σ-7	SGM7M-A1	10W	A1	
			SGM7M-A2	20W		
			SGM7M-A3	30W		
Stepping motor	ORIENTAL MOTOR	α step	ARM2	□28mm	A3	
		5-Phase	CRK52			
		2-Phase	PKP22			

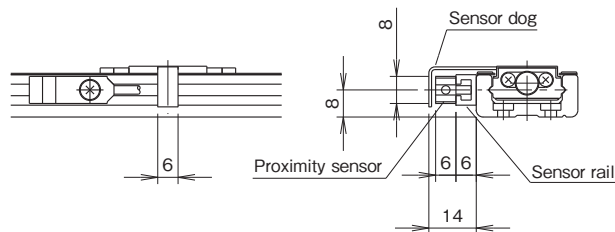
- For motors other than above-mentioned, consult KURODA.
- When selecting a rigid type of coupling for connecting a motor, consult KURODA.
- For detailed specifications of above-mentioned motors and couplings, refer to catalogs or websites provided by the makers.

SE15

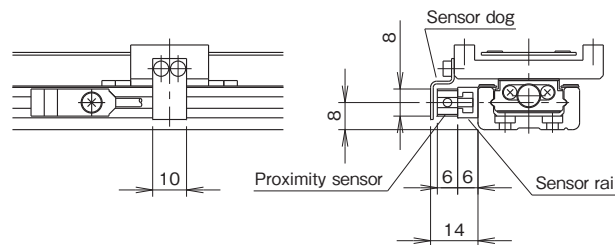
● SENSOR

Symbol K (NPN) / E (PNP): Proximity sensor (Azbil)

Without cover



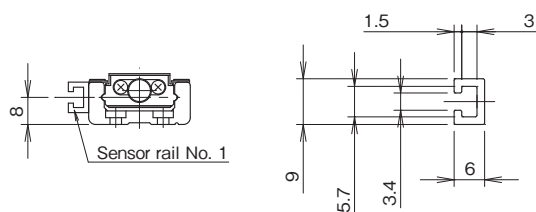
With dustproof cover



● SENSOR RAIL

Sensor rails only available with no sensors.

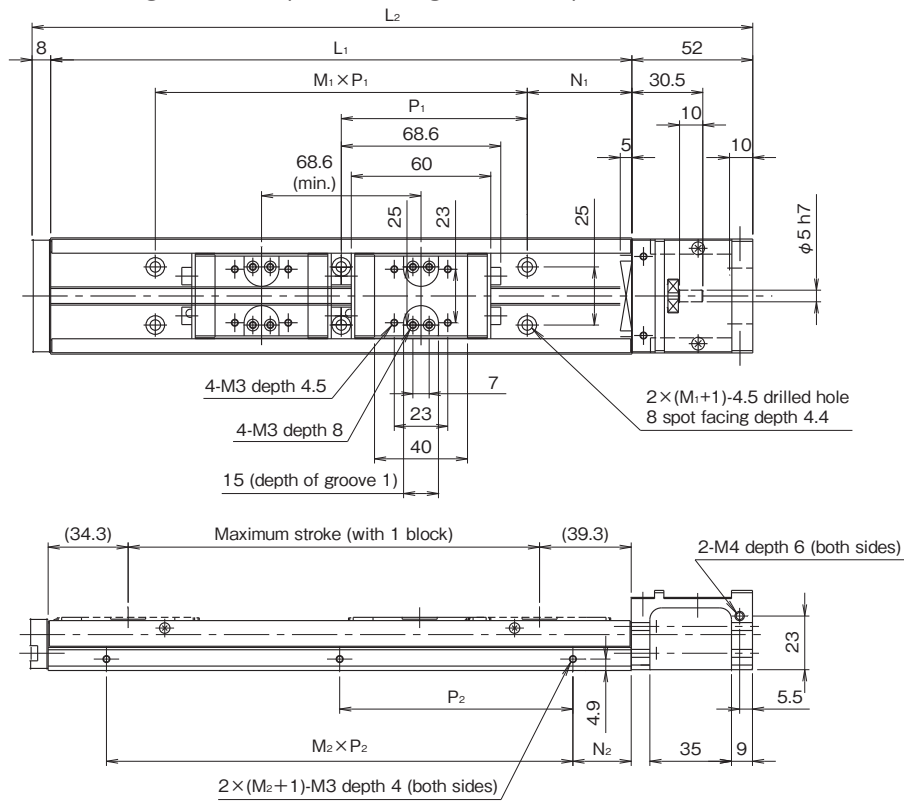
Sensor rail No. 1



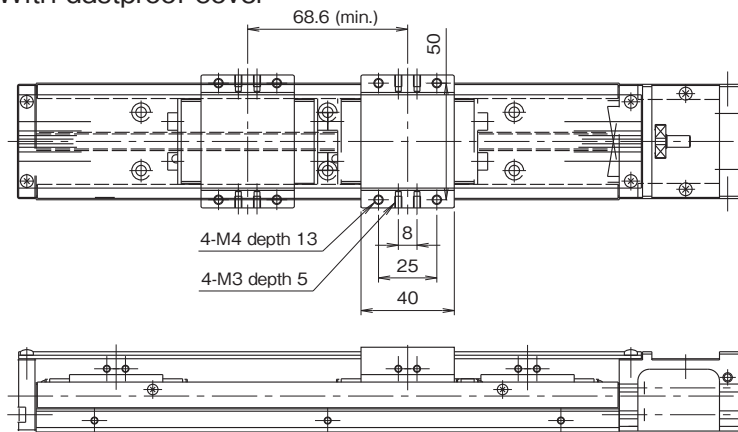
SE23

● LONG BLOCK CONFIGURATIONS

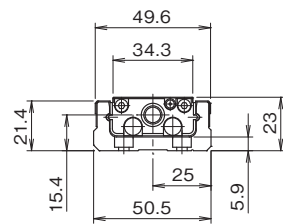
With 1 long block: A (With 2 long blocks: B)



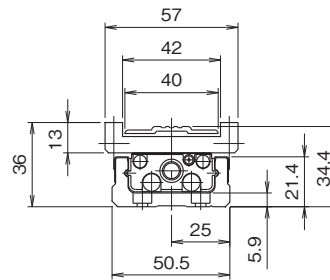
With dustproof cover



Without cover



With dustproof cover



SE23

● LONG BLOCK DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	$M_2 \times P_2$	Maximum stroke		Maximum stroke		Minimum stroke (with LUBSEAL)
						Long block		Long block (with LUBSEAL)		
						A: 1 block	B: 2 blocks	E: 1 block	F: 2 blocks	
150	210	35	1 × 80	25	1 × 100	76	—	—	—	75
200	260	20	2 × 80	50		126	57	120	—	
250	310	45		25	2 × 100	176	107	170	95	
300	360	30	3 × 80	50		226	157	220	145	

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)		Mass (kg)					
	Lead		Without cover		With cover		Slide block	
	2mm	5mm	A	B	A	B	Without cover	With cover
150	200	490	1.00	—	1.11	—	0.14	0.26
200			1.21	1.35	1.32	1.46		
250			1.41	1.56	1.52	1.67		
300			1.61	1.76	1.73	1.88		

(Note 1) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 2) For long rail configurations, please consult KURODA.

SG

SG20

SG26

SG33

SG46

SG55

SE

SE15

SE23

SE30

SE45

SC

SC23

SC30

SC45

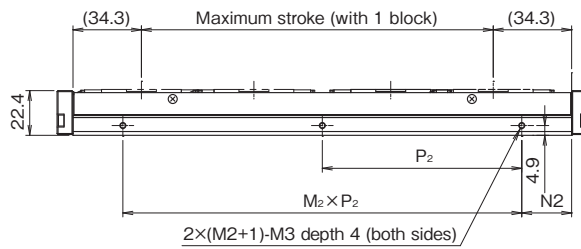
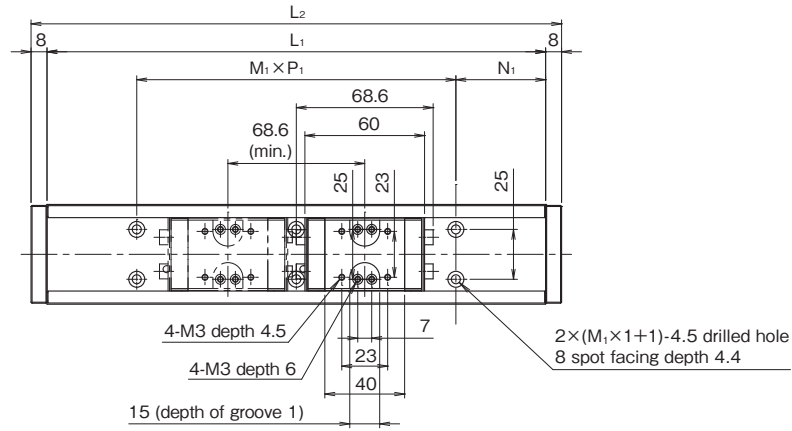
Sensor

Technical Data

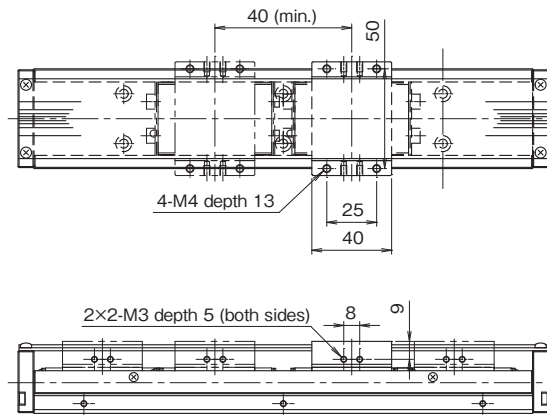
SE23

● LONG BLOCK SUB GUIDE RAIL CONFIGURATIONS

With 1 long block: A (With 2 long blocks: B)

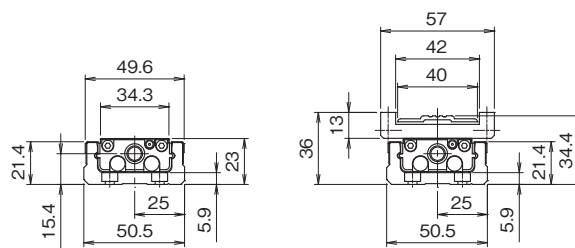


With dustproof cover



Without cover

With dustproof cover



SE23

● LONG BLOCK SUB GUIDE RAIL DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	$M_2 \times P_2$	Maximum stroke		Maximum stroke		Minimum stroke (with LUBSEAL)
						Long block		Long block (with LUBSEAL)		
						A: 1 block	B: 2 blocks	E: 1 block	F: 2 blocks	
150	210	35	1 × 80	25	1 × 100	81	—	75	—	75
200	260	20	2 × 80	50		131	62	125	—	
250	310	45		3 × 80	25	2 × 100	181	112	175	
300	360	30	50		231		162	225	150	

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)	Mass (kg)					
		Without cover		With cover		Slide block	
		A	B	A	B	Without cover	With cover
150	490	0.95	—	1.03	—	0.14	0.26
200		1.13	1.29	1.23	1.43		
250		1.32	1.47	1.42	1.63		
300		1.50	1.66	1.62	1.82		

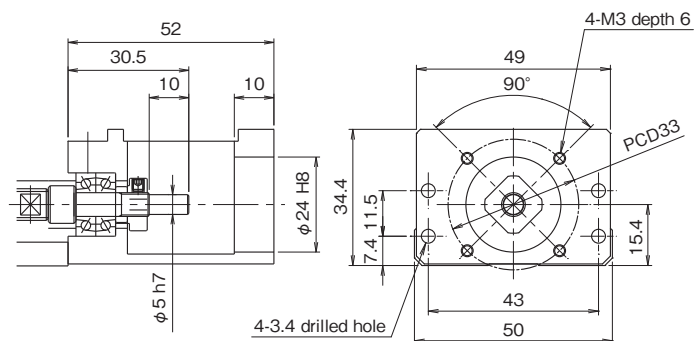
(Note 1) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 2) For long rail configurations, please consult KURODA.

SE23

● MOTOR BRACKET CONFIGURATIONS

Motor bracket configuration: A0



SG

SG20

SG26

SG33

SG46

SG55

SE

SE15

SE23

SE30

SE45

SC

SC23

SC30

SC45

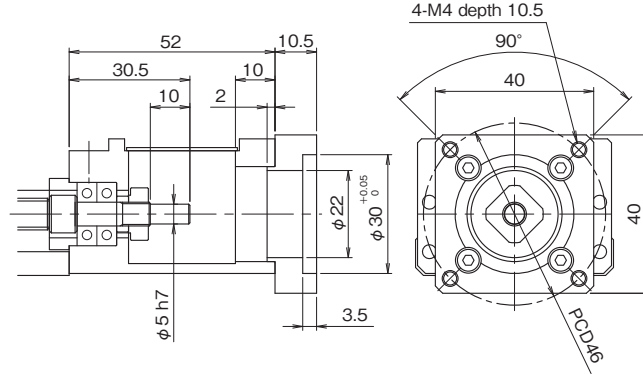
Sensor

Technical Data

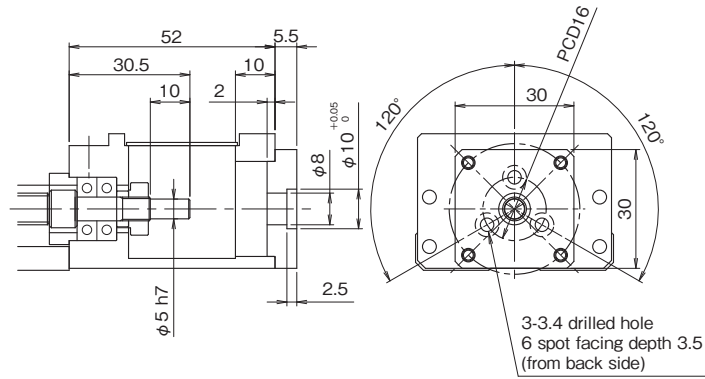
SE23

● MOTOR BRACKET CONFIGURATIONS (INTERMEDIATE FLANGE)

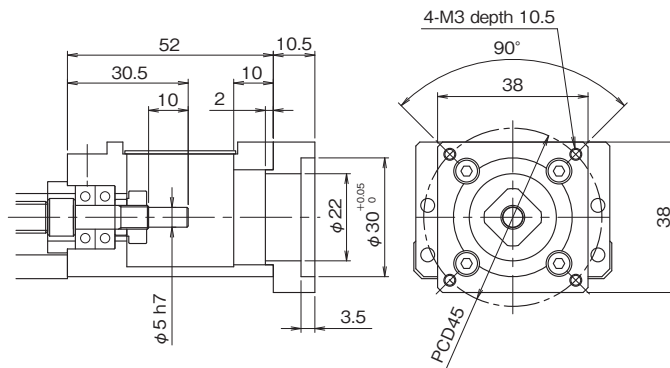
Motor bracket configuration: A1 (mass: 28g)



Motor bracket configuration: A2 (mass: 12g)



Motor bracket configuration: A3 (mass: 24g)

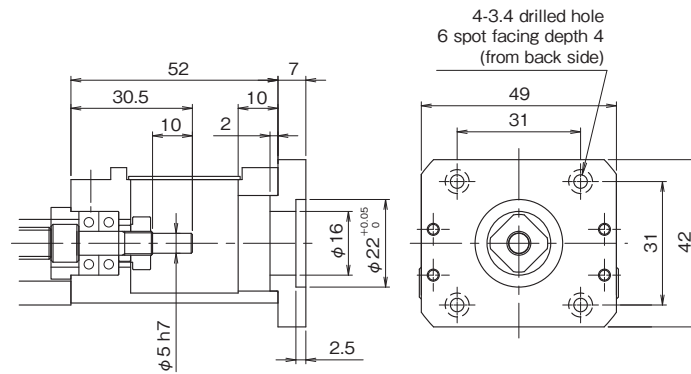


(Note) For A2 configuration, install the intermediate flange to motor before mounting it to actuator.

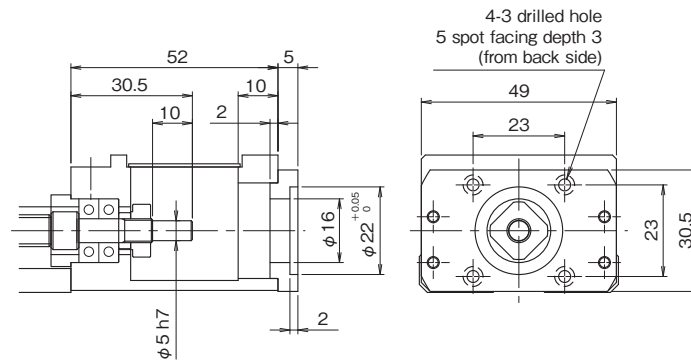
SE23

● MOTOR BRACKET CONFIGURATIONS (INTERMEDIATE FLANGE)

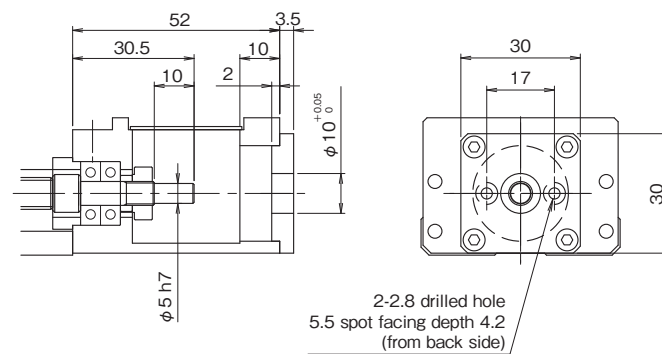
Motor bracket configuration: A5 (mass: 32g)



Motor bracket configuration: A6 (mass: 16g)



Motor bracket configuration: A7 (mass: 8g)



(Note) For A5, A6, and A7 configuration, install the intermediate flange to motor before mounting it to actuator.

SE23

● MOTOR BRACKET CONFIGURATIONS AND MOTOR OPTION

Motor type	Maker	Motor option			Motor bracket configuration	Recommended coupling
		Series	Model No.	Output		
AC SERVO motor	PANASONIC	MINAS A5	MSME5A	50W	A3	SFC-010DA2 (MIKI PULLEY) ACD-19A (ISEL)
			MSME01	100W		
		MINAS A6	MSMF5A	50W		
			MSMF01	100W		
	MITSUBISHI ELECTRIC	MELSERVO J3	HF-KP (MP) 053	50W	A1	
			HF-KP (MP) 13	100W		
		MELSERVO J4	HG-KR (MR) 053	50W		
			HG-KR (MR) 13	100W		
	YASKAWA ELECTRIC	Σ-V	SGMJV, SGMVA-A5	50W	A1	
			SGMJV, SGMVA-01	100W		
			SGMJV, SGMVA-C2	150W		
		Σ-7	SGM7J, SGM7A-A5	50W		
			SGM7J, SGM7A-01	100W		
			SGM7J, SGM7A-C2	150W		
SANYO ELECTRIC	SANMOTION R	R2AA04005	50W	A1		
		R2AA04010	100W			
Stepping motor	ORIENTAL MOTOR	α step	ARM2	□28mm	A6	
			ARM4	□42mm	A5	
		5-Phase	CRK52	□28mm	A6	
			CRK54	□42mm	A5	
			RKS54	□42mm		
		2-Phase	PKP22	□28mm	A6	
			PKP24	□42mm	A5	
		SANYO ELECTRIC	5-Phase	F series □42mm	□42mm	A5

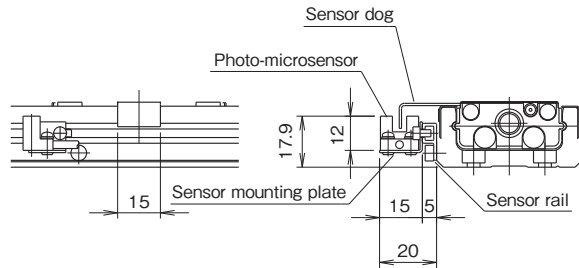
- For motors other than above-mentioned, consult KURODA.
- When selecting a rigid type of coupling for connecting a motor, consult KURODA.
- For detailed specifications of above-mentioned motors and couplings, refer to catalogs or websites provided by the makers.

SE23

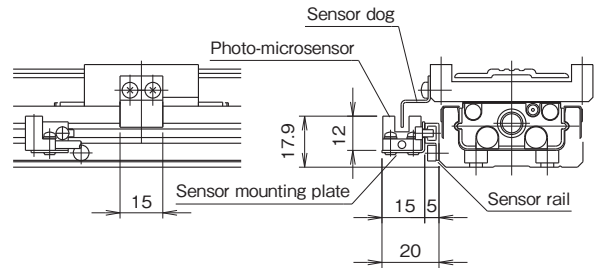
● SENSOR

Symbol S (NPN): Photo-microsensor (Panasonic Industrial Devices SUNX)

Without cover

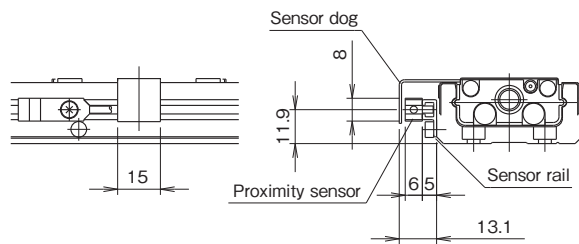


With dustproof cover

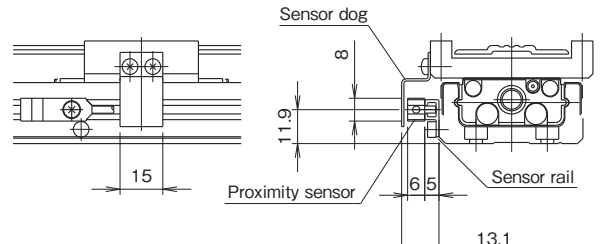


Symbol K (NPN) / E (PNP): Proximity sensor (Azbil)

Without cover



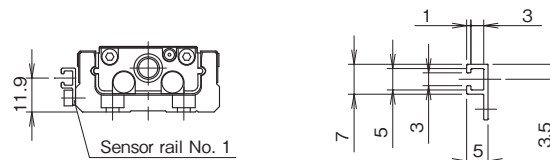
With dustproof cover



● SENSOR RAIL

Sensor rails only available with no sensors.

Sensor rail No. 1

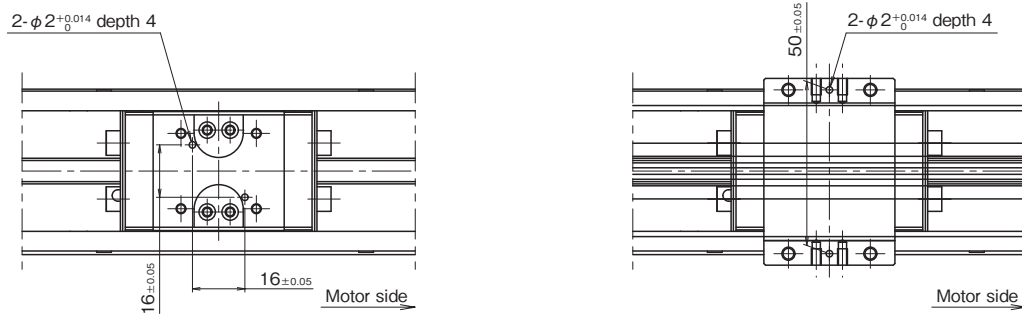


SE23

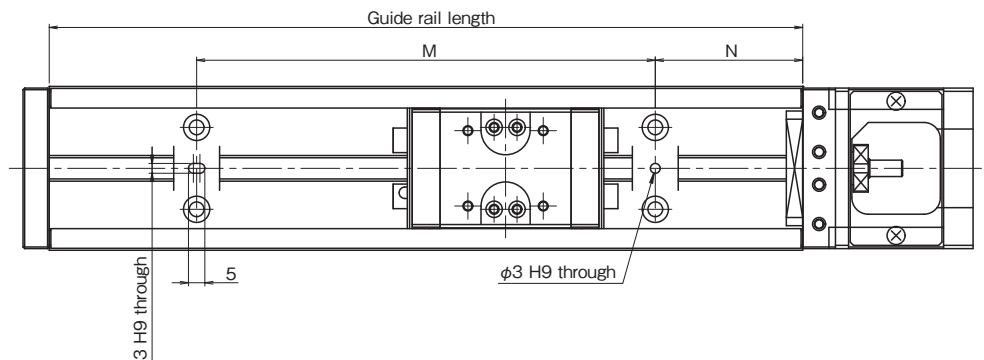
● DOWEL PIN HOLE

Dowel pin holes are applicable on the slide blocks with part number "PS", sub-tables "PR" or slide blocks and sub-tables "PSR". For an acuator with 2 blocks, they are on both driving-side block and driven-side block. Please note that dowel pins are not equipped.

Long block without dustproof cover with "PS" Long block with dustproof cover with "PS"



Guide rail with "PR"



(Unit: mm)

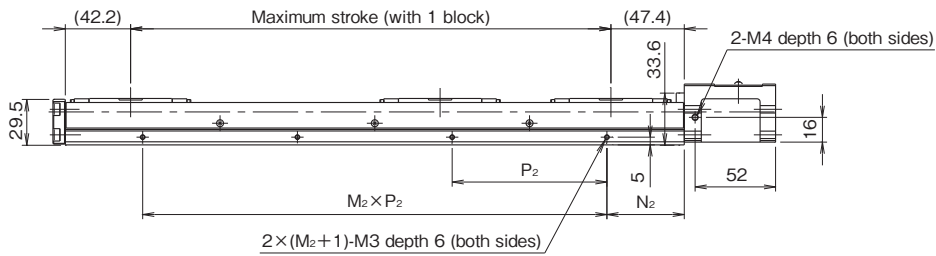
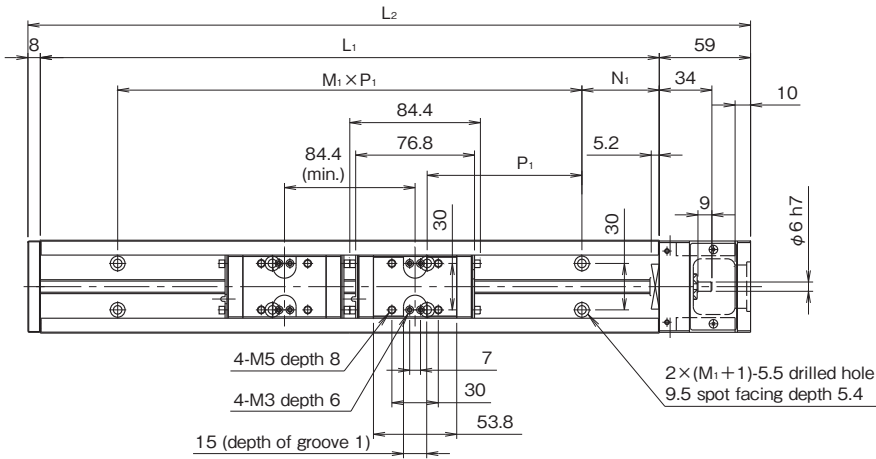
Guide rail length	N	M	Dowel pin height
150	35	80	Less than 5.9
200	20	160	
250	45		
300	30	240	

Notice: In case dowel pin is stuck out from the U-guide rail, it may interfere with and break the slide block.

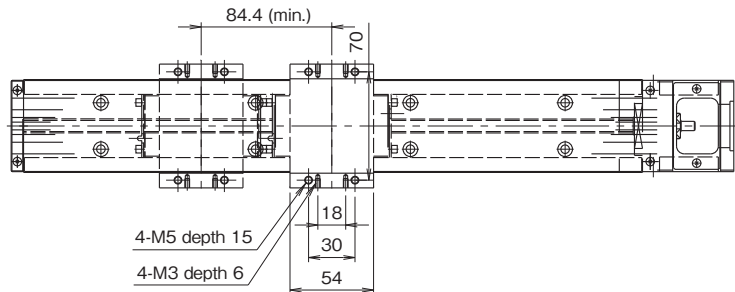
SE30

● LONG BLOCK CONFIGURATIONS

With 1 long block: A (With 2 long blocks: B)

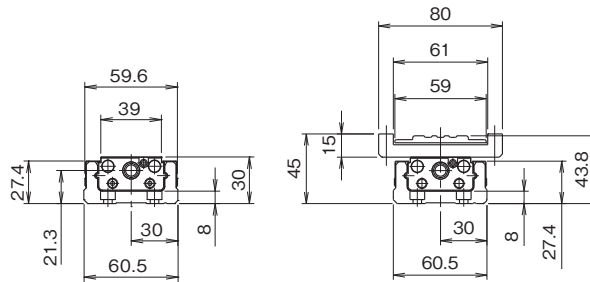


With dustproof cover



Without cover

With dustproof cover



SE30

● LONG BLOCK DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	$M_2 \times P_2$	Maximum stroke		Maximum stroke		Minimum stroke (with LUBSEAL)
						Long block		Long block (with LUBSEAL)		
						A: 1 block	B: 2 blocks	E: 1 block	F: 2 blocks	
150	217	25	1×100	25	1×100	60	—	—	—	91
200	267	50		50	2×100	210	126	204	114	
300	367		3×100		310	226	304	214		
400	467		4×100		410	326	404	314		
500	567		5×100		510	426	504	414		
600	667		6×100		610	526	604	514		
700	767	25	7×100	25	7×100	660	576	654	564	
750	817			25	7×100	660	576	654	564	

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)					Mass (kg)				Slide block	
	リード					Without cover		With cover		Without cover	With cover
	4mm	5mm	6mm	10mm	20mm	A	B	A	B		
150	320	400	480	810	1200	1.6	—	1.7	—	0.30	0.40
200						1.9	—	2.1	—		
300						2.6	2.9	2.7	3.2		
400						3.3	3.6	3.4	3.8		
500						3.9	4.2	4.1	4.5		
600	240	300	360	600		4.6	4.9	4.7	5.1		
700	170	210	250	430	910	5.2	5.5	5.4	5.8		
750	—	—	—	380	—	5.6	5.9	5.7	6.1		

(Note 1) Guide rail length of 750 mm is available only for SE3010.

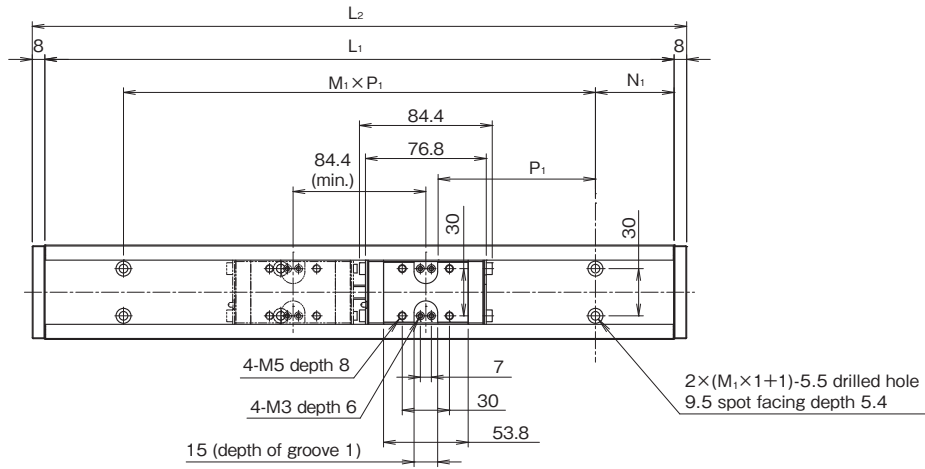
(Note 2) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 3) For long rail configurations, please consult KURODA.

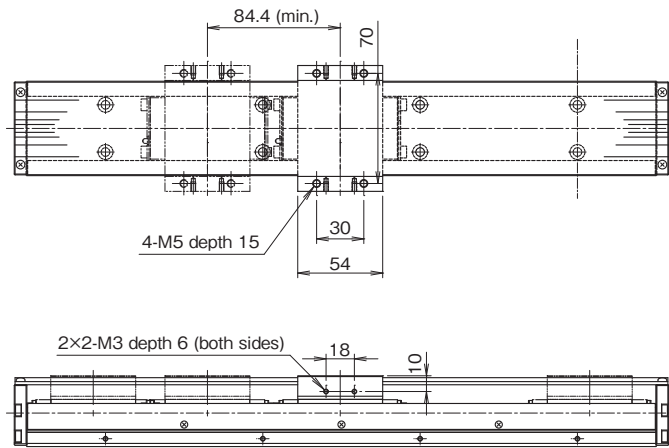
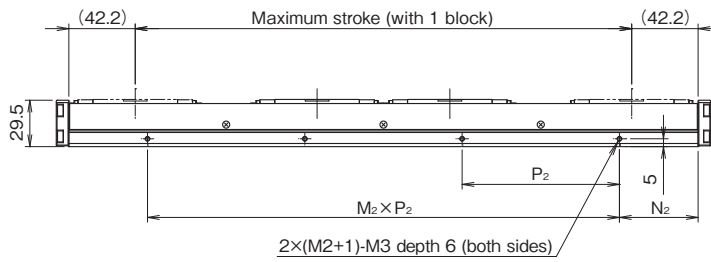
SE30

● LONG BLOCK SUB GUIDE RAIL CONFIGURATIONS

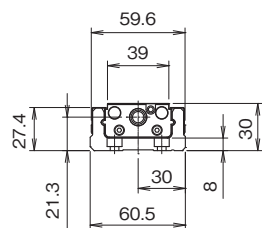
With 1 long block: A (With 2 long blocks: B)



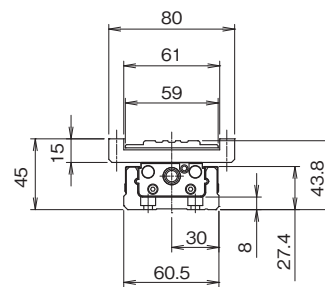
With dustproof cover



Without cover



With dustproof cover



SE30

● LONG BLOCK SUB GUIDE RAIL DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	$M_2 \times P_2$	Maximum stroke		Maximum stroke		Minimum stroke (with LUBSEAL)
						Long block		Long block (with LUBSEAL)		
						A: 1 block	B: 2 blocks	E: 1 block	F: 2 blocks	
150	217	25	1 × 100	25	1 × 100	65	—	—	—	91
200	267	50		50	2 × 100	115	—	109	—	
300	367		3 × 100		215	131	209	119		
400	467		4 × 100		315	231	309	219		
500	567		5 × 100		415	331	409	319		
600	667		6 × 100		515	431	509	419		
700	767	25	7 × 100	25	7 × 100	615	531	609	519	
750	817			750	750	665	581	659	569	

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)	Mass (kg)					
		Without cover		With cover		Slide block	
		A	B	A	B	Without cover	With cover
150	1200	1.46	—	1.65	—	0.30	0.40
200		1.74	—	1.96	—		
300		2.30	2.59	2.58	2.97		
400		2.87	3.15	3.19	3.58		
500		3.43	3.72	3.81	4.20		
600		4.00	4.28	4.42	4.81		
700		4.56	4.85	5.04	5.43		
750		4.85	5.13	5.35	5.73		

(Note 1) Guide rail length of 750 mm is available only for SE3010.

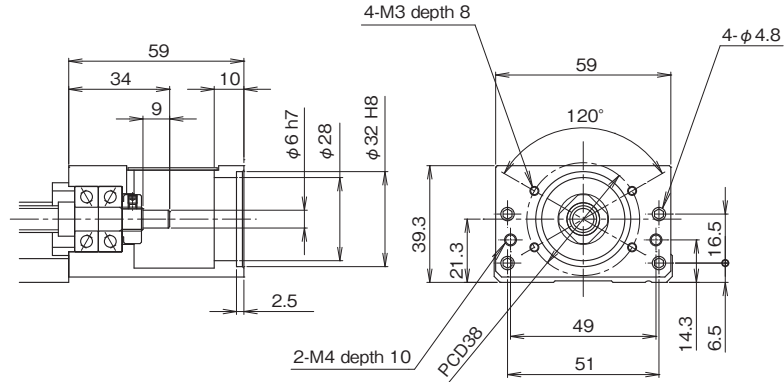
(Note 2) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 3) For long rail configurations, please consult KURODA.

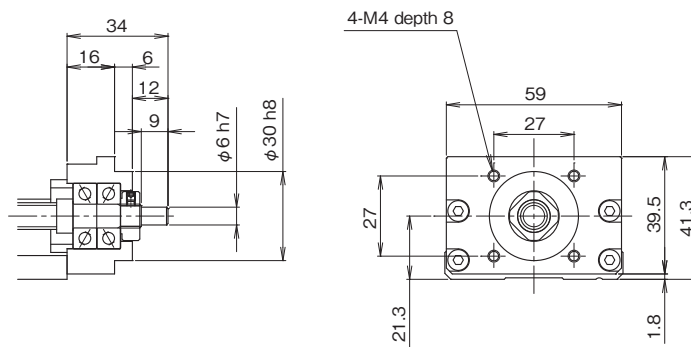
SE30

● MOTOR BRACKET CONFIGURATIONS

Motor bracket configuration: A0



Motor bracket configuration: RN

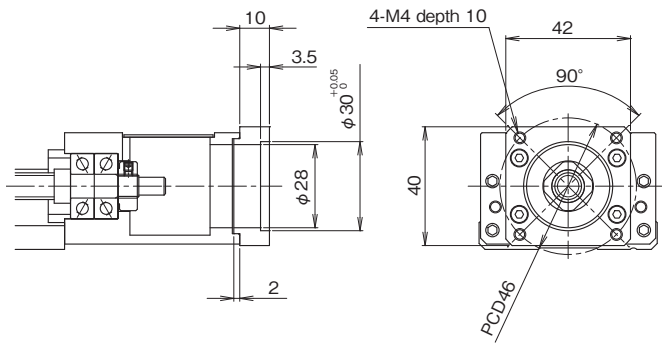


Mass of the RN configuration is 0.085 kg less than the value shown in the table on page 75.

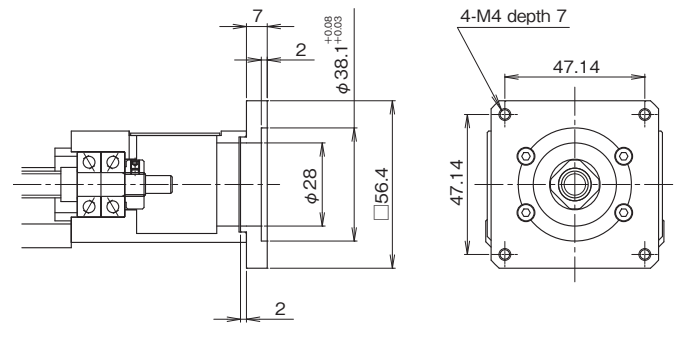
SE30

● MOTOR BRACKET CONFIGURATIONS (INTERMEDIATE FLANGE)

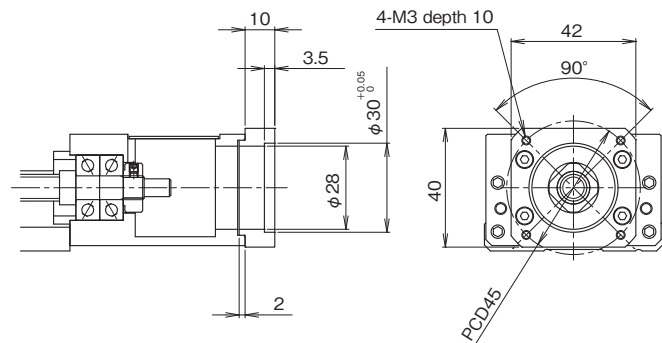
Motor bracket configuration: A1 (mass: 25g)



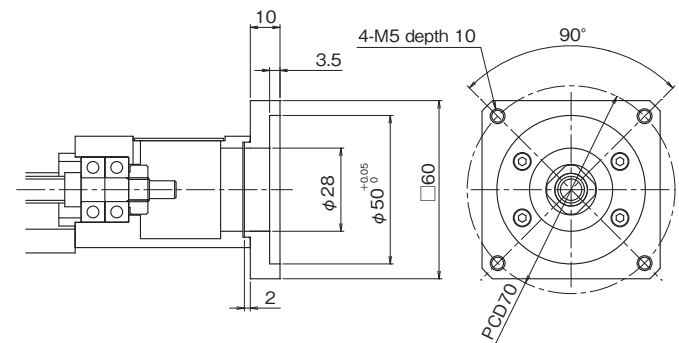
Motor bracket configuration: A5 (mass: 46g)



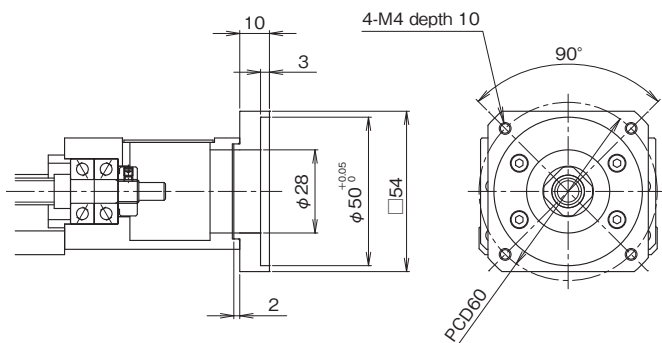
Motor bracket configuration: A2 (mass: 25g)



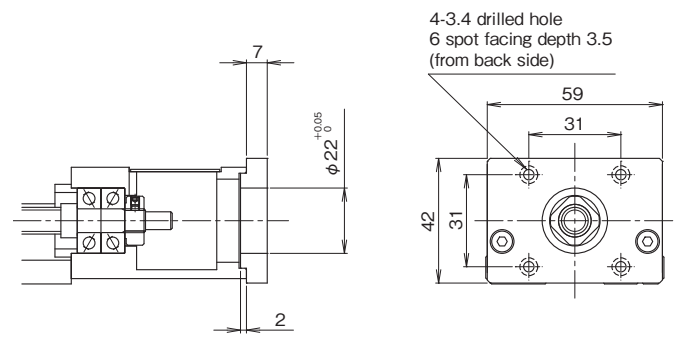
Motor bracket configuration: A7 (mass: 64g)



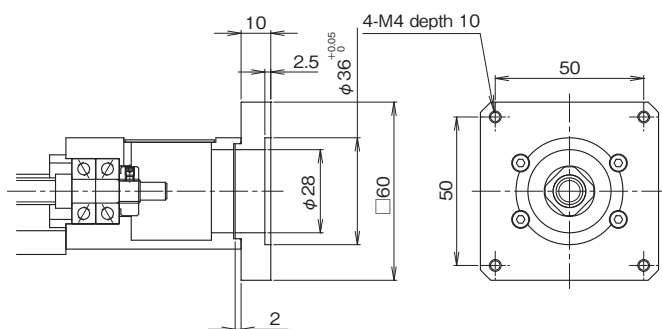
Motor bracket configuration: A3 (mass: 55g)



Motor bracket configuration: B1 (mass: 37g)



Motor bracket configuration: A4 (mass: 71g)



(Note) For B1 configuration, install the intermediate flange to motor before mounting it to actuator.

● MOTOR BRACKET CONFIGURATIONS AND MOTOR OPTION

Motor type	Maker	Motor option			Motor bracket configuration	Recommended coupling
		Series	Model No.	Output		
AC SERVO motor	PANASONIC	MINAS A5	MSME5A	50W	A2	SFC-020DA2(MIKI PULLEY) ACD-27A (ISEL)
			MSME01	100W		
		MINAS A6	MSMF5A	50W		
			MSMF01	100W		
	MITSUBISHI ELECTRIC	MELSERVO J3	HF-KP (MP) 053	50W	A1	SFC-020DA2(MIKI PULLEY) ACD-27A (ISEL)
			HF-KP (MP) 13	100W	A7	XBW-27C2(NABEYA BI-TECH)
			HF-KP (MP) 23	200W		
		MELSERVO J4	HG-KR (MR) 053	50W	A1	SFC-020DA2(MIKI PULLEY) ACD-27A (ISEL)
			HG-KR (MR) 13	100W	A7	XBW-27C2(NABEYA BI-TECH)
			HG-KR (MR) 23	200W		
	YASKAWA ELECTRIC	Σ -V	SGMJV, SGMVAV-A5	50W	A1	SFC-020DA2(MIKI PULLEY) ACD-27A (ISEL)
			SGMJV, SGMVAV-01	100W		
			SGMJV, SGMVAV-C2	150W		
			SGMJV, SGMVAV-02	200W		
		Σ -7	SGM7J, SGM7A-A5	50W	A1	SFC-020DA2(MIKI PULLEY) ACD-27A (ISEL)
			SGM7J, SGM7A-01	100W		
			SGM7J, SGM7A-C2	150W		
			SGM7J, SGM7A-02	200W		
OMRON	G5	R88M-K05030	50W	A1	SFC-020DA2(MIKI PULLEY) ACD-27A (ISEL)	
		R88M-K10030	100W			
SANYO ELECTRIC	SANMOTION R	R2AA04005	50W	A3	SFC-020DA2(MIKI PULLEY) ACD-27A (ISEL)	
		R2AA04010	100W			
		R2AA06020	200W			A7
Stepping motor	ORIENTAL MOTOR	α step	ARM4	□42mm	B1	SFC-010DA2(MIKI PULLEY) ACD-19A (ISEL)
			ARM6	□60mm	A4	SFC-020D2(MIKI PULLEY) ACD-27A (ISEL)
		5-Phase	CRK54, RKS54	□42mm	B1	SFC-010DA2(MIKI PULLEY) ACD-19A (ISEL)
			CRK56, RKS56	□60mm	A4	SFC-020D2(MIKI PULLEY) ACD-27A (ISEL)
		2-Phase	PKP24	□42mm	B1	SFC-010DA2(MIKI PULLEY) ACD-19A (ISEL)
			PK26	□60mm	A5	SFC-020D2(MIKI PULLEY) ACD-27A (ISEL)
	SANYO ELECTRIC	5-Phase	F series □42mm	□42mm	B1	SFC-010DA2(MIKI PULLEY) ACD-19A (ISEL)
			F series □60mm	□60mm	A4	SFC-020DA2(MIKI PULLEY) ACD-27A (ISEL)

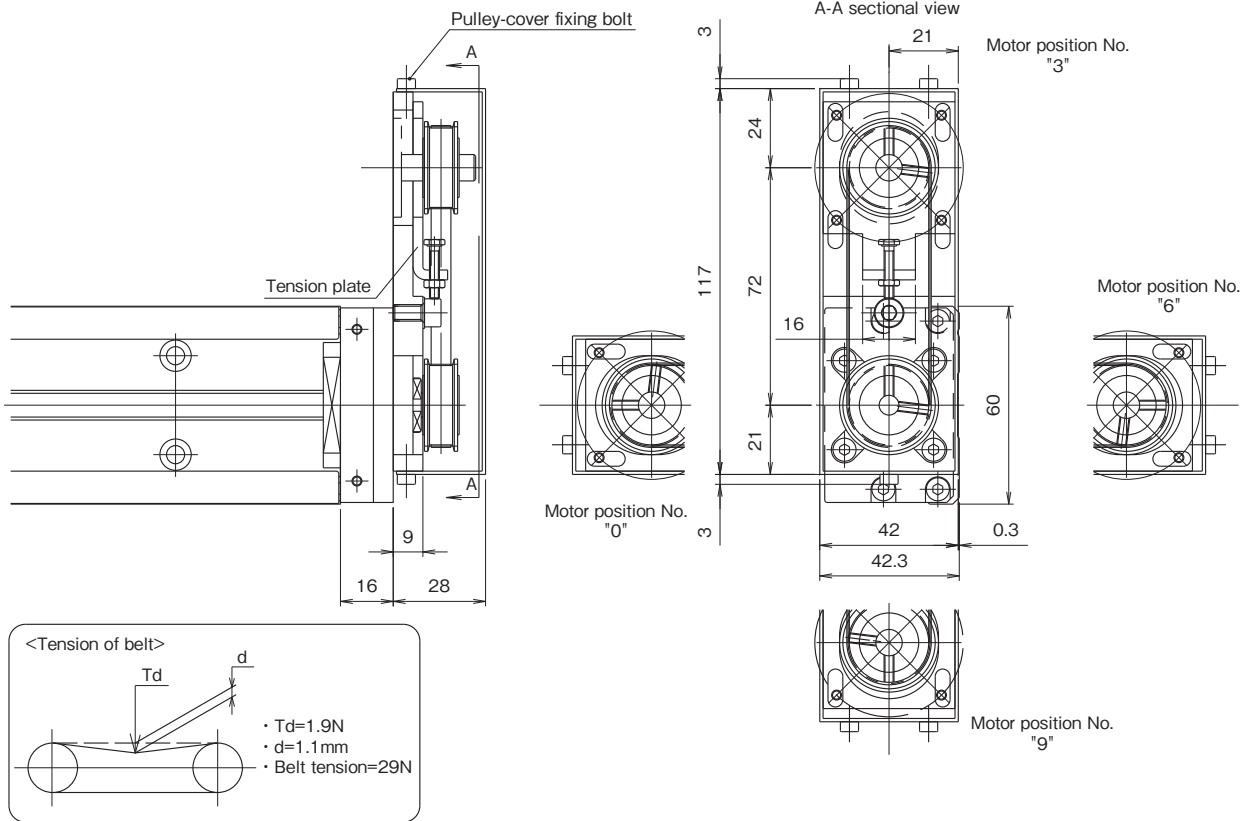
•For motors other than above-mentioned, consult KURODA.

•When selecting a rigid type of coupling for connecting a motor, consult KURODA.

•For detailed specifications of above-mentioned motors and couplings, refer to catalogs or websites provided by the makers.

SE30

● PARALLEL MOTOR MOUNTING

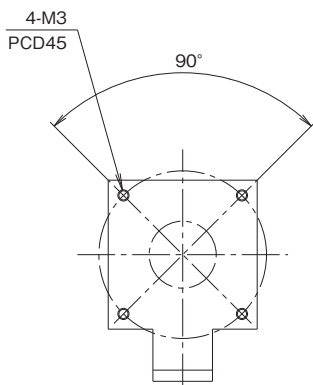


- Pulley unit position can be adjusted at every 90 degree.
- Motor parallel mounting can be equipped with dust-proof cover and sensor.
- Fill Motor position No. in .
- If the pulley cover may not be removable due to restrictions arising from direction of the unit, consult KURODA for modifying positions of the pulley-cover fixing bolts (3 M3 hex socket bolts).
- Tension plate position can be built in pulley cover.
- Although tension plate is attached inside the cover with standard specifications, it can also be attached to outside the cover. Consult KURODA for such modification.
- The mass is 0.2kg larger than the values shown in table on page 75.
- Inertia moment is $2.22 \times 10^{-6} \text{kg} \cdot \text{m}^2$ larger than the value shown in table on page 55.

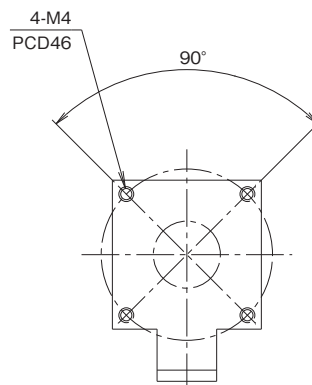
Mark	Pulley Inner dia.	Applicable motor
E <input type="checkbox"/>	Inner dia. $\phi 8$	Panasonic 50 - 100W motor and so on
F <input type="checkbox"/>	Inner dia. $\phi 8$	Yaskawa 50 - 100W motor and so on
		Mitsubishi Electric 50 - 100W motor and so on
		Sanyo Electric 50 - 100W motor and so on

Fullfill the motor position No. in .
Check the spec. if the motor can be assembled before using.

Parallel motor mounting type E
Tension plate dimension



Parallel motor mounting type F
Tension plate dimension

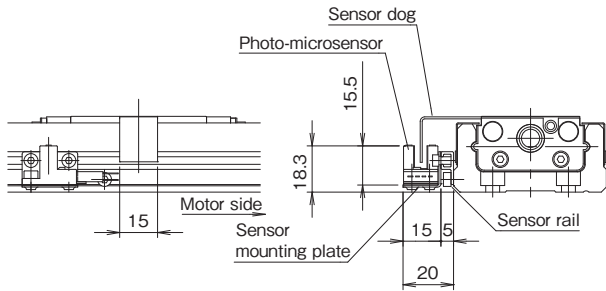


SE30

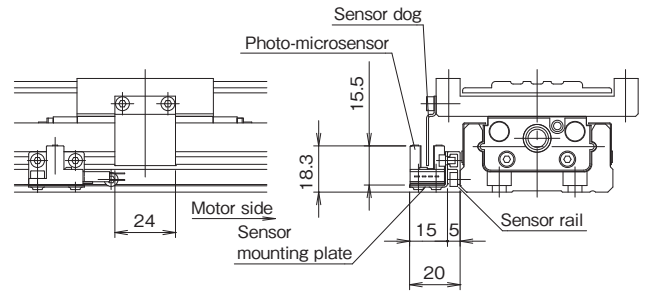
● SENSOR

Symbol C (NPN) / P (PNP), M / Y (PNP): Photo-microsensor (OMRON, Panasonic Industrial Devices SUNX)

Without dustproof cover

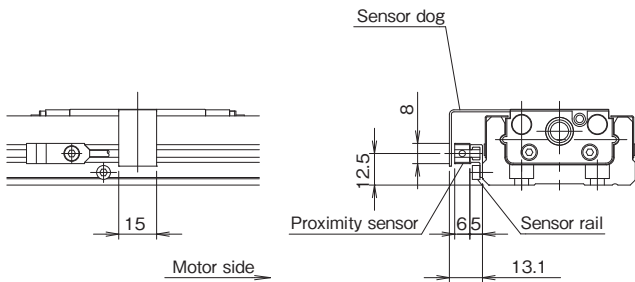


With dustproof cover

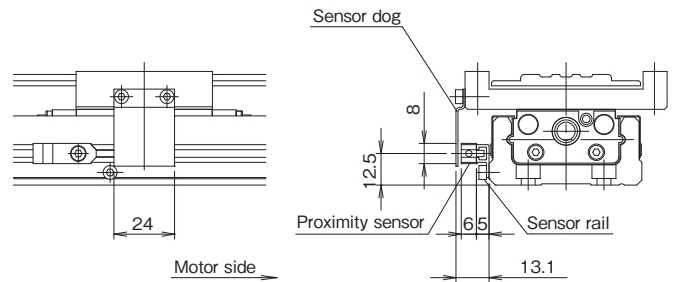


Symbol K (NPN) / E (PNP): Proximity sensor (Azbil)

Without dustproof cover



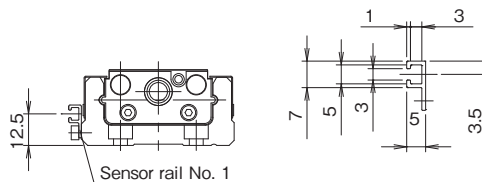
With dustproof cover



● SENSOR RAIL

Sensor rails only available with no sensors.

Sensor rail No. 1

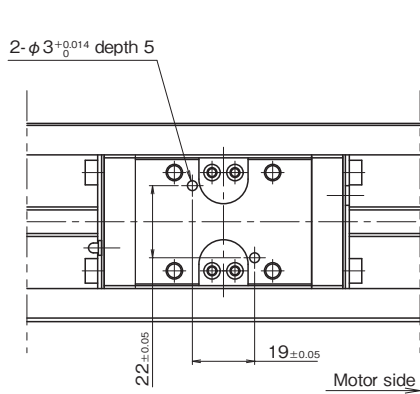


SE30

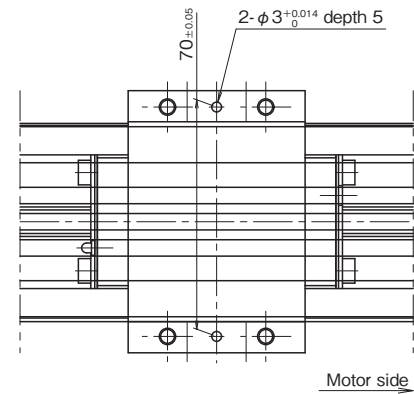
● DOWEL PIN HOLE

Dowel pin holes are applicable on the slide blocks with part number "PS", sub-tables "PR" or slide blocks and sub-tables "PSR". For actuators with 2 blocks, they are on both driving-side block and driven-side block. Please note that dowel pins are not equipped.

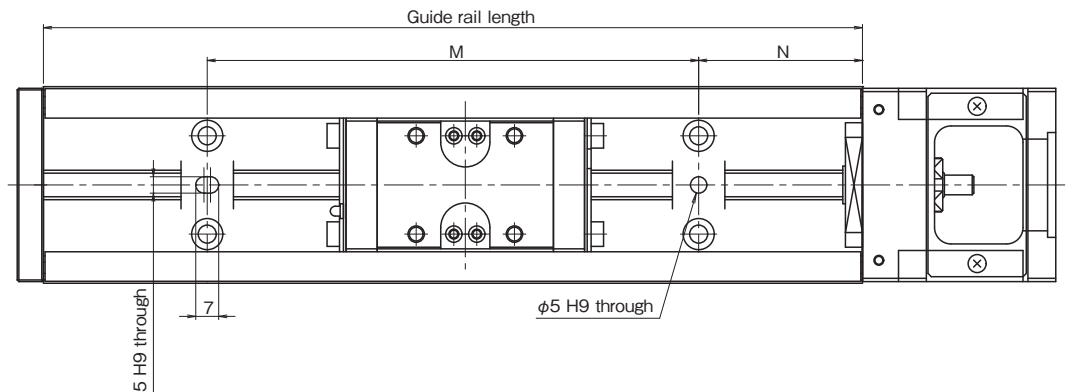
Long block without dustproof cover with "PS"



Long block with dustproof cover with "PS"



Guide rail with "PR"



(Unit: mm)

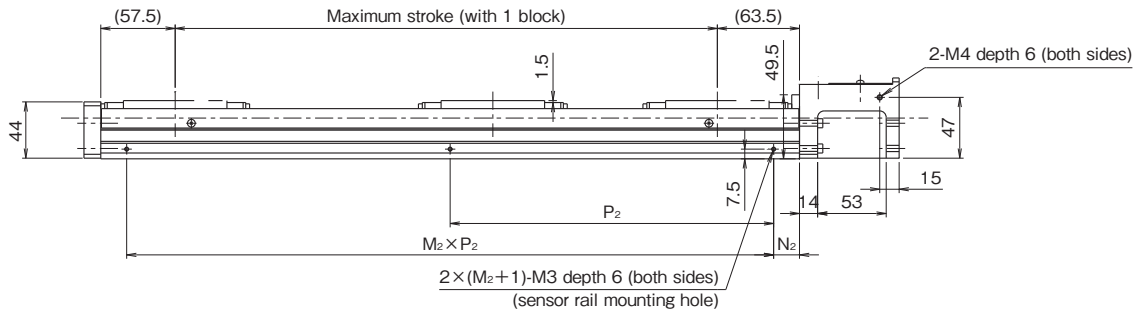
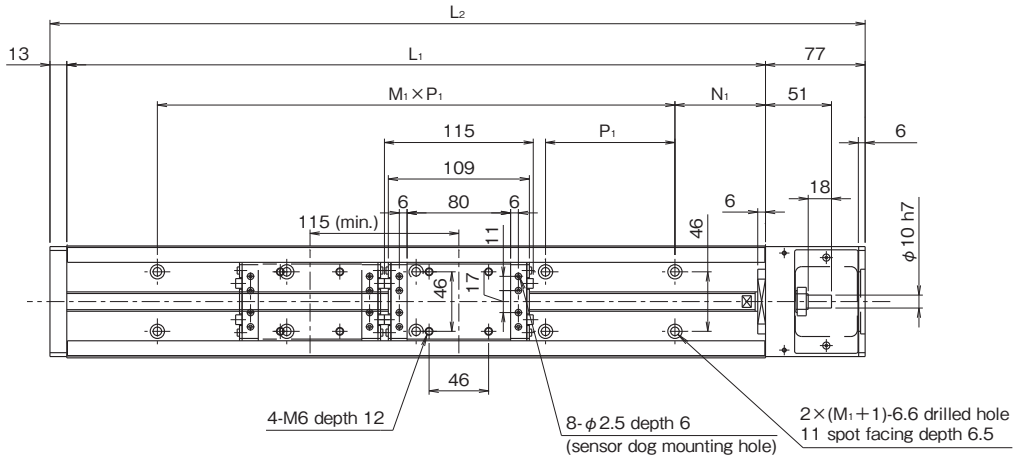
Guide rail length	N	M	Dowel pin height
150	25	100	Less than 8
200	50	100	
300		200	
400		300	
500		400	
600		500	
700	600		
750	25	700	

Notice: In case dowel pin is stuck out from the U-guide rail, it may interfere with and break the slide block.

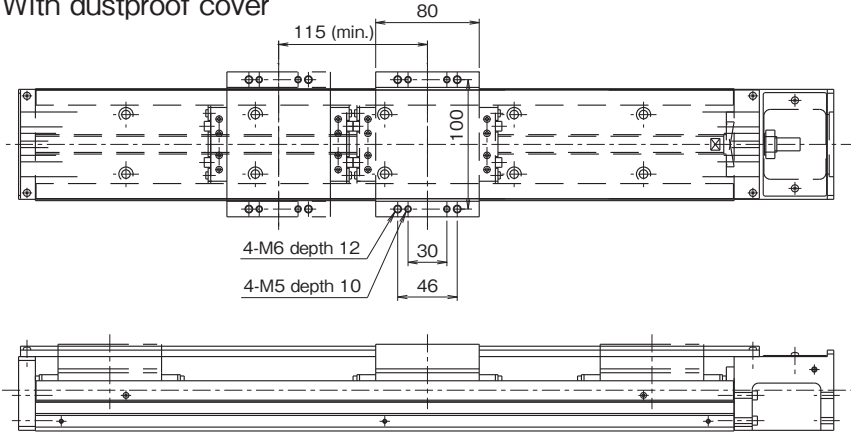
SE45

LONG BLOCK CONFIGURATIONS

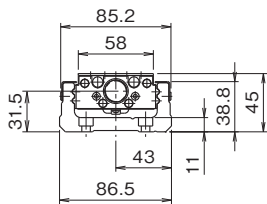
With 1 long block: A (With 2 long blocks: B)



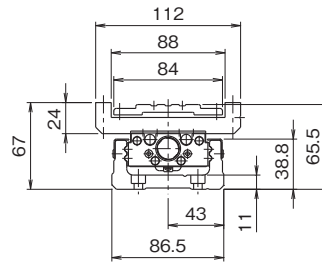
With dustproof cover



Without cover



With dustproof cover



SE45

● LONG BLOCK DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	$M_2 \times P_2$	Maximum stroke		Maximum stroke		Minimum stroke (with LUBSEAL)
						Long block		Long block (with LUBSEAL)		
						A: 1 block	B: 2 blocks	E: 1 block	F: 2 blocks	
340	430	70	2×100	20	1×300	219	104	211	—	123
440	530		3×100		1×400	319	204	311	188	
540	630		4×100		2×250	419	304	411	288	
640	730		5×100		2×300	519	404	511	388	
740	830		6×100		2×350	619	504	611	488	
840	930		7×100		2×400	719	604	711	588	
940	1030		8×100		3×300	819	704	811	688	

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)			Mass (kg)				Slide block	
	Lead			Without cover		With cover		Without cover	With cover
	5mm	10mm	20mm	A	B	A	B		
340	260	520	1040	6	6.9	6.9	8.1	0.86	1.19
440				7.3	8.2	8.3	9.5		
540				8.5	9.4	9.6	10.9		
640				9.8	10.7	11	12.2		
740				11	11.9	12.4	13.6		
840				12.3	13.2	13.8	15		
940	200	410	830	13.5	14.4	15.1	16.4		

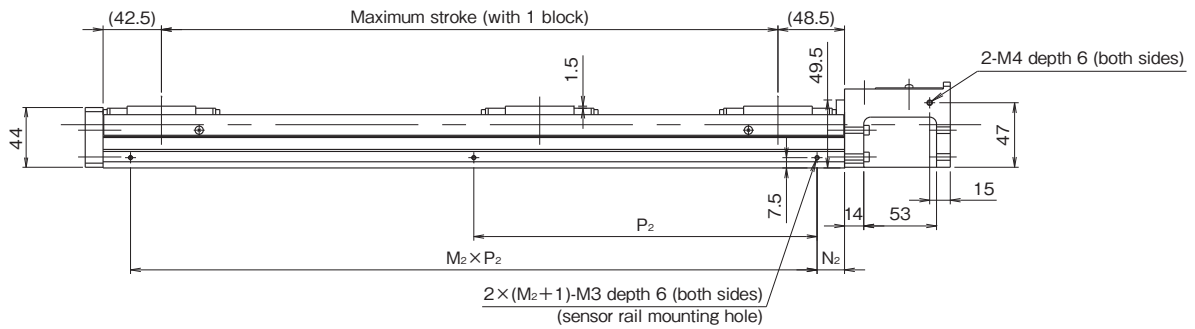
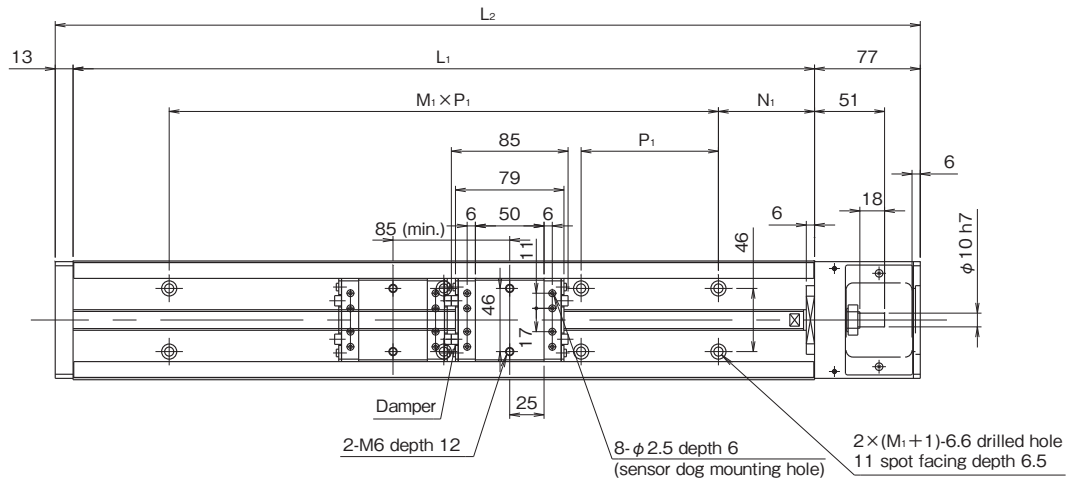
(Note 1) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 2) For long rail configurations, please consult KURODA.

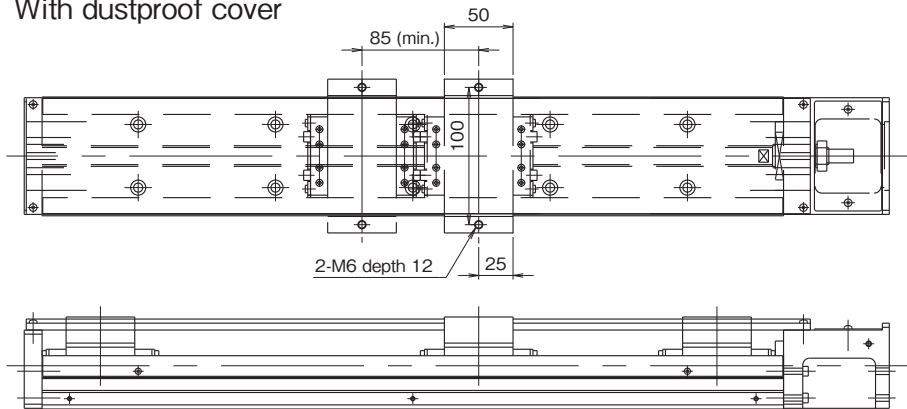
SE45

● SHORT BLOCK CONFIGURATIONS

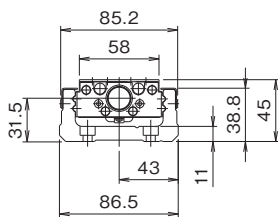
With 1 short block: C (With 2 short blocks: D)



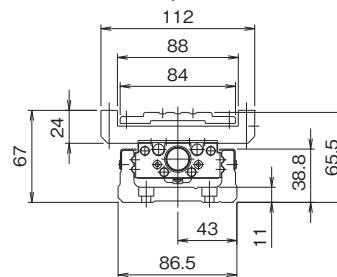
With dustproof cover



Without cover



With dustproof cover



SE45

● SHORT BLOCK DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	$M_2 \times P_2$	Maximum stroke		Maximum stroke		Minimum stroke (with LUBSEAL)
						Short block		Short block (with LUBSEAL)		
						C: 1 block	D: 2 blocks	G: 1 block	H: 2 blocks	
340	430	70	2×100	20	1×300	249	164	241	148	93
440	530		3×100		1×400	349	264	341	248	
540	630		4×100		2×250	449	364	441	348	
640	730		5×100		2×300	549	464	541	448	
740	830		6×100		2×350	649	564	641	548	
840	930		7×100		2×400	749	664	741	648	
940	1030		8×100		3×300	849	764	841	748	

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)			Mass (kg)					
	Lead			Without cover		With cover		Slide block	
	5mm	10mm	20mm	C	D	C	D	Without cover	With cover
340	260	520	1040	5.7	6.3	6.5	7.2	0.58	0.79
440				7	7.6	7.8	8.6		
540				8.2	8.8	9.2	10		
640				9.5	10.1	10.6	11.4		
740				10.7	11.3	12	12.8		
840				12	12.6	13.3	14.1		
940	200	410	830	13.2	13.8	14.7	15.5		

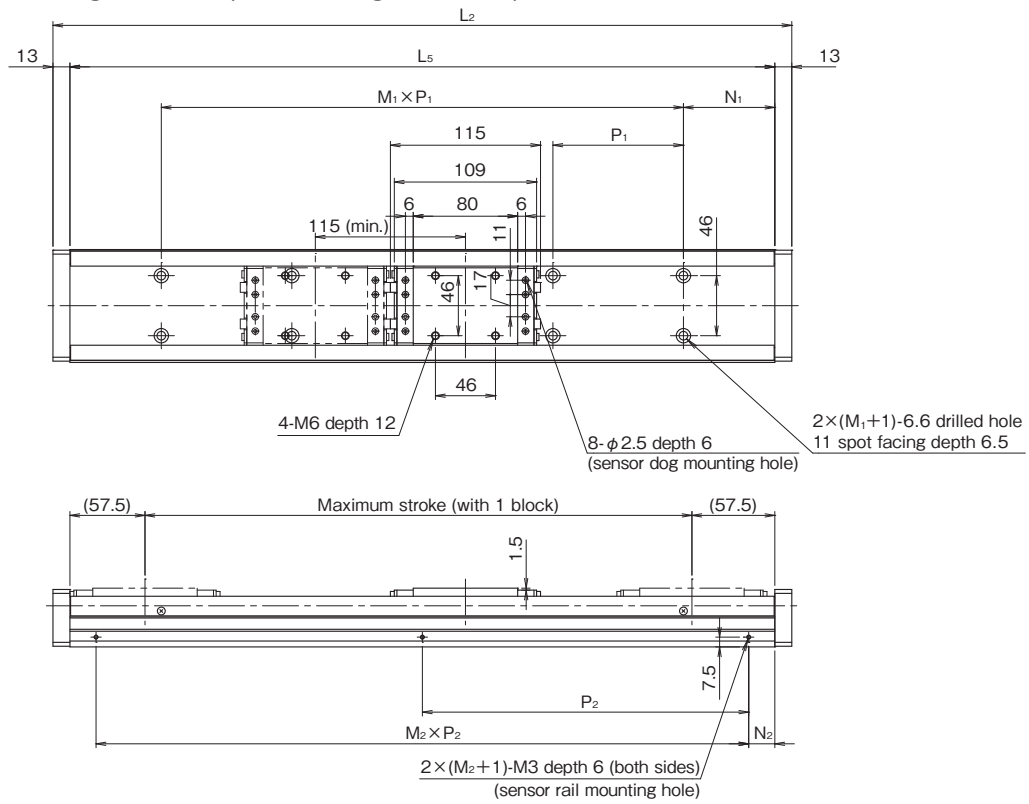
(Note 1) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 2) For long rail configurations, please consult KURODA.

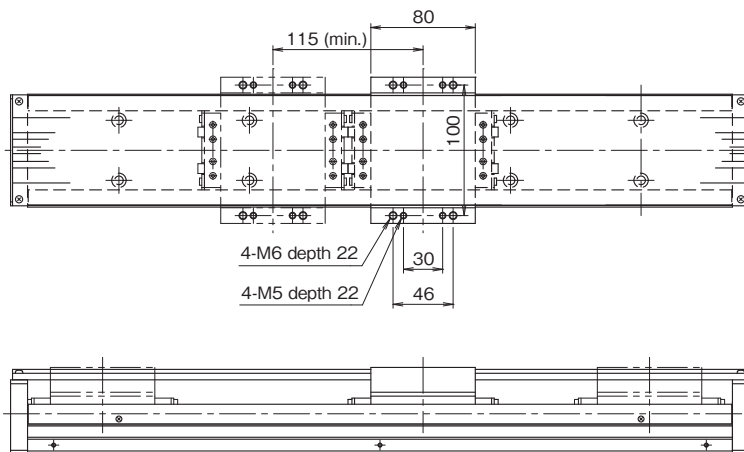
SE45

● LONG BLOCK SUB GUIDE RAIL CONFIGURATIONS

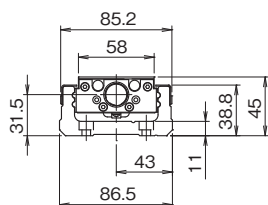
With 1 long block: A (With 2 long blocks: B)



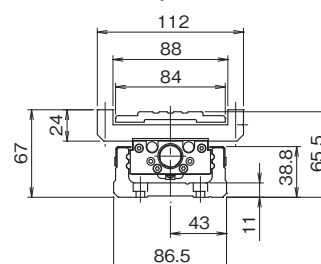
With dustproof cover



Without cover



With dustproof cover



SE45

● LONG BLOCK SUB GUIDE RAIL DIMENSIONS

(Unit: mm)

Guide rail length L_1	Overall length L_2	N_1	$M_1 \times P_1$	N_2	$M_2 \times P_2$	Maximum stroke		Maximum stroke		Minimum stroke (with LUBSEAL)
						Long block		Long block (with LUBSEAL)		
						A: 1 block	B: 2 blocks	E: 1 block	F: 2 blocks	
340	430	70	2×100	20	1×300	225	110	217	—	123
440	530		3×100		1×400	325	210	317	194	
540	630		4×100		2×250	425	310	417	294	
640	730		5×100		2×300	525	410	517	394	
740	830		6×100		2×350	625	510	617	494	
840	930		7×100		2×400	725	610	717	594	
940	1030		8×100		3×300	825	710	817	694	

● PERMISSIBLE SPEED / MASS

Guide rail length L_1 (mm)	Permissible speed (mm/s)	Mass (kg)					
		Without cover		With cover		Slide block	
		A	B	A	B	Without cover	With cover
340	2000	5.6	6.5	6.4	7.7	0.86	1.19
440		6.7	7.6	7.7	8.9		
540		7.8	8.7	8.9	10.2		
640		8.9	9.8	10.2	11.4		
740		10.1	11.0	11.4	12.7		
840		11.2	12.1	12.7	13.9		
940		12.3	13.2	13.9	15.2		

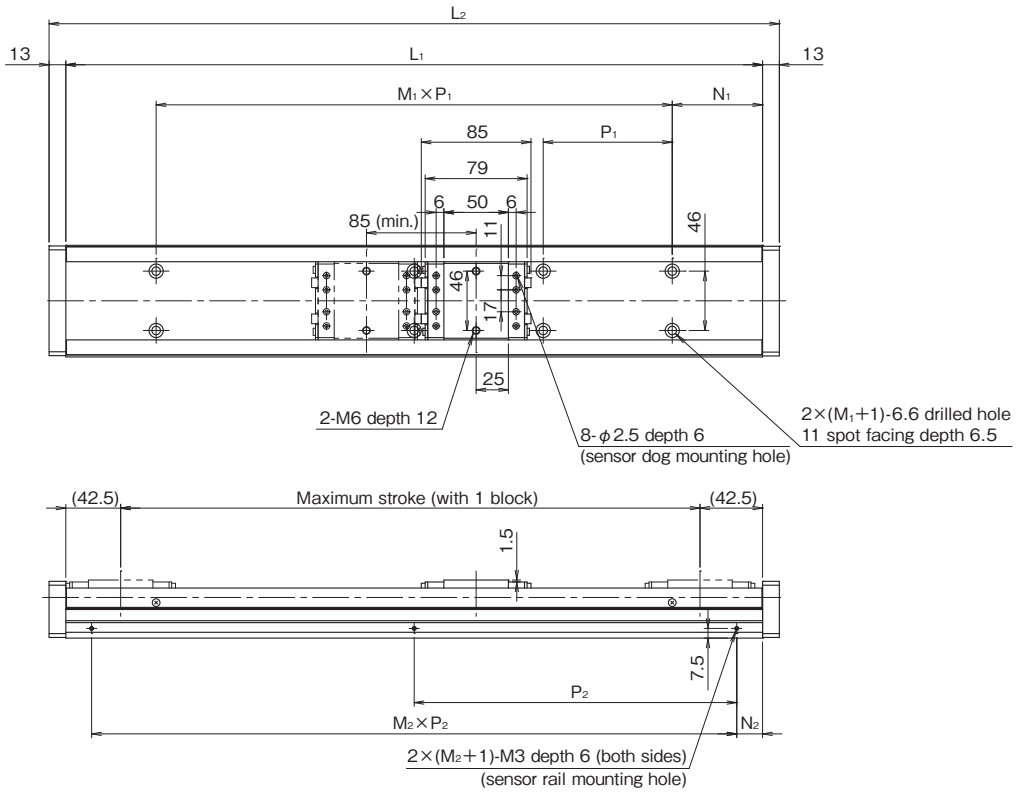
(Note 1) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 2) For long rail configurations, please consult KURODA.

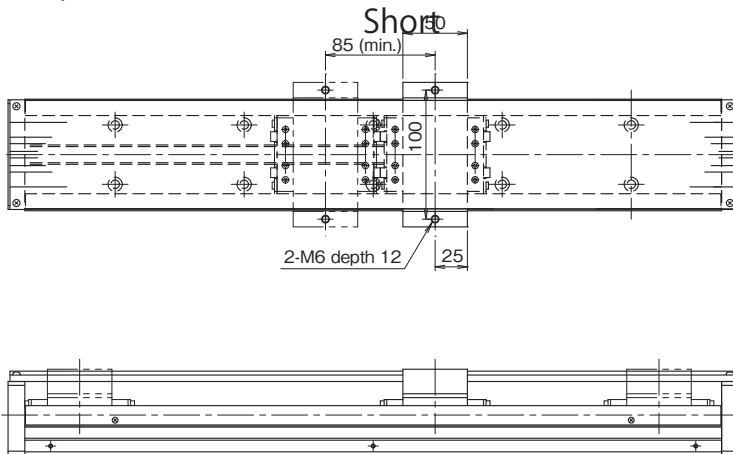
SE45

● SHORT BLOCK SUB GUIDE RAIL CONFIGURATIONS

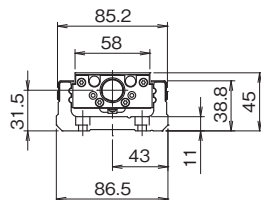
With 1 short block: C (With 2 short blocks: D)



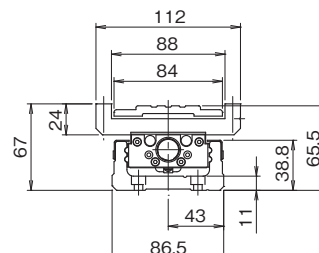
With dustproof cover



Without cover



With dustproof cover



SE45

● SHORT BLOCK SUB GUIDE RAIL DIMENSIONS

(Unit: mm)

Guide rail length L ₁	Overall length L ₂	N ₁	M ₁ × P ₁	N ₂	M ₂ × P ₂	Maximum stroke		Maximum stroke		Minimum stroke (with LUBSEAL)
						Short block		Short block (with LUBSEAL)		
						C: 1 block	D: 2 blocks	G: 1 block	H: 2 blocks	
340	430	70	2 × 100	20	1 × 300	255	170	247	154	93
440	530		3 × 100		1 × 400	355	270	347	254	
540	630		4 × 100		2 × 250	455	370	447	354	
640	730		5 × 100		2 × 300	555	470	547	454	
740	830		6 × 100		2 × 350	655	570	647	554	
840	930		7 × 100		2 × 400	755	670	747	654	
940	1030		8 × 100		3 × 300	855	770	847	754	

● PERMISSIBLE SPEED / MASS

Guide rail length L ₁ (mm)	Permissible speed (mm/s)	Mass (kg)					
		Without cover		With cover		Slide block	
		A	B	A	B	Without cover	With cover
340	2000	5.3	5.9	6.0	6.6	0.58	0.79
440		6.4	7.0	7.2	7.8		
540		7.5	8.1	8.5	9.1		
640		8.6	9.2	9.7	10.3		
740		9.8	10.4	11.0	11.6		
840		10.9	11.5	12.2	12.8		
940		12.0	12.6	13.5	14.1		

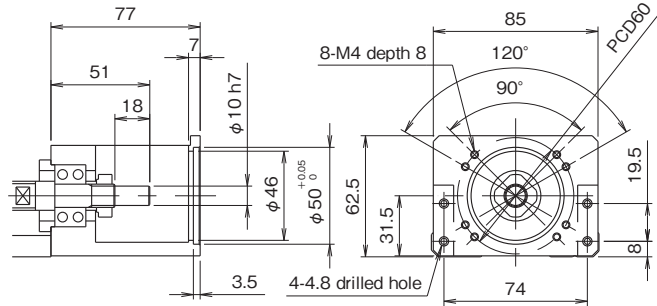
(Note 1) The mass indicated in the columns "Without cover" and "With cover" in the above table includes the mass of slide block.

(Note 2) For long rail configurations, please consult KURODA.

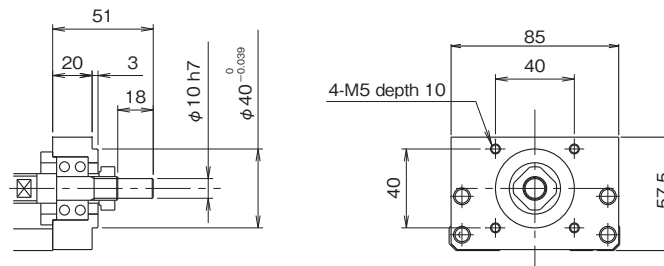
SE45

● MOTOR BRACKET CONFIGURATIONS

Motor bracket configuration: A0



Motor bracket configuration: RN

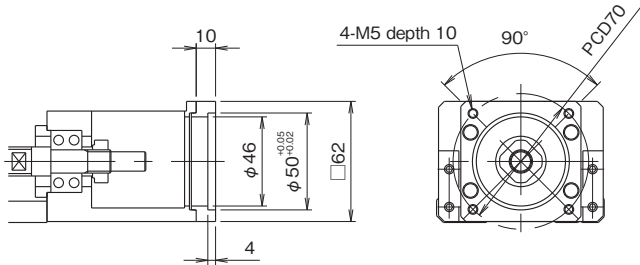


Mass of the RN configuration is 0.26 kg less than the values shown in the tables on pages 85 and 87.

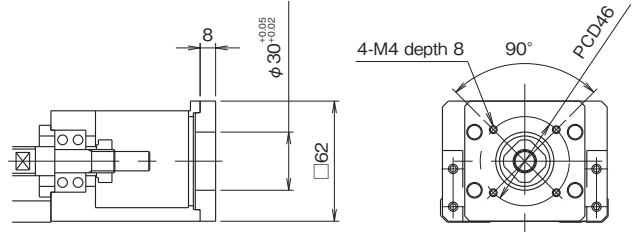
SE45

● MOTOR BRACKET CONFIGURATIONS (INTERMEDIATE FLANGE)

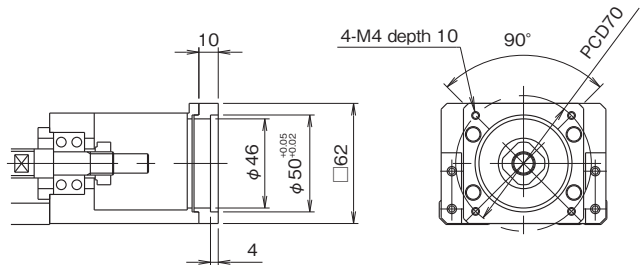
Motor bracket configuration: A1 (mass: 53g)



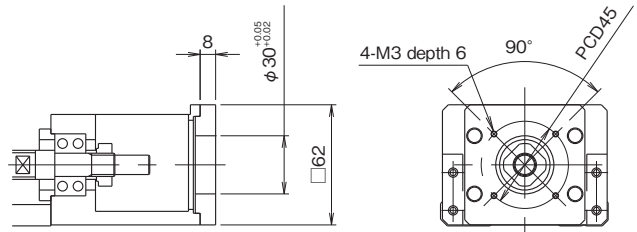
Motor bracket configuration: A4 (mass: 73g)



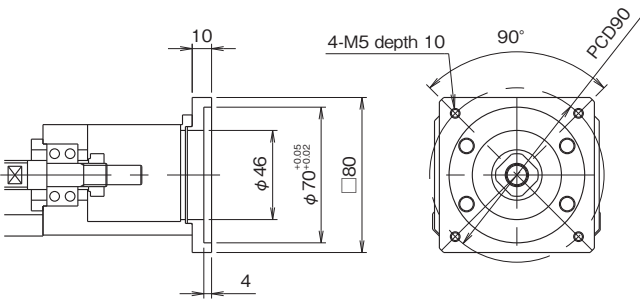
Motor bracket configuration: A2 (mass: 53g)



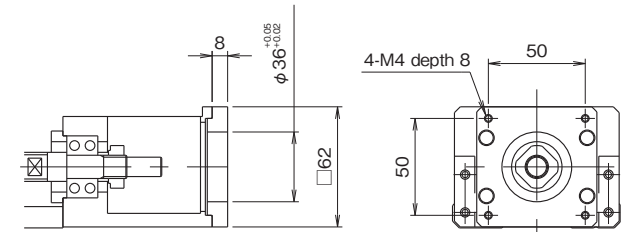
Motor bracket configuration: A5 (mass: 73g)



Motor bracket configuration: A3 (mass: 103g)



Motor bracket configuration: A6 (mass: 64g)



SG
SG20
SG26
SG33
SG46
SG55

SE
SE15
SE23
SE30
SE45

SC
SC23
SC30
SC45

Sensor

Technical Data

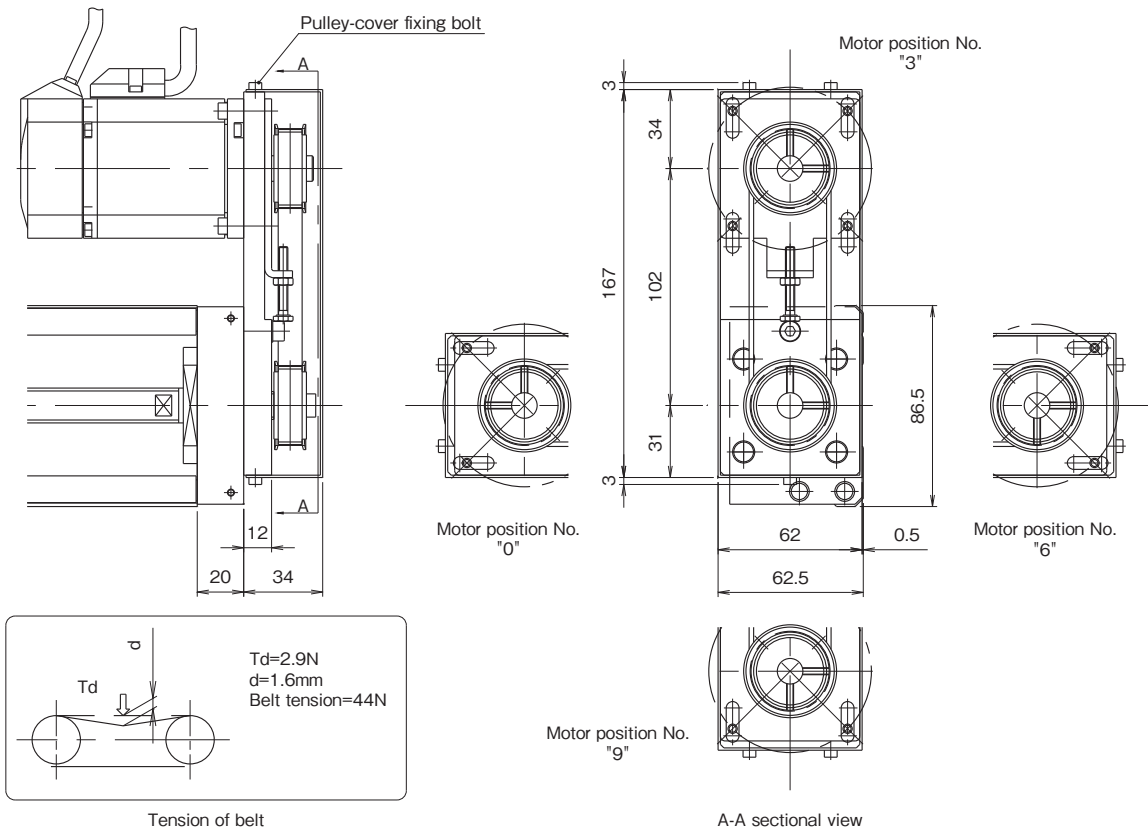
● MOTOR BRACKET CONFIGURATIONS AND MOTOR OPTION

Motor type	Maker	Motor option			Motor bracket configuration	Recommended coupling	
		Series	Model No.	Output			
AC SERVO motor	PANASONIC	MINAS E	MUMA02	200W	A2	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL)	
			MUMA04	400W			
		MINAS A5	MSME5A	50W	A5	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)	
			MSME01	100W			
			MSME02	200W	A2	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL)	
			MSME04	400W			
		MSME08	750W	A3	SFC-040DA2 (MIKI PULLEY) ACD-44A (ISEL)		
			MINAS A6	MSMF5A	50W	A5	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)
		MSMF01		100W			
		MSMF02		200W	A2	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL)	
		MSMF04		400W			
		MSMF08		750W	A3	SFC-040DA2 (MIKI PULLEY) ACD-44A (ISEL)	
		MITSUBISHI ELECTRIC	MELSERVO J3	HF-KP (MP) 053	50W	A4	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)
				HF-KP (MP) 13	100W		
	HF-KP (MP) 23			200W	A1	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL)	
	HF-KP (MP) 43			400W			
	MELSERVO J4		HG-KR (MR) 053	50W	A4	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)	
			HG-KR (MR) 13	100W			
			HG-KR (MR) 23	200W	A1	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL)	
			HG-KR (MR) 43	400W			
	YASKAWA ELECTRIC	Σ-V	SGMJV, SGMV-A5	50W	A4	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)	
			SGMJV, SGMV-01	100W			
			SGMJV, SGMV-C2	150W	A1	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL) SFC-035DA2 (MIKI PULLEY) ACD-39A (ISEL)	
			SGMJV, SGMV-02	200W			
			SGMJV, SGMV-04	400W			
		Σ-7	SGMJV, SGMV-06	600, 550W	A4	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)	
			SGM7J, SGM7A-A5	50W			
			SGM7J, SGM7A-01	100W			
SGM7J, SGM7A-C2			150W				
SGM7J, SGM7A-02			200W				
G5	SGM7J, SGM7A-04	400W	A1	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL) SFC-035DA2 (MIKI PULLEY) ACD-39A (ISEL)			
	SGM7J, SGM7A-06	600W					
	R88M-K05030	50W	A4	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)			
		R88M-K10030			100W		
R88M-K20030		200W	A2	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL)			
R88M-K40030		400W					
SANYO ELECTRIC	SANMOTION R	R2AA04005	50W	A4	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)		
		R2AA04010	100W				
		R2AA06020	200W	A1	SFC-030DA2 (MIKI PULLEY) ACD-34A (ISEL)		
		R2AA06040	400W				
Stepping motor	ORIENTAL MOTOR	α step	ARM6	□60mm	A6	SFC-020DA2 (MIKI PULLEY) ACD-27A (ISEL)	
	SANYO ELECTRIC	5-Phase	F series □60mm	□60mm	A6		

- For motors other than above-mentioned, consult KURODA.
- When selecting a rigid type of coupling for connecting a motor, consult KURODA.
- For detailed specifications of above-mentioned motors and couplings, refer to catalogs or websites provided by the makers.

SE45

● PARALLEL MOTOR MOUNTING

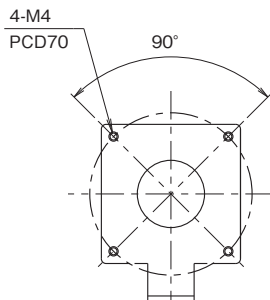


- Pulley unit position can be adjusted at every 90 degree.
- Fill motor position No. in .
- If the pulley cover may not be removable due to restrictions arising from direction of the unit, consult KURODA for modifying positions of the pulley-cover fixing bolts (3 M3 cross recessed flat head machine screws).
- Motor parallel mounting can be equipped with dustproof cover and sensor.
- Although tension plate is attached inside the cover with standard specifications, it can also be attached to outside the cover. Consult KURODA for such modification.
- Tension plate position can be built in pulley cover.
- The mass is 0.7kg larger than the values shown in tables on pages 85 and 87.
- Inertia moment is $1.24 \times 10^{-5} \text{kg} \cdot \text{m}^2$ larger than the value shown in table on page 55.

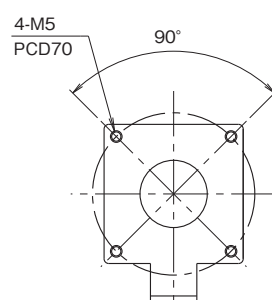
Mark	Pulley Inner dia.	Applicable motor
<input type="checkbox"/> E	Inner dia. $\phi 11$	Panasonic 200W motor and so on Yaskawa 200W motor and so on
<input type="checkbox"/> F	Inner dia. $\phi 14$	Mitsubishi Electric 200W motor and so on Sanyo Electric 200W motor and so on
<input type="checkbox"/> G	Inner dia. $\phi 8$	Oriental Motor Stepping Motor <input type="checkbox"/> 60 series and so on"

Fullfill the motor position No. in .
Check the spec. if the motor can be assembled before using.

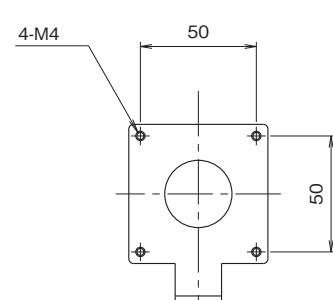
Parallel motor mounting type E
Tension plate dimension



Parallel motor mounting type F
Tension plate dimension



Parallel motor mounting type G
Tension plate dimension

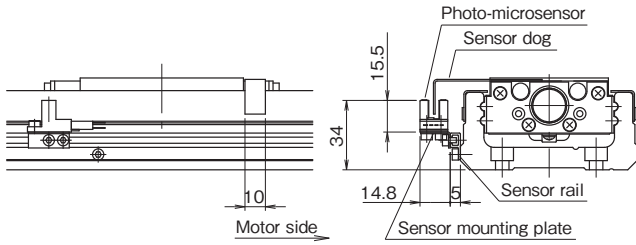


SE45

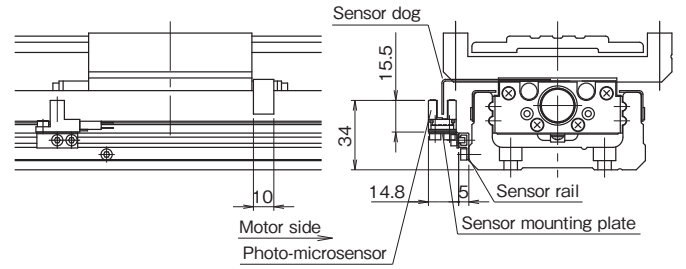
● SENSOR

Symbol C (NPN) / P (PNP), M (NPN) / Y (PNP): Photo-microsensor (OMRON, Panasonic Industrial Devices SUNX)

Without dustproof cover

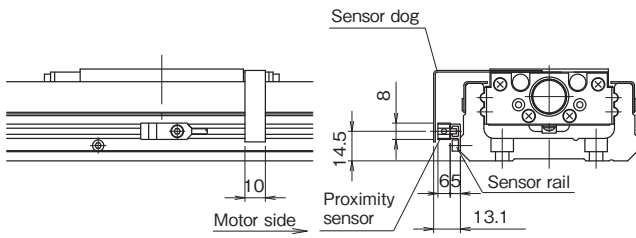


With dustproof cover

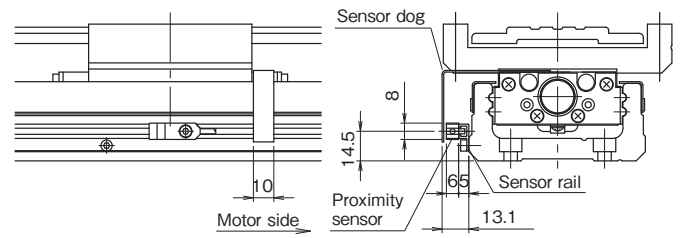


Symbol K (NPN) / E (PNP): Proximity sensor (Azbil)

Without dustproof cover



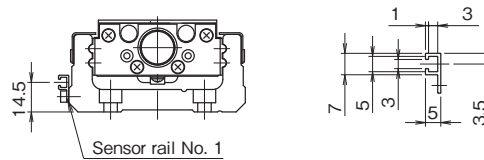
With dustproof cover



● SENSOR RAIL

Sensor rails only available with no sensors.

Sensor rail No. 1



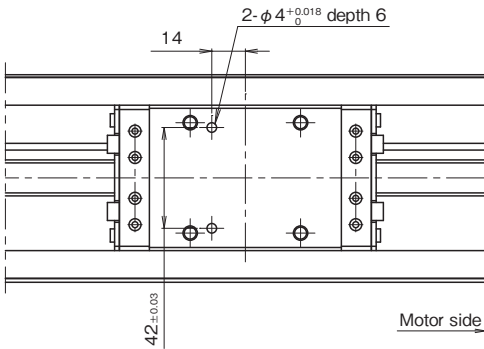
SE45

● DOWEL PIN HOLE

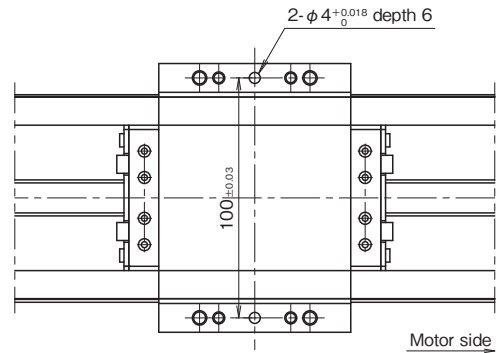
Dowel pin holes are applicable on the slide blocks with part number "PS", sub-tables "PR" or slide blocks and sub-tables "PSR". For an actuator with 2 blocks, they are on both driving-side block and driven-side block. Please note that dowel pins are not equipped.

Long block without dustproof cover with "PS"

For actuators with 2 blocks, the holes are on both blocks.

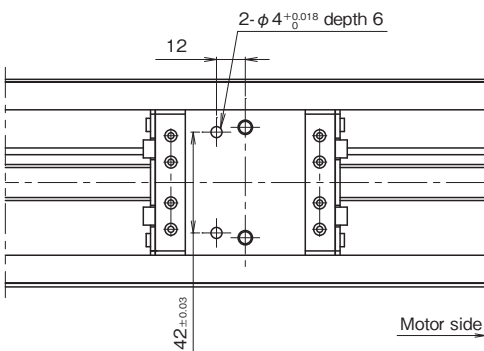


Long block with dustproof cover with "PS"

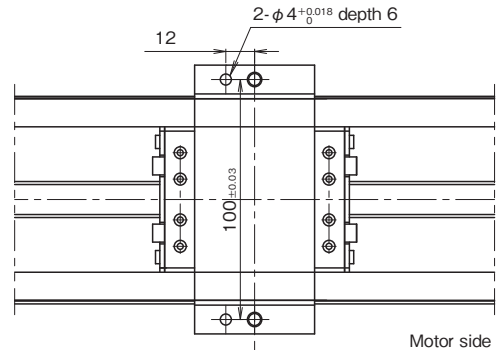


Short block without dustproof cover with "PS"

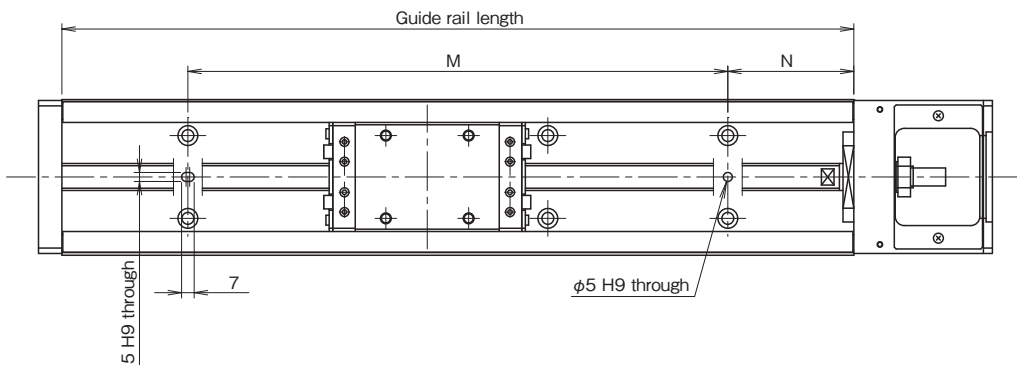
For actuators with 2 blocks, the holes are on both blocks.



Short block with dustproof cover with "PS"



Guide rail with "PR"



(Unit: mm)

Guide rail length	N	M	Dowel pin height
340	70	200	Less than 11
440		300	
540		400	
640		500	
740		600	
840		700	
940		800	

Notice: In case dowel pin is stuck out from the U-guide rail, it may interfere with and break the slide block.