

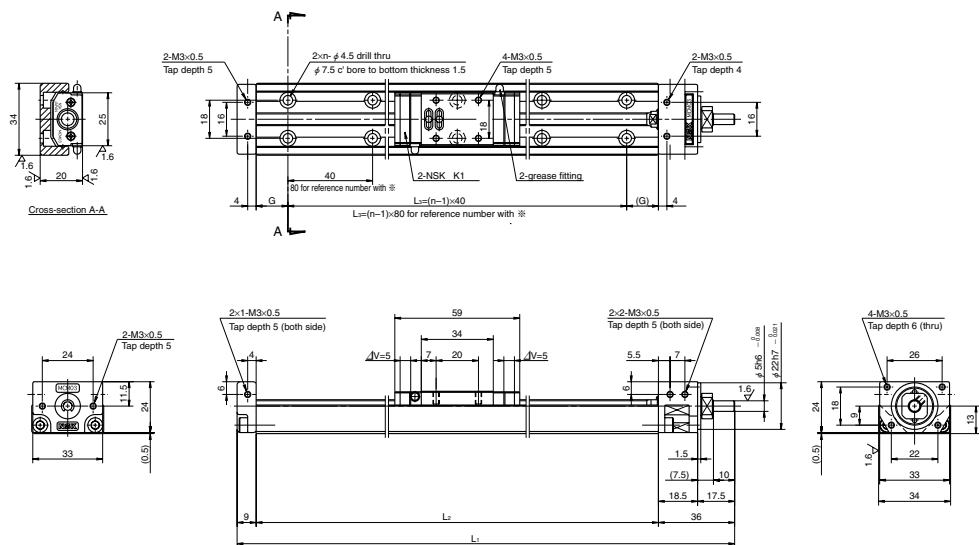


1	MCM Series Reference Number Coding	C23
2	MCM Series dimension table of standard products	
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MCM Series

MCM03

Ball screw lead 1 and 2



Dimension of MCM03 (Single slider)

 ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)				No. of mounting hole <i>n</i>	Inertia $\times 10^{-5}$ (kg · m ²)	Mass (kg)
				L ₁	L ₂	G	L ₃			
※MCM03005P01K00	50	56	1	160	115	17.5	80	2	0.015	0.6
※MCM03005P02K00		(66)	2							
MCM03010P01K00	100	131	1	235	190	15	160	5	0.021	0.7
MCM03010P02K00		(141)	2							
★MCM03015P01K00	150	181	1	285	240	20	200	6	0.025	0.8
★MCM03015P02K00		(191)	2							

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.
Bolt hole pitch L₃ on the items marked with ※ is 80 mm.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	1	0.2~1.7
	2	

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.
4. Optional spacer is required, when I put cover unit, sensor unit or the both together in ball screw lead of 1 and 2mm (See page C39).
5. Stroke limit = stroke + (3[margin] × 2)

Basic load rating

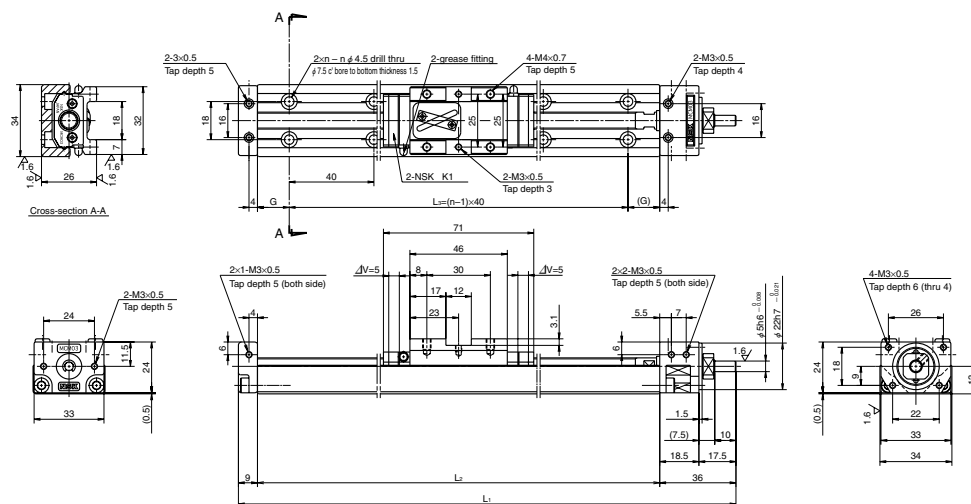
Lead <i>l</i> (mm)	Shaft dia <i>d</i> (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw <i>C_a</i>	linear guides <i>C</i>	Support unit <i>C_s</i>	Rated running distance <i>L_a</i> (km)	Ball screw <i>C_{0a}</i>	Linear guides <i>C₀</i>	
1	φ 6	735	10900	2670	1	1230	4900	1040
2		735	8650		2			

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	RollingM _{RO}	PitchingM _{PO}	YawingM _{YO}
Single	68	28	28

MCM03

Ball screw lead 10 and 12



Dimension of MCM03 (Single slider)

 ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)				No. of mounting hole <i>n</i>	Inertia $\times 10^{-5}$ (kg · m ²)	Mass (kg)
				L ₁	L ₂	G	L ₃			
MCM03010H10K00	100	119	10	235	190	15	160	5	0.092	0.7
MCM03010H12K00		(129)	12							
★MCM03015H10K00	150	169	10	285	240	20	200	6	0.105	0.8
★MCM03015H12K00		(179)	12							
MCM03020H10K00	200	219	10	335	290	25	240	7	0.118	0.9
★MCM03020H12K00		(229)	12							
★MCM03025H10K00	250	269	10	385	340	30	280	8	0.131	1.0
★MCM03025H12K00		(279)	12							

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	10	0.3~3.0
	12	

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.
4. Stroke limit = stroke + (9.5[margin] × 2)

Basic load rating

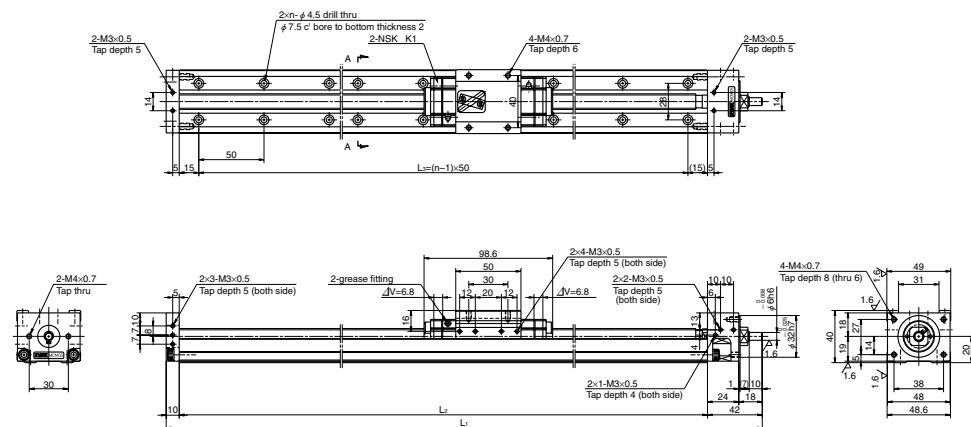
Lead <i>l</i> (mm)	Shaft dia <i>d</i> (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw <i>C_a</i>	linear guides <i>C</i>	Support unit <i>C_s</i>	Rated running distance <i>L_a</i> (km)	Ball screw <i>C_{0a}</i>	Linear guides <i>C₀</i>	
10	φ 8	1230	6250	2670	10	1690	6620	1040
12		1230	5880		12			

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	RollingM _{RO}	PitchingM _{PO}	YawingM _{YO}
Single	92	51	51

MCM05

Accuracy grade: High grade (H)



Dimension of MCM05 (Single slider)

 ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)			No. of mounting hole n	Inertia $\times 10^{-4}$ (kg · m ²)	Mass (kg)
				L_1	L_2	L_3			
MCM05005H05K00	50	80	5	232	180	150	4	0.025	1.4
MCM05005H10K00		(95)	10					0.035	
MCM05010H05K00	100	130	5	282	230	200	5	0.031	1.6
MCM05010H10K00		(145)	10					0.040	
★ MCM05015H05K00	150	180	5	332	280	250	6	0.036	1.8
MCM05015H10K00		(195)	10					0.046	
MCM05020H05K00	200	230	5	382	330	300	7	0.042	2.0
MCM05020H10K00		(245)	10					0.051	
MCM05025H10K00	250	280 (295)	10	432	380	350	8	0.057	2.2
MCM05030H10K00	300	330	10	482	430	400	9	0.063	2.3
MCM05030H20K00		(345)	20					0.101	
MCM05040H10K00	400	430	10	582	530	500	11	0.074	2.7
MCM05040H20K00		(445)	20					0.112	
MCM05050H10K00	500	530	10	682	630	600	13	0.085	3.1
MCM05050H20K00		(545)	20					0.123	
MCM05060H10K00	600	630	10	782	730	700	15	0.096	3.5
MCM05060H20K00		(645)	20					0.134	

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	5	1.0~4.8
	10	1.1~5.8
	20	1.6~7.9

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.
4. Stroke limit = stroke + (15[margin] × 2)

Basic load rating

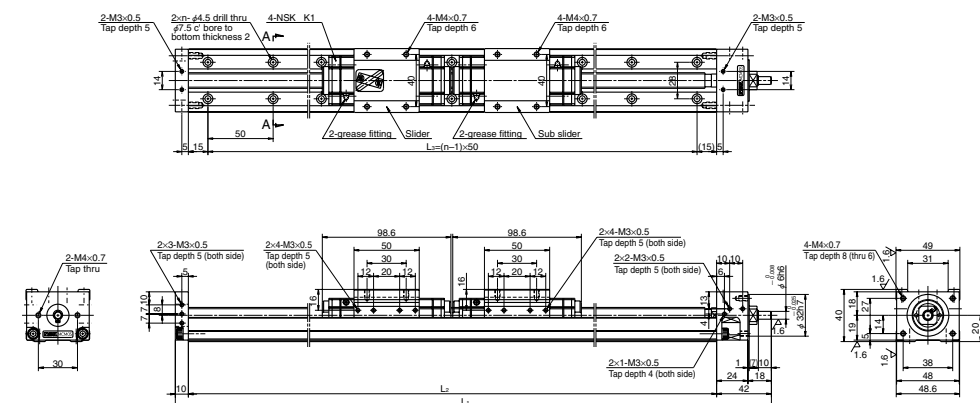
Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
5	$\phi 12$	3760	15600	4400	5	6310	10900	1450
10		2260	12400		10	3780		
20		2260	9850		20	3780		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Single	229	89	89

MCM05 (Double slider)

Accuracy grade: High grade (H)



Dimension of MCM05 (Double slider)

 ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)			No. of mounting hole n	Inertia $\times 10^{-4}$ (kg · m ²)	Mass (kg)
				L_1	L_2	L_3			
★ MCM05006H10D00	60	83 (110)	10	332	280	250	6	0.058	2.3
★ MCM05011H10D00	110	133 (160)	10	382	330	300	7	0.064	2.5
★ MCM05016H10D00	160	183 (210)	10	432	380	350	8	0.070	2.7
★ MCM05021H10D00	210	233	10	482	430	400	9	0.075	2.8
★ MCM05021H20D00		(260)	20					0.151	
★ MCM05031H10D00	310	333	10	582	530	500	11	0.086	3.2
★ MCM05031H20D00		(360)	20					0.162	
★ MCM05041H10D00	410	433	10	682	630	600	13	0.098	3.6
★ MCM05041H20D00		(460)	20					0.174	
★ MCM05051H10D00	510	533	10	782	730	700	15	0.109	4.2
★ MCM05051H20D00		(560)	20					0.185	

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	10	1.5~ 7.6
	20	2.3~11.8

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.
4. Stroke limit = stroke + (11.4[margin] × 2)

Basic load rating

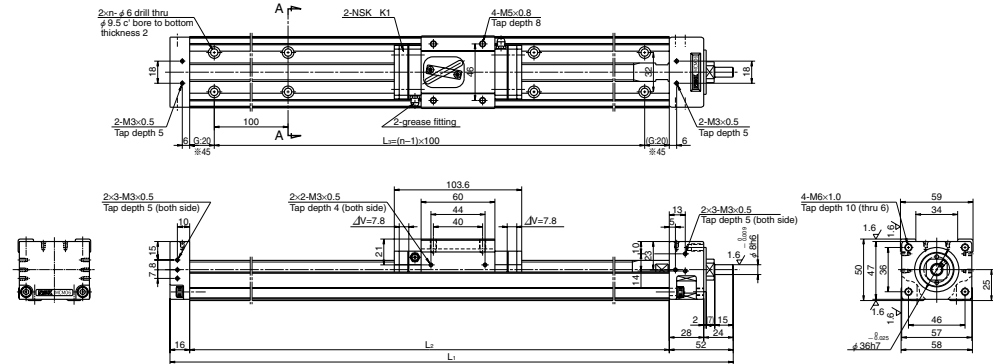
Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
5	$\phi 12$	3760	15600	4400	5	6310	10900	1450
10		2260	12400		10	3780		
20		2260	9850		20	3780		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Double	455	765	765

MCM06

Accuracy grade: High grade (H)



Dimension of MCM06 (Single slider)

ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)			No. of mounting hole <i>n</i>	Inertia ×10 ⁴ (kg · m ²)	Mass (kg)
				L ₁	L ₂	L ₃			
※MCM06005H05K00	50	85	5	258	190	100	2	0.083	2.7
★MCM06005H10K00		(102)	10					0.077	
MCM06010H05K00	100	135	5	308	240	200	3	0.103	3.0
MCM06010H10K00		(152)	10					0.092	
MCM06020H05K00	200	235	5	408	340	300	4	0.142	3.8
MCM06020H10K00		(252)	10					0.121	
MCM06030H05K00	300	335 (352)	5	508	440	400	5	0.180	4.5
MCM06030H10K00			10					0.150	
MCM06030H20K00			20					0.196	
MCM06040H05K00	400	435 (452)	5	608	540	500	6	0.219	5.2
MCM06040H10K00			10					0.180	
MCM06040H20K00			20					0.225	
★MCM06050H05K00			5					0.258	
MCM06050H10K00	500	535 (552)	10	708	640	600	7	0.209	6.0
MCM06050H20K00			20					0.255	
★MCM06060H10K00	600	635 (652)	10	808	740	700	8	0.239	6.7
★MCM06060H20K00			20					0.284	
MCM06070H10K00	700	735 (752)	10	908	840	800	9	0.268	7.4
MCM06070H20K00			20					0.314	
★MCM06080H10K00	800	835 (852)	10	1008	940	900	10	0.298	8.1
★MCM06080H20K00			20					0.343	

Dimension G is 45 for those marked with ✖.

Items not marked are available from standard stock.

Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	5	1.9~ 7.4
	10	2.2~ 8.6
	20	2.8~11.0

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.
4. Stroke limit = stroke + (17.5[margin] × 2)

Basic load rating

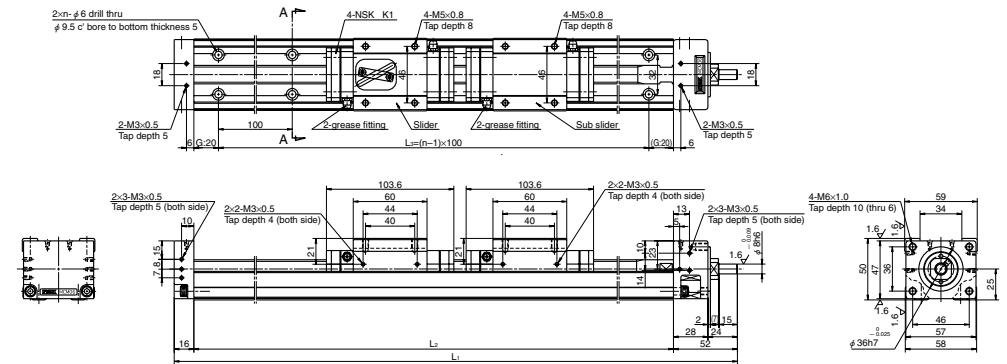
Lead	Shaft dia	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
ℓ (mm)	d (mm)	Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
5	$\phi 16$	7310	25200	6550	5	13500	17000	2730
10	$\phi 15$	7060	20000		10	12700		
20		4560	15900		20	7750		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Single	415	174	174

MCM06 (Double slider)

Accuracy grade: High grade (H)



Dimension of MCM06 (Double slider)

ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)			No. of mounting hole <i>n</i>	Inertia ×10 ⁻⁴ (kg · m ²)	Mass (kg)
				<i>L</i> ₁	<i>L</i> ₂	<i>L</i> ₃			
★MCM06011H05D00	110	133	5	408	340	300	4	0.145	4.4
★MCM06011H10D00		(164)	10					0.136	
★MCM06021H05D00	210	233 (264)	5	508	440	400	5	0.184	5.1
★MCM06021H10D00			10					0.166	
★MCM06021H20D00			20					0.257	
★MCM06031H05D00			5					0.223	
★MCM06031H10D00	310	333 (364)	10	608	540	500	6	0.195	5.8
★MCM06031H20D00			20					0.286	
★MCM06041H05D00			5					0.262	
★MCM06041H10D00	410	433 (464)	10	708	640	600	7	0.224	6.6
★MCM06041H20D00			20					0.316	
★MCM06051H10D00			510					533 (564)	
★MCM06051H20D00	20	0.345							
★MCM06061H10D00	610	633 (664)		10	908	840	800		9
★MCM06061H20D00			20	0.375					
★MCM06071H10D00			710	733 (764)				10	
★MCM06071H20D00	20	0.404							

Items not marked are available from standard stock.

Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	5	2.3~ 8.5
	10	2.7~10.9
	20	4.0~15.9

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.
4. Stroke limit = stroke + (11.4[margi]n × 2)

Basic load rating

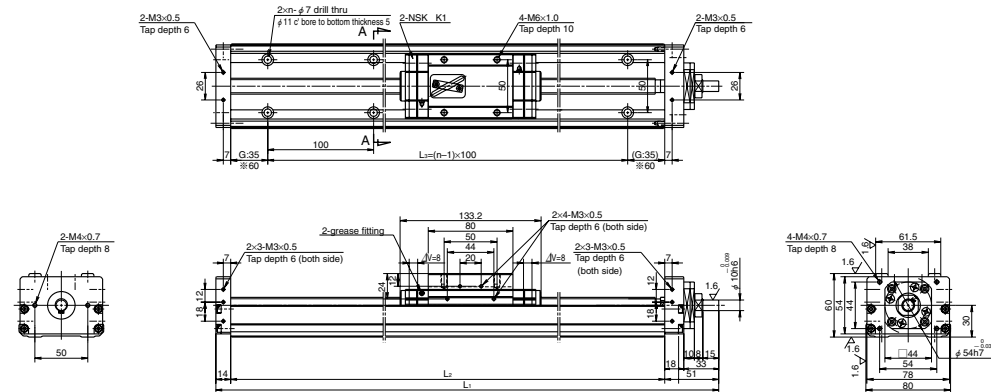
Lead	Shaft dia	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
ℓ (mm)	d (mm)	Ball screw C_a	linear guides C	Support unit C_o	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
5	$\phi 16$	7310	25200	6550	5	13500	17000	2730
10	$\phi 15$	7060	20000		10	12700		
20		4560	15900		20	7750		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Double	825	1220	1220

MCM08

Accuracy grade: High grade (H)



Dimension of MCM08 (Single slider)

 ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)			No. of mounting hole n	Inertia $\times 10^{-4}$ (kg · m ²)	Mass (kg)
				L_1	L_2	L_3			
★※MCM08005H05K00	50	85 (101)	5	285	220	100	2	0.101	4.1
★ MCM08010H05K00	100	135	5	335	270	200	3	0.120	4.6
MCM08010H10K00		(151)	10					0.114	
★※MCM08015H05K00	150	185 (201)	5	385	320	200	3	0.139	5.1
★ MCM08020H05K00	200	235	5	435	370	300	4	0.159	5.5
MCM08020H10K00		(251)	10					0.144	
MCM08030H10K00	300	335	10	535	470	400	5	0.173	6.5
MCM08030H20K00		(351)	20					0.249	
MCM08040H10K00	400	435	10	635	570	500	6	0.203	7.4
MCM08040H20K00		(451)	20					0.279	
MCM08050H10K00	500	535	10	735	670	600	7	0.232	8.4
MCM08050H20K00		(551)	20					0.308	
MCM08060H10K00	600	635	10	835	770	700	8	0.262	9.3
MCM08060H20K00		(651)	20					0.338	
★ MCM08070H10K00	700	735	10	935	870	800	9	0.291	10.5
★ MCM08070H20K00		(751)	20					0.367	
★ MCM08080H10K00	800	835	10	1035	970	900	10	0.320	11.2
★ MCM08080H20K00		(851)	20					0.396	

Dimension G is 60 for those marked with ※.

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	5	1.0~ 5.9
	10	2.0~ 7.8
	20	2.5~10.8

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.
4. Stroke limit = stroke + (17.5[margin] × 2)

Basic load rating

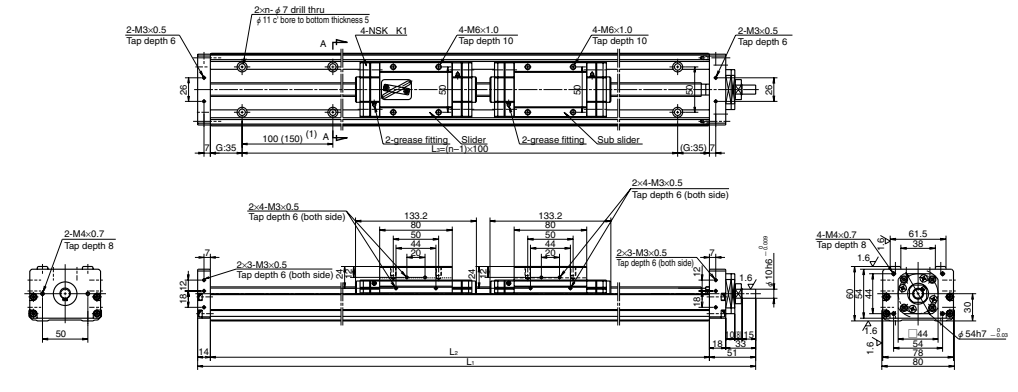
Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
5	$\phi 16$	7310	30800	7100	5	13500	22800	3040
10	$\phi 15$	7060	24400		10	12700		
20		4560	19400		20	7750		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Single	770	300	300

MCM08 (Double slider)

Accuracy grade: High grade (H)



Dimension of MCM08 (Double slider)

 ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)			No. of mounting hole n	Inertia $\times 10^{-4}$ (kg · m ²)	Mass (kg)
				L_1	L_2	L_3			
★●MCM08008H10D00	80	104 (136)	10	435	370	300	3	0.169	6.5
★ MCM08018H10D00	180	204	10	535	470	400	5	0.199	7.5
★ MCM08018H20D00		(236)	20					0.351	
★ MCM08028H10D00	280	304	10	635	570	500	6	0.228	8.4
★ MCM08028H20D00		(336)	20					0.380	
★ MCM08038H10D00	380	404	10	735	670	600	7	0.257	9.4
★ MCM08038H20D00		(436)	20					0.409	
★ MCM08048H10D00	480	504	10	835	770	700	8	0.287	10.3
★ MCM08048H20D00		(536)	20					0.439	
★ MCM08058H10D00	580	604	10	935	870	800	9	0.316	11.5
★ MCM08058H20D00		(636)	20					0.468	
★ MCM08068H10D00	680	704	10	1035	970	900	10	0.346	12.2
★ MCM08068H20D00		(736)	20					0.498	

Dimension (1) is 150mm for those marked with ●.

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	10	2.5~10.8
	20	4.0~17.2

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.
4. Stroke limit = stroke + (11.8[margin] × 2)

Basic load rating

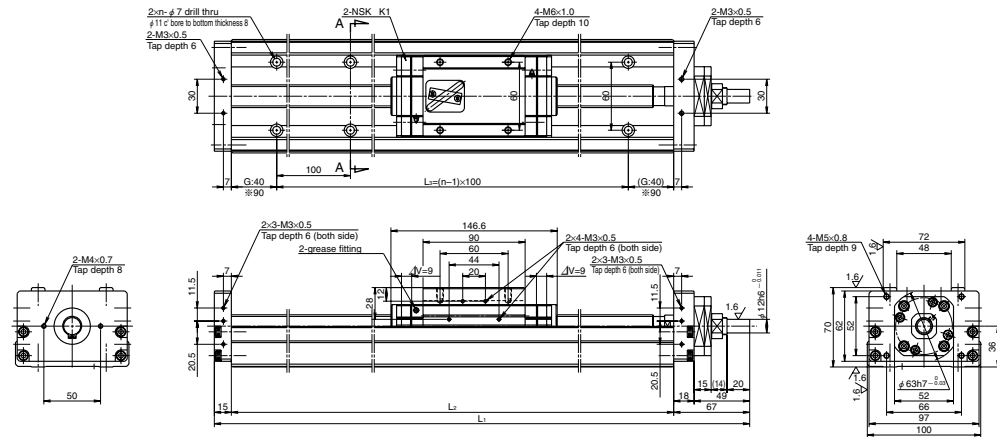
Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
5	$\phi 16$	7310	30800	7100	5	13500	22800	3040
10	$\phi 15$	7060	24400		10	12700		
20		4560	19400		20	7750		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Double	1540	2050	2050

MCM10

Accuracy grade: High grade (H)



Dimension of MCM10 (Single slider)

 ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)			No. of mounting hole n	Inertia $\times 10^{-4} \text{ (kg} \cdot \text{m}^2)$	Mass (kg)
				L_1	L_2	L_3			
MCM10020H10K00	200	230 (251)	10	462	380	300	4	0.425	9.5
MCM10030H10K00	300	330	10	562	480	400	5	0.519	11.2
MCM10030H20K00		(351)	20					0.633	
MCM10040H10K00	400	430	10	662	580	500	6	0.612	13.0
MCM10040H20K00		(451)	20					0.726	
★ MCM10050H10K00	500	530	10	762	680	600	7	0.706	14.6
★ MCM10050H20K00		(551)	20					0.820	
MCM10060H10K00	600	630	10	862	780	700	8	0.800	16.3
MCM10060H20K00		(651)	20					0.914	
★ MCM10070H10K00	700	730	10	962	880	800	9	0.893	18.0
★ MCM10070H20K00		(751)	20					1.007	
MCM10080H10K00	800	830	10	1062	980	900	10	0.987	19.7
★ MCM10080H20K00		(851)	20					1.101	
★ MCM10090H10K00	900	930	10	1162	1080	1000	11	1.081	21.4
★ MCM10090H20K00		(951)	20					1.195	
★※ MCM10100H10K00	1000	1030	10	1262	1180	1000	11	1.174	23.1
★※ MCM10100H20K00		(1051)	20					1.288	

Dimension G is 90 for those marked with ※.

Items not marked are available from standard stock.

Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	10	2.7~10.8
	20	3.1~12.7

- Frictional resistance of NSK K1 is included in the dynamic torque in the table.
- Grease is packed into ball screw, linear guide parts and support unit.
- Consult NSK for life estimates under large moment loads.
- Stroke limit = stroke + (15[margin] × 2)

Basic load rating

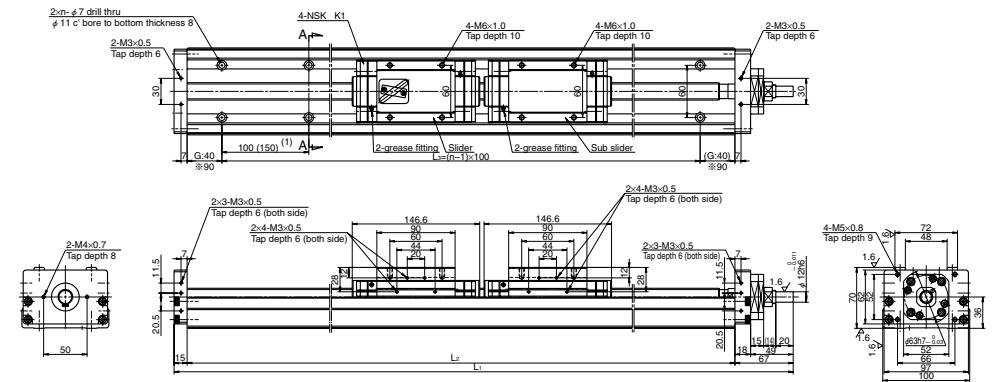
Lead l (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_s	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
10	$\phi 20$	10900	33500	7600	10	21700	29400	3380
20		7060	26600		20	12700		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Single	1170	425	425

MCM10 (Double slider)

Accuracy grade: High grade (H)



Dimension of MCM10 (Double slider)

 ΔV is thickness of NSK K1

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)			No. of mounting hole n	Inertia $\times 10^{-4} \text{ (kg} \cdot \text{m}^2)$	Mass (kg)
				L_1	L_2	L_3			
★● MCM10007H10D00	70	86 (122)	10	462	380	300	3	0.463	11.0
★ MCM10017H10D00	170	186	10	562	480	400	5	0.557	12.7
★ MCM10017H20D00		(222)	20					0.785	
★ MCM10027H10D00	270	286	10	662	580	500	6	0.650	13.4
★ MCM10027H20D00		(322)	20					0.878	
★ MCM10037H10D00	370	386	10	762	680	600	7	0.744	15.1
★ MCM10037H20D00		(422)	20					0.972	
★ MCM10047H10D00	470	486	10	862	780	700	8	0.838	17.8
★ MCM10047H20D00		(522)	20					1.066	
★ MCM10057H10D00	570	586	10	962	880	800	9	0.931	19.5
★ MCM10057H20D00		(622)	20					1.159	
★ MCM10067H10D00	670	686	10	1062	980	900	10	1.025	21.2
★ MCM10067H20D00		(722)	20					1.253	
★※ MCM10087H10D00	870	886	10	1262	1180	1000	11	1.212	23.6
★※ MCM10087H20D00		(922)	20					1.440	

Dimension G is 90 for those marked with ※.

Items not marked are available from standard stock.

Dimension (1) is 150mm for those marked with ●.

Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	10	4.2~15.6
	20	5.0~19.6

- Frictional resistance of NSK K1 is included in the dynamic torque in the table.
- Grease is packed into ball screw, linear guide parts and support unit.
- Consult NSK for life estimates under large moment loads.
- Stroke limit = stroke + (8.4[margin] × 2)

Basic load rating

Lead l (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_s	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
10	$\phi 20$	10900	33500	7600	10	21700	29400	3380
20		7060	26600		20	12700		

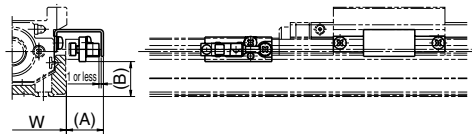
Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Double	2340	2940	2940

C-II-3 MCM Series Option Part

C-II-3.1 Sensor Unit

●Proximity switch



(Example of assembly)

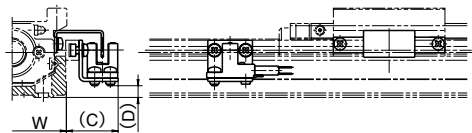
Type	Reference number			Dimension (A) (mm)	Dimension (B) (mm)	Body width W (mm)
MCM02	MC-SR02-00	MC-SR02-01	MC-SR02-02	17	2	28
MCM03	MC-SR03-10	MC-SR03-11	MC-SR03-12	17	3	34
MCM05	MC-SR05-10	MC-SR05-11	MC-SR05-12	17	15	48.6
MCM06	MC-SR06-10	MC-SR06-11	MC-SR06-12	17	19	58
MCM08	MC-SR08-10	MC-SR08-11	MC-SR08-12	16	27	80
MCM10	MC-SR10-10	MC-SR10-11	MC-SR10-12	16	35	100
quantity	Proximity switch (a-contact)	—	3	1	E2S-W13(OMRON Corp.)	
	Proximity switch (b-contact)	3	—	2	E2S-W14(OMRON Corp.)	

*See page C19 for specification of proximity switch

A sensor unit consists of sensors, a sensor dog and sensor mounring parts.

You require an optional spacer plate when you use a cover unit or a sensor unit for an MCM03 with the lead of 1 or 2 mm. (Refer to page C39.)

●Photo sensor



(Example of assembly)

Type	Reference number	Dimension (C) (mm)	Dimension (D) (mm)	Body width W (mm)	Remarks
MCM03	MC-SR03-13	24	0.5	34	EE-SX674(OMRON Corp.) 3 sets (EE-1001 connector attachment)
MCM05	MC-SR05-13	24	5	48.6	
MCM06	MC-SR06-13	24	9	58	
MCM08	MC-SR08-13	23	17	80	
MCM10	MC-SR10-13	22	24	100	

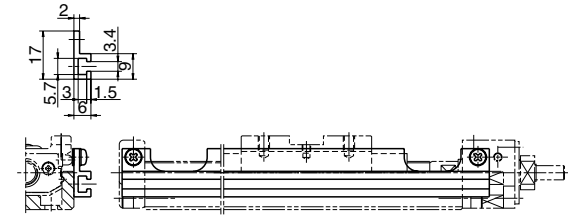
*See page C20 for specification of photo sensor

A sensor unit consists of sensors, a sensor dog and sensor mounring parts.

You require an optional spacer plate when you use a cover unit or a sensor unit for an MCM03 with the lead of 1 or 2 mm. (Refer to page C39.)

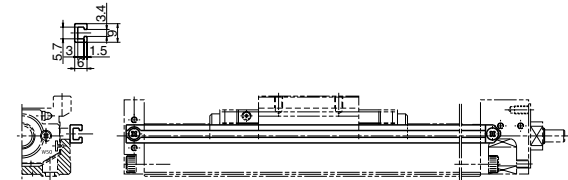
(1) Sensor rail

Sensor rail for MCM03: MC-SRL3- * * * *



(Example of assembly)

Sensor rail for MCM05: MC-SRL5- * * * *



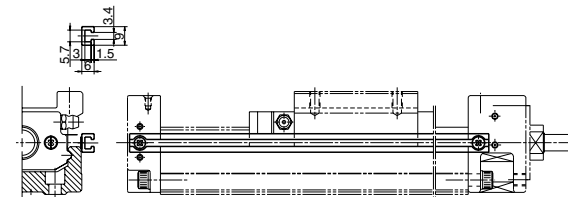
(Example of assembly)

Sensor rail for MCM02: MC-SRL2- * * * *

Sensor rail for MCM06: MC-SRL6- * * * *

Sensor rail for MCM08: MC-SRL8- * * * *

Sensor rail for MCM10: MC-SRL1- * * * *



(Example of assembly)

* * * * is the same as rail dimension L₂

Please place and assemble the seat during the attachment between the sensor rail and the support unit attaching part for MCM03 and MCM06.

Body of MCM Series and Sensor rail combination Table

Table 2-4

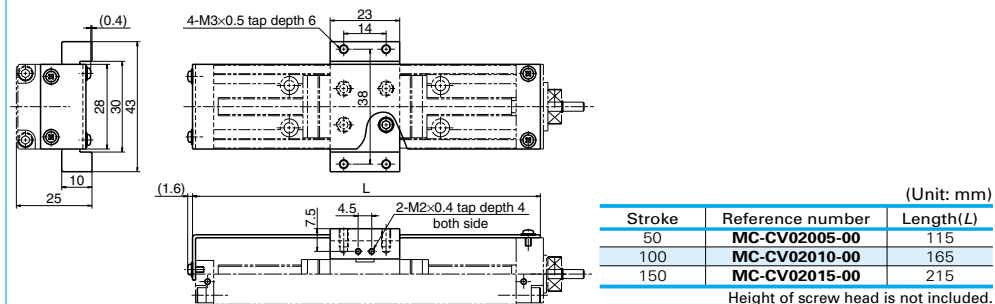
Nominal size	Body length L ₂ (mm)	Reference number	Sensor rail reference number
MCM02	100	MCM02005H01K	MC-SRL2-0100
		MCM02005P01K	
		MCM02005H02K	
		MCM02005P02K	
	150	MCM02010H01K	MC-SRL2-0150
		MCM02010P01K	
		MCM02010H02K	
		MCM02010P02K	
	200	MCM02015H01K	MC-SRL2-0200
		MCM02015P01K	
		MCM02015H02K	
		MCM02015P02K	
MCM03	115	MCM03005P01K00	MC-SRL3-0115
		MCM03005P02K00	
	190	MCM03010P01K00	MC-SRL3-0190
		MCM03010P02K00	
		MCM03010H10K00	
		MCM03010H12K00	
	240	MCM03015P01K00	MC-SRL3-0240
		MCM03015P02K00	
MCM05	290	MCM03015H10K00	MC-SRL3-0290
		MCM03015H12K00	
	340	MCM03020H10K00	MC-SRL3-0340
		MCM03020H12K00	
	180	MCM05005H05K00	MC-SRL5-0180
		MCM05005H10K00	
	230	MCM05010H05K00	MC-SRL5-0230
		MCM05010H10K00	
	280	MCM05015H05K00	MC-SRL5-0280
		MCM05015H10K00	
	330	MCM05020H05K00	MC-SRL5-0330
		MCM05020H10K00	
	380	MCM05025H05K00	MC-SRL5-0380
		MCM05025H10K00	
MCM06	430	MCM05030H10K00	MC-SRL5-0430
		MCM05030H20K00	
	530	MCM05021H10D00	MC-SRL5-0530
		MCM05021H20D00	
	630	MCM05040H10K00	MC-SRL5-0630
		MCM05040H20K00	
	730	MCM05031H10D00	MC-SRL5-0730
		MCM05031H20D00	
		MCM05050H10K00	
		MCM05050H20K00	

Nominal size	Body length L ₂ (mm)	Reference number	Sensor rail reference number
MCM06	190	MCM06005H05K00	MC-SRL6-0190
		MCM06005H10K00	
	240	MCM06010H05K00	MC-SRL6-0240
		MCM06010H10K00	
	340	MCM06020H05K00	MC-SRL6-0340
		MCM06020H10K00	
		MCM06011H05D00	
		MCM06011H10D00	
	440	MCM06030H05K00	MC-SRL6-0440
		MCM06030H10K00	
		MCM06030H20K00	
		MCM06021H05D00	
	540	MCM06021H10D00	MC-SRL6-0540
		MCM06021H20D00	
		MCM06040H05K00	MC-SRL6-0640
		MCM06040H10K00	
	640	MCM06040H20K00	
		MCM06031H05D00	
	740	MCM06031H10D00	MC-SRL6-0740
		MCM06031H20D00	
	840	MCM06050H05K00	MC-SRL6-0840
		MCM06050H10K00	
	940	MCM06050H20K00	MC-SRL6-0940
		MCM06041H05D00	
		MCM06041H10D00	
		MCM06041H20D00	

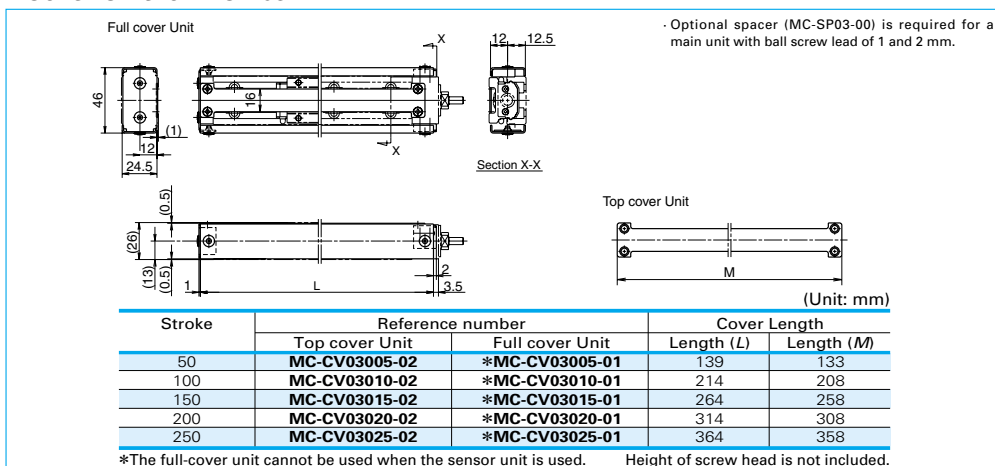
Nominal size	Body length L ₂ (mm)	Reference number	Sensor rail reference number
MCM08	220	MCM08005H05K00	MC-SRL8-0220
	270	MCM08010H05K00	MC-SRL8-0270
	320	MCM08015H05K00	MC-SRL8-0320
	370	MCM08020H05K00	MC-SRL8-0370
	470	MCM08020H10K00	MC-SRL8-0470
	570	MCM08030H10K00	MC-SRL8-0570
	670	MCM08030H20K00	MC-SRL8-0670
	770	MCM08040H10K00	MC-SRL8-0770
	870	MCM08040H20K00	MC-SRL8-0870
	970	MCM08028H10D00	MC-SRL8-0970
	380	MCM08050H10K00	MC-SRL8-10380
	480	MCM08050H20K00	MC-SRL8-10480
MCM10	580	MCM08038H10D00	MC-SRL8-10580
	680	MCM08060H10K00	MC-SRL8-10680
	780	MCM08060H20K00	MC-SRL8-10780
	880	MCM08070H10K00	MC-SRL8-10880
	980	MCM08070H20K00	MC-SRL8-10980
	1080	MCM08080H10K00	MC-SRL8-11080
	1180	MCM08080H20K00	MC-SRL8-11180
	380	MCM10020H10K00	MC-SRL1-0380
	480	MCM10020H20K00	MC-SRL1-0480
	580	MCM10030H10K00	MC-SRL1-0580

C-II-3.2 Cover Unit

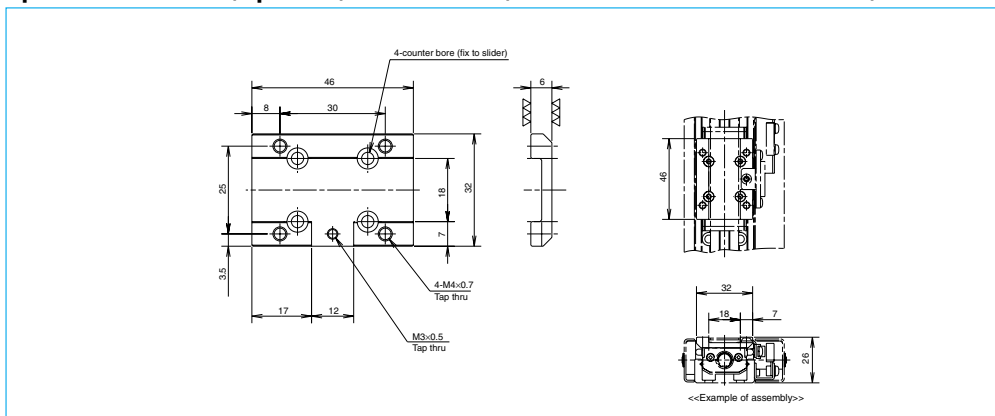
Cover Unit for MCM02



Cover Unit for MCM03

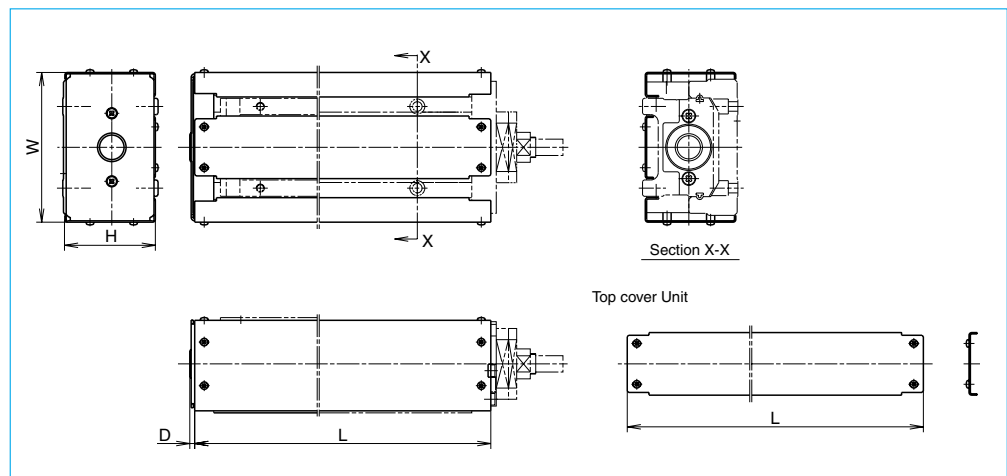


Spacer for MCM03 (Optional) MC-SP03-00 (for ball screw lead 1 and 2 mm)



Option Part

Cover Unit for MCM05, 06, 08, and 10



Reference number	Stroke		Cover unit Reference number		Cover length			
	Single slider	Double slider	Top cover Unit	Full cover Unit	Length (L)	Height (H)	Width (W)	End part (D)
MCM05	50	—	MC-CV05005-01	MC-CV05005-00	200	38.5	65	2.6
	100	—	MC-CV05010-01	MC-CV05010-00	250			
	150	60	MC-CV05015-01	MC-CV05015-00	300			
	200	110	MC-CV05020-01	MC-CV05020-00	350			
	250	160	MC-CV05025-01	MC-CV05025-00	400			
	300	210	MC-CV05030-01	MC-CV05030-00	450			
	400	310	MC-CV05040-01	MC-CV05040-00	550			
	500	410	MC-CV05050-01	MC-CV05050-00	650			
MCM06	600	510	MC-CV05060-01	MC-CV05060-00	750	48.5	75	—
	50	—	MC-CV06005-01	MC-CV06005-00	225			
	100	—	MC-CV06010-01	MC-CV06010-00	275			
	200	110	MC-CV06020-01	MC-CV06020-00	375			
	300	210	MC-CV06030-01	MC-CV06030-00	475			
	400	310	MC-CV06040-01	MC-CV06040-00	575			
	500	410	MC-CV06050-01	MC-CV06050-00	675			
	600	510	MC-CV06060-01	MC-CV06060-00	775			
MCM08	700	610	MC-CV06070-01	MC-CV06070-00	875	56.5	90	2.6
	800	710	MC-CV06080-01	MC-CV06080-00	975			
	50	—	MC-CV08005-01	MC-CV08005-00	248			
	100	—	MC-CV08010-01	MC-CV08010-00	298			
	200	80	MC-CV08020-01	MC-CV08020-00	398			
	300	180	MC-CV08030-01	MC-CV08030-00	498			
	400	280	MC-CV08040-01	MC-CV08040-00	598			
	500	380	MC-CV08050-01	MC-CV08050-00	698			
MCM10	600	480	MC-CV08060-01	MC-CV08060-00	798	66.5	110	2.6
	700	580	MC-CV08070-01	MC-CV08070-00	898			
	800	680	MC-CV08080-01	MC-CV08080-00	998			
	200	70	MC-CV10020-01	MC-CV10020-00	408			
	300	170	MC-CV10030-01	MC-CV10030-00	508			
	400	270	MC-CV10040-01	MC-CV10040-00	608			
	500	370	MC-CV10050-01	MC-CV10050-00	708			
	600	470	MC-CV10060-01	MC-CV10060-00	808			
	700	570	MC-CV10070-01	MC-CV10070-00	908			
	800	670	MC-CV10080-01	MC-CV10080-00	1008			
	900	—	MC-CV10090-01	MC-CV10090-00	1108			
	1000	870	MC-CV10100-01	MC-CV10100-00	1208			

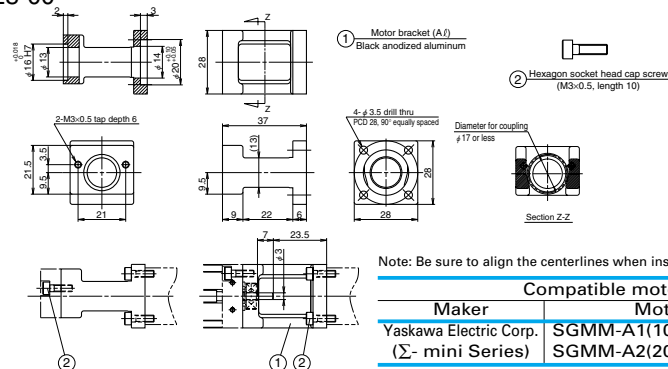
Not include height such as screw

The dimensions of cover shown above do not include the head height of fixing machine screws. Add the head of machine screws of approximately 2.5 mm to the outer measurement of a cover unit. Set a margin for mechanical interference with surrounding components.

*When you use a sensor unit, the full-cover unit cannot be used.

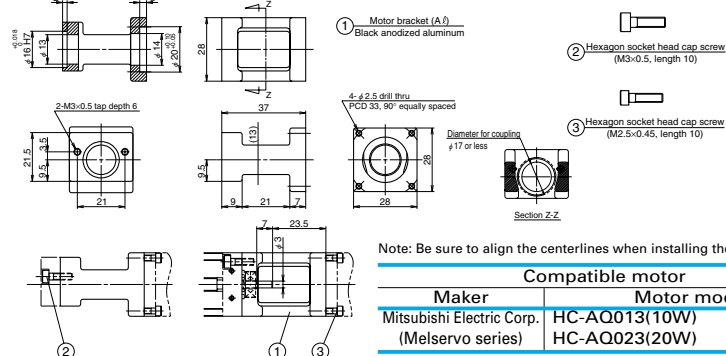
C-II-3.3 Motor Bracket

Motor Bracket for MCM02

Reference number
 MC-BK02-128-00


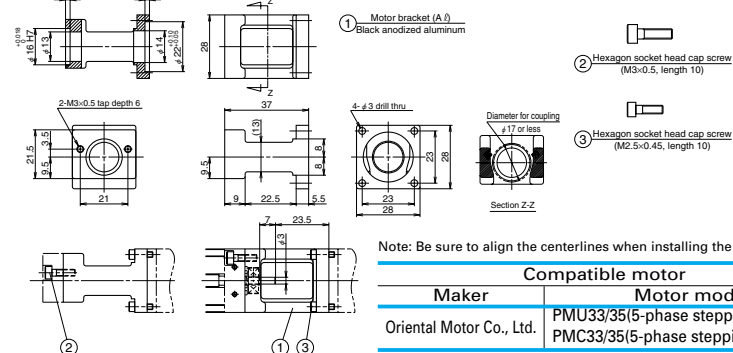
Note: Be sure to align the centerlines when installing the motor.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMM-A1(10W)
(Σ- mini Series)	SGMM-A2(20W)

Reference number
 MC-BK02-133-00


Note: Be sure to align the centerlines when installing the motor.

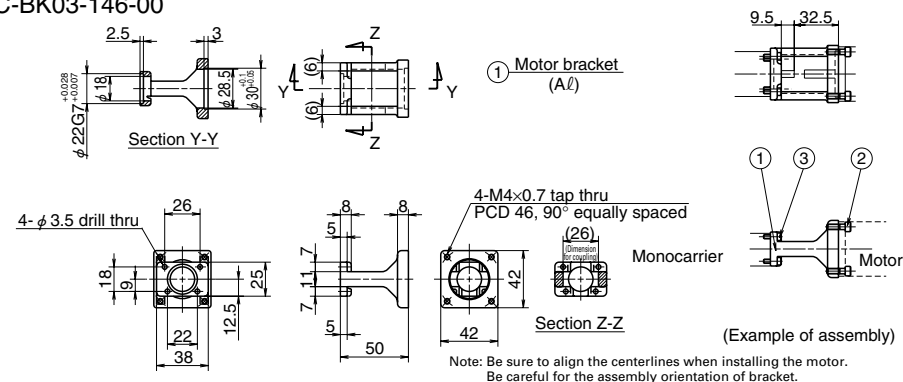
Compatible motor	
Maker	Motor models
Mitsubishi Electric Corp.	HC-AQ013(10W)
(Melservo series)	HC-AQ023(20W)

Reference number
 MC-BK02-223-00


Note: Be sure to align the centerlines when installing the motor.

Compatible motor	
Maker	Motor models
Oriental Motor Co., Ltd.	PMU33/35(5-phase stepping motor)
	PMC33/35(5-phase stepping motor)

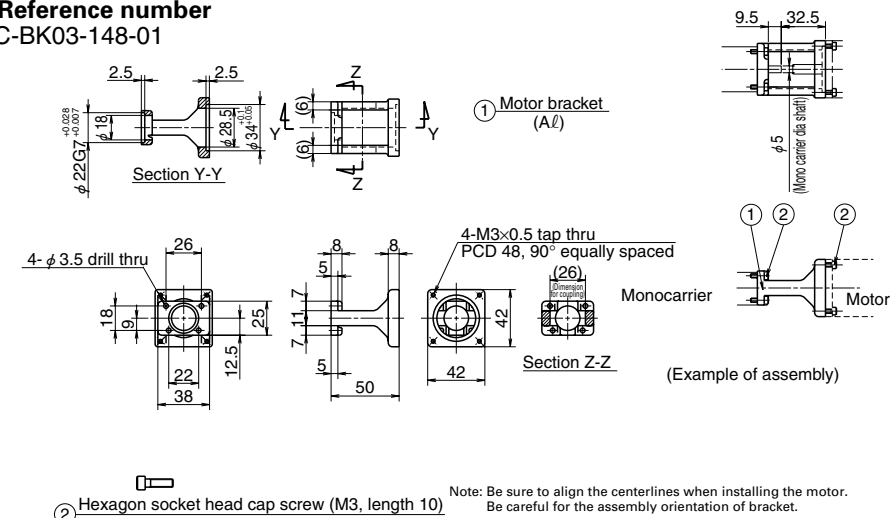
Motor Bracket for MCM03

Reference number
 MC-BK03-146-00


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMAH-A3(30W), SGMAH-A5(50W), SGMAH-A5A(50W), SGMAH-01(100W), SGMAH-01A(100W)
Mitsubishi Electric Corp.	HF-KP053(50W), HF-MP053(50W), HC-KFS053(50W), HC-MFS053(50W), HF-KP13(100W), HF-MP13(100W), HC-KFS13(100W), HC-MFS13(100W)
OMRON Corp.	R88M-W03(30W), R88M-W05(50W), R88M-W10(100W)
Sanyo Denki Co., Ltd.	P30B04003(30W), P30B04005(50W), P30B04006(60W), P30B04010(100W)

Motor Bracket for MCM03

Reference number
 MC-BK03-148-01


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	P50B04040(60W), P50B04010(100W)

Standard stock

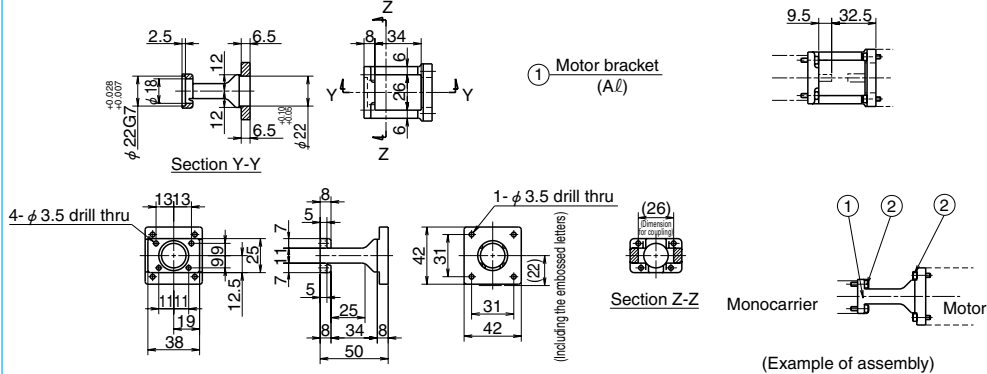
Standard stock

Standard stock

Motor Bracket for MCM03



Reference number
MC-BK03-231-00



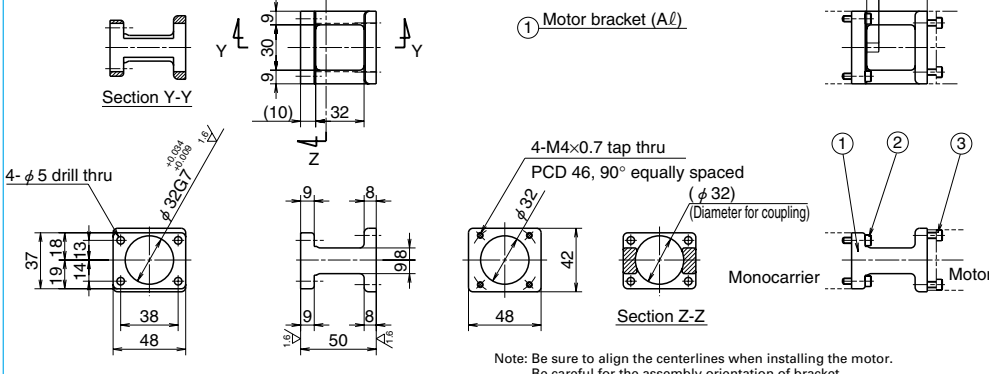
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	PBM423xxx, 103F55xx
AS46, ASC46, UPK54x, PK54x, CSK54x, CFK54x	
Oriental Motor Co., Ltd.	UMK24x, CSK24x, PK24x

Motor Bracket for MCM05



Reference number
MC-BK05-146-00



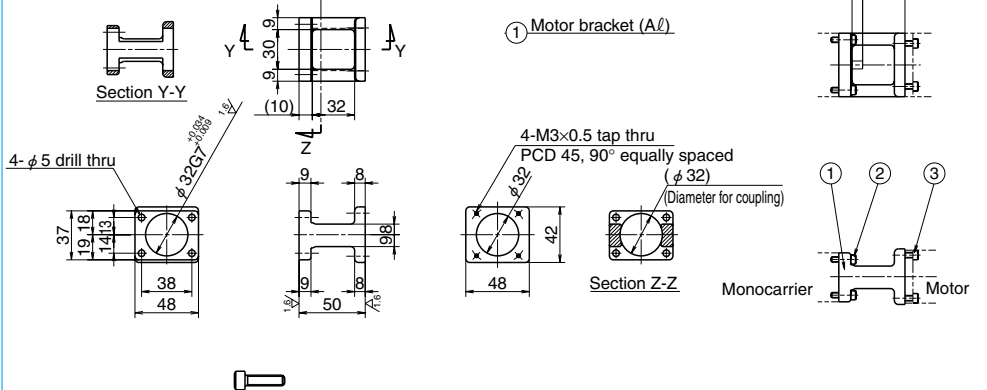
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMAH-A3(30W), SGMAH-A5(50W), SGMAH-A5A(50W), SGMAH-01(100W), SGMAH-01A(100W)
Mitsubishi Electric Corp.	HF-KP053(50W), HF-MP053(50W), HC-KFS053(50W), HC-MFS053(50W), HF-KP13(100W), HF-MP13(100W), HC-KFS13(100W), HC-MFS13(100W)
OMRON Corp.	R88M-W03(30W), R88M-W05(50W), R88M-W10(100W)
Sanyo Denki Co., Ltd.	P30B04003(30W), P30B04005(50W), P30B04006(60W), P30B04010(100W)

Motor Bracket for MCM05



Reference number
MC-BK05-145-00



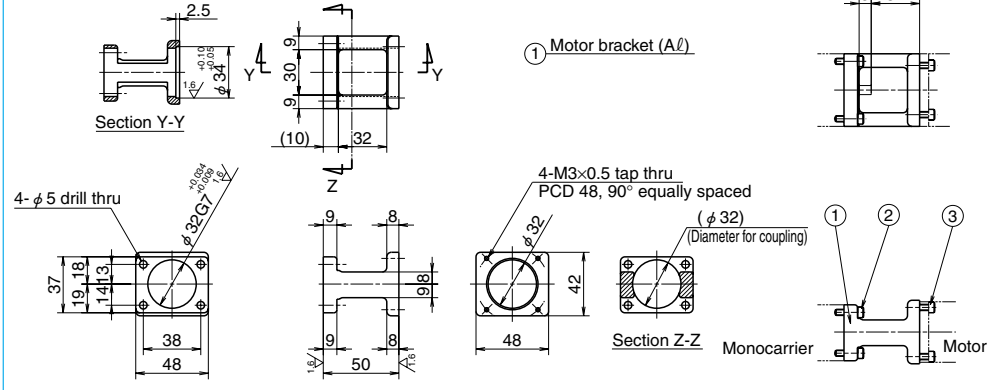
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsushita Electric Co., Ltd.	MSMD5A(50W), MSMD01(100W)

Motor Bracket for MCM05



Reference number
MC-BK05-148-00

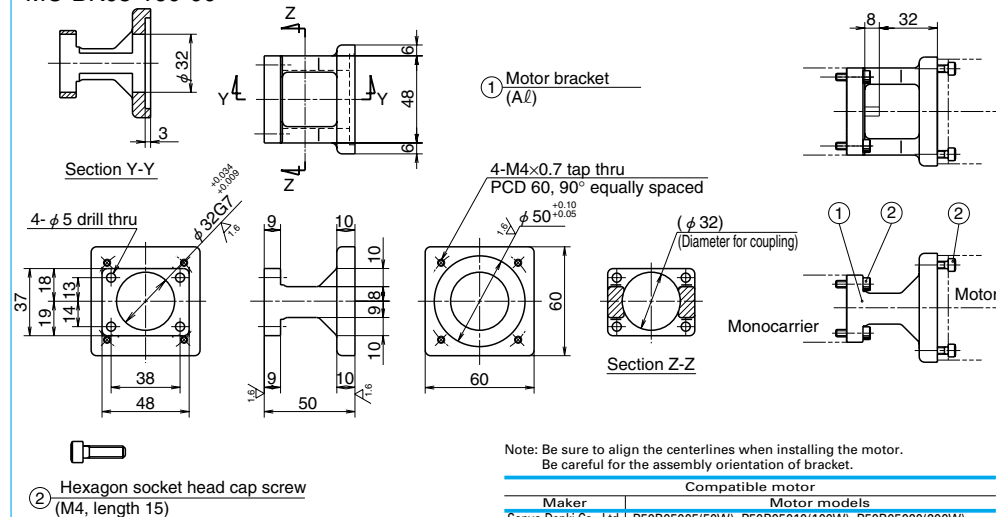


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsushita Electric Co., Ltd.	MAMA01(100W)

Motor Bracket for MCM05

Reference number
MC-BK05-160-00

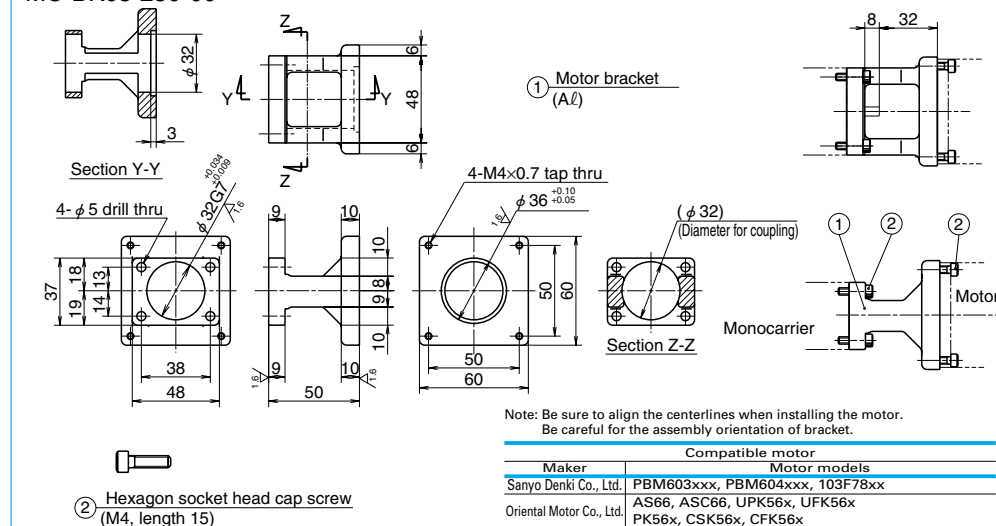


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	P50B05005(50W), P50B05010(100W), P50B05020(200W)

Motor Bracket for MCM05

■ **Reference number**
MC-BK05-250-00

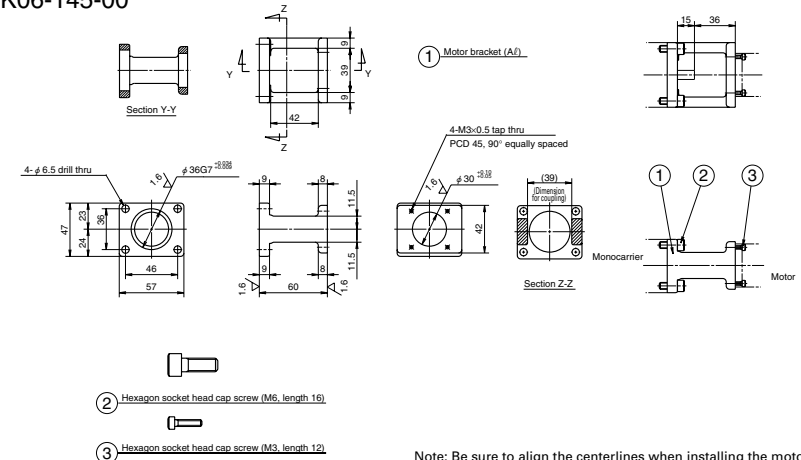


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	PBM603xxx, PBM604xxx, 103F78xx
Oriental Motor Co., Ltd.	AS66, ASC66, UPK56x, UFK56x PK56x, CSK56x, CFK56x

Motor Bracket for MCM06

■ **Reference number**
MC-BK06-145-00

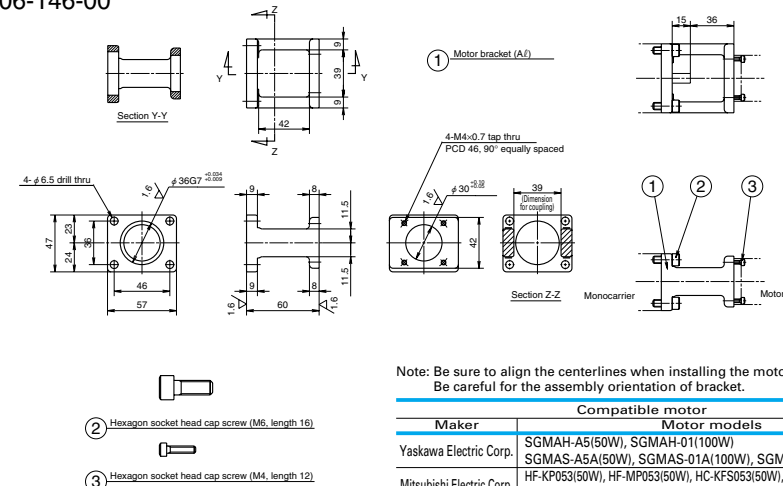


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Mitsubishi Electric Industrial Co., Ltd.	MSMD5A(50W), MSMD01(100W)

Motor Bracket for MCM06

■ **Reference number**
MC-BK06-146-00



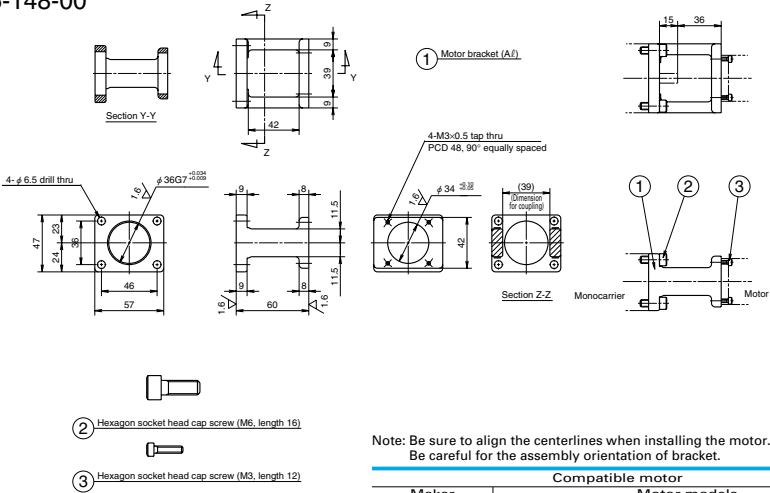
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMAH-A5(50W), SGMAH-01(100W) SGMAS-A5A(50W), SGMAS-01A(100W), SGMAS-C2A(150W)
Mitsubishi Electric Corp.	HF-KP053(50W), HF-MP033(50W), HF-KFS033(50W), HF-MFS033(50W) HF-KP13(100W), HF-MP13(100W), HF-KFS13(100W), HF-MFS13(100W)
OMRON Corp.	R88M-W03(30W), R88M-W05(50W), R88M-W10(100W)
Sanyo Denki Co., Ltd.	P30B04003(30W), P30B04005(50W), P30B04006(60W), P30B04010(100W)

Motor Bracket for MCM06



Reference number
MC-BK06-148-00



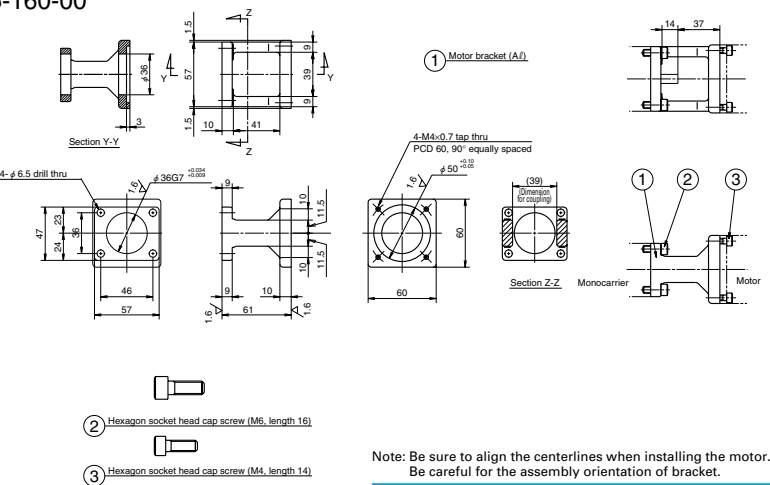
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsumita Electric Co., Ltd.	MAMA01(100W)
Sanyo Denki Co., Ltd.	P50B04040(60W), P50B04010(100W)

Motor Bracket for MCM06



Reference number
MC-BK06-160-00



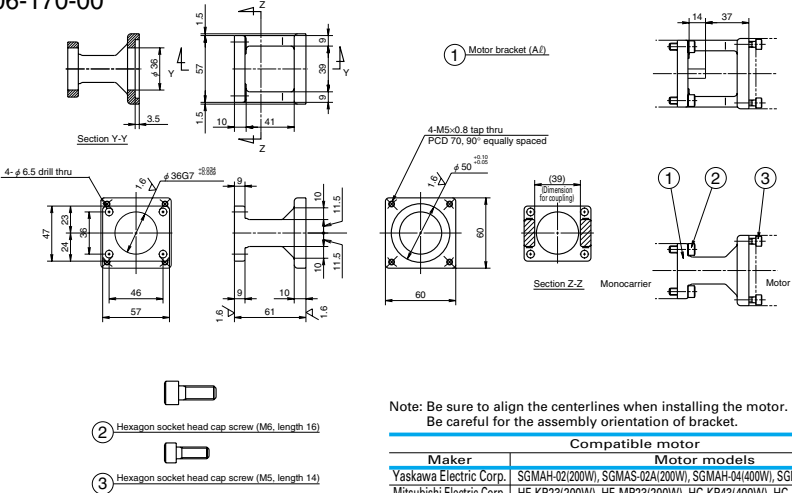
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	P50B05005(50W), P50B05010(100W), P50B05020(200W)

Motor Bracket for MCM06



Reference number
MC-BK06-170-00



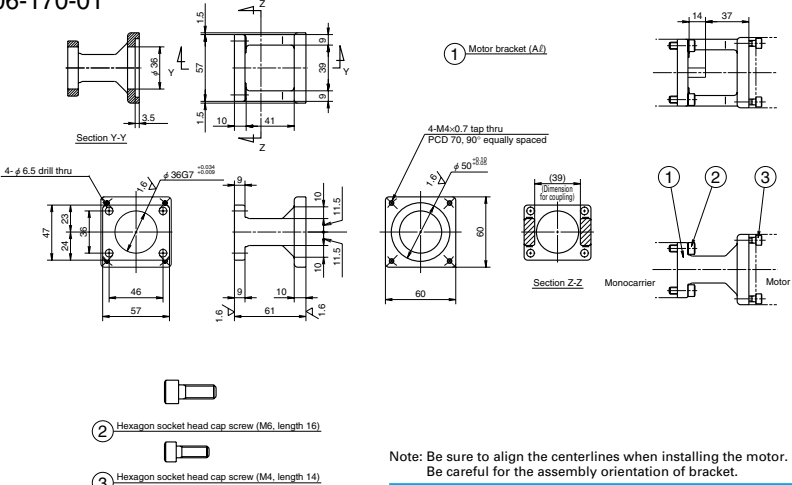
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMAH-02(200W), SGMAH-02A(200W), SGMAH-04(400W), SGMAH-04A(400W)
Mitsubishi Electric Corp.	HF-KP23(200W), HF-MP23(200W), HC-KP43(400W), HC-MP43(400W)
OMRON Corp.	R88M-W20(200W), R88M-W40(400W)
Sanyo Denki Co., Ltd.	P30B06020(200W), P30B06040(400W)

Motor Bracket for MCM06



Reference number
MC-BK06-170-01

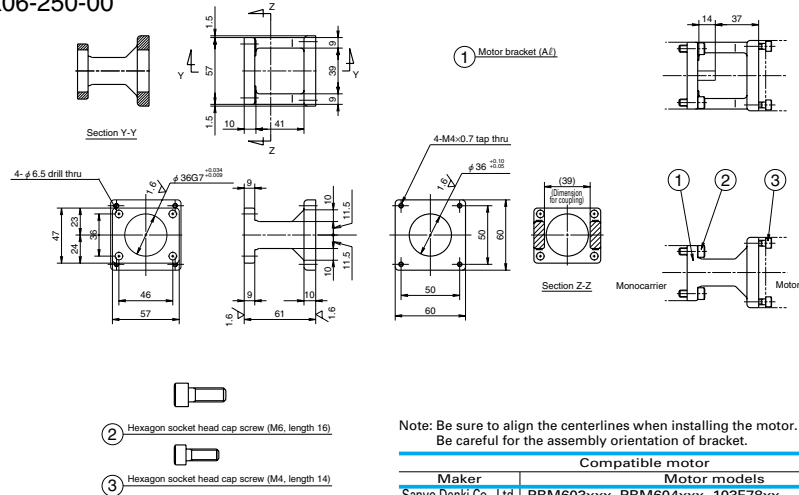


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsumita Electric Industrial Co., Ltd.	MSMD02(200W), MAMA02(200W), MSMD04(400W), MAMA04(400W)

Motor Bracket for MCM06

■ **Reference number**
MC-BK06-250-00



Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	PBM603xxx, PBM604xxx, 103F78xx
Oriental Motor Co., Ltd.	AS66, ASC66, UPK56x, PK56x, CSK56x CFK56x, UMK56x, UFK56x

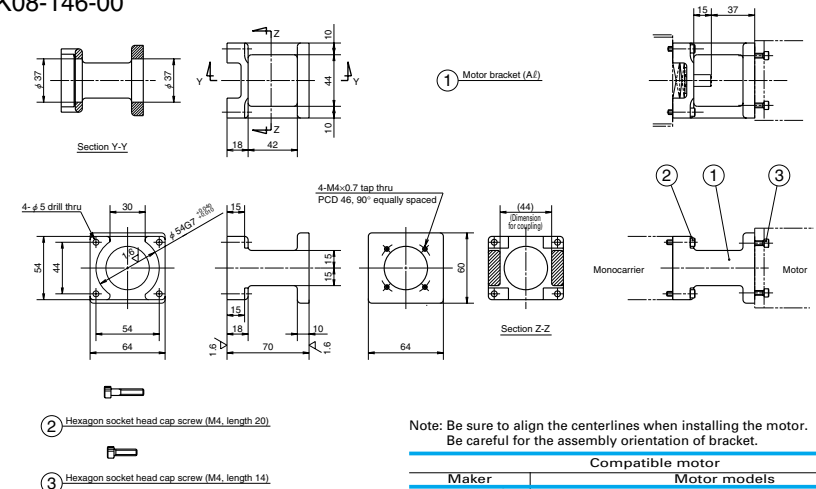
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsushita Electric Industrial Co., Ltd.	MSMD01(100W)

Standard stock

Motor Bracket for MCM08

■ **Reference number**
MC-BK08-146-00



Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMAH-01(100W), SGMA5-01A(100W), SGMA5-C2A(150W)
Mitsubishi Electric Corp.	HF-KP13(100W), HF-MP13(100W), HC-KFS13(100W), HC-MFS13(100W)
Sanyo Denki Co., Ltd.	P30B04003(30W), P30B04005(50W), P30B04006(60W), P30B04010(100W)

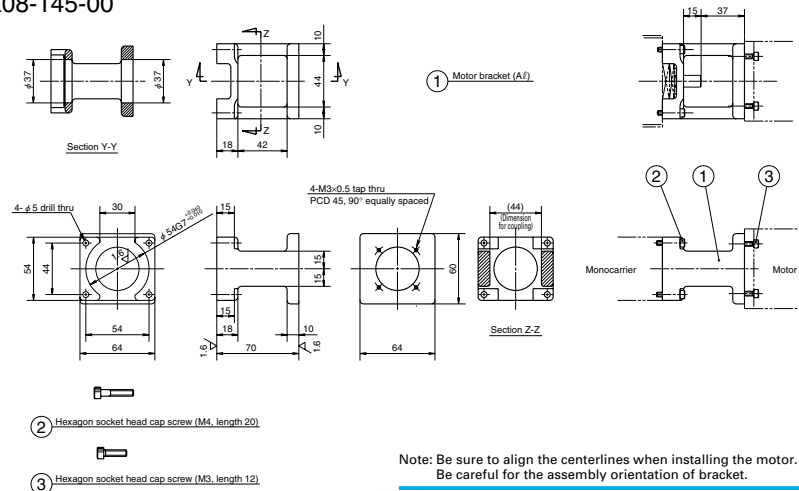
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	P50B05005(50W), P50B05010(100W), P50B05020(200W)

Standard stock

Motor Bracket for MCM08

Reference number
MC-BK08-145-00



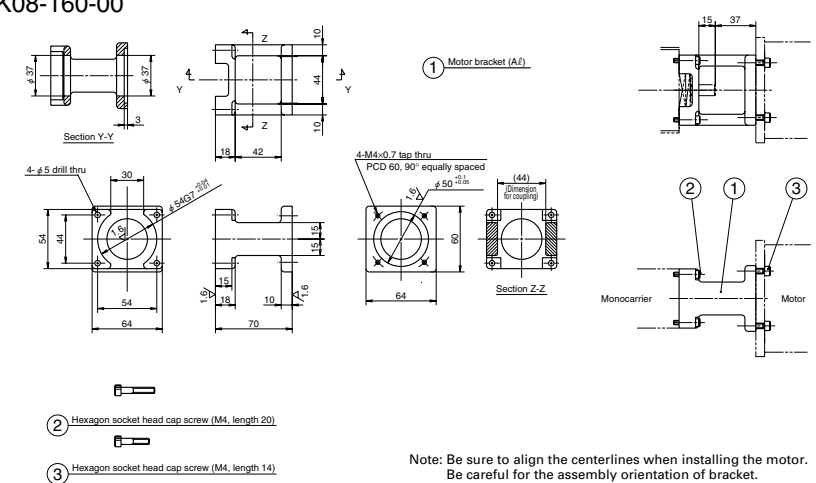
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsushita Electric Industrial Co., Ltd.	MSMD01(100W)

Standard stock

Motor Bracket for MCM08

■ **Reference number**
MC-BK08-160-00



Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

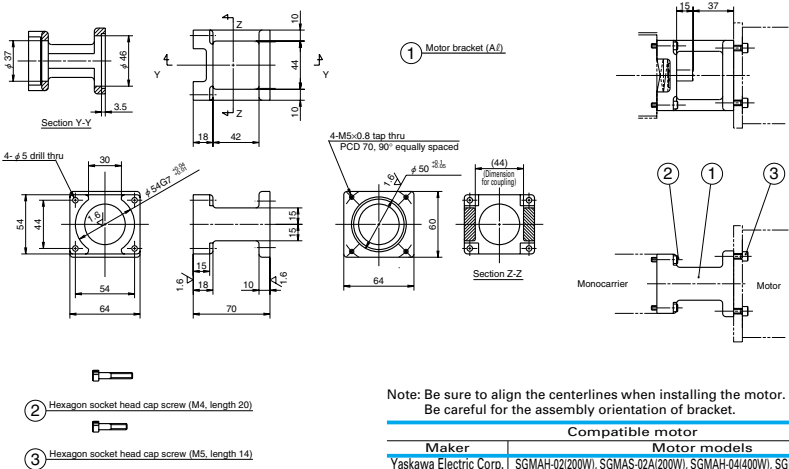
Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	P50B05005(50W), P50B05010(100W), P50B05020(200W)

Standard stock

Motor Bracket for MCM08



Reference number
MC-BK08-170-00



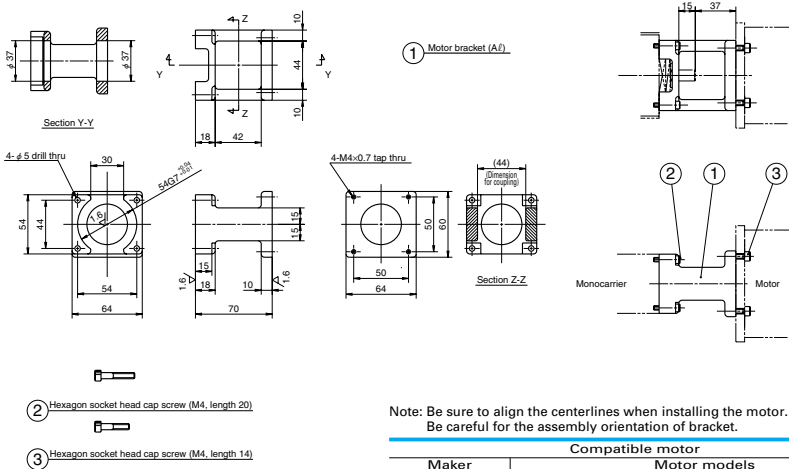
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMAH-02(200W), SGMAH-02A(200W), SGMAH-04(400W), SGMAH-04A(400W)
Mitsubishi Electric Corp.	HF-KP23(200W), HF-MP23(200W), HF-KP43(400W), HF-MP43(400W)
OMRON Corp.	R88M-W20(200W), R88M-W40(400W)
Sanyo Denki Co., Ltd.	P30B06020(200W), P30B06040(400W)

Motor Bracket for MCM08



Reference number
MC-BK08-250-00



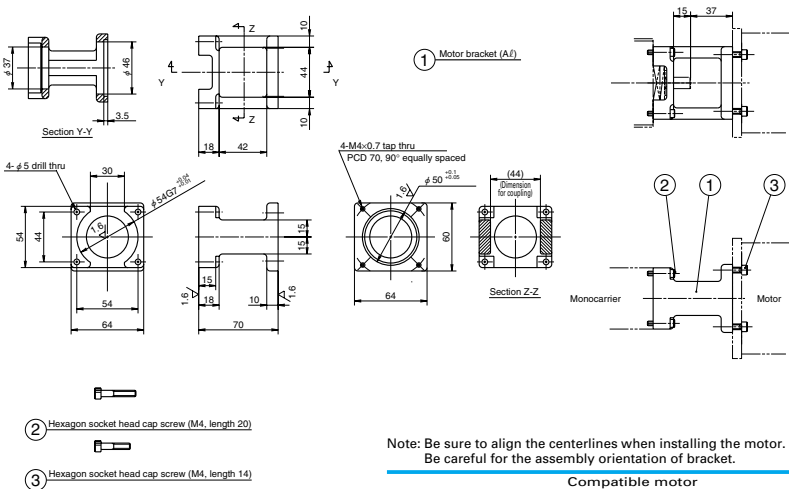
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	PBM603xxx, PBM604xxx, 103F78xx
Oriental Motor Co., Ltd.	AS66, ASC66, UPK56xx, PK56xx, CSK56x
	CFK56x, UMK56x, UFK56x

Motor Bracket for MCM08



Reference number
MC-BK08-170-01



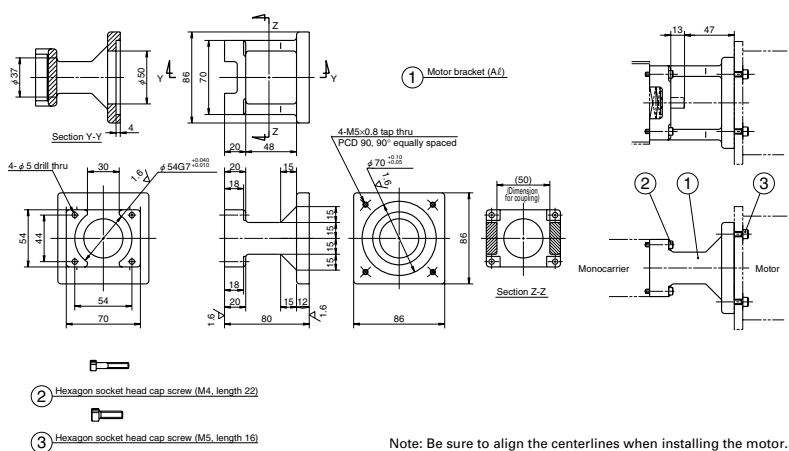
Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsumita Electric Industrial Co., Ltd.	MSMD02(200W), MAMA02(200W), MSMD04(400W), MAMA04(400W)

Motor Bracket for MCM08



Reference number
MC-BK08-190-00

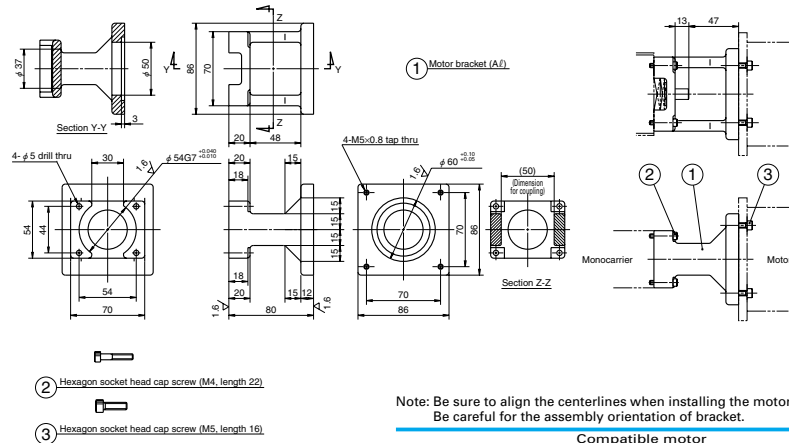


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	P50B07020(200W), P50B07030(300W), P50B07040(400W)

Motor Bracket for MCM08

Reference number
MC-BK08-270-00



Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

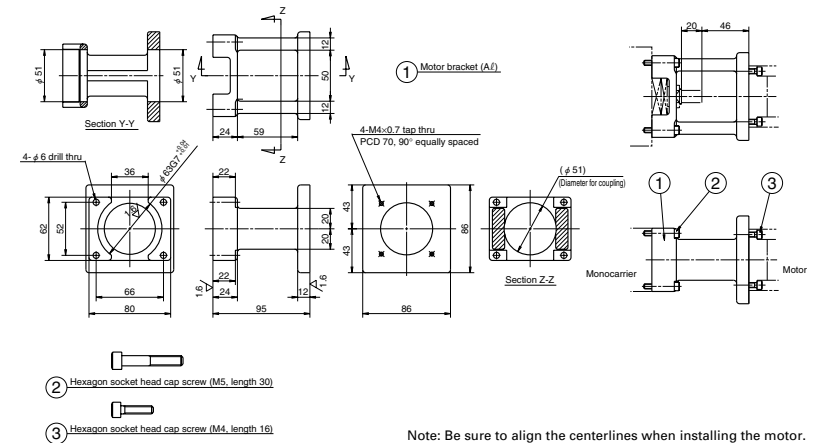
Compatible motor	
Maker	Motor models
Oriental Motor Co., Ltd.	AS98, ASC98, UPK59x, PK59x CSK59x, CFK59x, UMK59x, UFK59x
Sanyo Denki Co., Ltd.	103F85xx

Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMAH-02(200W), SGMAS-02A(200W), SGMAH-04(400W), SGMAS-04A(400W)
Mitsubishi Electric Corp.	HF-KP23(200W), HF-MP23(200W), HF-KP43(400W), HF-MP43(400W)
OMRON Corp.	R88M-W20(200W), R88M-W40(400W)
Sanyo Denki Co., Ltd.	P30B06020(200W), P30B06040(400W)

Motor Bracket for MCM10

■ **Reference number**
MC-BK10-170-01



Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

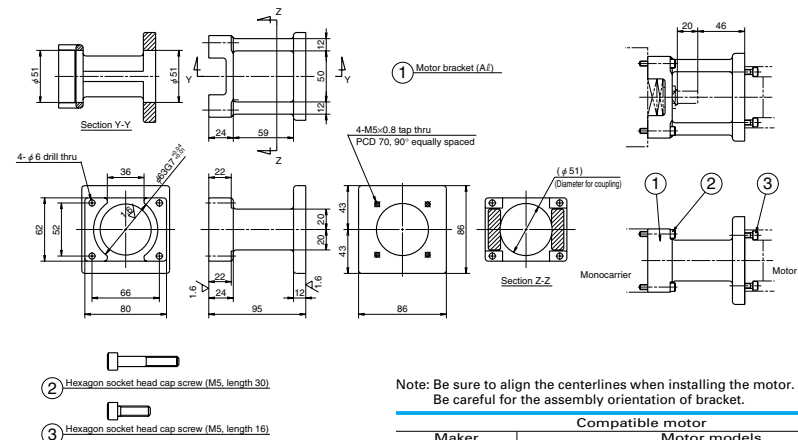
Compatible motor	
Maker	Motor models
Matsushita Electric Industrial Co., Ltd.	MSMD02(200W), MAMA02(200W), MSMD04(400W), MAMA04(400W)

Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsushita Electric Industrial Co., Ltd.	MSMD08(750W), MAMA08(750W)
Sanyo Denki Co., Ltd.	P50B07020(200W), P50B07030(300W), P50B07040(400W)

Motor Bracket for MCM10

■Reference number
MC-BK10-170-00

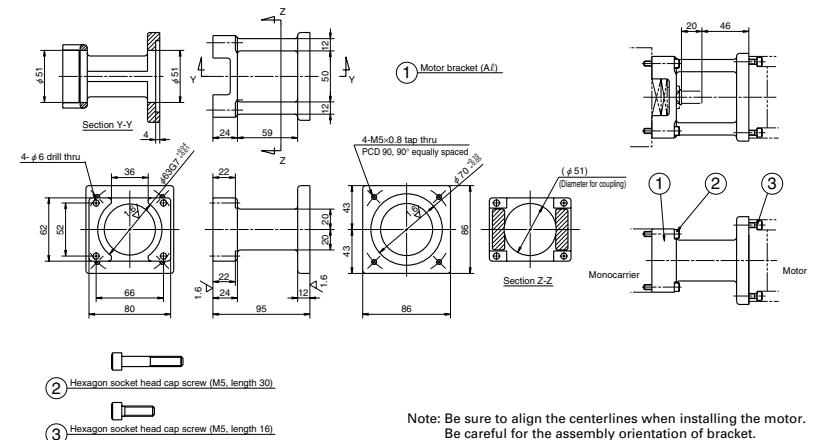


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Yaskawa Electric Corp.	SGMAH-02(200W), SGMAS-02A(200W), SGMAH-04(400W), SGMAS-04A(400W)
Mitsubishi Electric Corp.	HF-KP23(200W), HF-MP23(200W), HF-KP43(400W), HF-MP43(400W)
OMRON Corp.	R88M-W20(200W), R88M-W40(400W)
Sanyo Denki Co., Ltd.	P30B06020(200W), P30B06040(400W)

Motor Bracket for MCM10

■ **Reference number**
MC-BK10-190-00

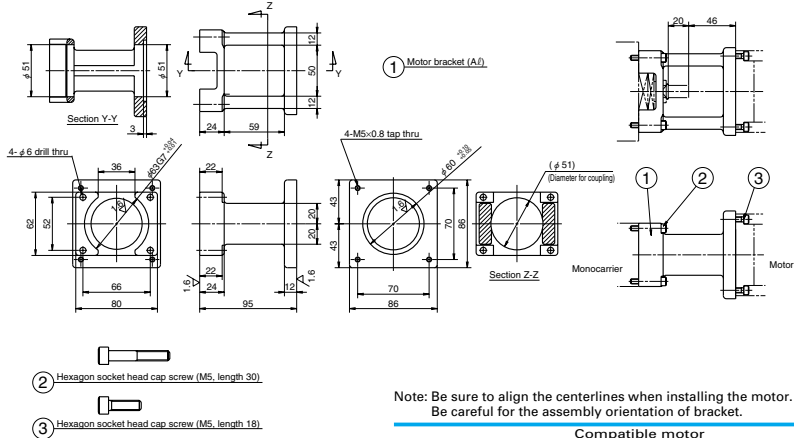


Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Matsushita Electric Industrial Co., Ltd.	MSMD08(750W), MAMA08(750W)
Sanyo Denki Co., Ltd.	P50B07020(200W), P50B07030(300W), P50B07040(400W)

Motor Bracket for MCM10

■Reference number
MC-BK10-270-00



Note: Be sure to align the centerlines when installing the motor.
Be careful for the assembly orientation of bracket.

Compatible motor	
Maker	Motor models
Sanyo Denki Co., Ltd.	103F85xx
AS98, ASC98, UPK59x, PK59x, CSK59x	
Oriental Motor Co., Ltd.	CFK59x, UMK59x, UFK59x

Option Part

Availability Motor Table of Motor Bracket for MCM Series
Table 2-5

Nominal size	Reference number	Motor bracket code	Motor manufacturer	Stepping motor model number	Wattage of AC servo motor										
					10	20	30	50	60	100	150	200	300	400	750
MCM02	1	MC-BK02-128-00	Yaskawa Electric Corp.	SGMM-A1	SGMM-A2										
	2	MC-BK02-133-00	Mitsubishi Electric Corp.	HC-AQ013	HC-AQ023										
	3	MC-BK02-223-00	Oriental Motor Co., Ltd.	PMU33/35 (5-phase) PMC33/35 (5-phase)											
MCM03	1	MC-BK03-146-00	Yaskawa Electric Corp.				SGMAH-A3	SGMAH-A5 SGMAS-A5A		SGMAH-01 SGMAS-01A					
			Mitsubishi Electric Corp.					HF-KP03 HF-MP03 HC-KFS03 HC-MFS03		HF-KP13 HF-MP13 HC-KFS13 HC-MFS13					
			OMRON Corp.					R88M-WV03 R88M-WV05		R88M-WV10					
MCM03	2	MC-BK03-148-01	Sanyo Denki Co., Ltd.					P30B04003	P30B04005	P50B04006	P30B04010				
			Sanyo Denki Co., Ltd.							P50B04040	P50B04010				
			Sanyo Denki Co., Ltd.	PBM423xxx											
MCM03	3	MC-BK03-231-00	Oriental Motor Co., Ltd.	AS46, ASC46 UPK54x, PK54x CSK54x, CFK54x UMK54x, CSK54x PK24x											
MCM05	1	MC-BK05-145-00	Yaskawa Electric Corp.				SGMAH-A3	MSMD5A		MSMD01					
			Mitsubishi Electric Corp.					SGMAH-A5 SGMAS-A5A		SGMAH-01 SGMAS-01A					
			OMRON Corp.					HF-KP03 HF-MP03 HC-KFS03 HC-MFS03		HF-KP13 HF-MP13 HC-KFS13 HC-MFS13					
MCM05	2	MC-BK05-146-00	Sanyo Denki Co., Ltd.					R88M-WV03 P30B04003	P30B04005	P30B04006	P30B04010				
			Sanyo Denki Co., Ltd.							P50B04006	P50B04010				
			Sanyo Denki Co., Ltd.	PBM603xxx PBM604xxx											
MCM05	3	MC-BK05-148-00	Yaskawa Electric Corp.												
			Mitsubishi Electric Corp.												
			OMRON Corp.												
MCM05	4	MC-BK05-160-00	Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.	PBM603xxx PBM604xxx											
MCM05	5	MC-BK05-250-00	Oriental Motor Co., Ltd.	AS66, ASC66 UPK56x, UFK56x PK56x, CSK56x, CFK56x											
MCM06	1	MC-BK06-145-00	Yaskawa Electric Corp.					MSMD5A		MSMD01					
			Mitsubishi Electric Corp.					SGMAH-A5 SGMAS-A5A		SGMAH-01 SGMAS-01A					
			OMRON Corp.					HF-KP03 HF-MP03 HC-KFS03 HC-MFS03		HF-KP13 HF-MP13 HC-KFS13 HC-MFS13					
MCM06	2	MC-BK06-146-00	Sanyo Denki Co., Ltd.					R88M-WV03 P30B04003	P30B04005	P30B04006	P30B04010				
			Sanyo Denki Co., Ltd.							P50B04006	P50B04010				
			Sanyo Denki Co., Ltd.	PBM603xxx PBM604xxx											
MCM06	3	MC-BK06-148-00	Yaskawa Electric Corp.												
			Mitsubishi Electric Corp.												
			OMRON Corp.												
MCM06	4	MC-BK06-160-00	Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.	PBM603xxx PBM604xxx											
MCM06	5	MC-BK06-170-00	Yaskawa Electric Corp.												
			Mitsubishi Electric Corp.												
			OMRON Corp.												
MCM06	6	MC-BK06-170-01	Yaskawa Electric Corp.												
			Mitsubishi Electric Corp.												
			OMRON Corp.												
MCM06	7	MC-BK06-250-00	Oriental Motor Co., Ltd.	AS66, ASC66 UPK56x, PK56x CSK56x, CFK56x UMK56x, UFK56x											
MCM08	1	MC-BK08-145-00	Yaskawa Electric Corp.					MSMD01							
			Mitsubishi Electric Corp.					SGMAH-01 SGMAS-01A		SGMAH-01 SGMAS-01A					
			OMRON Corp.					HF-KP13 HF-MP13 HC-KFS13 HC-MFS13		HF-KP13 HF-MP13 HC-KFS13 HC-MFS13					
MCM08	2	MC-BK08-146-00	Sanyo Denki Co., Ltd.					P30B04003	P30B04005	P30B04006	P30B04010				
			Sanyo Denki Co., Ltd.							P50B04006	P50B04010				
			Sanyo Denki Co., Ltd.	PBM603xxx PBM604xxx											
MCM08	3	MC-BK08-160-00	Yaskawa Electric Corp.												
			Mitsubishi Electric Corp.												
			OMRON Corp.												
MCM08	4	MC-BK08-170-00	Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.	PBM603xxx PBM604xxx											
MCM08	5	MC-BK08-170-01	Yaskawa Electric Corp.												
			Mitsubishi Electric Corp.												
			OMRON Corp.												
MCM08	6	MC-BK08-190-00	Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.	PBM603xxx PBM604xxx											
MCM08	7	MC-BK08-250-00	Oriental Motor Co., Ltd.	AS66, ASC66 UPK56x, PK56x CSK56x, CFK56x UMK56x, UFK56x											
MCM08	8	MC-BK08-270-00	Oriental Motor Co., Ltd.	AS98, ASC98 UPK59x, PK59x CSK59x, CFK59x UMK59x, UFK59x											
MCM10	1	MC-BK10-170-00	Yaskawa Electric Corp.												
			Mitsubishi Electric Corp.												
			OMRON Corp.												
MCM10	2	MC-BK10-170-01	Yaskawa Electric Corp.												
			Mitsubishi Electric Corp.												
			OMRON Corp.												
MCM10	3	MC-BK10-190-00	Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.												
			Sanyo Denki Co., Ltd.	PBM603xxx PBM604xxx											
MCM10	4	MC-BK10-270-00	Oriental Motor Co., Ltd.	AS98, ASC98 UPK59x, PK59x CSK59x, CFK59x UMK59x, UFK59x											

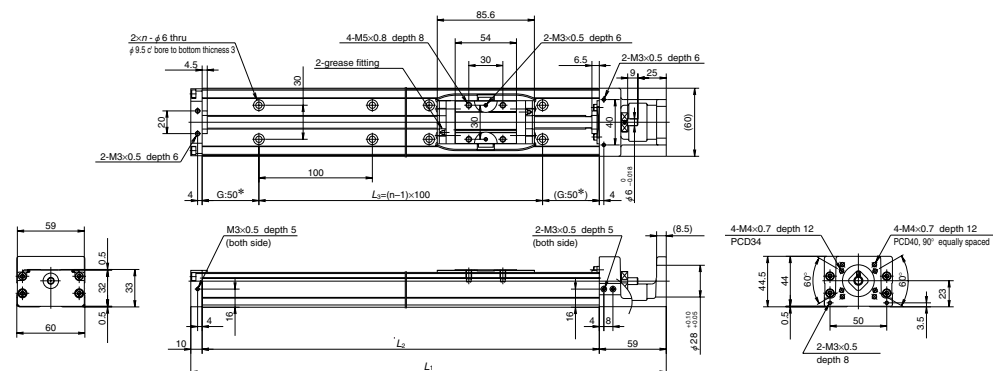


1	MCH Series Reference Number Coding	C59
2	MCH Series dimension table of standard products	
	MCL06	C60
	MCH06	C61
	MCH09	C63
	MCH10	C65
3	MCH Series Option Part	
3. 1	Sensor Unit	C67
3. 2	Cover Unit	C69
3. 3	Intermediate Plate For Motor	C71

MCH Series

MCH06

Accuracy grade: High grade (H)



Dimension of MCH06 (Single slider)

Reference number	Nominal stroke (mm)	Stroke limit (mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)				Inertia $\times 10^6$ (kg · m ²)	Mass (kg)
				L ₁	L ₂	L ₃	n		
※ MCH06005H05K	50	53 (65)	5	219	150	100	2	2.38	1.8
※ MCH06005H10K			10					3.45	
MCH06010H05K	100	103 (115)	5	269	200	100	2	3.17	2.2
MCH06010H10K			10					4.12	
MCH06020H05K	200	203 (215)	5	369	300	200	3	4.51	3.0
MCH06020H10K			10					5.46	
MCH06030H10K	300	303 (315)	10	469	400	300	4	6.80	3.7
MCH06030H20K			20					10.6	
MCH06040H10K	400	403 (415)	10	569	500	400	5	8.13	4.5
MCH06040H20K			20					11.9	
MCH06050H10K	500	503 (515)	10	669	600	500	6	9.47	5.2
MCH06050H20K			20					13.3	

Dimension of G is 25 instead of 50 for those marked with ※.

Items not marked are available from standard stock.

Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	5	1.0~4.8
	10	1.1~5.8
	20	1.6~7.9

- Frictional resistance of NSK K1 is included in the dynamic torque in the table.
- Grease is packed into ball screw, linear guide parts and support unit.
- Consult NSK for life estimates under large moment loads.

Basic load rating

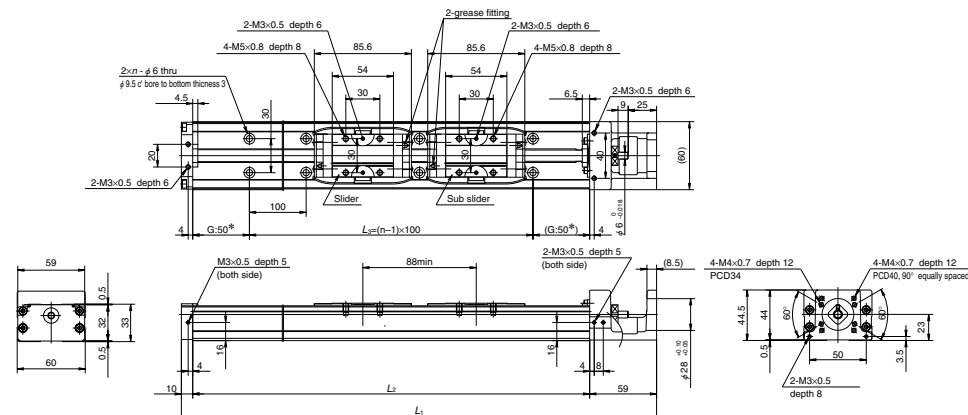
Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
5	φ 12	3000 (High grade) 3760 (Precision)	22800	4400	5	5410 (High grade) 6310 (Precision)	16300	1450
10		1930 (High grade) 2260 (Precision)	18100		10	3160 (High grade) 3780 (Precision)		
20		1930 (High grade) 2260 (Precision)	14400		20	3160 (High grade) 3780 (Precision)		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Single	335	133	133

MCH06 (Double slider)

Accuracy grade: High grade (H)



Dimension of MCH06 (Double slider)

Reference number	Nominal stroke (mm)	Stroke limit (mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)				Inertia $\times 10^6$ (kg · m ²)	Mass (kg)
				L ₁	L ₂	L ₃	n		
★ MCH06010H05D	100	115 (139)	5	369	300	200	3	4.82	3.5
★ MCH06010H10D			10					6.72	
★ MCH06020H05D	200	215 (239)	5	469	400	300	4	8.06	4.2
★ MCH06020H10D			10					15.7	
★ MCH06030H05D	300	315 (339)	5	569	500	400	5	9.40	5.0
★ MCH06030H10D			10					17.0	
★ MCH06040H10D	400	415 (439)	10	669	600	500	6	10.7	5.7
★ MCH06040H20D			20					18.3	

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	5	1.2~5.2
	10	1.5~9.6
	20	2.3~11.8

- Frictional resistance of NSK K1 is included in the dynamic torque in the table.
- Grease is packed into ball screw, linear guide parts and support unit.
- Consult NSK for life estimates under large moment loads.

Basic load rating

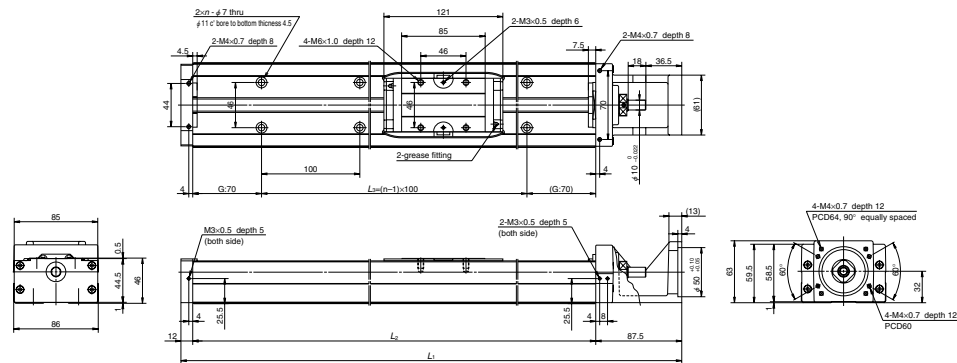
Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
5	φ 12	3000 (High grade) 3760 (Precision)	22800	4400	5	5410 (High grade) 6310 (Precision)	16300	1450
10		1930 (High grade) 2260 (Precision)	18100		10	3160 (High grade) 3780 (Precision)		
20		1930 (High grade) 2260 (Precision)	14400		20	3160 (High grade) 3780 (Precision)		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Double	770	730	730

MCH09

Accuracy grade: High grade (H)



Dimension of MCH09 (Single slider)

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)				Inertia ×10 ⁶ (kg · m ²)	Mass (kg)
				L ₁	L ₂	L ₃	n		
MCH09020H05K	200	207 (221)	5	439.5	340	200	3	12.4	6.5
MCH09020H10K			10					13.9	
MCH09030H05K	300	307 (321)	5	539.5	440	300	4	15.6	8.1
MCH09030H10K			10					17.1	
MCH09040H05K	400	407 (421)	5	639.5	540	400	5	18.8	9.7
MCH09040H10K			10					20.3	
MCH09050H10K	500	507 (521)	10	739.5	640	500	6	23.5	11
MCH09050H20K			20					29.6	
MCH09060H10K	600	607 (621)	10	839.5	740	600	7	26.7	13
MCH09060H20K			20					32.8	
MCH09080H10K	800	807 (821)	10	1 039.5	940	800	9	33.2	16
MCH09080H20K			20					39.2	

Items not marked are available from standard stock.

Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	5	1.0~5.9
	10	2.0~7.8
	20	2.0~10.8

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.

Basic load rating

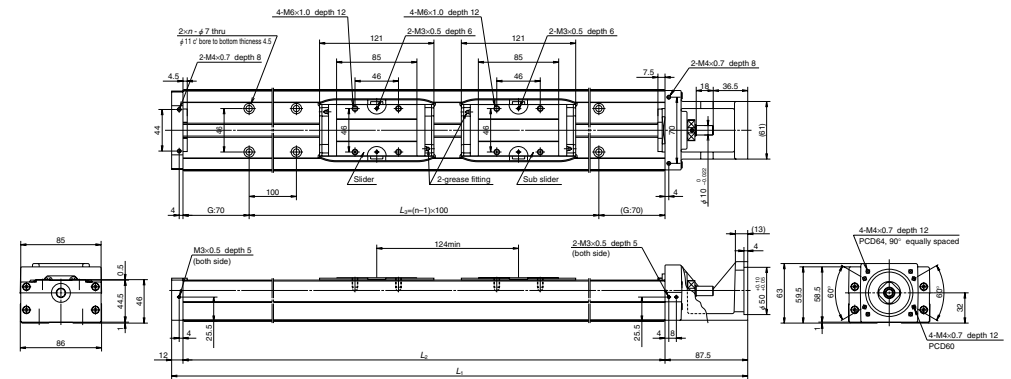
Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C _a	linear guides C	Support unit C _a	Rated running distance L _a (km)	Ball screw C _{0a}	Linear guides C ₀	
5	φ 15	6820 (High grade) 7100 (Precision)	40600	7100	5	13200 (High grade) 13000 (Precision)	30500	3040
10		5110 (High grade) 7060 (Precision)	32200		10	9290 (High grade) 12700 (Precision)		
20		3290 (High grade) 4560 (Precision)	25500		20	5620 (High grade) 7750 (Precision)		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	RollingM _{RO}	PitchingM _{PO}	YawingM _{YO}
Single	890	385	385

MCH09 (Double slider)

Accuracy grade: High grade (H)



Dimension of MCH09 (Double slider)

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)				Inertia ×10 ⁶ (kg · m ²)	Mass (kg)
				L ₁	L ₂	L ₃	n		
★MCH09015H05D	150	183 (211)	5	539.5	440	300	4	16.1	8.9
★MCH09015H10D			10					19.2	
★MCH09025H05D	250	283 (311)	5	639.5	540	400	5	19.3	11
★MCH09025H10D			10					22.4	
★MCH09035H05D	350	383 (411)	5	739.5	640	500	6	22.5	12
★MCH09035H10D			10					25.6	
★MCH09045H10D	450	483 (511)	10	839.5	740	600	7	28.8	14
★MCH09045H20D			20					40.9	
★MCH09065H10D	650	683 (711)	10	1 039.5	940	800	9	35.2	17
★MCH09065H20D			20					47.3	

Items not marked are available from standard stock.

Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	5	1.5~7.0
	10	2.5~10.8
	20	4.0~17.2

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.

Basic load rating

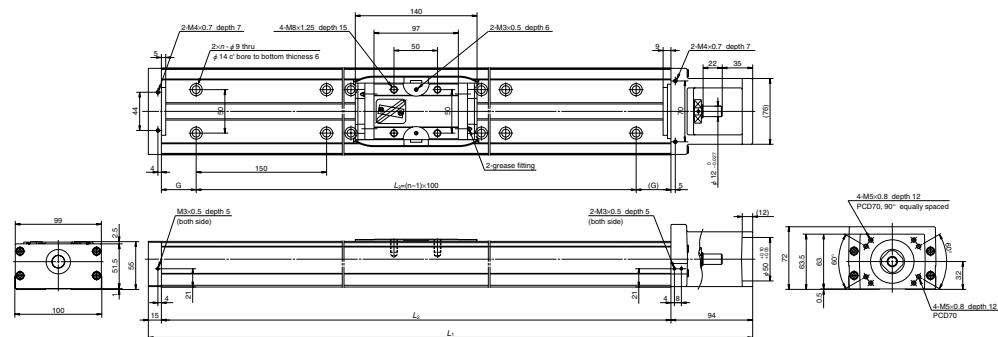
Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C _a	linear guides C	Support unit C _a	Rated running distance L _a (km)	Ball screw C _{0a}	Linear guides C ₀	
5	φ 15	6820 (High grade) 7100 (Precision)	40600	7100	5	13200 (High grade) 13000 (Precision)	30500	3040
10		5110 (High grade) 7060 (Precision)	32200		10	9290 (High grade) 12700 (Precision)		
20		3290 (High grade) 4560 (Precision)	25500		20	5620 (High grade) 7750 (Precision)		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	RollingM _{RO}	PitchingM _{PO}	YawingM _{YO}
Double	1780	2070	2070

MCH10

Accuracy grade: High grade (H)



Dimension of MCH10 (Single slider)

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)					Inertia x10 ⁻⁶ kg · m ²	Mass (kg)
				L ₁	L ₂	G	L ₃	n		
MCH10040H10K	400	426	10	689	580	65	450	4	62.4	14
MCH10040H20K		(442)	20						71.8	
MCH10050H10K	500	526	10	789	680	40	600	5	74.7	16
MCH10050H20K		(542)	20						82.3	
MCH10060H10K	600	626	10	889	780	15	750	6	84.9	19
MCH10060H20K		(642)	20						92.5	
MCH10070H10K	700	726	10	989	880	65	750	6	95.1	21
MCH10070H20K		(742)	20						103	
MCH10080H10K	800	826	10	1 089	980	40	900	7	105	23
MCH10080H20K		(842)	20						113	
MCH10090H20K	900	926(942)	20	1 189	1 080	15	1 050	8	123	25
MCH10100H20K	1 000	1 026(1 042)	20	1 289	1 180	65	1 050	8	133	27
★MCH10110H20K	1 100	1 126(1 142)	20	1 389	1 280	40	1 200	9	143	29
★MCH10120H20K	1 200	1 226(1 242)	20	1 489	1 380	15	1 350	10	154	32

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	10	2.7~10.8
	20	3.1~12.7

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.

Basic load rating

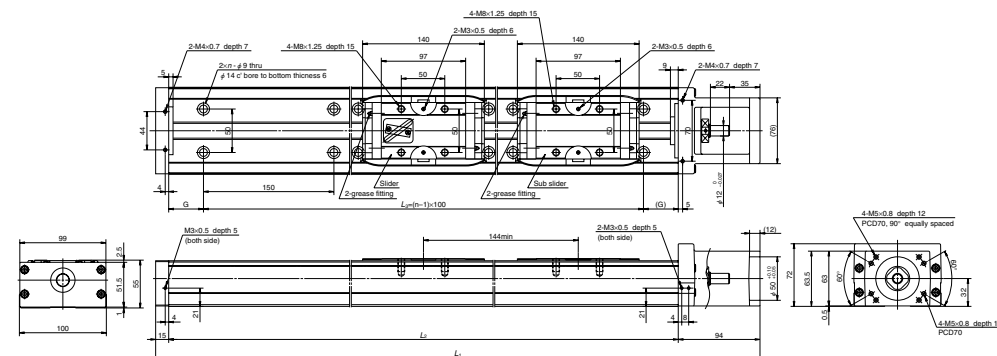
Lead l (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_s (km)	Ball screw C_{0a}	Linear guides C_0	
10	$\phi 20$	8230 (High grade) 10900 (Precision)	44600	7600	10	17100 (High grade) 21700 (Precision)	42000	3380
20		5300 (High grade) 7060 (Precision)	35400		20	10300 (High grade) 12700 (Precision)		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	Rolling M_{RO}	Pitching M_{PO}	Yawing M_{YO}
Single	1460	610	610

MCH10 (Double slider)

Accuracy grade: High grade (H)



Dimension of MCH10 (Double slider)

Reference number	Nominal stroke (mm)	Stroke limit(mm) (K1 is not equipped)	Ball screw lead (mm)	Body length (mm)					Inertia x10 ⁶ (kg·m ²)	Mass (kg)
				L ₁	L ₂	G	L ₃	n		
★MCH10025H10D	250	282	10	689	580	65	450	4	67.1	15
★MCH10025H20D		(314)	20						82.4	
★MCH10035H10D	350	382	10	789	680	40	600	5	77.3	17
★MCH10035H20D		(414)	20						92.5	
★MCH10045H10D	450	482	10	889	780	15	750	6	87.5	20
★MCH10045H20D		(514)	20						103	
★MCH10055H10D	550	582	10	989	880	65	750	6	97.7	22
★MCH10055H20D		(614)	20						113	
★MCH10065H10D	650	682	10	1 089	980	40	900	7	108	24
★MCH10065H20D		(714)	20						123	
★MCH10075H20D	750	782(814)	20	1 189	1 080	15	1 050	8	133	26
★MCH10085H20D	850	882(914)	20	1 289	1 180	65	1 050	8	143	28
★MCH10095H20D	950	982(1 014)	20	1 389	1 280	40	1 200	9	154	30
★MCH10105H20D	1 050	1 082(1 114)	20	1 489	1 380	15	1 350	10	164	33

Items not marked are available from standard stock.
Items marked with ★ are designated as "quick delivery item" upon request.

Monocarrier dynamic torque specification (N · cm)

Ball screw lead (mm)	10	4.2~15.6
	20	5.0~19.6

1. Frictional resistance of NSK K1 is included in the dynamic torque in the table.
2. Grease is packed into ball screw, linear guide parts and support unit.
3. Consult NSK for life estimates under large moment loads.

Basic load rating

Lead ℓ (mm)	Shaft dia d (mm)	Basic dynamic load rating (N)				Basic static load rating (N)		Support unit Load limit (N)
		Ball screw C_a	linear guides C	Support unit C_a	Rated running distance L_a (km)	Ball screw C_{0a}	Linear guides C_0	
10	$\phi 20$	8230 (High grade) 10900 (Precision)	44600	7600	10	17100 (High grade) 21700 (Precision)	42000	3380
20		5300 (High grade) 7060 (Precision)	35400		20	10300 (High grade) 12700 (Precision)		

Basic static moment load of linear guide

Slider	Basic static moment load (N · m)		
	RollingM _{RO}	PitchingM _{PO}	YawingM _{YO}
Double	2920	3430	3430