



Mono stage 01–19



Linear module 20–60



Linear guide 61–73



Linear bearing 74–98



Ball screw 99–116



Ball screw support unit 117–134



Ball spline 135–143

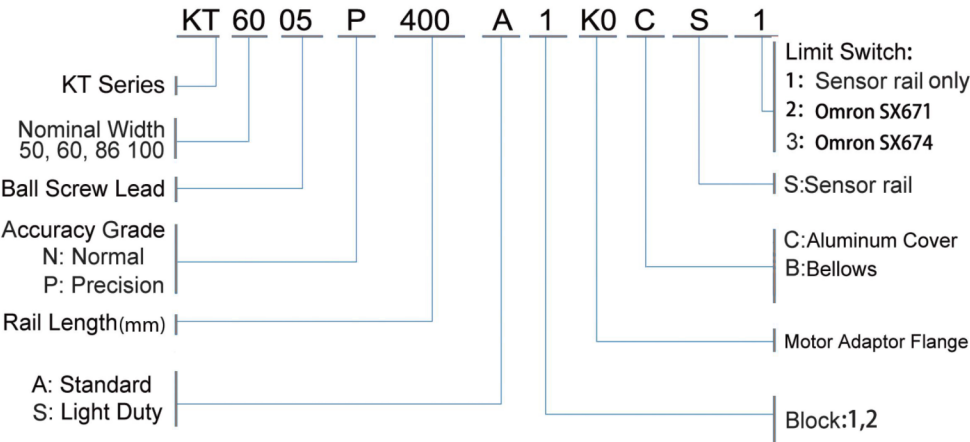


Gear and rack 144–151

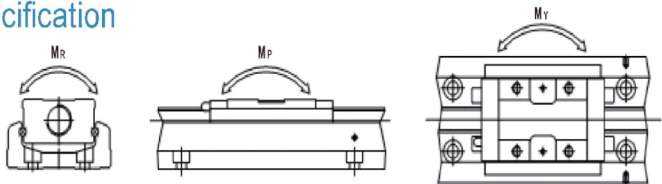
A.Mono Stage



1.3 Model



1.4 Specification



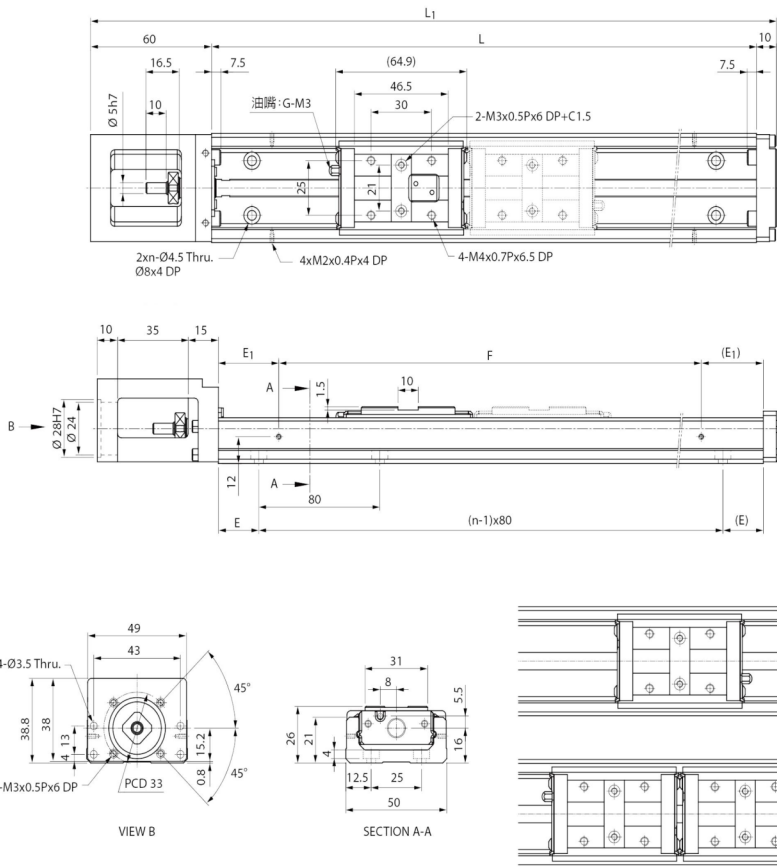
型號 Model		Ball Screw				Linear guide															
		公 稱 外 徑 (mm) Diam	導 程 (mm) Lead	基本 動額 定負荷 (N)	基本 靜額 定負荷 (N)	Basic Dynamic Load Rating		Basic Static Load Rating		Allowable Static Moment M _p (N·m) (pitching)				Allowable Static Moment M _y (N·m) (yawing)				Allowable Static Moment M _r (N·m) (rolling)			
				Ca	Coa	Block A	Block S	Block A	Block S	Block A1	Block A2	Block S1	Block S2	Block A1	Block A2	Block S1	Block S2	Block A1	Block A2	Block S1	Block S2
KT4001	精密級(P)	8	1	735	1538	3920	-	6468	-	33	182	-	-	33	182	-	-	81	162	-	-
	普通級(N)			676	1284																
KT5002	精密級(P)	8	2	2136	3489	8007	-	12916	-	116	545	-	-	116	545	-	-	222	444	-	-
	普通級(N)			1813	2910																
KT6005	精密級(P)	12	5	3744	6243	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482
	普通級(N)			3377	5625																
KT6010	精密級(P)	12	10	2410	3743	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482
	普通級(N)			2107	3234																
KT8610	精密級(P)	15	10	7144	12642	31458	21051	50764	29475	622	3050	166	1309	622	3050	166	1309	1507	3014	847	1694
	普通級(N)			6429	11387																
KT8620	精密級(P)	15	20	6465	7655	31458	21051	50764	29475	622	3050	166	1309	622	3050	166	1309	1507	3014	847	1694
	普通級(N)			4175	6889																
KT10020	精密級(P)	20	20	7046	12544	39200	-	63406	-	960	4763	-	-	960	4763	-	-	2205	4410	-	-
	普通級(N)			4782	9163																
KT13025	精密級(P)	25	25	7897	15931	48101	-	84829	-	1536	7350	-	-	1536	7350	-	-	3885	7770	-	-
	普通級(N)			7092	14352																

1.5 精度等級Accuracy Grade

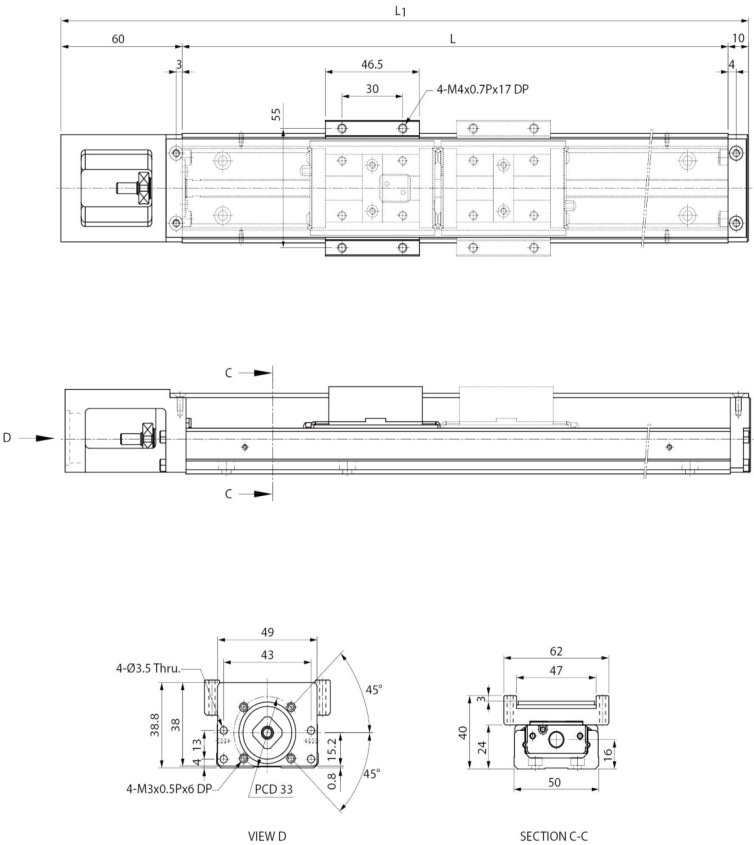
Model	軌道長度 Rail Length	Repeatability		Accuracy		Running Parallelism		Starting Torque(N-cm)			
		P	N	P	N	P	N	P	N		
KT40	100	±0.003	±0.01	0.020	-	0.010	-	1.2	0.8		
	150										
	200										
KT 50	150	±0.003	±0.01	0.020	-	0.010	-	4	2		
	200										
	250										
	300										
KT 60	150	±0.003	±0.01	0.020	-	0.010	-	15	7		
	200										
	300										
	400										
	500	±0.003	±0.01	0.025	-	0.015	-	15	7		
	600										
KT 86	340	±0.003	±0.01	0.025	-	0.015	-	15	10		
	440										
	540										
	640										
	740	±0.003	±0.01	0.030	-	0.020	-	17	10		
	940	±0.003	±0.01	0.040	-	0.030	-	25	10		
KT 100	980	±0.005	±0.01	0.035	-	0.025	-	17	12		
	1080										
	1180	±0.005	±0.01	0.040	-	0.030	-	20	12		
	1280	±0.005	±0.01	0.045	-	0.035	-	23	15		
	1380			0.050		0.040		25			
KT 130	980	±0.005	±0.01	0.035	-	0.025	-	25	15		
	1180			0.040		0.030		25	15		
	1380										
		1680	±0.007	±0.012	0.050	-	0.040	-	27	18	

1.6 最大速度 Maximum Speed Limit

Model	滚珠螺杆导程 (mm) ball screw lead	軌道長度L2 (mm) Rail Length	速度 Speed(mm/sec)	
			精密级 (P)	普通级 (N)
KT 40	01	100	190	190
		150	190	190
		200	190	190
KT 50	02	150	270	270
		200	270	270
		250	270	270
		300	270	270
KT 60	05	150	550	390
		200	550	390
		300	550	390
		400	550	390
		500	550	390
	10	600	340	340
		150	1100	790
		200	1100	790
		300	1100	790
		400	1100	790
		500	1100	790
		600	670	670
KT 86	10	340	740	520
		440	740	520
		540	740	520
		640	740	520
		740	740	520
	20	940	610	430
		340	1480	1050
		440	1480	1050
		540	1480	1050
		640	1480	1050
		740	1480	1050
		940	1220	870
KT 100	20	980	1120	800
		1080	980	800
		1180	750	750
		1280	510	630
		1380	440	530
KT 130	25	980	1120	800
		1180	1120	800
		1380	830	800
		1680	550	550



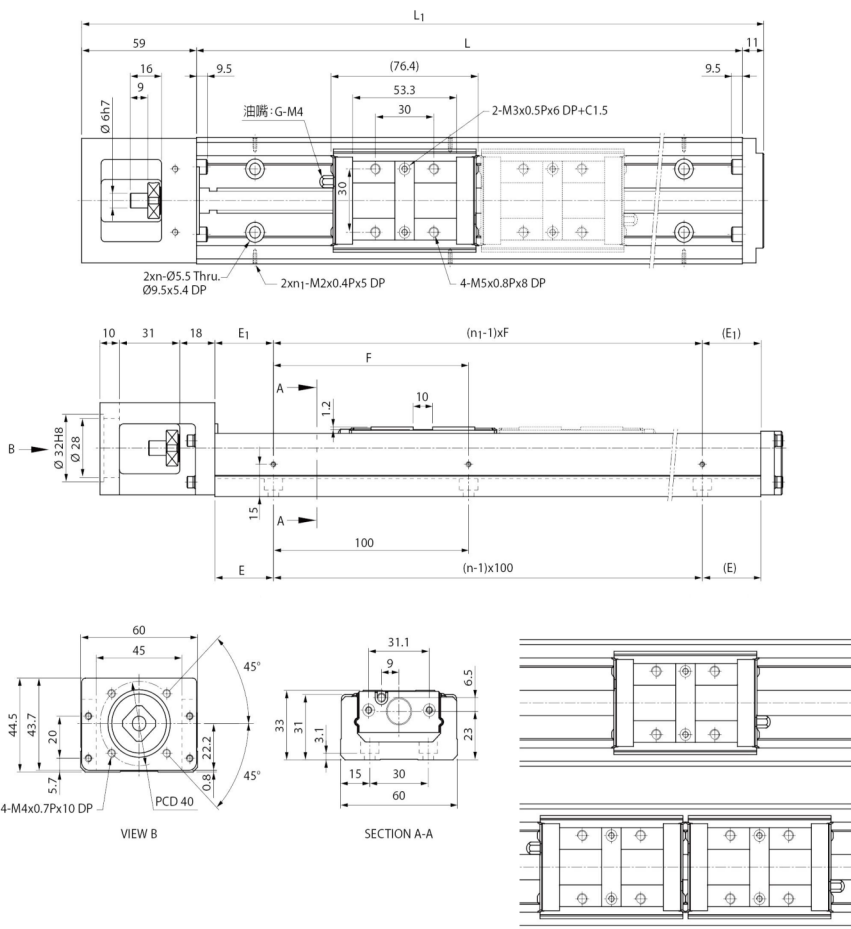
KT50 Standard (A Type With Cover)



Unit:mm

Rail Length L	Total Length L1	Max Stroke Length		Mass(KG)	
		A1Block	A2Block	A1Block	A2Block
150	220	70	-	1.06	-
200	270	120	55	1.26	1.45
250	320	170	105	1.46	1.65
300	370	220	155	1.67	1.86

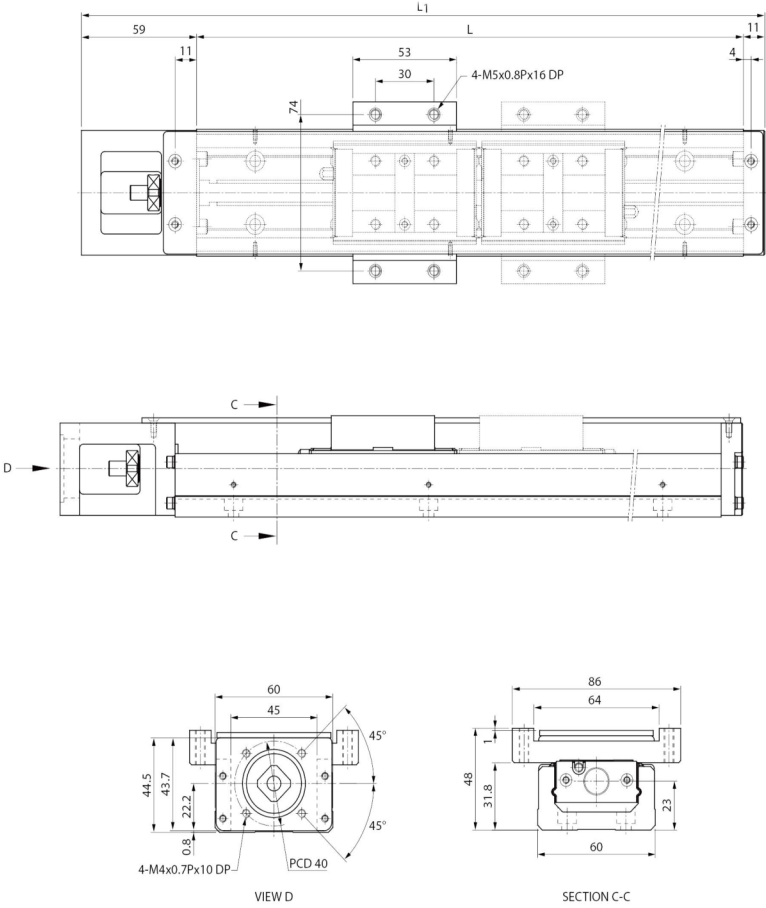
KT60 Standard (A Type Without Cover)



Unit:mm

Rail Length L	Total Length L ₁	Max Stroke Range		E	n	E ₁	n ₁	F	Mass(KG)	
		A1Block	A2Block						A1Block	A2Block
150	220	54.5	-	25	2	25	2	100	1.67	-
200	270	104.5	-	50	2	50	2	100	1.98	-
300	370	204.5	128	50	3	50	2	200	2.56	2.91
400	470	304.5	228	50	4	100	2	200	3.15	3.5
500	570	404.5	328	50	5	50	3	200	3.85	4.2
600	670	504.5	428	50	6	100	3	200	4.46	4.81

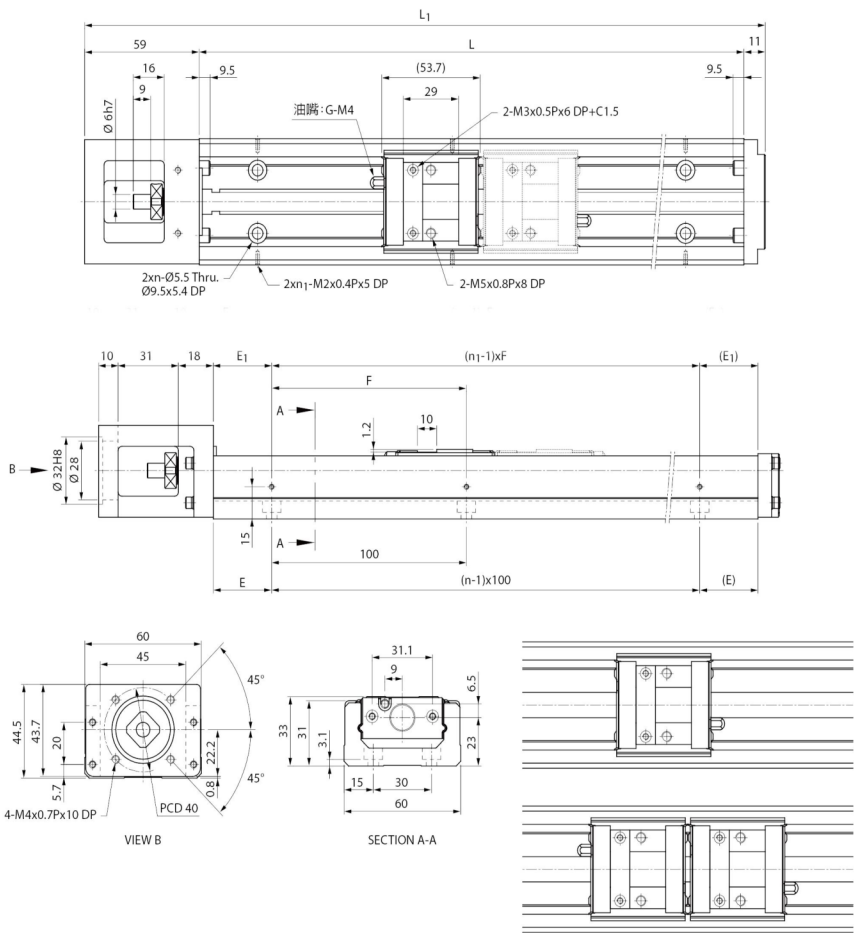
KT60 Standard (A Type With Cover)



Unit:mm

Rail Length L	Total Length L ₁	Max Stroke Range		Mass(KG)	
		A1Block	A2Block	A2Block	A2Block
150	220	54.5	-	1.87	-
200	270	104.5	-	2.18	-
300	370	204.5	128	2.76	3.21
400	470	304.5	228	3.38	3.83
500	570	404.5	328	4.09	4.54
600	670	504.5	428	4.71	5.16

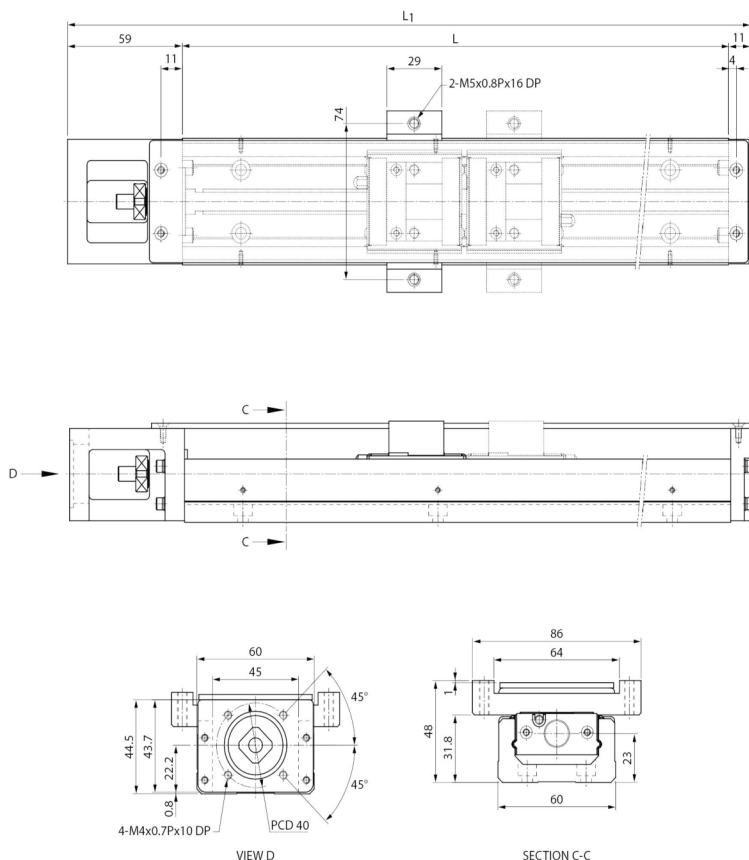
KT60 Light Duty (S Type Without Cover)



Unit:mm

Rail Length L	Total Length L ₁	Max Stroke Range		E	n	E ₁	n ₁	F	Mass(KG)	
		S1Block	S2Block						S1Block	S2Block
150	220	78.8	26.6	25	2	25	2	100	1.57	1.8
200	270	128.8	76.6	50	2	50	2	100	1.86	2.09
300	370	228.8	176.6	50	3	50	2	200	2.45	2.68
400	470	328.8	276.6	50	4	100	2	200	3.05	3.28
500	570	428.8	376.6	50	5	50	3	200	3.73	3.96
600	670	528.8	476.6	50	6	100	3	200	4.34	4.57

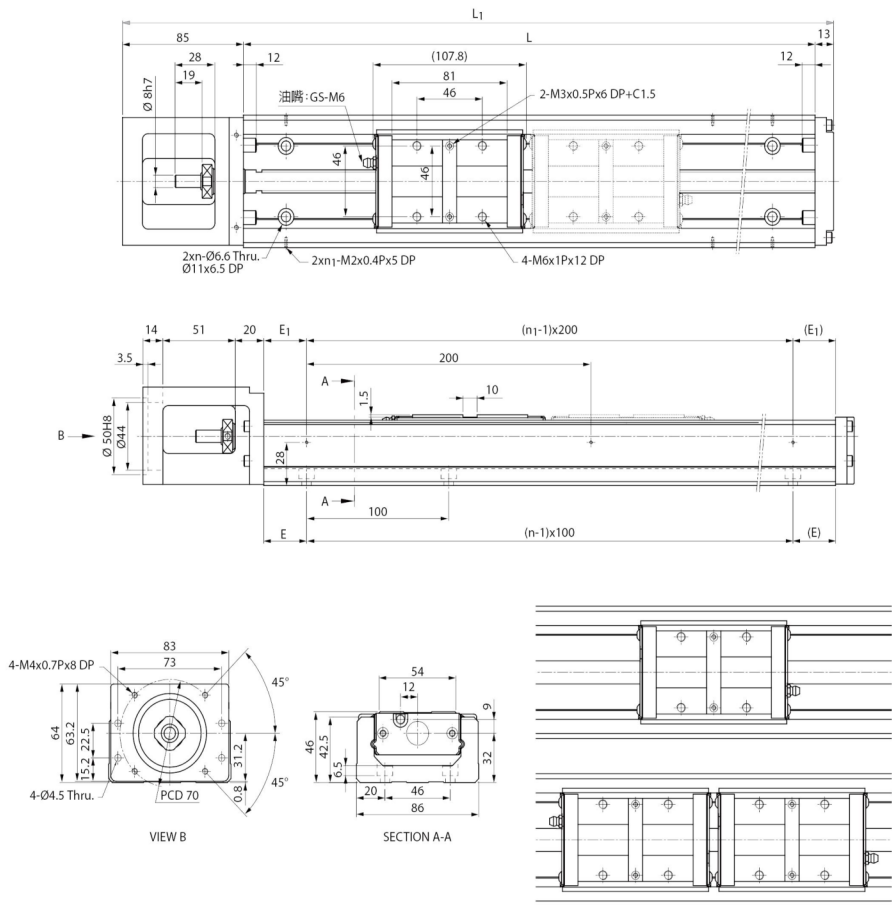
KT60 Light Duty (S Type With Cover)



Unit:mm

Rail Length L	Total Length L ₁	Max Stroke Range		Mass(KG)	
		S1Block	S2Block	S1Block	S2Block
150	220	78.8	26.6	1.68	1.93
200	270	128.8	76.6	1.99	2.24
300	370	228.8	176.6	2.62	2.87
400	470	328.8	276.6	3.26	3.51
500	570	428.8	376.6	3.99	4.24
600	670	528.8	476.6	4.64	4.89

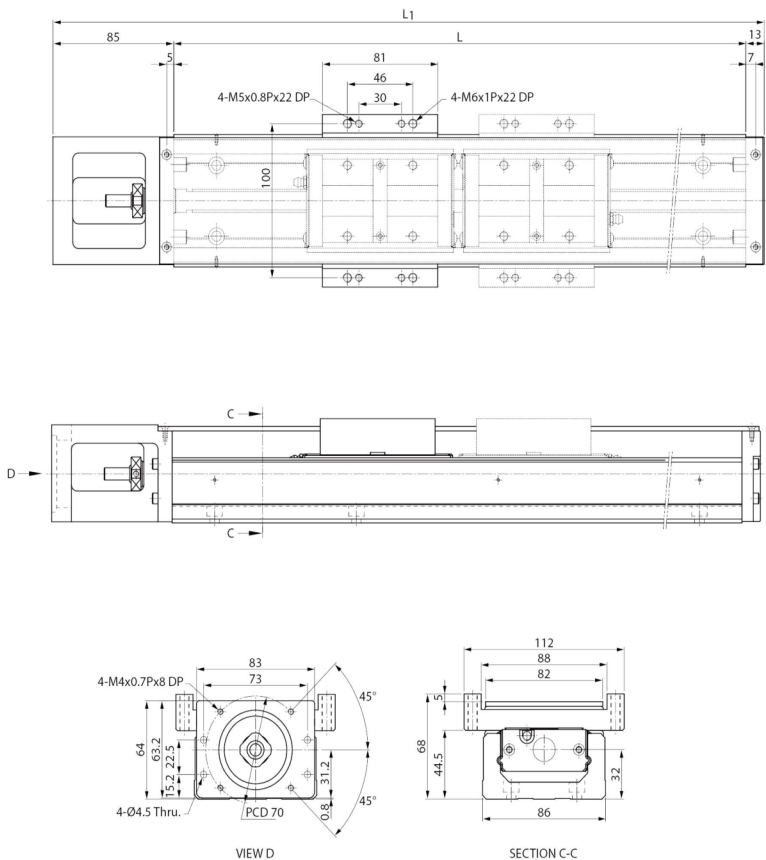
KT86 Standard (A Type Without Cover)



Unit:mm

Rail Length L	Total Length L_1	Max Stroke Range		E	n	E_1	n_1	Mass(KG)	
		A1Block	A2Block					A1Block	A2Block
340	438	208.2	100.4	70	3	70	2	7.65	8.85
440	538	308.2	200.4	70	4	20	3	8.94	10.14
540	638	408.2	300.4	70	5	70	3	10.24	11.44
640	738	508.2	400.4	70	6	20	4	11.55	12.75
740	838	608.2	500.4	70	7	70	4	12.95	14.15
940	1038	808.2	700.4	70	9	70	5	15.24	16.44

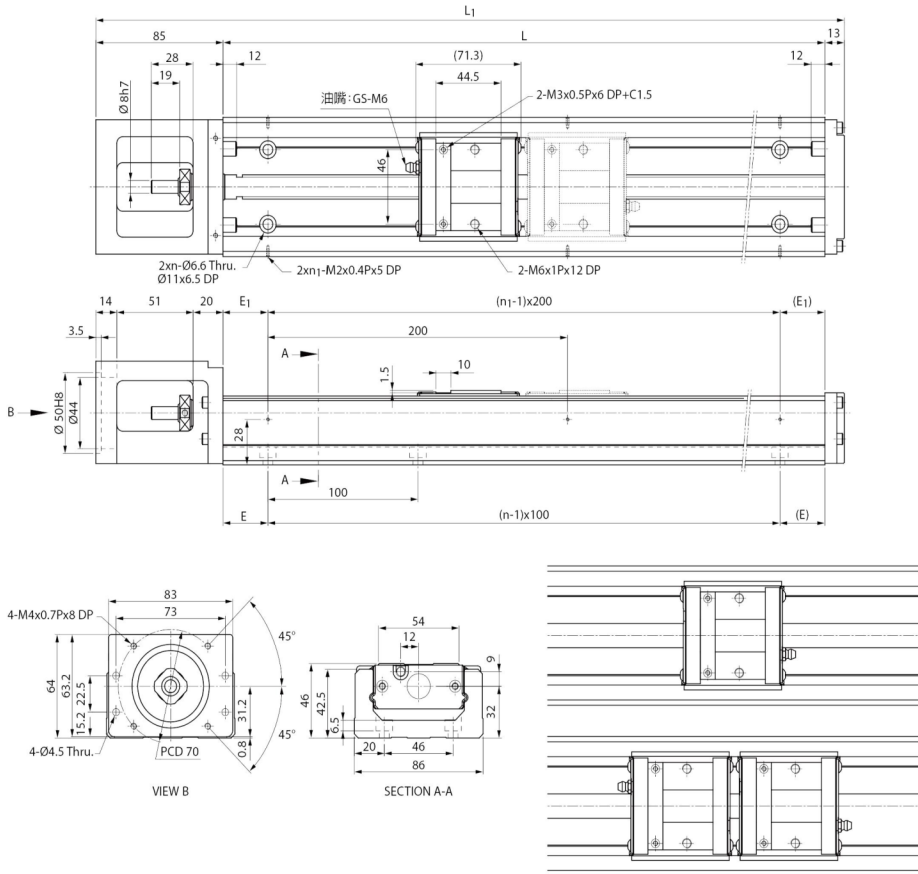
KT86 Standard (A Type With Cover)



Unit:mm

Rail Length L	Total Length L ₁	Max Stroke Range		Mass(KG)	
		A1Block	A2Block	A1Block	A2Block
340	438	208.2	100.4	8.25	9.65
440	538	308.2	200.4	9.54	10.94
540	638	408.2	300.4	10.84	12.24
640	738	508.2	400.4	12.15	13.55
740	838	608.2	500.4	13.55	14.95
940	1038	808.2	700.4	15.84	17.24

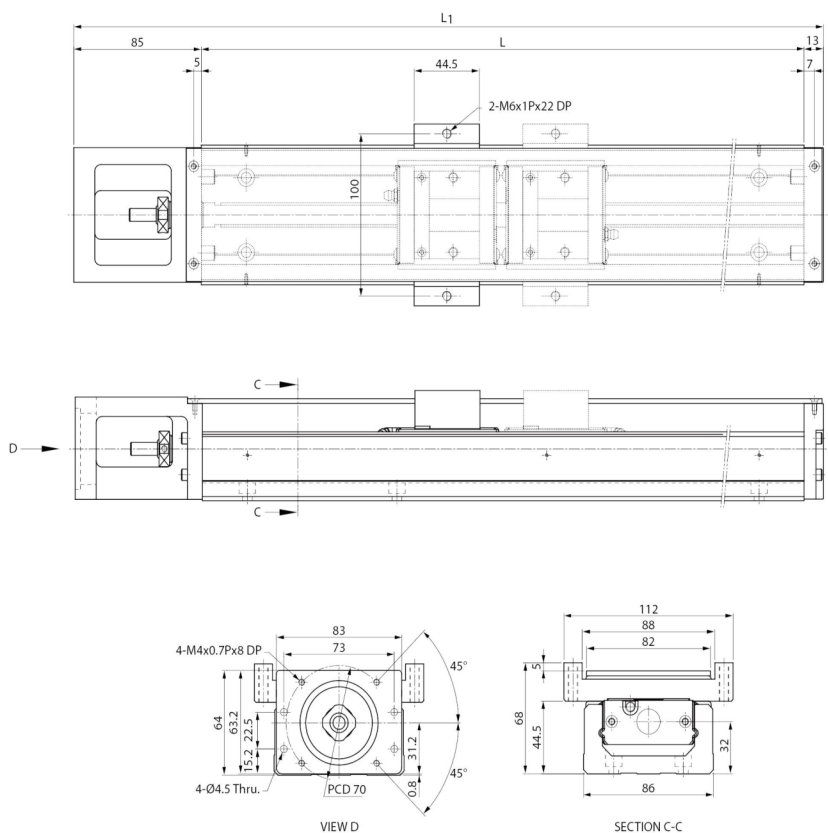
KT86 Light Duty (S Type Without Cover)



Unit:mm

Rial Length L	Total Length L ₁	Max Stroke Range		E	n	E ₁	n ₁	Mass(KG)	
		S1Block	S2Block					S1Block	S2Block
340	438	244.7	173.4	70	3	70	2	7.25	8.05
440	538	344.7	273.4	70	4	20	3	8.54	9.34
540	638	444.7	373.4	70	5	70	3	9.84	10.64
640	738	544.7	473.4	70	6	20	4	11.15	11.95
740	838	644.7	573.4	70	7	70	4	12.55	13.35
940	1038	844.7	773.4	70	9	70	5	14.84	15.64

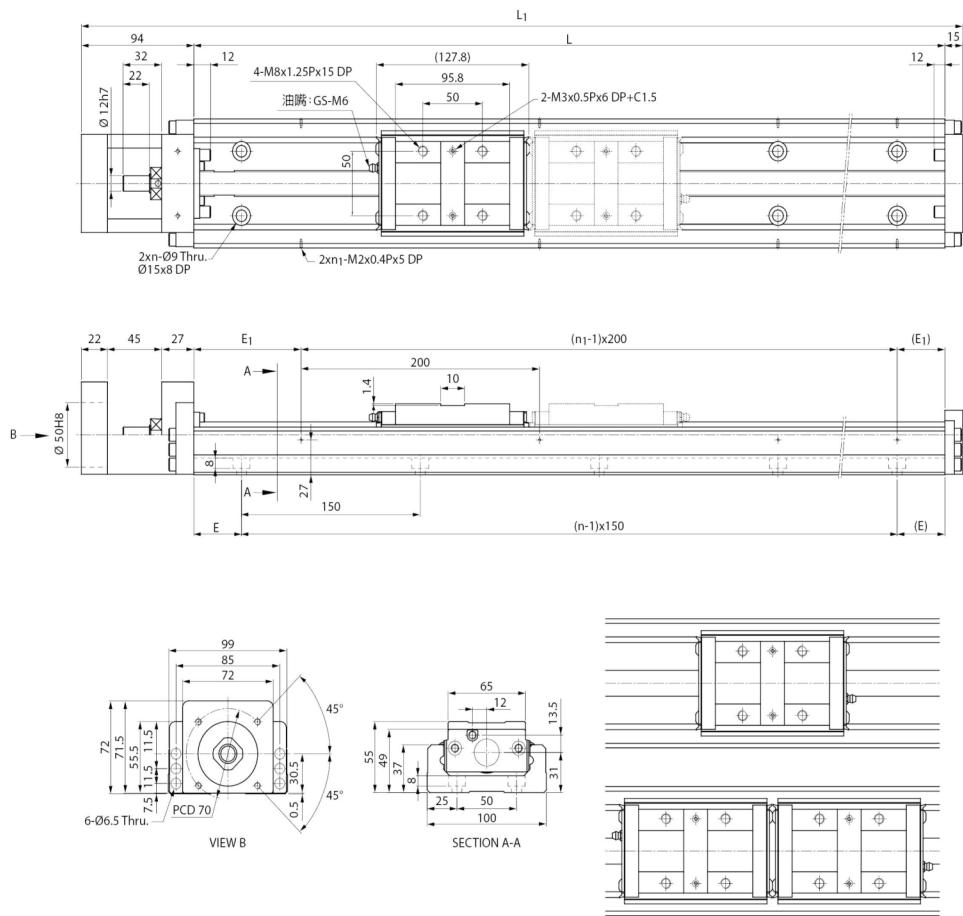
KT86 Light Duty (S Type With Cover)



Unit:mm

Rail Length L	Total Length L ₁	Max Stroke Range		Mass(KG)	
		S1Block	S2Block	S1Block	S2Block
340	438	244.7	173.4	7.45	8.45
440	538	344.7	273.4	8.74	9.74
540	638	444.7	373.4	10.04	11.04
640	738	544.7	473.4	11.35	12.35
740	838	644.7	573.4	12.75	13.75
940	1038	844.7	773.4	15.04	16.04

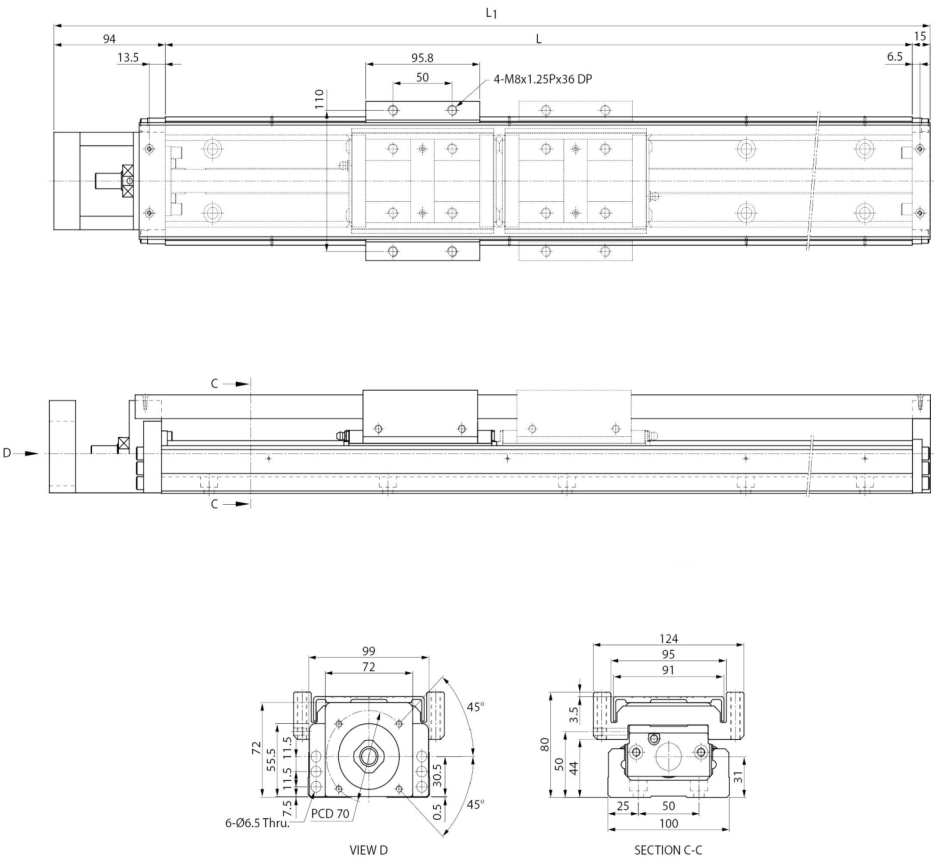
KT100 Standard (A Type Without Cover)



Unit:mm

Rail Length L	Total Length L ₁	Max Stroke Range		E	n	E ₁	n ₁	Mass(KG)	
		A1Block	A2Block					A1Block	A2Block
980	1089	828	699	40	7	90	5	19.90	21.62
1080	1189	928	799	15	8	40	6	21.63	23.35
1180	1289	1028	899	65	8	90	6	23.36	25.08
1280	1389	1128	999	40	9	40	7	25.09	26.81
1380	1489	1228	1099	15	10	90	7	26.82	28.54

KT100 Standard (A Type With Cover)



Unit:mm

Rail Length L	Total Length L_1	Max Stroke Range		Mass(KG)	
		A1Block	A2Block	A1Block	A2Block
980	1089	828	699	21.78	24.25
1080	1189	928	799	23.61	26.08
1180	1289	1028	899	25.44	27.91
1280	1389	1128	999	27.26	29.73
1380	1489	1228	1099	29.09	31.56

1. 10 Motor Housing and Motor Adaptor Flange

1. 10. 1 Motor Selection

Mikrosystem Servo Motor

Motor Output	Motor	Weight [Kg]	Flange Selection						Brake Weight [Kg]	Driver	Weight [Kg]	Remark
			KT40	KT50	KT60	KT86	KT100	KT130				
50W	HF-KP053	0.35	K1	K1	K1	K2	-	-	0.75	MR-J3S-10A	0.8	220V
100W	HF-KP13	0.56	K1	K1	K1	K2	-	-	0.89	MR-J3S-10A	0.8	220V
200W	HF-KP23	0.94	-	-	-	K0	K0	K1	1.6	MR-J3S-20A	0.8	220V
400W	HF-KP43	1.5	-	-	-	K0	K0	K1	2.1	MR-J3S-40A	1	220V
750W	HF-KP73	2.9	-	-	-	-	K1	K2	4	MR-J3S-70A	1.4	220V

Panasonic Servo Motor

Motor Output	Motor	Weight [Kg]	Flange Selection						Brake Weight [Kg]	Driver	Weight [Kg]	Remark
			KT40	KT50	KT60	KT86	KT100	KT130				
50W	MSMD5AZP1	0.32	K2	K2	K2	K3	-	-	0.53	MADDT1105	0.8	110V
50W	MSMD5AZP1	0.32	K2	K2	K2	K3	-	-	0.53	MADDT1205	0.8	220V
100W	MSMD011P1	0.47	K2	K2	K2	K3	-	-	0.68	MADDT1107	0.8	110V
100W	MSMD012P1	0.47	K2	K2	K2	K3	-	-	0.68	MADDT1205	0.8	220V
200W	MSMD021P1	0.82	-	-	-	K1	-	-	1.3	MADDT2110	1.1	110V
200W	MSMD022P1	0.82	-	-	-	K1	-	-	1.3	MADDT1207	0.8	220V
400W	MSMD041P1	1.2	-	-	-	K1	-	-	1.7	MADDT3120	1.5	110V
400W	MSMD042P1	1.2	-	-	-	K1	-	-	1.7	MADDT2210	1.1	220V
750W	MSMD082S1	2.3	-	-	-	K4	K2	K4	3.1	MADDT3520	1.5	220V

Yasukawa Servo Motor

Motor Output	Motor	Weight [Kg]	Flange Selection						Brake Weight [Kg]	Driver	Weight [Kg]	Remark
			KT40	KT50	KT60	KT86	KT100	KT130				
50W	SGMAV-A5ADA61	0.3	K1	K1	K1	K2	-	-	-	SGDV-R70A01A	0.9	with key
50W	SGMAV-A5ADA2C	0.3	K1	K1	K1	K2	-	-	-	SGDV-R70A01A	0.9	no key
50W	SGMAV-A5ADA21	0.3	K1	K1	K1	K2	-	-	0.75	SGDV-R70A01A	0.9	mid inertia
100W	SGMAV-01ADA64	0.4	K1	K1	K1	K2	-	-	0.89	SGDV-R90A01A	0.9	
200W	SGMAV-02ADA65	0.9	-	-	-	K0	K0	K1	1.6	SGDV-1R6A01A	0.9	
400W	SGMAV-04ADA66	1.2	-	-	-	K0	K0	K1	2.1	SGDV-2R8A01A	1	
750W	SGMAV-08ADA67	2.6	-	-	-	-	K1	K2	4	SGDV-5R5A01A	1.5	

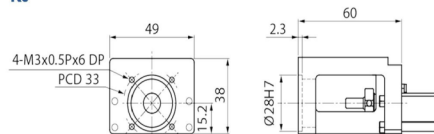
Oriental Servo Motor

Series	Model	Flange Selection						Motor	Weight [Kg]	Built in Driver	Weight [Kg]
		KT40	KT50	KT60	KT86	KT100	KT130				
CSK 2 Phase	CSK243-AP	K3	K3	K5	-	-	-	PK243-01A	0.21	CSD2109-P	0.12
	CSK244-AP	K3	K3	K5	-	-	-	PK244-01A	0.27	CSD2112-P	0.12
	CSK245-AP	K3	K3	K5	-	-	-	PK245-01A	0.35	CSD2112-P	0.12
	CSK264-AP	-	-	K4	K6	-	-	PK264-02A	0.45	CSD2120-P	0.12
	CSK266-AP	-	-	K4	K6	-	-	PK266-02A	0.7	CSD2120-P	0.12
	CSK268-AP	-	-	K4	K6	-	-	PK268-02A	1	CSD2120-P	0.12
	CSK296-AP	-	-	-	-	K4	K3	PK296-03A	1.7	CSD2145P	0.2
	CSK299-AP	-	-	-	-	K4	K3	PK299-03A	2.8	CSD2145P	0.2
	CSK2913-AP	-	-	-	-	K4	K3	PK2913-02A	3.8	CSD2140P	0.2
CFKII 5 Phase micro Stepping	CFK543AP2	K3	K3	K5	-	-	-	PK543NAW	0.21	DFC5107P	0.2
	CFK544AP2	K3	K3	K5	-	-	-	PK544NAW	0.27	DFC5107P	0.2
	CFK545AP2	K3	K3	K5	-	-	-	PK545NAW	0.35	DFC5107P	0.2
	CFK564AP2	-	-	-	K5	-	-	PK564NAW	0.6	DFC5114P	0.2
	CFK566AP2	-	-	-	K5	-	-	PK566NAW	0.8	DFC5114P	0.2
	CFK569AP2	-	-	-	K5	-	-	PK569NAW	1.3	DFC5114P	0.2
	CFK566HAP2	-	-	-	K5	-	-	PK566HNAW	0.8	DFC5128P	0.22
	CFK569HAP2	-	-	-	K5	-	-	PK569HNAW	1.3	DFC5128P	0.22
	CFK596HAP2	-	-	-	-	K3	-	PK596HNAW	1.7	DFC5128P	0.22
	CFK599HAP2	-	-	-	-	K3	-	PK599HNAW	2.8	DFC5128P	0.22
	CFK5913HAP2	-	-	-	-	K3	-	PK5913HNAW	3.8	DFC5128P	0.22
UMK 2 Phase	UMK243A	K3	K3	K5	-	-	-	PK243-01	0.21	UDK2109	0.47
	UMK244A	K3	K3	K5	-	-	-	PK244-01	0.27	UDK2112	0.47
	UMK245A	K3	K3	K5	-	-	-	PK245-01	0.35	UDK2112	0.47
	UMK264A	-	-	K4	K6	-	-	PK264-02	0.45	UDK2120	0.47
	UMK266A	-	-	K4	K6	-	-	PK266-02	0.7	UDK2120	0.47
	UMK268A	-	-	K4	K6	-	-	PK268-02	1	UDK2120	0.47
RK 5 Phase	RK543AA	K3	K3	K5	-	-	-	PK543W	0.25	RKD507-A	0.4
	RK544AA	K3	K3	K5	-	-	-	PK544W	0.3	RKD507-A	0.4
	RK545AA	K3	K3	K5	-	-	-	PK545W	0.4	RKD507-A	0.4
	RK566AA	-	-	-	K5	-	-	PK566W	0.8	RKD514L-A	0.85
	RK569AA	-	-	-	K5	-	-	PK569W	1.3	RKD514L-A	0.85
	RK596AA	-	-	-	-	K3	-	PK596W	1.7	RKD514H-A	0.85
	RK599AA	-	-	-	-	K3	-	PK599W	2.8	RKD514H-A	0.85
	RK5913AA	-	-	-	-	K3	-	PK5913W	3.8	RKD514H-A	0.85

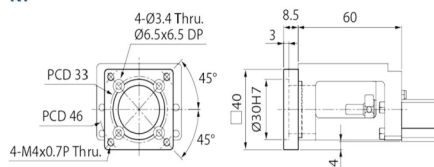
Motor Housing and Motor Adaptor Flange

KT50

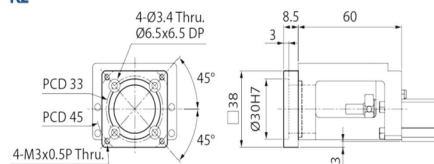
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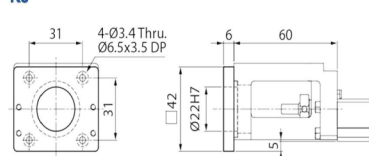
K1



K2

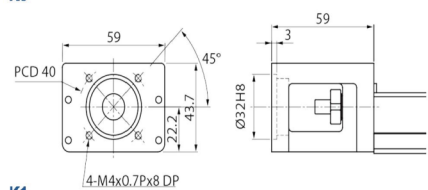


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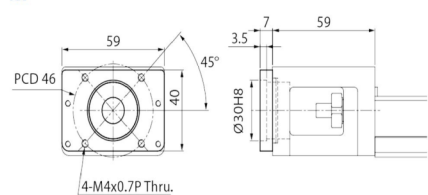


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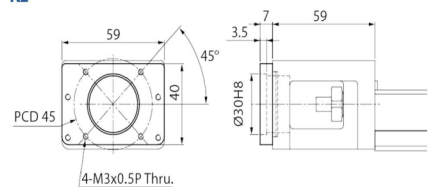
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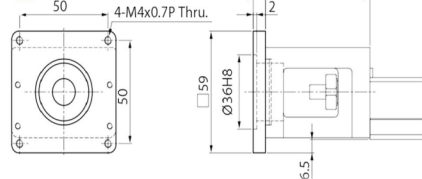
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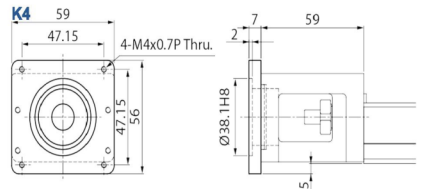
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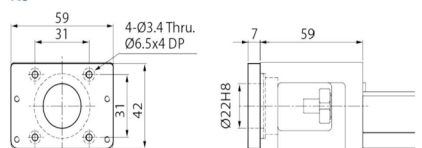
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K4

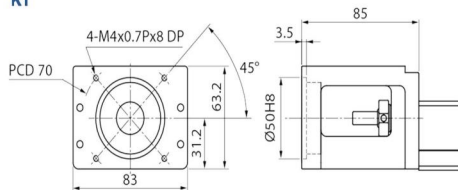


K5

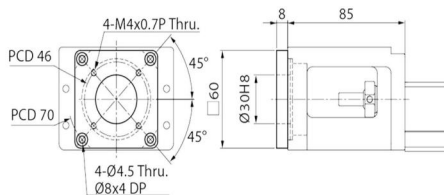


KT86

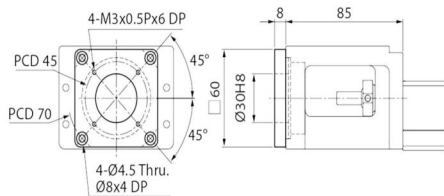
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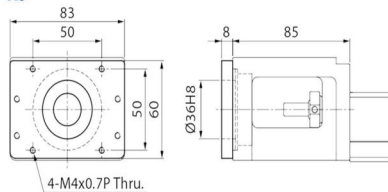
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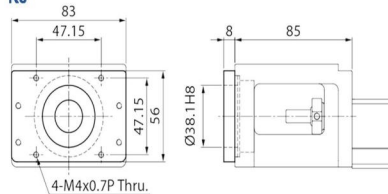
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K5

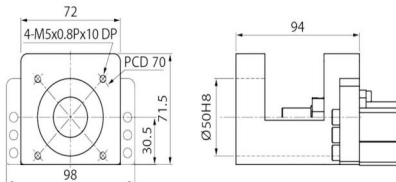


K6

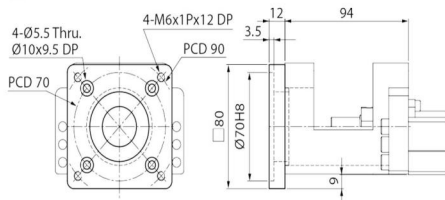


KT100

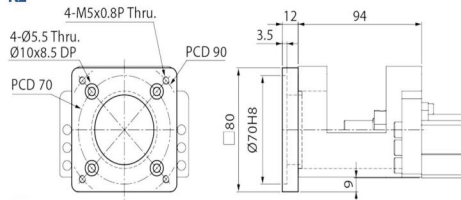
K0



K1



K2



K3

