

上海川代轴承机械有限公司

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上海市闸北区海宁路1399号众昌金城大厦2016室

Cat.No.LE05-4



JP-1973



ISO 9002
JQA-1973

ASAHI

MOTION GUIDE SYSTEMS



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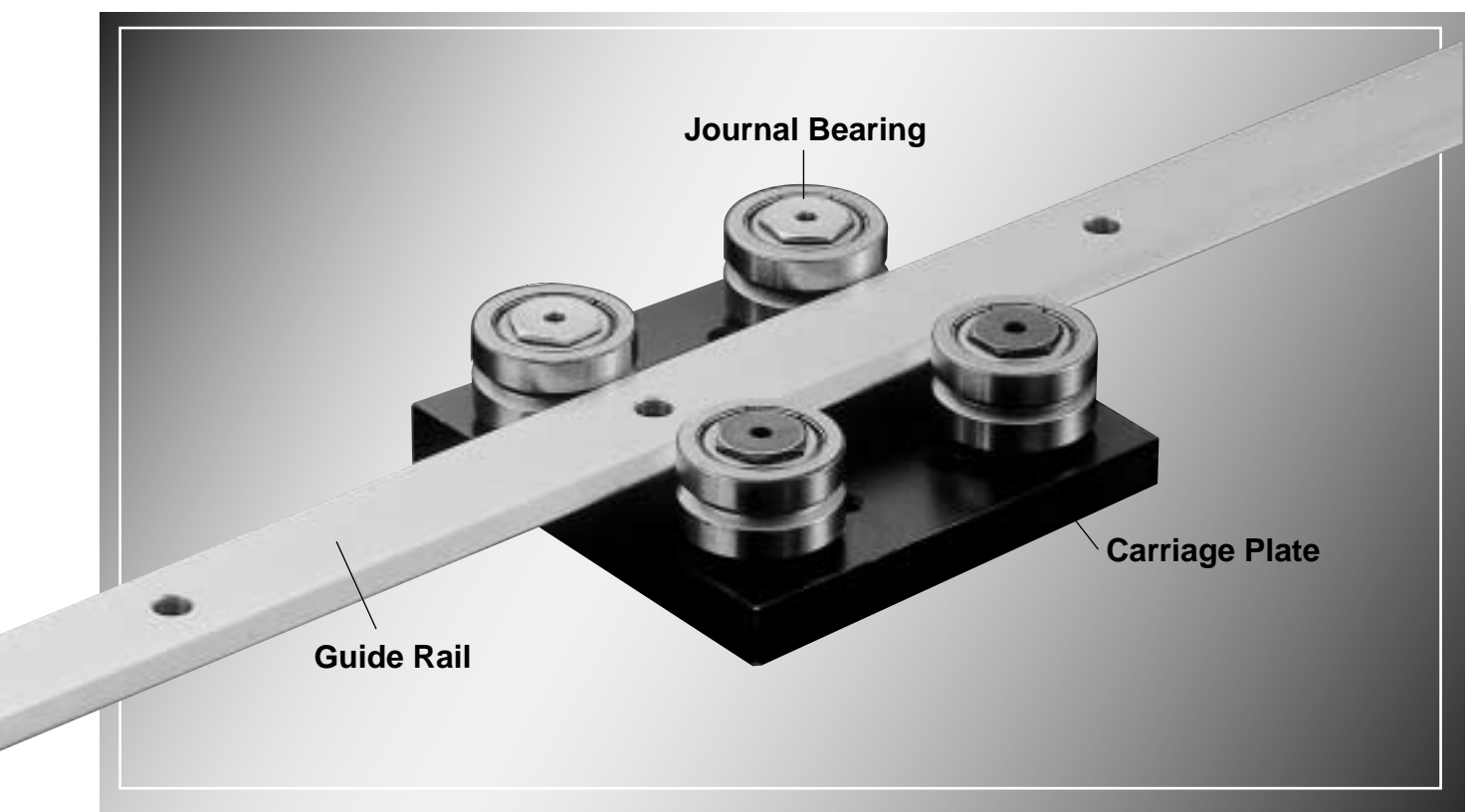
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ASAHI SEIKO CO., LTD.

ASAHI MOTION GUIDE for flex design of

Motion Guide Systems provide the maintenance-free and smooth running of V-shaped rolling bearings fitted on both sides of flat rail.

Various combinations of components are available for machine designers' choice to fit their specific applications, including curving movement.

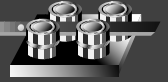


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SYSTEMS conveying system



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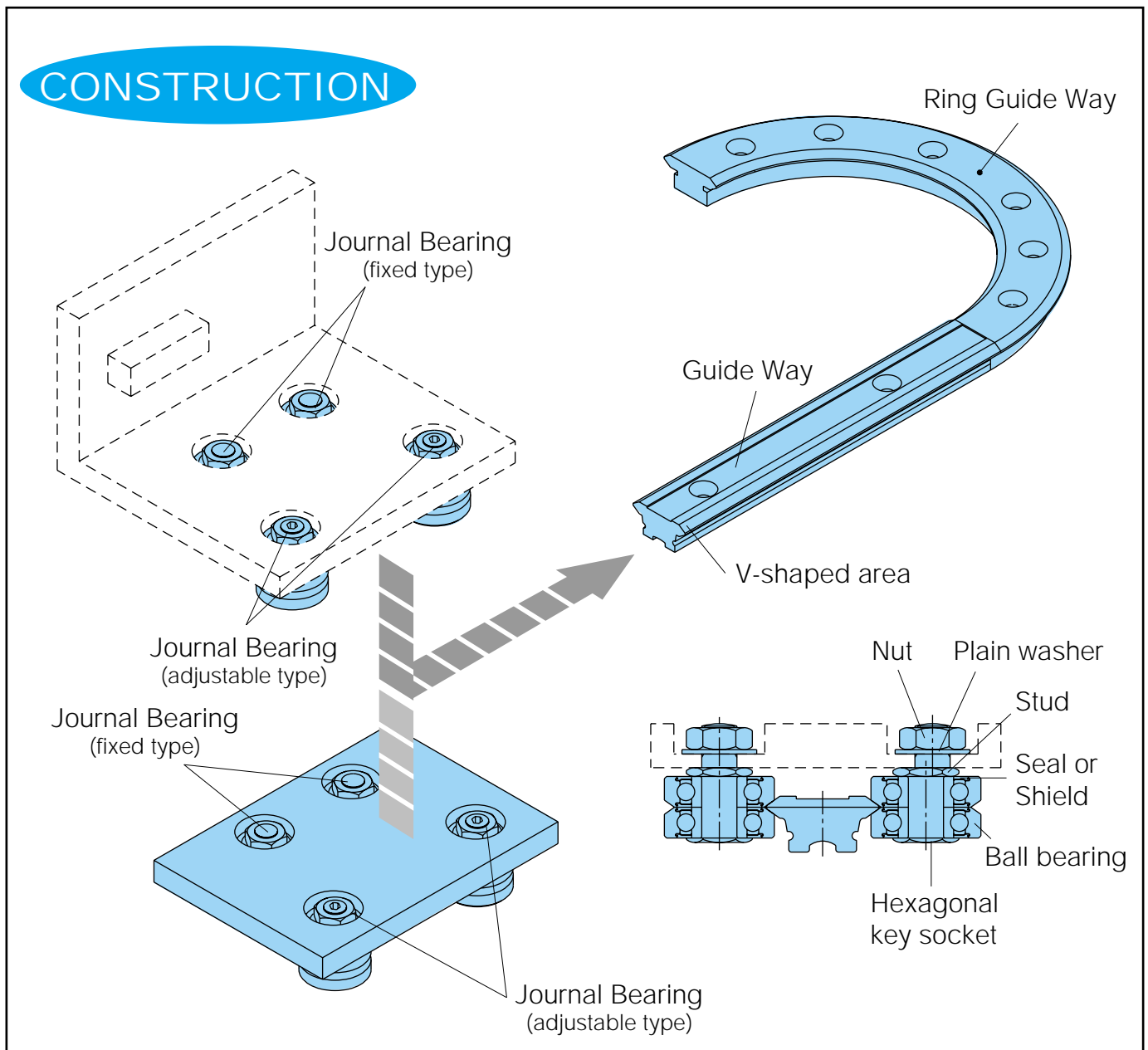
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FEATURES

- Sliding-friction-free construction when running not only on straight rail but also on curved rail
- Variety of assembly combinations, including curved rail
- Hard-Chromium-plated Rail surface and hardened V-shaped area
- Clearance adjustable
- Easy for mounting

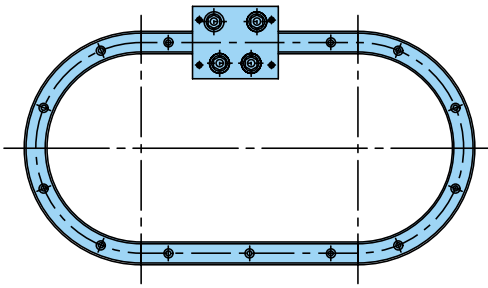
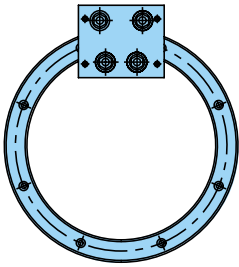
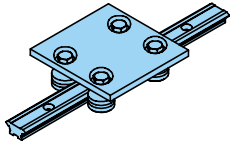
CONSTRUCTION



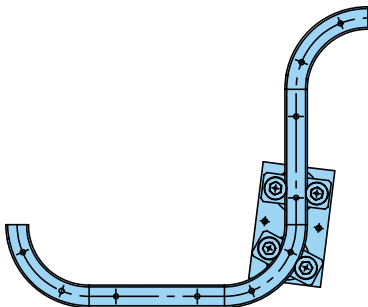
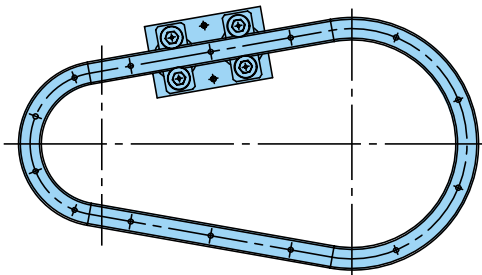
Combinations of

Wide-range variation, either by unit or by

Basic assembly

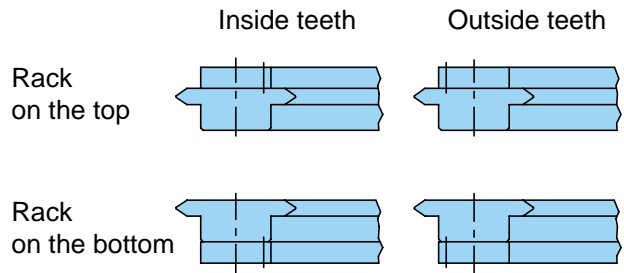


Variation by order

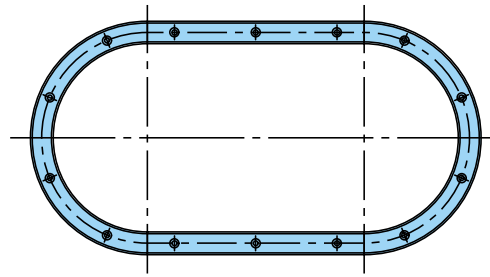


Assembled parts

R assembly of Ring Guide Way

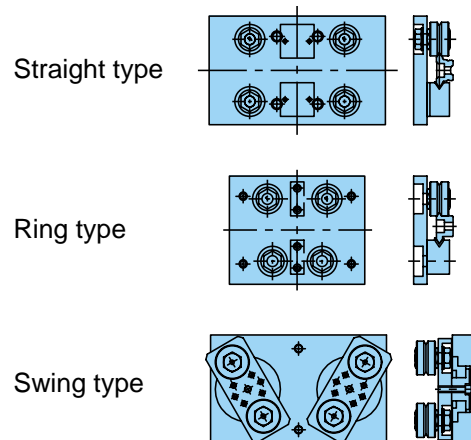


Rail Assembly



Track type

Carriage Assembly

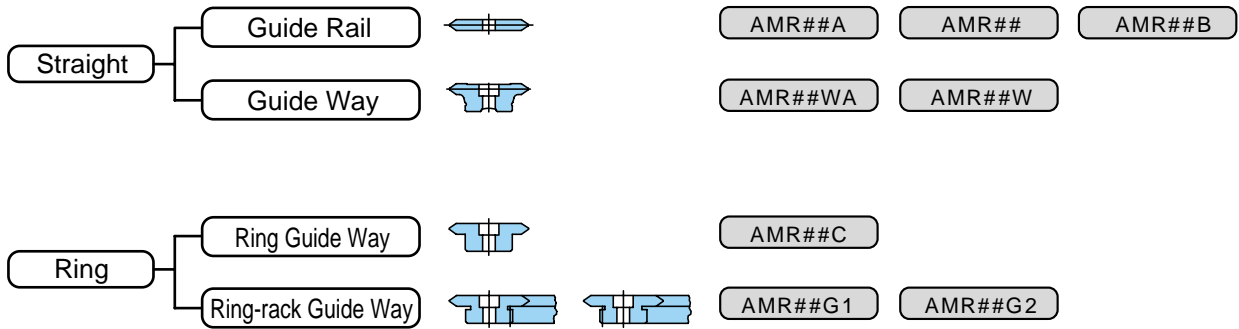




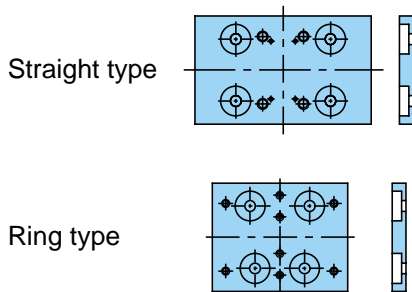
components

Components

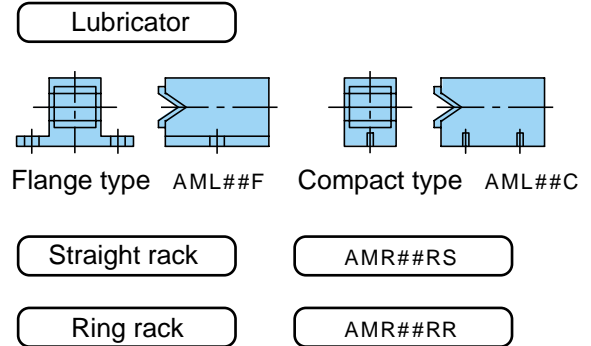
Rail



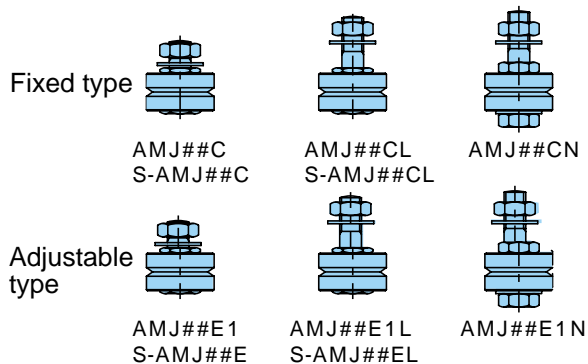
Carriage Plate



Other parts

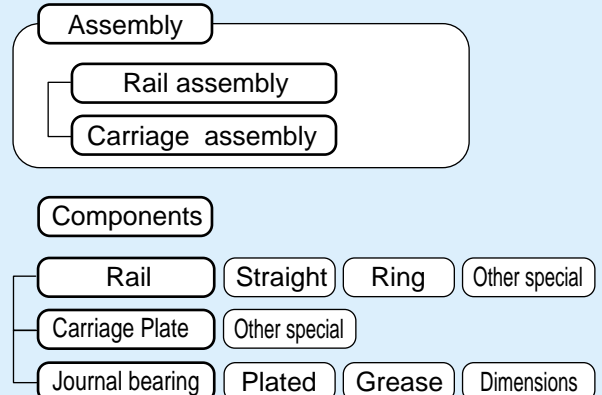


Journal Bearings



Steel Shield type : As above.
 Rubber Seal type : Please add the suffix " -UU ".
 Stainless Series : Please add the prefix " S- ".

Semi-standard / Special



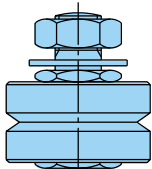
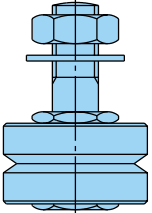
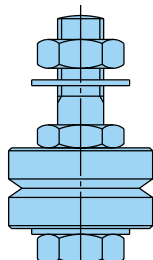
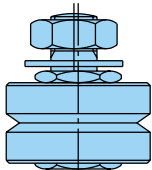
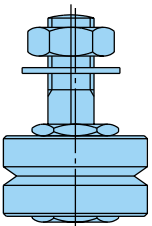
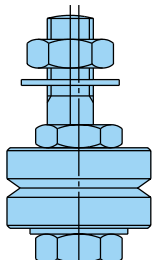
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Journal Bearings

	Short type	Long type	Lock nut type																
Fixed type	 <table border="1"> <thead> <tr> <th>Material</th> <th>Part number</th> </tr> </thead> <tbody> <tr> <td>Standard type</td> <td>AMJ##C AMJ##C - UU</td> </tr> <tr> <td>Stainless type</td> <td>S-AMJ##C S-AMJ##C - UU</td> </tr> </tbody> </table>	Material	Part number	Standard type	AMJ##C AMJ##C - UU	Stainless type	S-AMJ##C S-AMJ##C - UU	 <table border="1"> <thead> <tr> <th>Material</th> <th>Part number</th> </tr> </thead> <tbody> <tr> <td>Standard type</td> <td>AMJ##CL AMJ##CL - UU</td> </tr> <tr> <td>Stainless type</td> <td>S-AMJ##CL S-AMJ##CL - UU</td> </tr> </tbody> </table>	Material	Part number	Standard type	AMJ##CL AMJ##CL - UU	Stainless type	S-AMJ##CL S-AMJ##CL - UU	 <table border="1"> <thead> <tr> <th>Material</th> <th>Part number</th> </tr> </thead> <tbody> <tr> <td>Standard type</td> <td>AMJ##CN AMJ##CN - UU</td> </tr> </tbody> </table>	Material	Part number	Standard type	AMJ##CN AMJ##CN - UU
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Material	Part number																		
Standard type	AMJ##CN AMJ##CN - UU																		
Adjustable type	 <table border="1"> <thead> <tr> <th>Material</th> <th>Part number</th> </tr> </thead> <tbody> <tr> <td>Standard type</td> <td>AMJ##E1 AMJ##E1 - UU</td> </tr> <tr> <td>Stainless type</td> <td>S-AMJ##E S-AMJ##E - UU</td> </tr> </tbody> </table>	Material	Part number	Standard type	AMJ##E1 AMJ##E1 - UU	Stainless type	S-AMJ##E S-AMJ##E - UU	 <table border="1"> <thead> <tr> <th>Material</th> <th>Part number</th> </tr> </thead> <tbody> <tr> <td>Standard type</td> <td>AMJ##E1L AMJ##E1L - UU</td> </tr> <tr> <td>Stainless type</td> <td>S-AMJ##EL S-AMJ##EL - UU</td> </tr> </tbody> </table>	Material	Part number	Standard type	AMJ##E1L AMJ##E1L - UU	Stainless type	S-AMJ##EL S-AMJ##EL - UU	 <table border="1"> <thead> <tr> <th>Material</th> <th>Part number</th> </tr> </thead> <tbody> <tr> <td>Standard type</td> <td>AMJ##E1N AMJ##E1N - UU</td> </tr> </tbody> </table>	Material	Part number	Standard type	AMJ##E1N AMJ##E1N - UU
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Standard type	AMJ##E1N AMJ##E1N - UU																		

Note: 1. ## means standard length of applicable rail. (12mm, 25mm, 44mm, 76mm)
 2. Rubber seal type is identified by the suffix " -UU ".
 3. Refer to P.19 and 20 for mounting.

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stable performance

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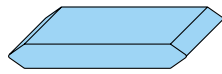
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Rail

Types & features

18 standard sizes are prepared with the maximum length 4020mm. While V-shaped area is heat-treated to HRC50~58, the center area is left soft so that further machining is easy such as for drilling and tapping. Connection is also possible if longer rail is necessary,

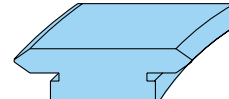
Type	Features
Guide Rail	8 standard sizes are available.
Guide Way	6 standard sizes are available in a supporting-stand shape.
Ring Guide Way	9 standard sizes in 4 types are available, as ring type of Guide Way, with standard maximum diameter 93~1033mm.



Guide Rail



Guide Way



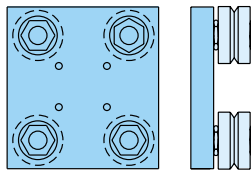
Ring Guide Way

Carriage Plate

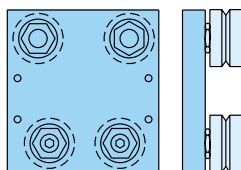
Types & applicable rail

Carriage Plate is an important part of the system, together with journal bearings and other components to be incorporated. Mounting holes for Lubricator are also pre-machined.

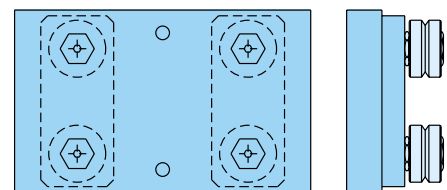
Type	Applicable Rail
Straight	Straight rail (Guide Rail, Guide Way)
Ring	Ring Guide Way in a fixed diameter and combination with straight guide rail (Ring Guide Way, Guide Rail, Guide Way)
Swing	For S-shaped movement on any type of rails in a fixed width



Straight type



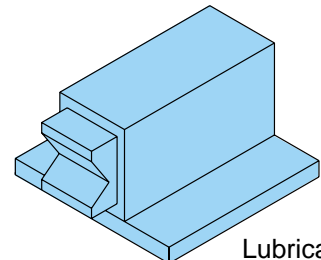
Ring type



Swing type

Lubricator (option)

Lubricator is used, being mounted to a carriage plate, to spread lubricant on V-shaped surface of rail during operation. High lubrication effect is obtainable, and foreign articles are removable from V-shaped surface, so that load capacity, service life and maximum speed are increased. (Recommendable lubricant is Tona oil of Showa Shell.)



Lubricator

Rack (option)

Guide Way/Rail with racks are also available as below :-

Guide Way with racks : The Guide Way is machined to have racks in itself.

Guide Rail with racks : The supporting rail is machined to have racks.

These Guide Way/Rail provide compact and economical design.

RAIL

Guide Rail • Guide Way

Material : SCM435 (Chrome molybdenum steel)
 SUS: AMR 12 (12mm)only
 V-shaped area hardness : HRC50 ~ 58 (High-frequency hardened)
 V-angle tolerance : 70 ° ± 30
 Straightness : 0.2mm/m
 Parallelness : 0.2mm/m
 Tolerance for mounting holes pitch : ± 0.2mm
 Roughness at V-area : 15S
 Surface Treatment : Hard-Chromium-Plated

Ring Guide Way

Material : S45C
 V-shaped area hardness : HRC50 ~ 58 (High-frequency hardened)
 V-angle tolerance : 70 ° ± 30
 Tolerance of mounting hole angle : ± 12
 Roughness at V-area : 15S
 Surface Treatment : Hard-Chromium-Plated

JOURNAL BEARING

Standard Series
 Material Ball Bearing : SUJ (bearing steel), hardness: HRC60 ~ 64
 SUS: AMJ 12 only
 Bearing Shield : SPCC (Shield Type)
 Seal : NBR (Rubber Seal Type)
 Stud (Journal) : S45C
 Nut : S45C
 Washer : SS41
 Hexagonal screw : SCM435
 Lubricant : Shell Alvania Grease No.3
 Operating Temperature Range : - 20 ~ 120
 Stainless Series
 Material Ball Bearing : SUS440C (equivalent)
 Stud, etc : SUS304
 Operating Temperature Range : - 20 ~ 120
 Maximum Operating Speed

Size number	12	25	44	76
Non re-lubricable type, m/sec.	1.5	1.5	1.5	1.5
Re-lubricable type, m/sec.	2	2	2	2

CARRIAGE PLATE

Material : Aluminum-alloy
 Surface Treatment : Black Anodic Oxide coating

CONNECTION ACCURACY

Space : 0.2 mm or less
 Difference in level of V-shaped surfaces : 0.03mm or less

Specifications are subject to change without prior notice.



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Rail

Size number	Parts number			
	12 mm	25 mm	44 mm	76 mm
Guide Rail	AMR12XL	AMR25XL	AMR44XL	AMR76XL
	-	AMR25AXL	AMR44AXL	AMR76AXL
	-	-	-	AMR76BXL
Guide Way	-	AMR25WXL	AMR44WXL	AMR76WXL
	-	AMR25WAXL	AMR44WAXL	AMR76WAXL
Ring Guide Way	AMR12CX93(A,B,C)	AMR25CX159(A,B,C)	AMR44CX468(A,B,C)	AMR76CX799(A,B,C)
	AMR12CX127(A,B,C)	AMR25CX255(A,B,C)	AMR44CX612(A,B,C)	AMR76CX1033(A,B,C)
		AMR25CX351(A,B,C)		

- Note: 1. The above size number shows width of rail.
 2. See P.13 and 14 for length and other dimensions.
 3. Put total length of rail in place of symbol“ L ”.
 4. As for Ring Guide Way, numbers after“ x ”show ring diameter (dimension“ A ”).
 Symbols“ A ”,“ B ”, and“ C ”in parentheses show ring angle, respectively. See P.13.

Journal Bearings

Size number	Parts number				Fix / Adjust	Sealing
	12 mm	25 mm	44 mm	76 mm		
Short type	AMJ12C	AMJ25C	AMJ44C	AMJ76C	Fixed	Shield
	AMJ12E1	AMJ25E1	AMJ44E1	AMJ76E1	Adjustable	
	AMJ12C-UU	AMJ25C-UU	AMJ44C-UU	AMJ76C-UU	Fixed	Rubber Seal
	AMJ12E1-UU	AMJ25E1-UU	AMJ44E1-UU	AMJ76E1-UU	Adjustable	
Long type	AMJ12CL	AMJ25CL	AMJ44CL	AMJ76CL	Fixed	Shield
	AMJ12E1L	AMJ25E1L	AMJ44E1L	AMJ76E1L	Adjustable	
	AMJ12CL-UU	AMJ25CL-UU	AMJ44CL-UU	AMJ76CL-UU	Fixed	Rubber Seal
	AMJ12E1L-UU	AMJ25E1L-UU	AMJ44E1L-UU	AMJ76E1L-UU	Adjustable	
Lock-nut type	AMJ12CN	AMJ25CN	AMJ44CN	AMJ76CN	Fixed	Shield
	AMJ12E1N	AMJ25E1N	AMJ44E1N	AMJ76E1N	Adjustable	
	AMJ12CN-UU	AMJ25CN-UU	AMJ44CN-UU	AMJ76CN-UU	Fixed	Rubber Seal
	AMJ12E1N-UU	AMJ25E1N-UU	AMJ44E1N-UU	AMJ76E1N-UU	Adjustable	

- Note: 1. The above size number corresponds to width of rail, respectively.
 2. Symbol “ C ”is used for fixed type, and “ E1 ”or “ E ”for adjustable type.
 3. Dimensions are shown on P.17.
 4. Stainless series are also available. Refer to P17 for detail.

Carriage Plate

Size number	Parts number			
	12 mm	25 mm	44 mm	76 mm
Straight type	AMP12(A,B,C)	AMP25(A,B,C)	AMP44(A,B,C)	AMP76(A,B,C)
	-	AMP25A(A,B,C)	AMP44A(A,B,C)	AMP76A(A,B,C)
	-	-	-	AMP76B(A,B,C)
Ring type	AMP12C x 93	AMP25C x 159	AMP44C x 468	AMP76C x 799
	AMP12C x 127	AMP25C x 255	AMP44C x 612	AMP76C x 1033
		AMP25C x 351		
Swing type	AMS12	AMS25	AMS44	AMS76

- Note: 1. The above size number corresponds to width of rail, respectively.
 2. Dimensions are shown on P.15 and 16.

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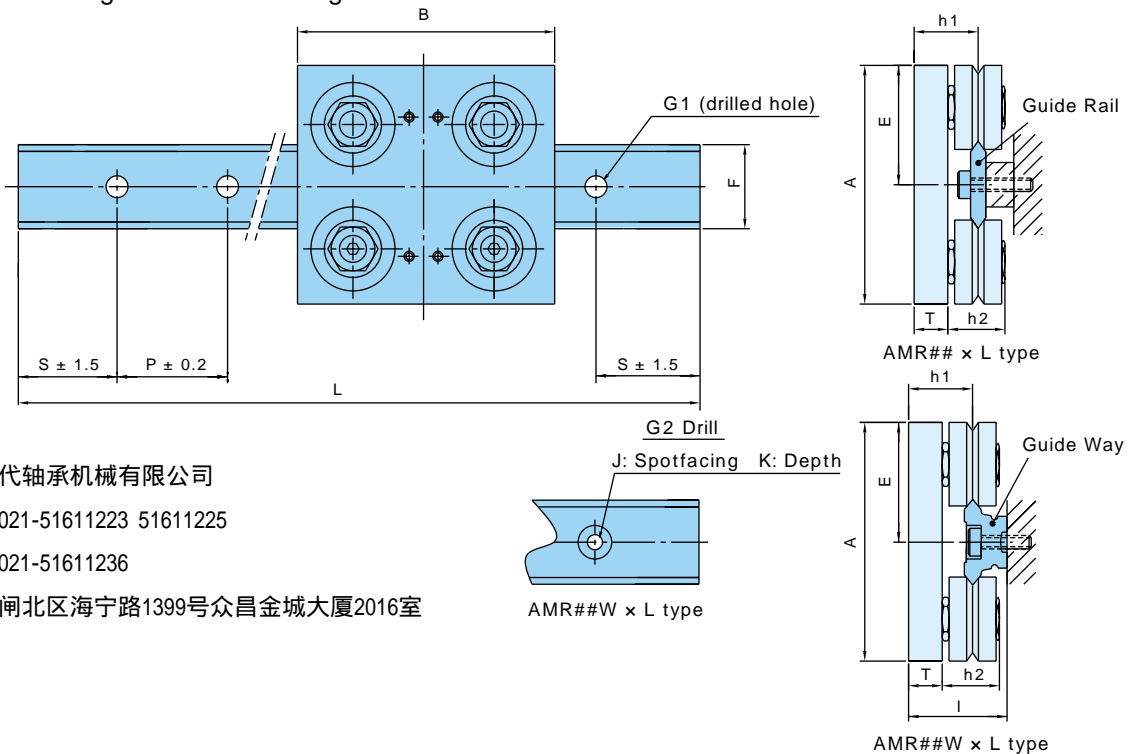
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Straight type

- Motion Guide Set -

Long guide system becomes possible by connecting Guide Rail and Guide Way.

1. Maximum length per rail is 3956mm. Please connect the rails for more than maximum rail length.
2. No-mounting-hole types are prepared as: W2 and R2, if you machine mounting holes by yourselves. Please designate when ordering.



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AMR##W x L type

AMR##W x L type

Straight type-Motion Guide Set

Set number	Components			A	B	E
	Guide Rail	Journal Bearings	Carriage Plate			
AM12 x L-P(A,B,C)	T-AMR12 x L	AMJ12C	AMP12A	40	50	20
			AMP12B		75	
AM12W x L-P(A,B,C)	T-AMR12W x L	AMJ12EI	AMP12C		100	
AM25 x L-P(A,B,C)	T-AMR25 x L	AMJ25C	AMP25A	80	80	40
			AMP25B		130	
AM25W x L-P(A,B,C)	T-AMR25W x L	AMJ25EI	AMP25C		180	
AM44 x L-P(A,B,C)	T-AMR44 x L	AMJ44C	AMP44A	115	125	57.5
			AMP44B		175	
AM44W x L-P(A,B,C)	T-AMR44W x L	AMJ44EI	AMP44C		225	
AM76 x L-P(A,B,C)	T-AMR76 x L	AMJ76C	AMP76A	185	200	92.5
			AMP76B		300	
AM76W x L-P(A,B,C)	T-AMR76W x L	AMJ76EI	AMP76C		400	

- Note: 1. Put total length of rail in mm in place of symbol " L ".
 2. Suffix " A ", " B " and " C " mean length of carriage plate, respectively. See dimension table on P.15 and 16.
 3. Please order in mm for the length " L " within the range shown on the above table.
 4. Maximum length is 4020mm for no-mounting hole types.



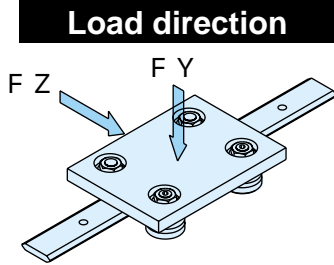
type at every scene !!

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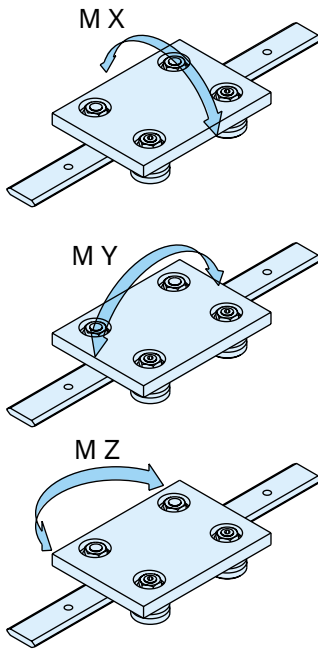
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Assembly

Numbering System - Straight type



Moment



Example: **AM 25 W × 6000 - PA 2 L**

- AM**: Symbol of ASAHI Motion Guide Set
- 25**: Rail width (12,25,44,76 in mm)
- W**: Rail type [No indication : Guide Rail, W: Guide Way]
- 6000**: Total rail length (mm)
- PA**: Length of carriage plate (See " B " dimension below) [PA Short, PB Medium, PC Long]
- 2**: Numbers of carriage assembly (See below)
- L**: Lubricator. No indication if not necessary.

Capacity Table of Carriage assembly

Note: Carriage Assembly consists of a carriage plate and journal bearings mounted, and is shown by suffix " JX ".

Carriage assembly number	Capacity					Wt. (g)
	Load capacity (N)		Moment capacity (Nm)			
	FY	FZ	MX	MY	MZ	
AMP12AJX	392	196	4.3	6.9	3.4	35
AMP12BJX			4.3	11.8	5.9	51
AMP12CJX			4.3	16.7	8.3	67
AMP25AJX	1764	882	40.6	44.1	22.1	190
AMP25BJX			40.6	30.9	30.9	298
AMP25CJX			40.6	105.8	52.9	406
AMP44AJX	3136	1568	112.9	133.3	66.6	638
AMP44BJX			112.9	156.8	78.4	871
AMP44CJX			112.9	235.2	117.6	1104
AMP76AJX	7056	3528	419.8	493.9	247.0	2087
AMP76BJX			419.8	705.6	352.8	2986
AMP76CJX			419.8	1058.4	529.2	3886

Unit: mm

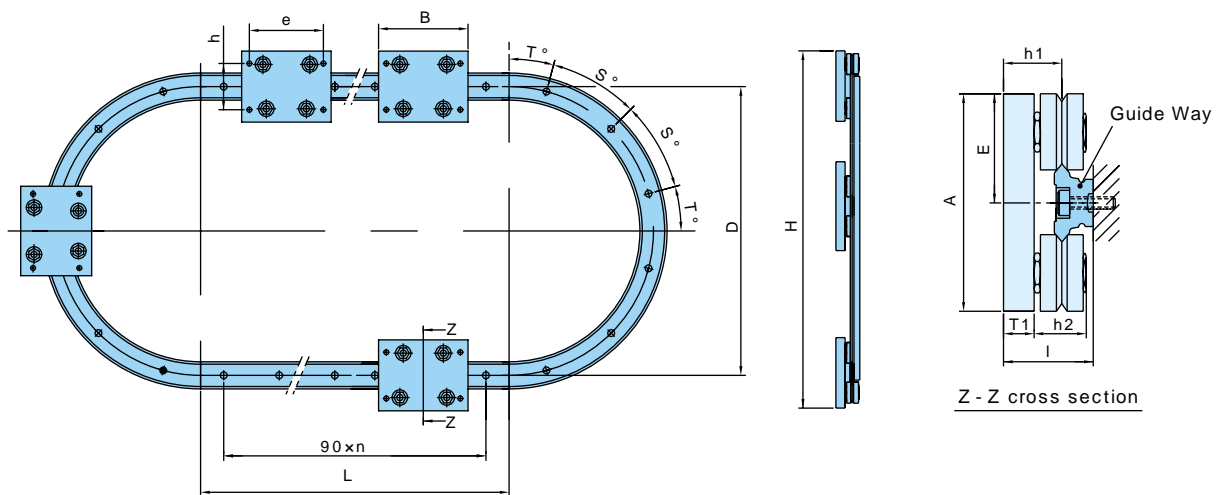
Dimensions											
F	G1	(G2)	(J)	(K)	L	S	P	h1	h2	T	(l)
12	3.3	3.5	6	3.0	120 ~ 330	15	30	11.5	10.5	6	17.7
25	6.5	5.5	10	5.5	266 ~ 3956	43	90	19	17	10	29
44	6.5	7	11	6.5	266 ~ 3956	43	90	26.5	22	15	39
76	10.5	14	20	12.5	446 ~ 3956	43	90	37	35	18	56.5

5. The prefix " T " means that Guide Rail/Way is already machined to be connected.
 6. The dimensions (G2), (J), (K) and (l) are for Guide Way only.

Track type - Motion Guide Set -

Realized connection of straight rail to curved rail.

1. Maximum length per rail is 3956mm.
2. No-mounting-hole types are prepared as; W2 and R2, if you machine mounting holes by yourselves. Please designate when ordering.



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Track type-Motion Guide Set

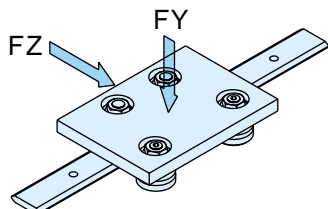
Set number	Components				L	D	H
	Guide Rail	Ring Guide Way	Carriage Plate	Journal Bearings			
AM12TW x L-93BP(L)	T-AMR12W x L	T-AMR12C x 93B	AMP12C x 93	AMJ12C	60 ~	93	113
AM12TW x L-127BP(L)		T-AMR12C x 127B	AMP12C x 127	AMJ12E1		127	167
AM25TW x L-159BP(L)	T-AMR25W x L	T-AMR25C x 159B	AMP25C x 159	AMJ25C	266 ~	159	239
AM25TW x L-255BP(L)		T-AMR25C x 255B	AMP25C x 255	AMJ25E1		255	335
AM25TW x L-351BP(L)		T-AMR25C x 351B	AMP25C x 351			351	431
AM44TW x L-468BP(L)	T-AMR44W x L	T-AMR44C x 468B	AMP44C x 468	AMJ44C	266 ~	468	583
AM44TW x L-612BP(L)		T-AMR44C x 612B	AMP44C x 612	AMJ44E1		612	727
AM76TW x L-799BP(L)	T-AMR76W x L	T-AMR76C x 799B	AMP76C x 799	AMJ76C	446 ~	799	984
AM76TW x L-1033BP(L)		T-AMR76C x 1033B	AMP76C x 1033	AMJ76E1		1033	1218

Note: 1. Put total length of rail in mm in place of symbol " L ".
 2. Please consult us for other width as for Ring Guide Way.
 3. The prefix " T " means that Guide Rail/Way is already machined to be connected.

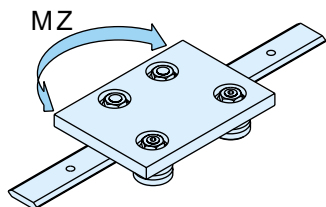
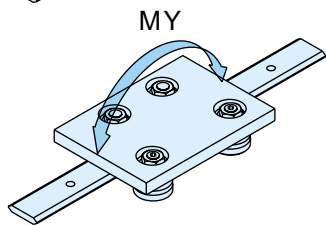
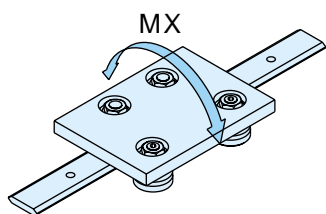


type
to your needs !!

Load direction



Moment



Numbering System - Track type

Example: **AM 25 TS × 6000 - 468 B P 2 L**

Symbol of ASAHI Motion Guide Set

- AM**: Rail width (12,25,44,76 in mm)
- 25**: Rail width (12,25,44,76 in mm)
- TS**: Rail type
 TW: Track type, connected
 TS: Track type, connected, with supporter
- 6000**: Total length of straight rail (mm)
- 468**: Ring diameter
- B**: Angle of Ring Guide Way (A: 90°, B: 180°)
- P**: Length of carriage plate (See "C-1" and "C-2" dimension below)
- 2**: Numbers of carriage assembly (See below)
- L**: Lubricator. No indication if not necessary.

Capacity table of Carriage Assembly

Note: Carriage Assembly consists of a carriage plate and journal bearings mounted, and is shown by suffix " JX ".

Carriage assembly number	Capacity					Wt. (g)
	Load capacity (N)		Moment capacity (Nm)			
	FY	FZ	MX	MY	MZ	
AMP12(C-93)JX	392	196		5.1	2.5	39
AMP12(C-1279)JX	392	196	5.2	4.7	2.4	39
AMP25(C-159)JX	1764	882	5.2	41.9	20.9	222
AMP25(C-255)JX	1764	882	40.7	38.7	19.4	233
AMP25(C-351)JX	1764	882	40.7	40.3	20.2	244
AMP44(C-468)JX	3136	1568	40.7	119.2	59.6	688
AMP44(C-612)JX	3136	1568	112.7	123.6	61.8	710
AMP76(C-799)JX	7056	3528	112.7	369.0	184.5	1997
AMP76(C-1033)JX	7056	3528	418.8	435.7	217.9	2177

418.8

Unit: mm

Dimensions

e	f	S	T	A	B	E	h1	h2	T1	l
45	25	45	22.5	40	55	20	11.5	11	6	17.7
80	50	45	22.5	80	95	40	19.0	17	10	29.0
			100							
85		30	15		105					
120	75	30	15	115	145	57.5	25.5	22	15	38.0
125		22.5	11.25		150					
160	100	22.5	11.25	185	190	92.5	37.0	35	18	56.5
180		18	9		210					

RAIL

Guide Rail
Guide Way
Ring Guide Way

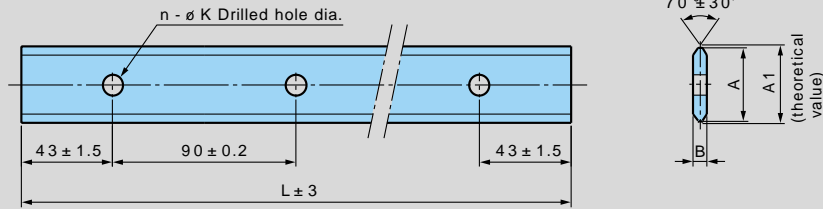
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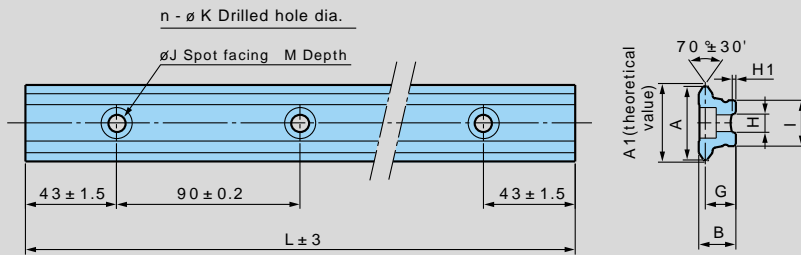
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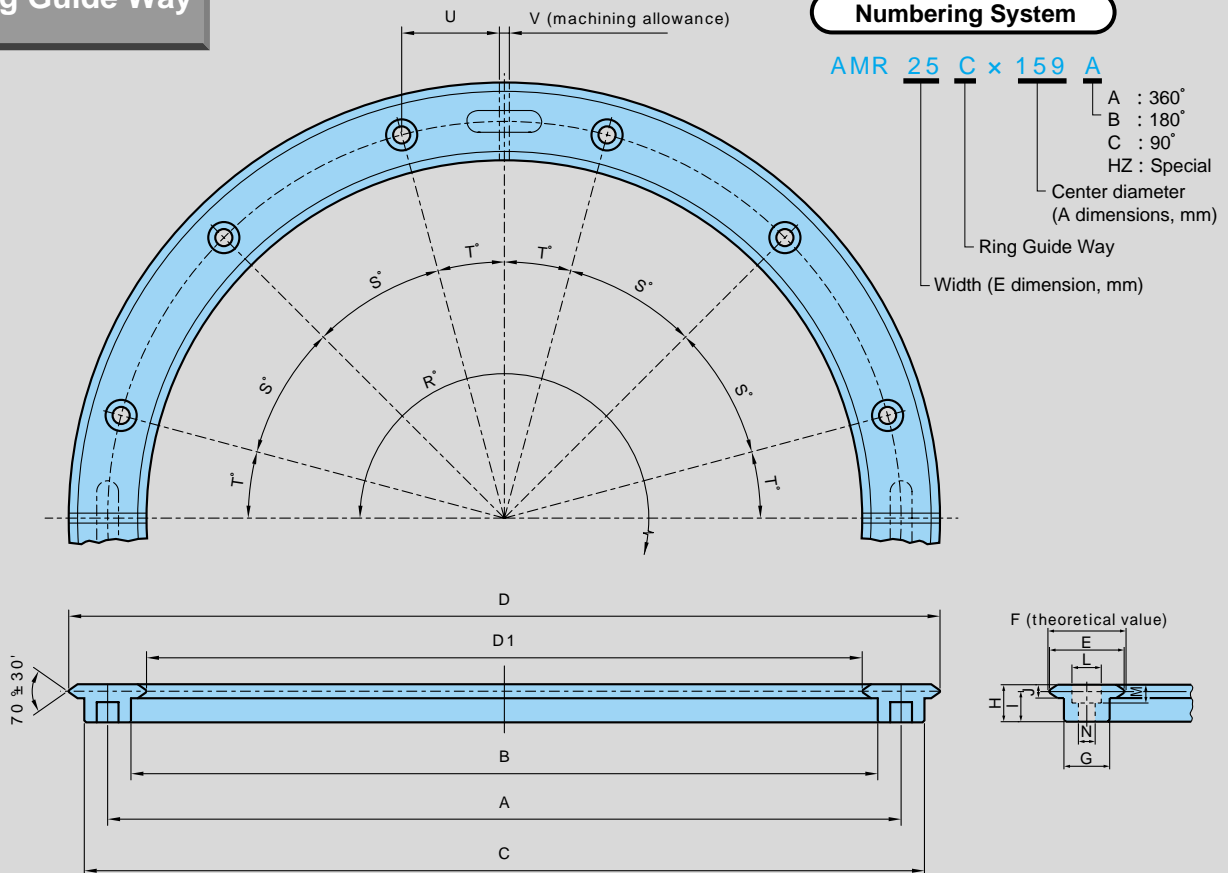
Guide Rail



Guide Way



Ring Guide Way





Guide Rail

Part number	Dimensions(mm)							Nos.of holes n	Mounting Bolt	Wt. kg/m
	A	A1	B	K	S	P	L			
AMR12 x L	12	12.37	3	3.3	15	30	60 ~ 330	2 ~ 11	M3	0.01 ~ 0.07
AMR25 x L	25	25.74	4.5	6.5	43	90	See length and numbers below		M6	0.8
AMR25A x L	25.5	26.58	5	5.5					M5	0.9
AMR44 x L	44	44.74	6	6.5					M6	1.9
AMR44A x L	44.5	45.88	6.5	7					M6	2.1
AMR76 x L	76	76.74	9	10.5					M10	5
AMR76A x L	76.5	77.58	9.5	11.5					M10	5.3
AMR76B x L	76	76.74	6	6.5					M6	3.4

Put length of rail in place of symbol“ L ”.

Guide Way

Part number	Dimensions(mm)											Nos.of holes n	Mounting Bolt	Wt. kg/m	
	A	A1	B	G	H	H1	I	J	K	L	M				
AMR12W x L	12	12.37	7.7	6.2	4	0.5	8.5	6.0	3.5	60~330	3.0	2~11	M3	0.5	
AMR25W x L	25	25.74	12.25	10	6	1.3	15	10	5.5	See length below	5.5	See length below	M5	1.6	
AMR25WA x L	25.5	26.58	12.7	10.2		1.5	15.4						M5	1.7	
AMR44W x L	44	44.74	15.5	12.5	8	1.3	26	11	7				6.5	M6	3.7
AMR44WA x L	44.5	45.88	15.95	12.7		1.5	26.4						M6	3.8	
AMR76W x L	76	76.74	24	19.5	20	1.3	50.5	20	14				12.5	M12	10.6

Length of rail and numbers of drilled holes, applicable to both Guide Rail and Guide Way.

Total length(mm)	176	266	356	446	536	626	716	806	896	986	1076	1166
Nos. of holes n	2	3	4	5	6	7	8	9	10	11	12	13
Total length(mm)	1256	1346	1436	1526	1616	1706	1796	1886	1976	2066	2156	2246
Nos. of holes n	14	15	16	17	18	19	20	21	22	23	24	25
Total length(mm)	2336	2426	2516	2606	2696	2786	2876	2966	3056	3146	3236	3326
Nos. of holes n	26	27	28	29	30	31	32	33	34	35	36	37
Total length(mm)	3416	3506	3596	3686	3776	3866	3956					
Nos. of holes n	38	39	40	41	42	43	44					

Maximum length available is 4020 mm if tapped hole not necessary.

Ring Guide Way Dimensions

Part number	Dimensions(mm)														Nos.of holes R=360°	Wt. kg R=360°				
	A±0.2	D	D1	E	F theoretical value	G	H	I	J	L	N	R°					S±0.2	T±0.2	U	V
AMR12Cx93(A,B,C)	93	105	81	12	12.37	8.6	7.7	6.2	3	6.5	3.7	90	180	360	45	22.5	16.8	1	8	0.16
AMR12Cx127(A,B,C)	127	139	115														23.3			0.22
AMR25Cx159(A,B,C)	159	184	134														29.4			0.77
AMR25Cx255(A,B,C)	255	280	230	47.8	1.2															
AMR25Cx351(A,B,C)	351	376	326	44.4	1.65															
AMR44Cx468(A,B,C)	468	512	424	44	44.74	26	15.5	12.5	6	11	6.8				30	15	58.6	12	5.1	
AMR44Cx612(A,B,C)	612	656	568														57.7		6.7	
AMR76Cx799(A,B,C)	799	875	723	76	76.74	50.5	24	19.5	9	20	14				22.5	11.25	75.9	2	16	25
AMR76Cx1033(A,B,C)	1033	1109	957									78.8	32							

The (A, B, C) shows the angles of cut-off Ring Guide Way. A:360° B:180° C:90°

Components

CARRIAGE PLATE

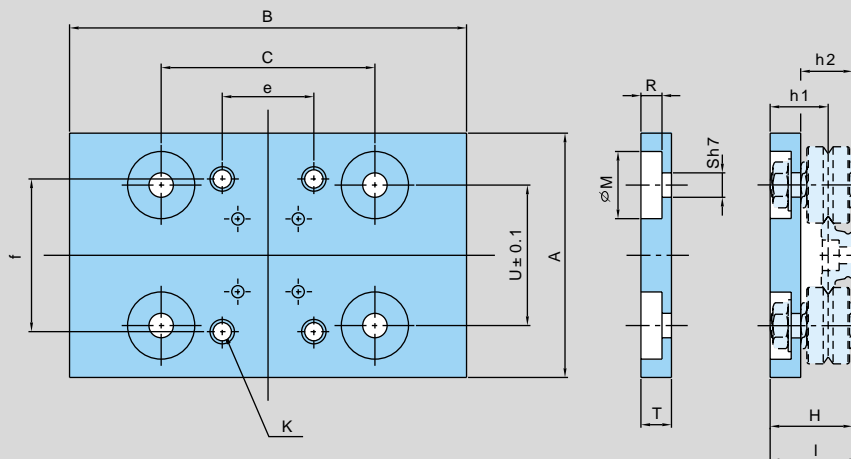
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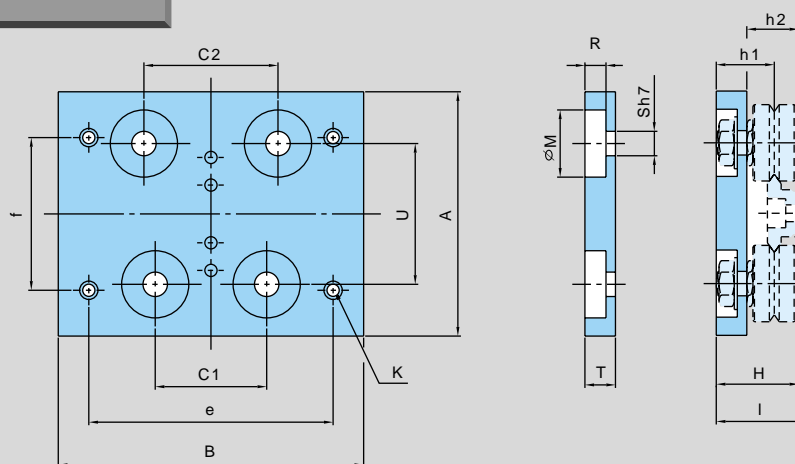
传真：021-51611236

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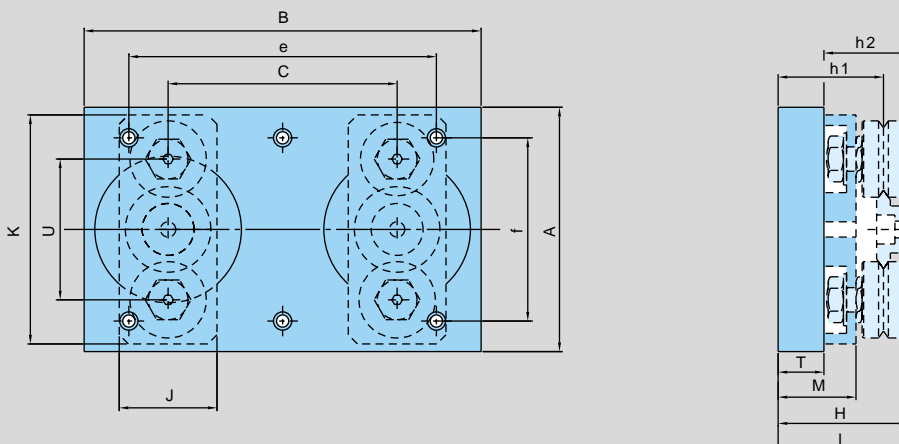
Straight Type



Ring Type



Swing Type





Straight type Carriage Plate

Unit : mm

Part number	Journal Bearings applicable	Rail applicable	Dimensions															Wt. (g)
			U ± 0.1	C	A	B	T	R	M	S	f	e	K	H	I	h1	h2	
AMP12A	AMJ12	AMR12xL	22	35	40	50	6	3.5	12.5	4	25	-	M4	16.5	-	11.5	10.5	27
AMP12B				60		75						25						43
AMP12C				85		100						50						59
AMP25A	AMJ25	AMR25xL	46	50	80	80	10	6.9	22	8	50	18	M6	27	29	19	17	140
AMP25B				70		130						30						248
AMP25C				120		180						50						356
AMP44A	AMJ44	AMR44xL	72	85	115	125	15	8.5	25	10	75	48	M8	37	39	26.5	22	523
AMP44B				100		175						50						756
AMP44C				150		225						50						989
AMP76A	AMJ76	AMR76xL	119	140	185	200	18	11.5	32	14	125	60	M10	53	-	37	35	1,672
AMP76B				200		300						80						2,571
AMP76C				300		400						180						3,471
AMP25AA	AMJ25	AMR25AxL	47	50	80	80	10	6.9	22	8	50	18	M6	27	29	19	17	140
AMP25AB				70		130						30						248
AMP25AC				120		180						50						356
AMP44AA	AMJ44	AMR44AxL	73	85	115	125	15	8.5	25	10	75	48	M8	37	39	26.5	22	523
AMP44AB				100		175						50						756
AMP44AC				150		225						50						989
AMP76AA	AMJ76	AMR76AxL	120 ± 0.1	140	185	200	18	11.5	32	14	125	60	M10	53	-	37	35	1,672
AMP76AB				200		300						80						2,571
AMP76AC				300		400						180						3,471

Note: 1. Put length of rail in place of symbol "L".
 2. AMP 76 (A,B,C) is applicable also to Guide Rail AMR76BxL. See table on P.14.

Ring type Carriage Plate

Unit : mm

Part number	Journal Bearings applicable	Ring Guide Way applicable	Dimensions															Wt. (g)	
			U	C1	C2	A	B	T	R	M	S	f	e	K	H	I	h1		h2
AMP12(C-93)	AMJ12	AMR12Cx93(A,B,C)	22	20	25.9	40	55	6	3.5	11	4	25	45	M4	16.5	17.7	11.5	11	31
AMP12(C-127)		AMR12Cx127(A,B,C)			24.1														31
AMP25(C-159)	AMJ25	AMR25Cx159(A,B,C)	46.1	36.5	47.5	80	100	10	6.9	22	8	50	80	M6	27	29	19	17	172
AMP25(C-255)		AMR25Cx255(A,B,C)			43.9								183						
AMP25(C-351)		AMR25Cx351(A,B,C)			45.7								105						85
AMP44(C-468)	AMJ44	AMR44Cx468(A,B,C)	71.9	65	76.0	115	145	15	8.5	25	10	75	120	M8	36	38	25.5	22	573
AMP44(C-612)		AMR44Cx612(A,B,C)		78.8	150		125						595						
AMP76(C-799)	AMJ76	AMR76Cx799(A,B,C)	118.7	90	104.6	185	190	18	11.5	32	14	100	160	M10	53	56.5	37	35	1,582
AMP76(C-1033)		AMR76Cx1033(A,B,C)		110	123.5		210						180						1,762

Swing type Carriage Plate

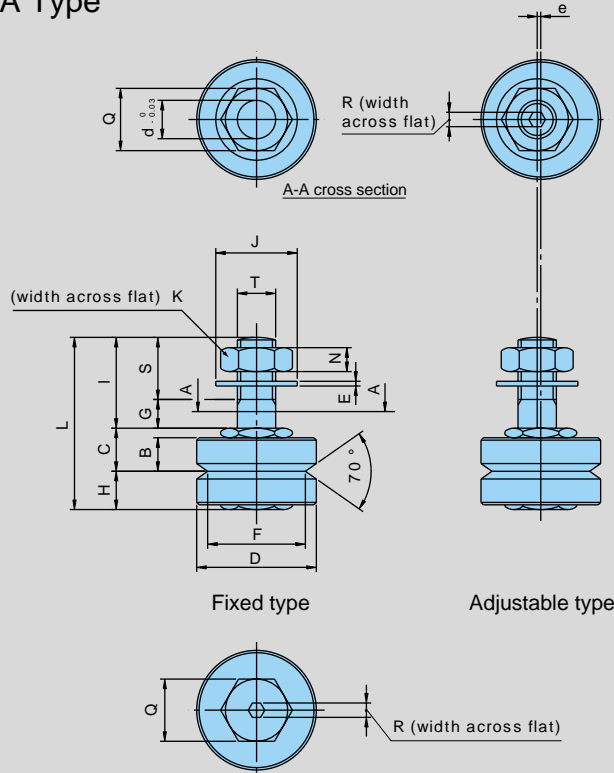
Unit : mm

Part number	Journal Bearings applicable	Rail applicable	Dimensions												Wt. (g)		
			B	A	H	I	U	C	e	f	K	f	K	T		M	h1
AMS12	AMJ12	AMR12	65	40	26.4	28	22	30	25	30	M4 x 0.7	16.0	36	10	16.3	21.8	0
AMS25	AMJ25	AMR25	130	80	42.5	42.5	46.1	75.0	90.0	60.0	M6 x 1	32	75	15	25.5	34.5	0.8
AMS44	AMJ44	AMR44	175	115	54.5	54.5	71.9	105.0	125.0	85.0	M8 x 1.25	38	105	18	32.5	44.0	2.1
AMS76	AMJ76	AMR76	240	185	77.2	77.5	118.7	130.0	175.0	125.0	M10 x 1.5	50	170	25	42.5	61.5	6.3

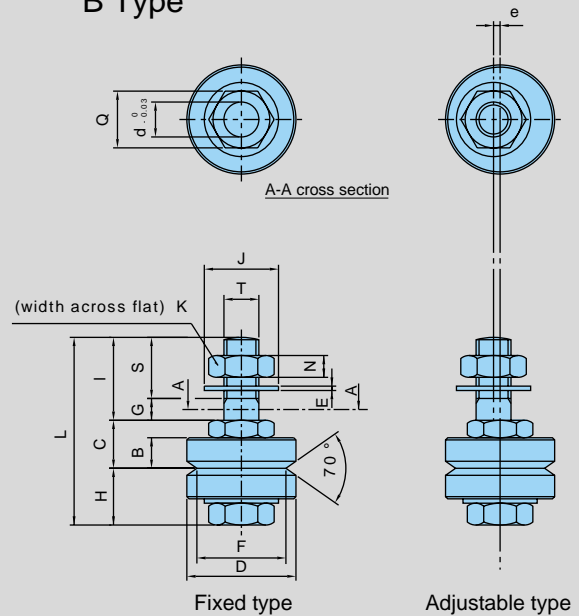
Note: Swing type carriage plate is applicable to S-shaped curve and track type system in combination with different curve diameters. This is also suitable when much stable travel performance is required.

Components

A Type



B Type



Journal Bearings Dimensions

Journal No.		Type	Dimensions (mm)																	Wt. (g)	Max. Allowable Load (N)	Tightening Torque (Ncm)		
Standard Series	Stainless Series		L	B	C	H	I	D	F	d	T	S	G	Q	E	J	N	K	P				R	e
AMJ12C	S-AMJ12C	A	17	4	5.5±0.2	5	6	13	9.63	4	M4x0.5	3.5	2.5	8	0.8	9	2.4	7	-	-	0	8	98	166
AMJ12E1	S-AMJ12E		0.5(1.3)																					
AMJ12CL	S-AMJ12CL		7									2.5	0											
AMJ12E1L	S-AMJ12EL		0.5(1.3)																					
AMJ12CN	-	B	22	7.13	7.2	8	13	9.63	4	M4x0.7	4.8	3.2	8	0.8	9	2.4	7	-	-	0	11	98	147	
AMJ12E1N	-		0.5																					
AMJ25C	S-AMJ25C	A	27	7	9±0.2	8	10	25	20.4	8	M8x1.0	6.5	3.5	13	1.0	17	5	13	3	-	0	50	441	1293
AMJ25E1	S-AMJ25E		3									0.75(2.0)												
AMJ25CL	S-AMJ25CL		13									6	0								0			
AMJ25E1L	S-AMJ25EL		3									0.75(2.0)												
AMJ25CN	-	B	43	11	13	19	25	20.4	8	M8x1.0	14	5	13	1.0	17	5	13	-	-	0	60	441	1294	
AMJ25E1N	-		1.5																					
AMJ44C	S-AMJ44C	A	36	9	11.5±0.2	11	14	34	27.17	10	M10x1.25	8	6	17	1.2	21	6	17	4	-	0	115	784	2508
AMJ44E1	S-AMJ44E		4									1.0(2.5)												
AMJ44CL	S-AMJ44CL		15									7	0								0			
AMJ44E1L	S-AMJ44EL		4									1.0(2.5)												
AMJ44CN	-	B	52	13	18	21	34	27.17	10	M10x1.25	15	6	17	1.2	21	6	17	-	-	0	140	784	2538	
AMJ44E1N	-		1.5																					
AMJ76C	S-AMJ76C	A	53	14	19±0.2	16	18	54	42	14	M14x1.5	11	7	27	1.5	28	8	22	8	-	0	415	1764	7134
AMJ76E1	S-AMJ76E		6									1.5(4.5)												
AMJ76CL	S-AMJ76CL		21									9	0								0			
AMJ76E1L	S-AMJ76EL		6									1.5(4.5)												
AMJ76CN	-	B	74	22	24	28	54	42	14	M14x1.5	17	11	27	1.5	28	8	22	-	-	0	550	1764	7134	
AMJ76E1N	-		2.7																					

Note: 1. Please consult us for the bigger eccentricity. (See "e" dimension)
 2. "F a" is diameter of V-contacting points.
 3. The figures in () of the "e" dimension are for stainless steel journal bearing.
 4. Journal bearing with seals is also available. For order, please add suffix "UU".



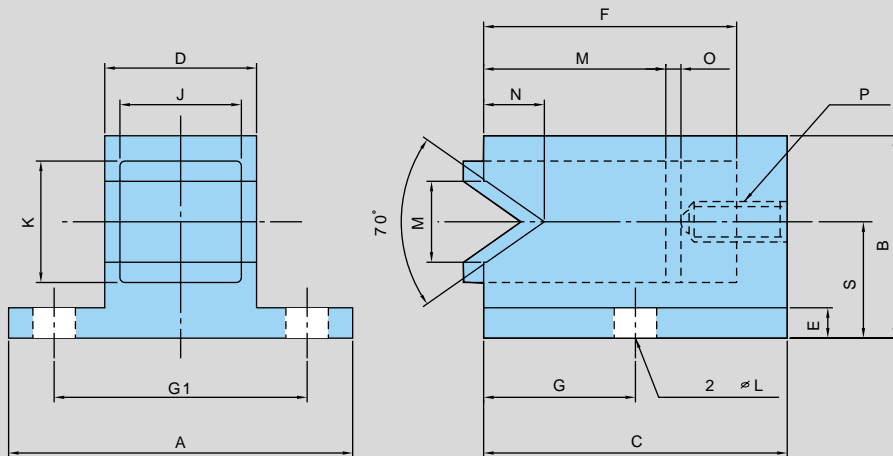
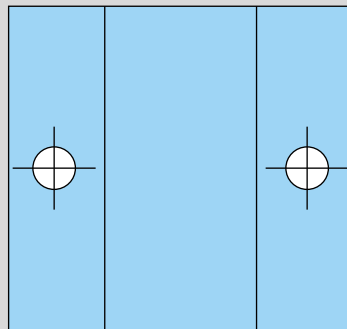
Covered in shock-resistant plastic case, Lubricator has oil-contained felt wiper, which spreads lubricant film on V-shaped surface of Guide Rail. This also prevents wear of rail, and significantly increases load capacity and life of the system.

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Lubricator for straight rail

Unit : mm

Part number	Application		Dimensions															
	Journal bearing	Rail	A	B	C	D	E	F	G	G1	H	J	K	L	M	N	O	P
AML12 F	AMJ12C(L)	AMR12	17	10	13	5	2	10	6.5	12	3.2	3	3	2.7	4	2.5	1.5	M3
	AMJ12E1(L)																	
AML25 F	AMJ25C(L)	AMR25	25	16.5	25	10	2	20	12.5	18	6	7	7	3.2	16	5	1.5	M3
	AMJ25E1(L)																	
AML44 F	AMJ44C(L)	AMR44	34	20	30	15	2.4	25	15	25	8	12	12	4.2	18	6	1.5	M4
	AMJ44E1(L)																	
AML76 F	AMJ76C(L)	AMR76	50	33.5	55	22	4.5	45	27.5	38	10	18	18	5.2	30	11	1.5	M4
	AMJ76E1(L)																	

Note: Lubricator for Ring Guide is also available. Please consult us.

Assembly Manual

1. Journal Bearings to Carriage Plate

As shown on a sketch below, please mount fixed types (AMJ##C) Journal Bearings to one side of Carriage plate, and adjustable types (AMJ##E1, or AM##E) to the other, following the direction of rail. In case of Ring type carriage plate, the fixed type bearings should be mounted to the side where mounting-hole distance is shorter.

2. Mounting to rail

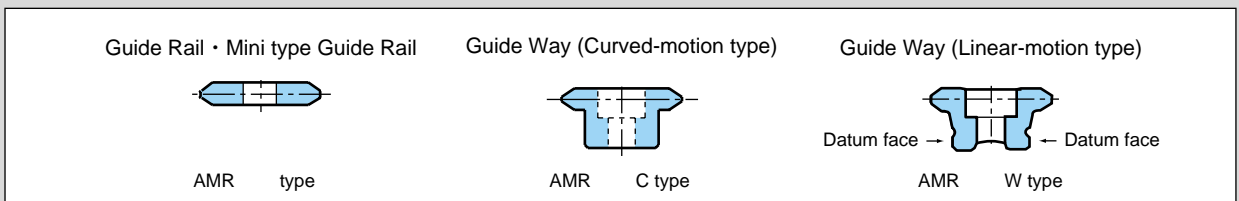
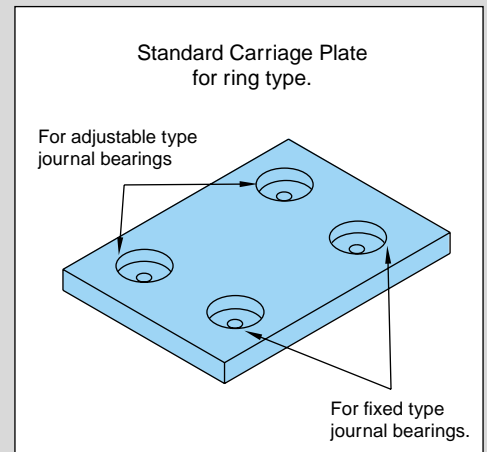
1. Journal bearings AMJ##E1 type (with smaller eccentricity)

Carriage Assembly shall be mounted from the end of rail.

2. Journal bearings AMJ##E type (with bigger eccentricity)

Carriage Assembly can be mounted either from the upside of the rail or if possible from the end of rail.

- Note:1 Please do not put any overstress when mounting.
2 In case of Guide Way, please choose either side of supporting portion as datum face, and set the fixed type bearings at the datum-face side.



3. Clearance between Journal Bearings and Rail

Please adjust by using the following portion:

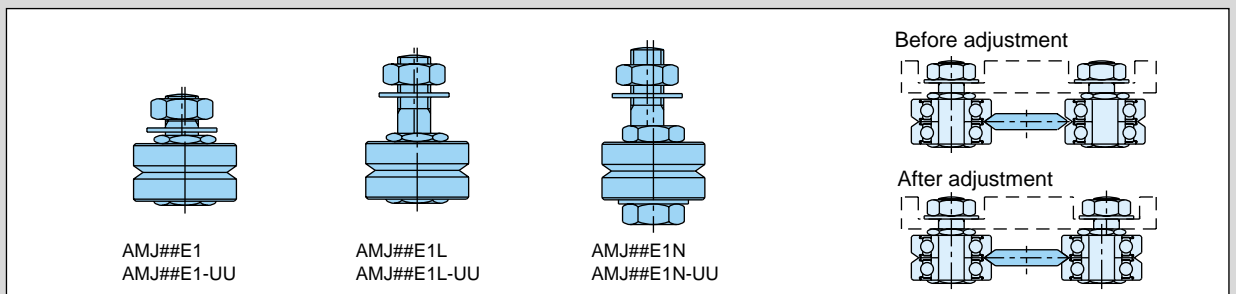
Short type AMJ##E1/E, Long type AMJ##E1L/EL:

Adjust a hexagonal nut at stud neck by spanner.

Or, adjust hexagonal key socket either at the tail of stud or at bearing head by key socket wrench.

Lock-nut type AMJ##EN:

Adjust a hexagonal nut at stud neck by spanner.



4. Components of Motion Guide Systems

Motion Guide Systems are composed of various combinations between rail and appropriate carriage plate.



5. Careful attention to adjustment

Standard carriage assembly

Please fix a carriage plate and rotate only journal bearings by hands, and adjust to the extent where there causes a slight slipping resistance. After then, please adjust to the condition where moving power becomes the recommended value shown below, by putting load by push-pull gauge to the running direction of carriage plate.

Before that, please ensure the clearance between rail and all 4 bearings is zero. Appropriate pre-load applied by fastening adjustable bearings leads to "no-clearance" status and provides more rigidity of the system. However, over pre-load may cause decreasing service life of the bearings, so please pay careful attention.

Recommended pre-load bu push-pull gauge

Journal bearing size	Pre-load(N)	Journal bearing size	Pre-load(N)
AMJ12	0.8	AMJ44	2
AMJ25	1	AMJ76	3

Swing carriage assembly

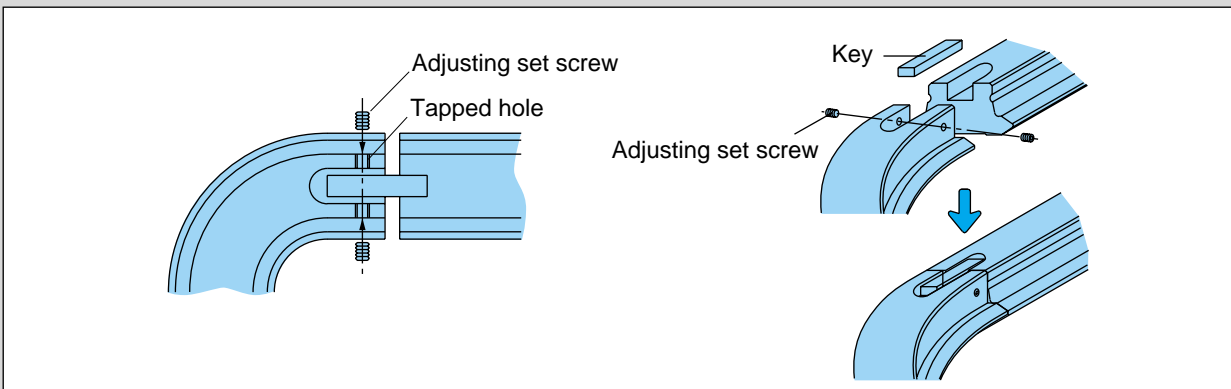
Swing carriage assembly will be supplied after mounting and adjusting bearings to carriage plate at our factory.

N.B.

By request, mounting and adjustment will be done at our factory before delivery if a set of journal bearings, carriage plates and rails are ordered.

Please joint by the following procedures.

- 1) First please mount straight Guide Way to a machine frame.
- 2) Please set Ring Guide Way to the straight Guide Way as illustrated, and hold a key temporarily by set screws.
- 3) Please move a carriage assembly through the joint, and find the best position of Ring Guide Way, by adjusting set screws, to enable the carriage assembly to smoothly go through the joint.
- 4) Please fix the Ring Guide Way to the machine frame at the best position.

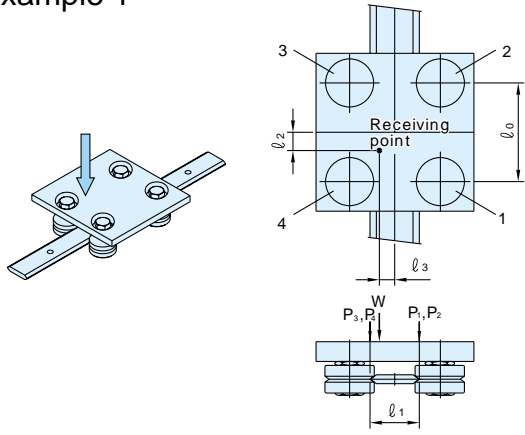
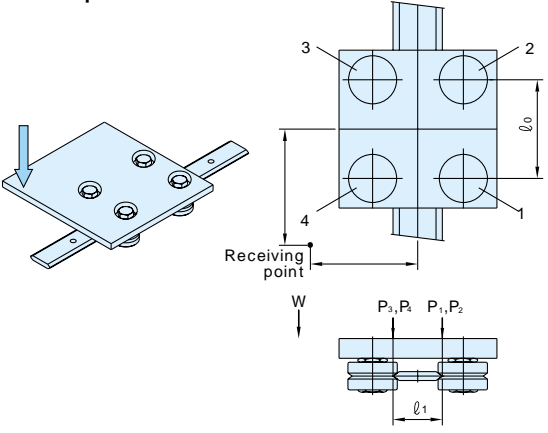
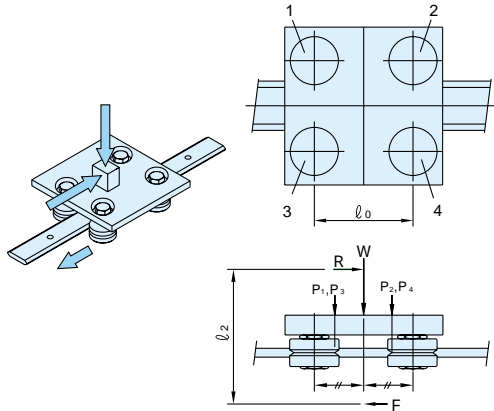


- By request, the joint and adjustment will be done at our factory as long as there is no problem in packaging and transportation.

LOAD CAPACITY

Load capacity of the Motion Guide System varies by such as position of center of works 'gravity, position of driving force, speed changes for start and stop, and other effects.
For selection, please calculate load capacity in consideration of these factors as necessary.

W : Load on the system (N)
P_n : Radial load on journal bearings (N)
P_{nT} : Thrust load on journal bearings (N)

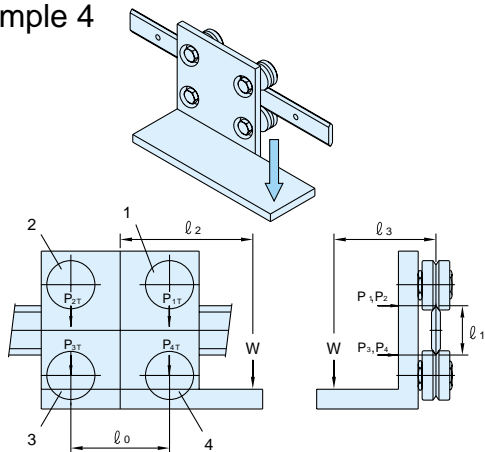
<p>Example 1</p> 	$P_1 = \frac{W}{4} + \frac{W}{2} \times \frac{l_2}{l_0} - \frac{W}{2} \times \frac{l_3}{l_1}$ $P_2 = \frac{W}{4} - \frac{W}{2} \times \frac{l_2}{l_0} - \frac{W}{2} \times \frac{l_3}{l_1}$ $P_3 = \frac{W}{4} - \frac{W}{2} \times \frac{l_2}{l_0} + \frac{W}{2} \times \frac{l_3}{l_1}$ $P_4 = \frac{W}{4} + \frac{W}{2} \times \frac{l_2}{l_0} + \frac{W}{2} \times \frac{l_3}{l_1}$
<p>Example 2</p> 	$P_1 = \frac{W}{4} + \frac{W}{2} \times \frac{l_2}{l_0} - \frac{W}{2} \times \frac{l_3}{l_1}$ $P_2 = \frac{W}{4} - \frac{W}{2} \times \frac{l_2}{l_0} - \frac{W}{2} \times \frac{l_3}{l_1}$ $P_3 = \frac{W}{4} - \frac{W}{2} \times \frac{l_2}{l_0} + \frac{W}{2} \times \frac{l_3}{l_1}$ $P_4 = \frac{W}{4} + \frac{W}{2} \times \frac{l_2}{l_0} + \frac{W}{2} \times \frac{l_3}{l_1}$
<p>Example 3</p> 	$P_1 = P_3 = \frac{W}{4} - \frac{R}{2} \times \frac{l_2}{l_0}$ $P_2 = P_4 = \frac{W}{4} + \frac{R}{2} \times \frac{l_2}{l_0}$



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Example 4



$$P_1 = P_2 = - \frac{W}{2} \times \frac{l_3}{l_1}$$

$$P_3 = P_4 = \frac{W}{2} \times \frac{l_3}{l_1}$$

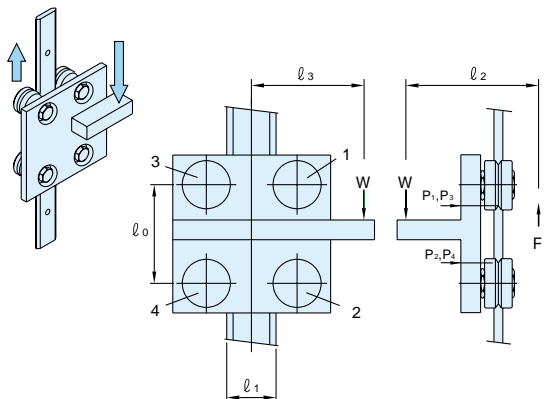
$$l_2 < \frac{l_0}{2}$$

$$P_{1T} = \frac{W}{2} + W \times \frac{l_2}{l_0} \quad P_{1T} = \frac{W}{2} + W \times \frac{l_2}{l_0}$$

$$P_{3T} = \frac{W}{2} - W \times \frac{l_2}{l_0} \quad P_{2T} = \frac{W}{2} - W \times \frac{l_2}{l_0}$$

$$P_{2T} = P_{4T} = 0 \quad P_{3T} = P_{4T} = 0$$

Example 5



$$P_1 = P_2 = P_3 = P_4 = \frac{W}{2} \times \frac{l_2}{l_0}$$

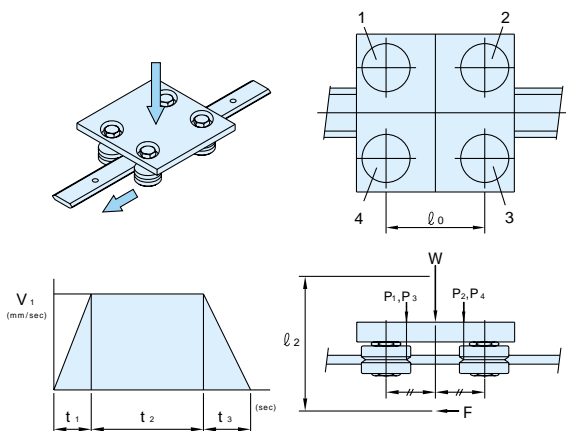
$$l_3 < \frac{l_1}{2}$$

$$P_{2T} = \frac{l_3}{l_0} \times W + \frac{l_1}{l_0} \times \frac{W}{2} \quad P_{1T} = P_{2T} = P_{3T} = P_{4T} = 0$$

$$P_{3T} = \frac{l_3}{l_0} \times W - \frac{l_1}{l_0} \times \frac{W}{2}$$

$$P_{1T} = P_{4T} = 0$$

Example 6



When accelerating

$$P_1 = P_4 = \frac{W}{4} - \frac{W}{2} \times \frac{1}{g} \times \frac{V_1}{t_1} \times \frac{l_2}{l_0}$$

$$P_2 = P_3 = \frac{W}{4} + \frac{W}{2} \times \frac{1}{g} \times \frac{V_1}{t_1} \times \frac{l_2}{l_0}$$

When at even speed

$$P_{1T} = P_{2T} = P_{3T} = P_{4T} = \frac{W}{4}$$

When slowing down

$$P_1 = P_4 = \frac{W}{4} + \frac{W}{2} \times \frac{1}{g} \times \frac{V_1}{t_1} \times \frac{l_2}{l_0}$$

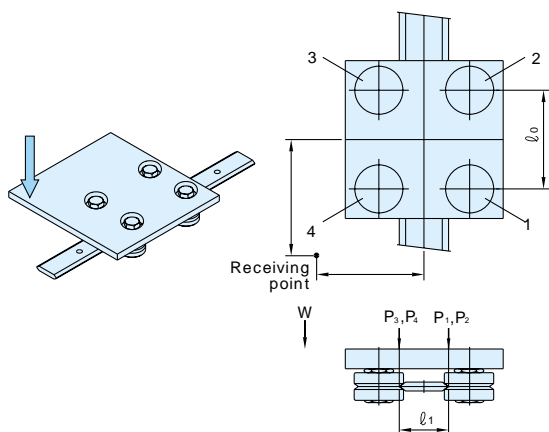
$$P_2 = P_3 = \frac{W}{4} - \frac{W}{2} \times \frac{1}{g} \times \frac{V_1}{t_1} \times \frac{l_2}{l_0}$$

1 kgf = 9.8 N

Load capacity of the Motion Guide System varies by such as position of center of works ' gravity, position of driving force, speed changes for start and stop, and other effects. For selection, please calculate load capacity in consideration of these factors as necessary.

W : Load on the system (N)
P_r : Radial load on journal bearings (N)
P_{NT} : Thrust load on journal bearings (N)

Example 1 (See example of P.21)



$$P_1 = \frac{W}{4} + \frac{W}{2} \times \frac{l_2}{l_0} - \frac{W}{2} \times \frac{l_3}{l_1}$$

$$P_2 = \frac{W}{4} - \frac{W}{2} \times \frac{l_2}{l_0} - \frac{W}{2} \times \frac{l_3}{l_1}$$

$$P_3 = \frac{W}{4} - \frac{W}{2} \times \frac{l_2}{l_0} + \frac{W}{2} \times \frac{l_3}{l_1}$$

$$P_4 = \frac{W}{4} + \frac{W}{2} \times \frac{l_2}{l_0} + \frac{W}{2} \times \frac{l_3}{l_1}$$

Where: Journal bearings AMJ44type
Guide Rail AMR44type
W = 196N, l₀=85mm, l₁=44mm

Calculation Example

l₂ = 20 mm , l₃ = 20 mm

$$P_1 = \frac{196}{4} + \frac{196}{2} \times \frac{196}{85} - \frac{196}{2} \times \frac{196}{44} = 27.44 \quad P_3 = \frac{196}{4} - \frac{196}{2} \times \frac{196}{85} + \frac{196}{2} \times \frac{196}{44} = 27.44$$

$$P_2 = \frac{196}{4} - \frac{196}{2} \times \frac{196}{85} - \frac{196}{2} \times \frac{196}{44} = -18.62 \quad P_4 = \frac{196}{4} + \frac{196}{2} \times \frac{196}{85} + \frac{196}{2} \times \frac{196}{44} = 116.62$$

Maximum load capacity in this case is found as 116.62N on P₄, and its life L_s as 296 km as per Life Chart.

Therefore, its life will be approx. 3 years time-wise in case stroke length 2,000 mm, 100 strokes per day and 250 days operation per year.

Actual life varies with various factors of application.

Life of grease inside the journal varies depending on the status of the installed journal.

Better efficiency of lubrication can be expected by spreading grease on V-shaped tracks of journals and the guide rail.

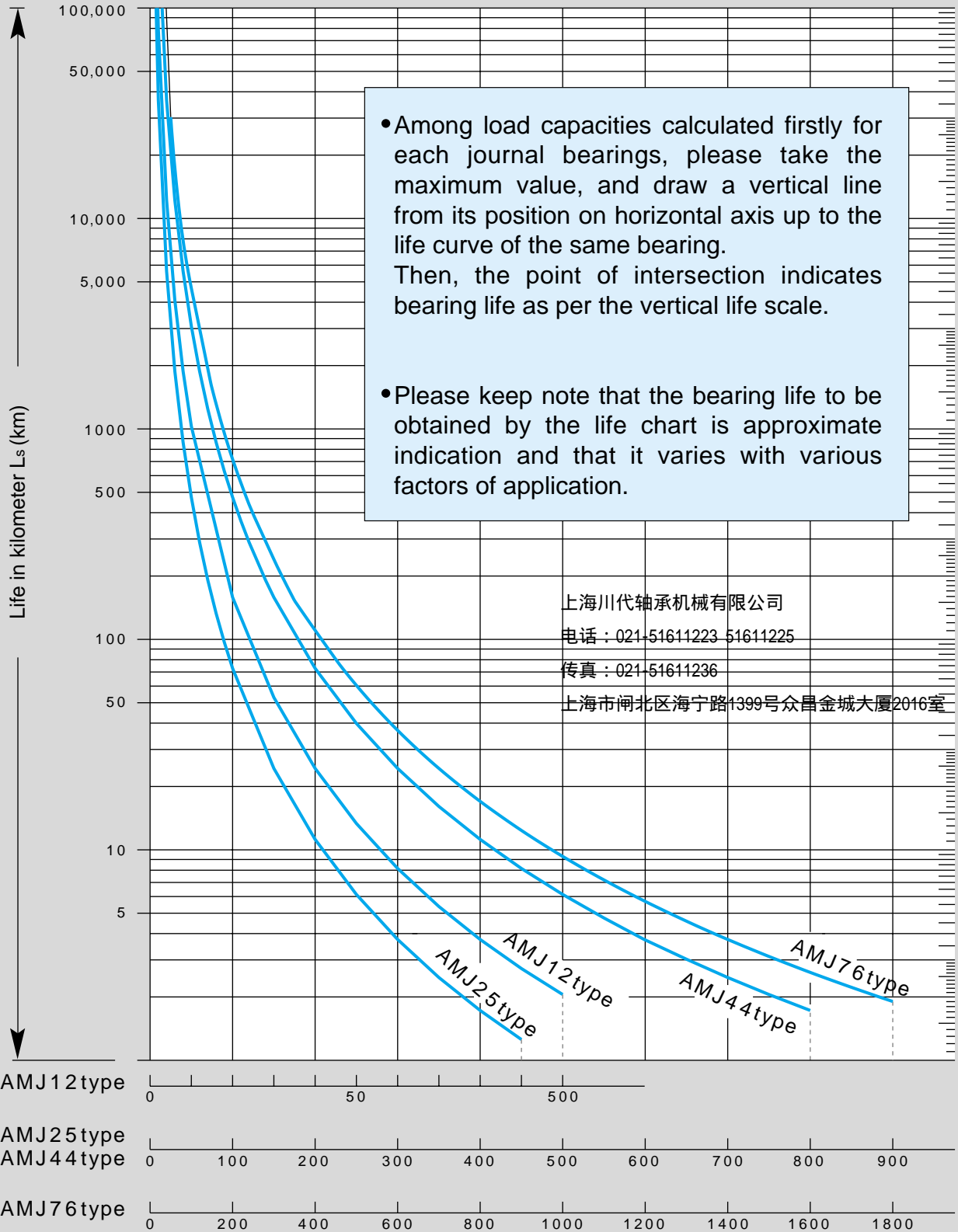
Life gets shorter when one stroke of the system is shorter than one rotation of journal bearing.



Approximate Life of Motion Guide System can be obtained from the Life Chart below.

Life Chart

(In case of no relubrication)



- Among load capacities calculated firstly for each journal bearings, please take the maximum value, and draw a vertical line from its position on horizontal axis up to the life curve of the same bearing. Then, the point of intersection indicates bearing life as per the vertical life scale.
- Please keep note that the bearing life to be obtained by the life chart is approximate indication and that it varies with various factors of application.

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← Maximum load to be imposed on a piece of journal. P (N) →

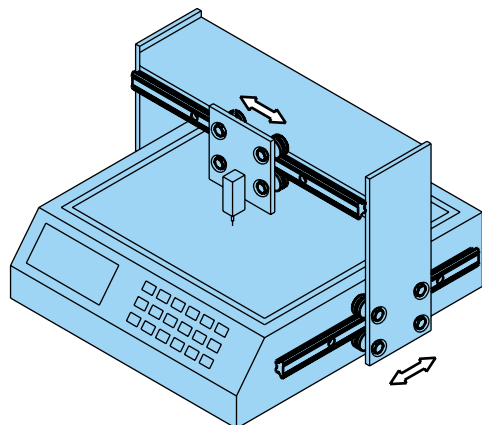
1 kgf = 9.8 N

The combination of Guide Rail/Way, Ring Guide Way and standard/ special Carriage Plate can make Motion Guide Systems.

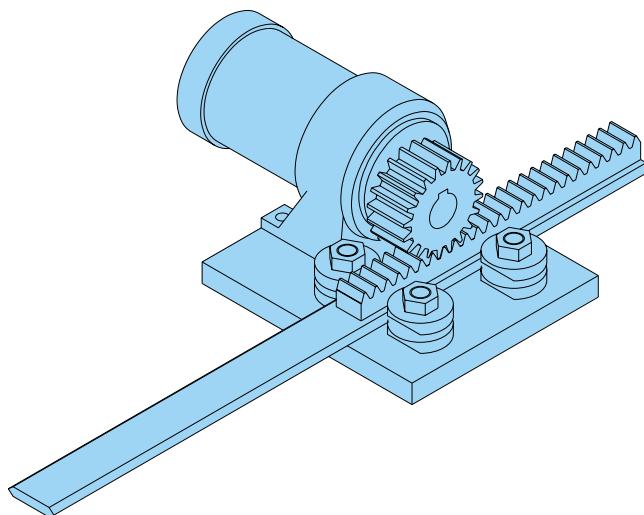
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For linear motion



For linear motion with racks on Guide Rail



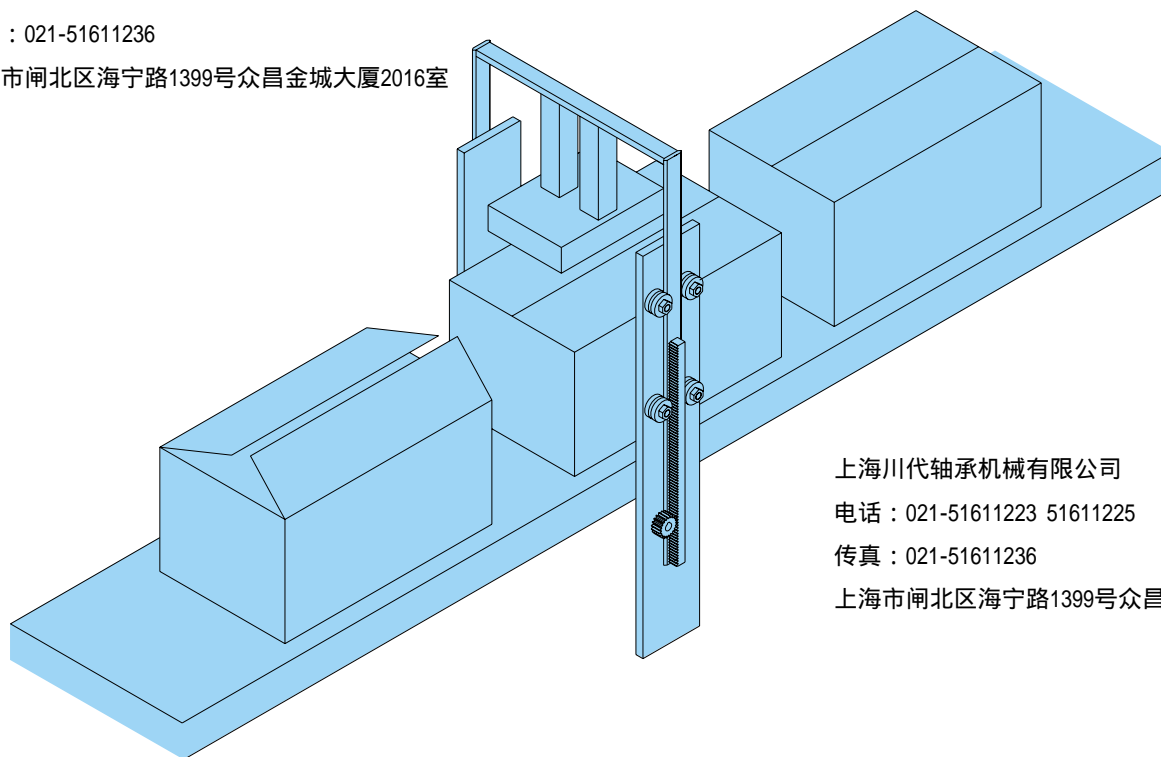
For vertical linear motion with racks on a pair of Guide Rails

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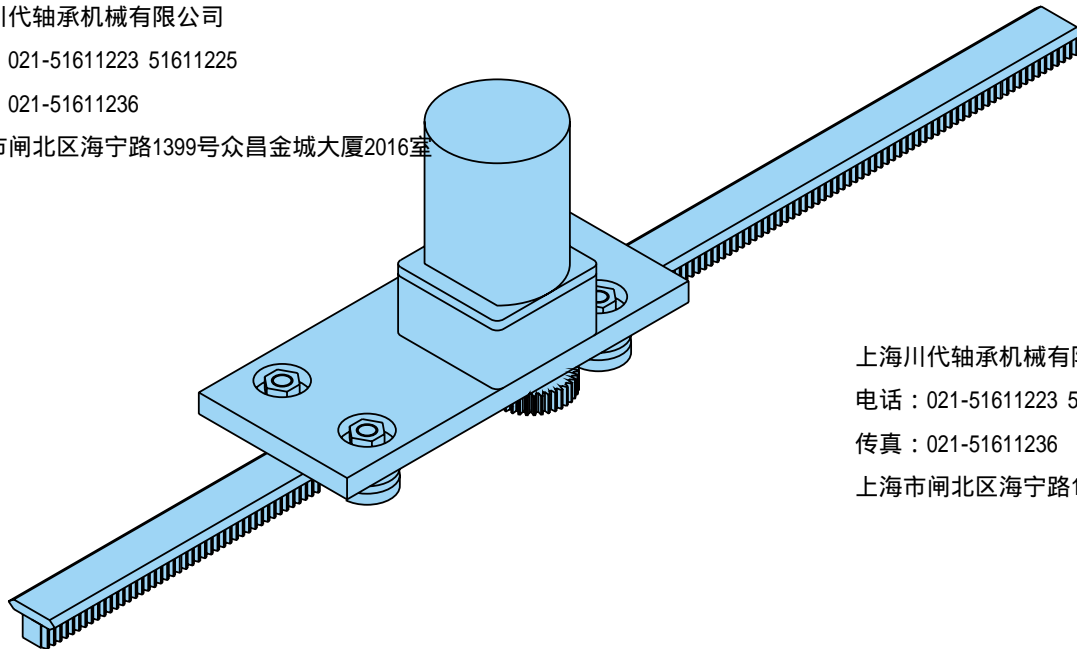
For linear motion of a table on Guide Rail with racks underneath

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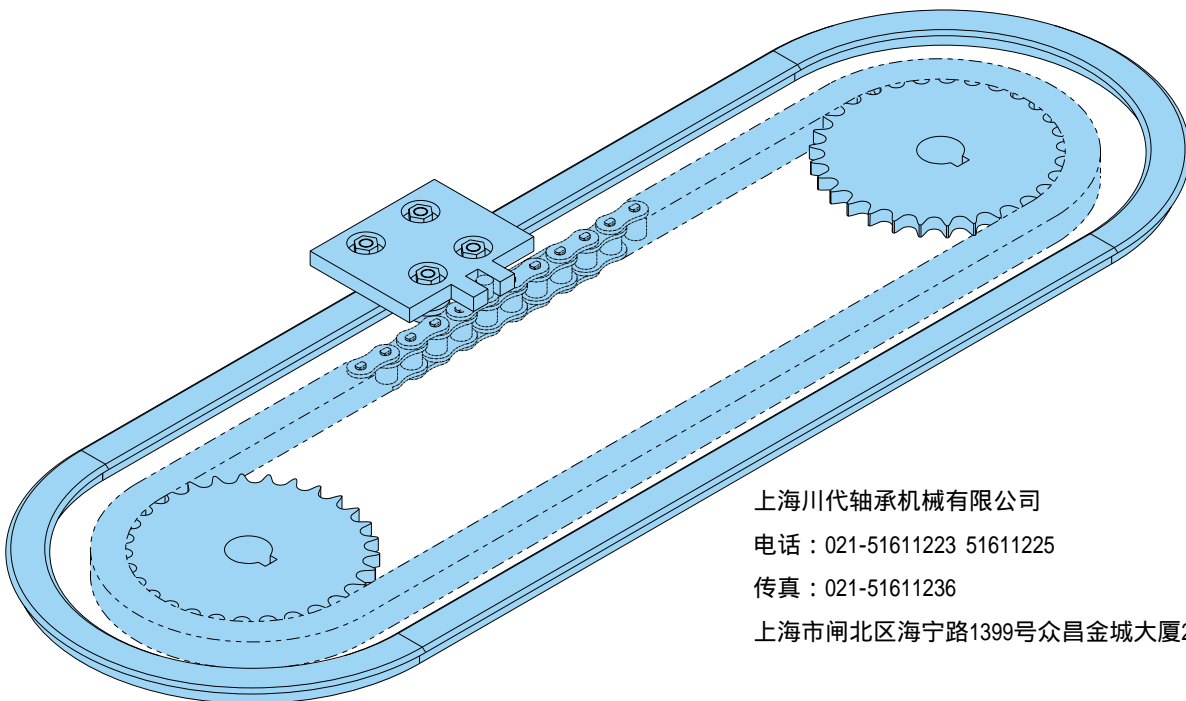
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Track systems driven by chain



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