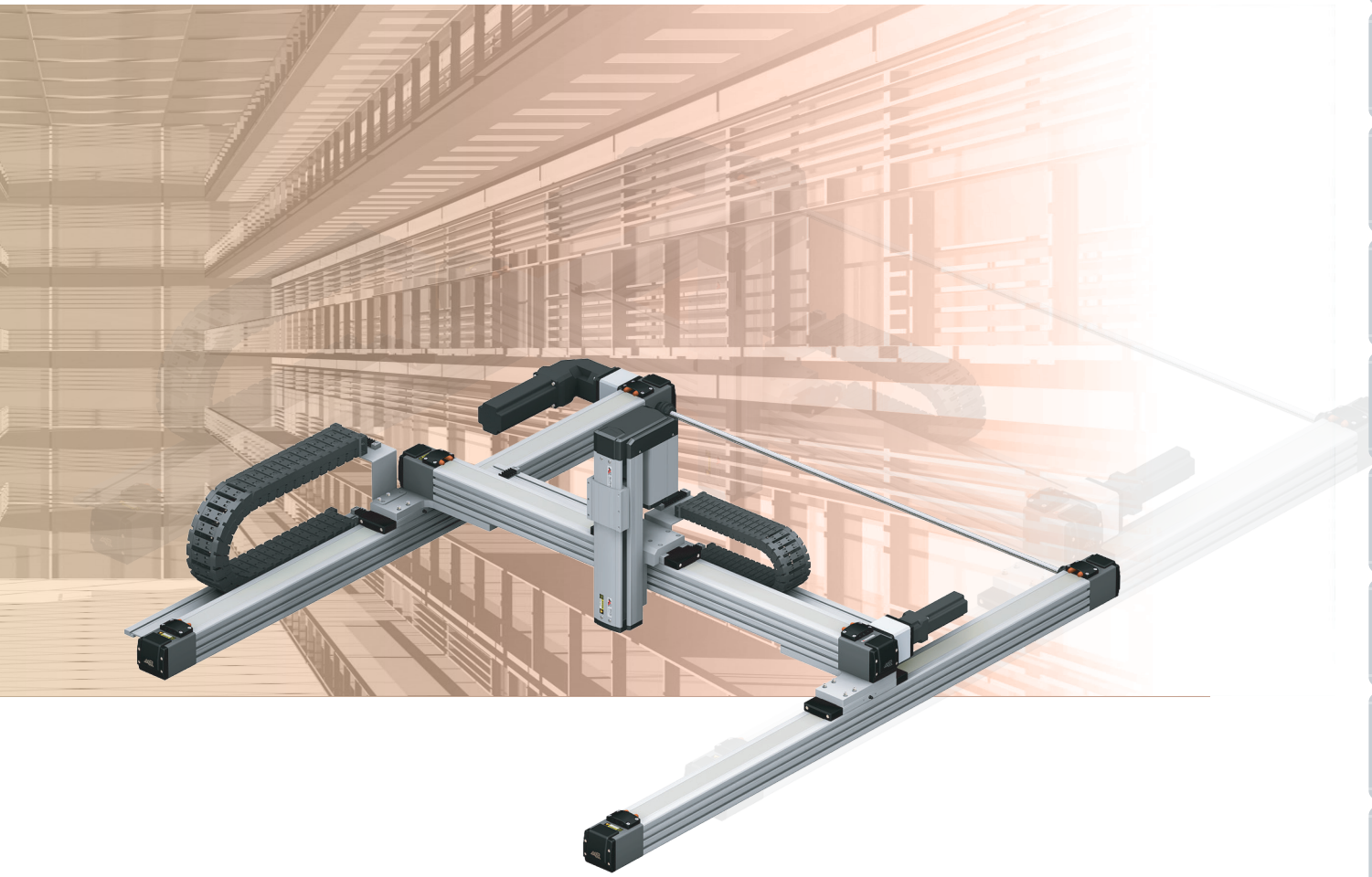
Alpha Motion Robot

MR

Motion Robot Series





Characteristics

- High durable, non-contaminative, anti-corrosive frame
  Frame은 내구성, 내오염성, 내식성을 크게 향상
- Maximum stroke of X axis is 6,000mm and maximum stroke of Y axis is 4,000mm
  작업 영역은 최대 X축 5000mm, 4000mm 까지로 사용자의 선택 폭을 넓힘
- Positioning repeatability ±0.1mm
  반복위치 정밀도가 ±0.1 mm
- With dedicated AC servo motor for robot, convenience of maintenance and high reliability guaranteed
  로봇 전용 AC servo motor를 채택하여 유지보수의 편리성 및 높은 신뢰성 실현
- Wide range configuration and application available
  다양한 조합이 가능하도록 설계되어 적용시 유용성 실현

ORDER INFORMATION

A MR SERIES | 1 AXIS

MR080	-	NL	-	2000
1		2		3

B Options

M	75	N	R03	EC	-	C	-	5	-	1200
4	5	6	7	8		9		10		11



C Options

I	-	H	LF	B	55	-	W	-	N	-	F00
1		2	3	4	5		6		7		8

1 SERIES
2 TYPE
3 STROKE (mm)
4 MOTOR IS MOUNTED OR NOT
5 MOTOR RATED OUTPUT
6 BRAKE OPTION
7 REDUCER
8 REDUCER TYPE REDUCER DIRECTION
9 FIXING METHOD OF ROBOT
10 QUANTITY OF CLAMP
11 TORSION BAR UNIT
1 SENSOR
2 3 4 5 CABLEVEYOR
6 COLOR OF ROBOT
7 SURFACE TREATMENT
8 CABLE LENGTH

ORDER INFORMATION

MR SERIES — ALPHA Motion Robot



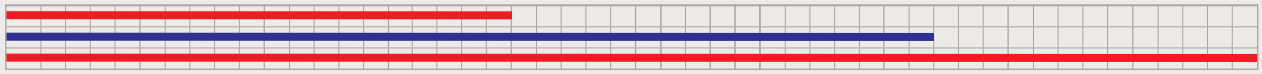
NL Shaft Left



NR Shaft Right



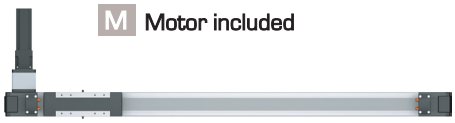
STROKE(mm) 500 1000 1500 2000 2500 3000 3500 4000 4500 5000



N Motor excluded



M Motor included



10 100W **20** 200W **40** 400W **75** 750W

N Without Brake **B** With Brake

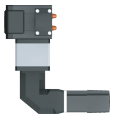
R03	R04	R05	R06	R07*	R08	R09	R10*
1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10

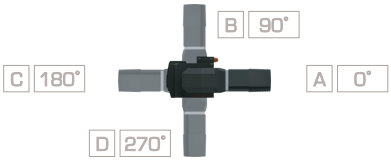
* Customized reducing ratio applicable according to customer's demand
* Please refer text regarding standard reducing ratio of each model

S Straight Reducer



MA **MB** **MC** **MD** Elbow - Reducer





* Type for "M" of option NO.4

C Clamp block



P Bolt plate



B Tap on button surface



N None clamp **5** 5EA

* User's selection by STROKE or ALPHA's standard

N None torsion bar unit **0000** Distance (refer to option page) between actuctors

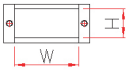
* Indicate distance between actuators when TORSION BAR is used

I Internal Sensor (Standard) **E** External Sensor

2 Attaching Type
N None **H** Horizontal

3 Cableveyor direction
LF Left - Front **RF** Right - Front **LR** Left - Rear **RR** Right - Rear

4 Cableveyor selection (Hmm × Wmm)



Standard CPS	B 28×35	C 28×55	D 28×75	E 28×100
Cleanroom IGUS	F 29×40	G 29×60	H 29×80	I 29×100
TSUBAKI	J 28×40	K 28×60	L 28×80	M 28×100

5 The radius of curvature (mm)
45 R40 ~ R45 **55** R50 ~ R55

* Please see the catalogue A90.4 for more information of cableveyor.

W White (Standard) **B** Black Anodizing

N Surface Treatment (Standard) **R** Raydent Surface Treatment (LM Rail)

Flexible Cable
F00 None **F03** 3m **F05** 5m **F07** 7m **F10** 10m

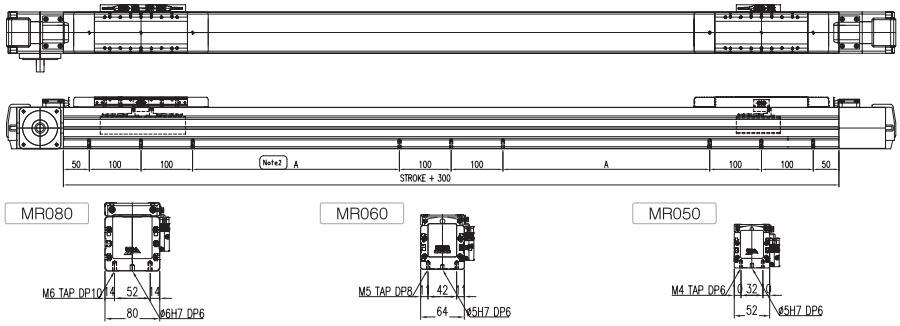
* Please do not hesitate to contact us when the cable is applied more than 10m.

B ORDER INFORMATION - OPTIONS

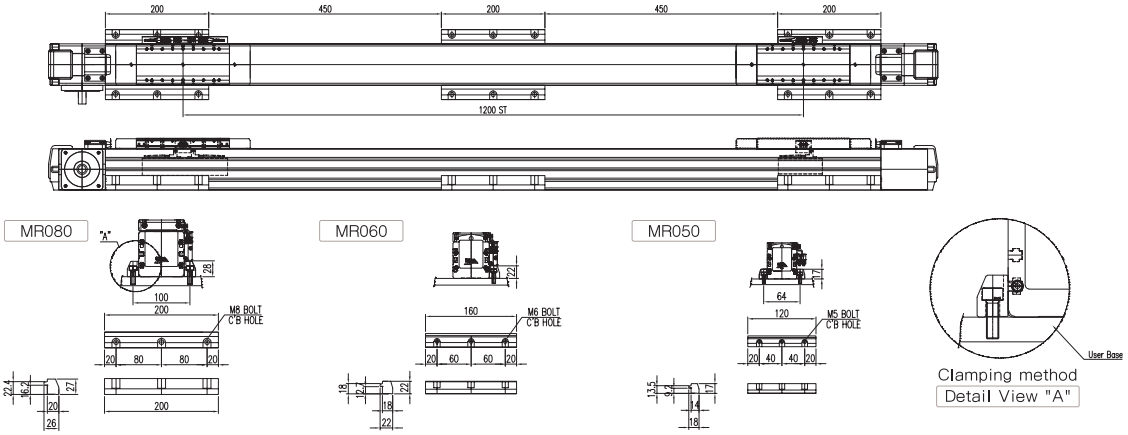
10 Quantity Of Clamp

* All dimensions in mm

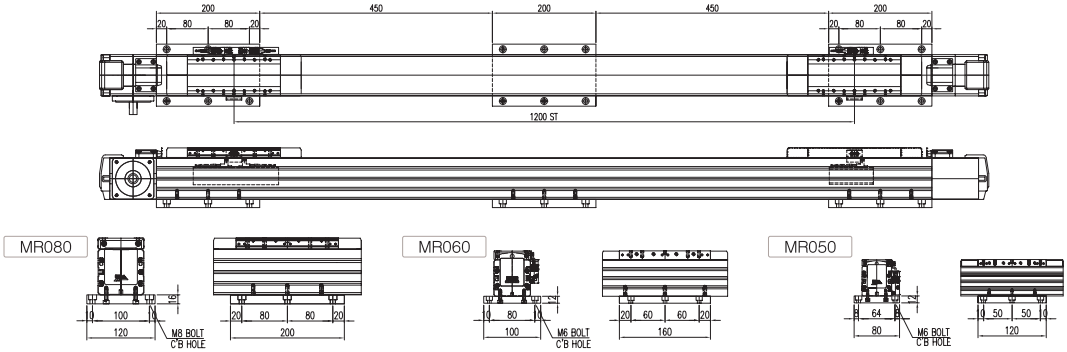
B TAP ON BUTTON SURFACE



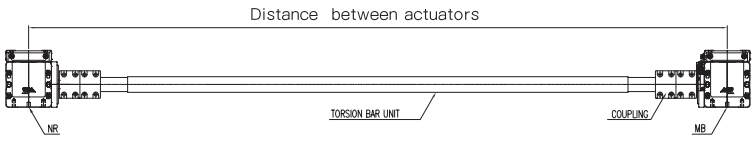
C CLAMP BLOCK



P BOLT PLATE



11 Torsion Bar Unit



CAUTION

* Be sure to install in the direction as specified individually.
* Installation in any other way will cause a failure.
* For requirement of installation in any way other than the above standard installation, please consult Head Office and Agent.

NOTE1 In case that cableveyor is not affixed, it does not need to mark cableveyor specification and instead, just mark 'N'(none).

NOTE2 Please select the floor area ratio by user's using environment, using condition at below 60%

주의

* 반드시 개별적으로 지정한 방향으로 설치해 주십시오.
* 상기 표준 이외의 방법으로 설치하는 것은 고장의 원인이 됩니다.
* 상기 표준 이외의 방법으로 설치할 경우에는 대리점 및 당사에 문의바랍니다.

NOTE1 케이블베어를 장착하지 않을 경우에는 "N"(None)만 표기하고 다른 케이블베어 사양은 표기하지 않습니다.

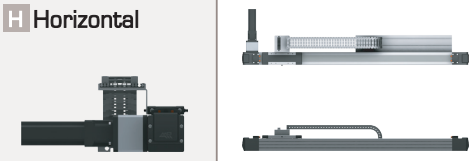
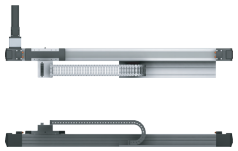
NOTE2 용적률은 사용자의 용적으로 검토해 주십시오.
용적률은 사용자의 사용환경, 사용조건에 따라 60%이하로 적절히 선정하십시오.

B ORDER INFORMATION - OPTIONS

2 3 4 5 Cableveyor Selecting Options

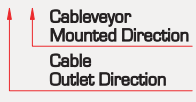
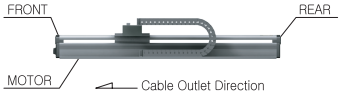
Series	Applicable Type			
	Horizontal	Wall Hanging	Rear	Double
MR	●			

2 / 3

Applicable Type	Cableveyor Directions			
N None NOTE1	L F Left-Front	R F Right-Front	L R Left-Rear	R R Right-Rear
H Horizontal				
W Wall Hanging				
R Rear				
D Double				

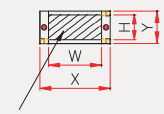
3

Cableveyor Directions

	Cableveyor Mounted Direction		Cable Outlet Direction	
L F	L Left	R Right	F Front	R Rear
				

4 5 * Cableveyor Selecting

Unit : mm



Wiring space (Pic 10-1)

STANDARD								CLEANROOM															
Selecting Item	Internal dimentions H	Internal dimentions W	External dimentions Y	External dimentions X	Radius R	Capacity (mm²) NOTE2 Origin		Selecting Item	Internal dimentions H	Internal dimentions W	External dimentions Y	External dimentions X	Radius R	Capacity (mm²) NOTE2 Origin	Selecting Item	Internal dimentions H	Internal dimentions W	External dimentions Y	External dimentions X	Radius R	Capacity (mm²) NOTE2 Origin	
B	28	35	35	79.5	45	1128		F	29	40	35	60	45	1160	J	28	40	35	60	45	1120	
C		55		99.5	55	980		G		60		80	55	1740	K		60		80	55	1680	
D		75		119.5	75	1540		H		80		100	75	2320	L		80		100	75	2240	
E		100		139.5	95	2100		I		100		120	95	2900	M		100		120	95	2800	
-			-	-	100	2800		-			-	-	100	-	-			-	-	100	-	

CAUTION

*Be sure to install in the direction as specified individually.
*Installation in any other way will cause a failure.
*For requirement of installation in any way other than the above standard installation, please consult Head Office and Agent.

NOTE1 In case that cableveyor is not affixed, it does not need to mark cableveyor specification and instead, just mark 'N'(none).
NOTE2 Please select the floor area ratio by user's using environment, using condition at below 60%

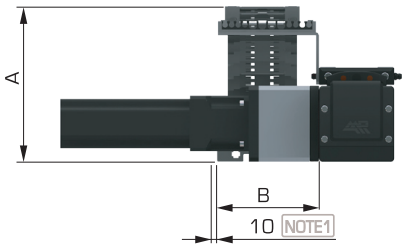
주의

*반드시 개별적으로 지정한 방향으로 설치해 주십시오.
*상기 표준 이외의 방법으로 설치하는 것은 고장의 원인이 됩니다.
*상기 표준 이외의 방법으로 설치할 경우에는 대리점 및 당사에 문의바랍니다.

NOTE1 케이블베어를 장착하지 않을 경우에는 "N"(None)만 표기하고 다른 케이블베어 사양은 표기하지 않습니다.
NOTE2 용적률은 사용자의 용적으로 검토해 주십시오.
용적률은 사용자의 사용환경, 사용조건에 따라 60%이하로 적절히 선정하십시오.

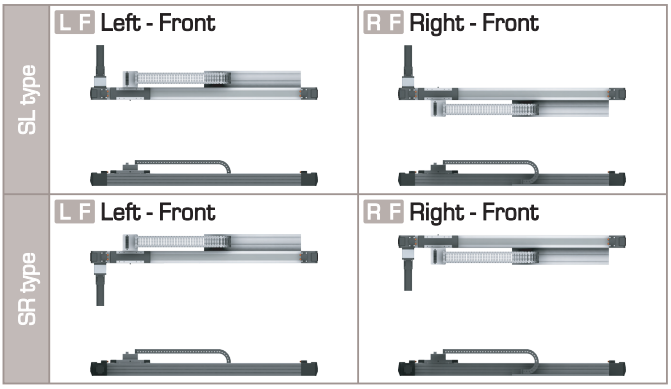
B ORDER INFORMATION

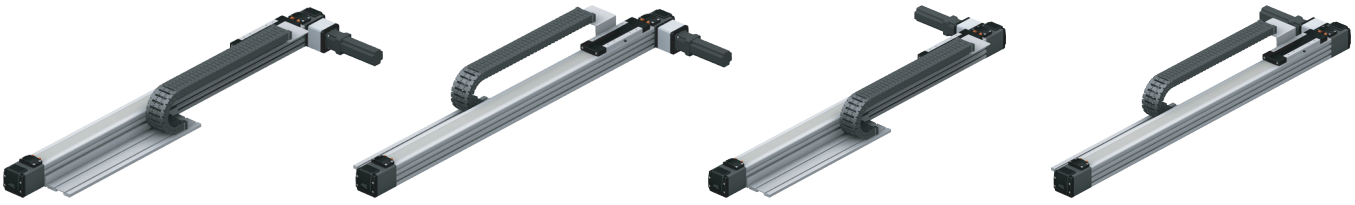
2 H Horizontal Type



BASE SIZE	CABLEVEYOR		S1	S2
	Bending radius R	Internal dimentions	A	B
MR050	R045	35, 40	128	80
		55, 60	128	80
MR060	R055	55, 60	155	80
		75, 80	155	80
MR080	R055	75, 80	174	98
		100, 100	174	98

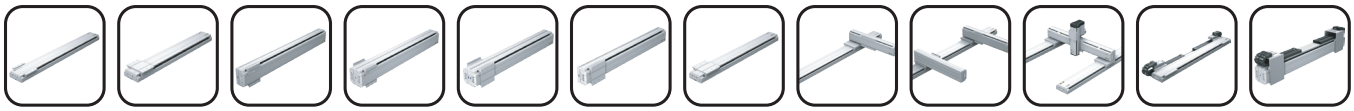
3 NOTE2 Cableveyor Directions





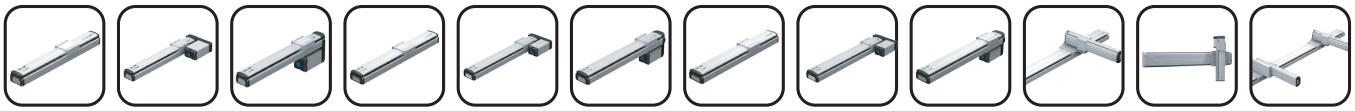
NOTE1 This is a minimum space allowance between Cableveyor and external interference when robot drives.
NOTE2 For the information of Cable veyor of blank, please contact a distributor or our company.

NOTE1 로봇을 구동할 때에 케이블베어와 외부 간섭과의 최소여유치수입니다.
NOTE2 빈칸의 케이블베어 장착은 영업점 및 폐사에 문의 바랍니다.



ALPHA ROBOT SPECIFICATIONS

Product		Rated Output	REDUCER	Max. Speed	Max. Load (H)
		w	i	mm/s	20 40 60 80 kg
MR SERIES	050	100	3	1500	2
			4	1250	4
			5	1000	6
			6	800	10
			8	600	18
			10	500	20
	060	200	3	2200	5
			4	1600	10
			5	1300	15
			6	1100	24
			7	950	30
			8	800	40
		400	3	2200	8
			4	1600	18
			5	1300	28
			6	1100	40
			7	950	40
			8	800	40
	080	400	3	2500	6
			4	2000	14
			5	1600	20
			6	1300	30
			8	1000	55
			10	800	80
		750	3	2500	18
			4	2000	30
			5	1600	50
			6	1300	65
			8	1000	80
			10	800	80



PRO GRAM | mm | mm/s | kg

Repeatability	Max. Stroke		Page no.
mm	500 1000 1500 2000 2500 3000 3500 4000 4500 5000	mm	
±0.1		2000	B91.1
±0.1		2000	B91.1
±0.1		2000	B91.1
±0.1		2000	B91.1
±0.1		2000	B91.1
±0.1		2000	B91.1
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		3700	B91.2
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3
±0.1		5000	B91.3

Model | MR050 | MR060 | MR080

Values of ( ) is in case of speed of 1000mm/sec. / H of Max. Load indicares Horizontal use and V of Max.Load indicates Vertical use.

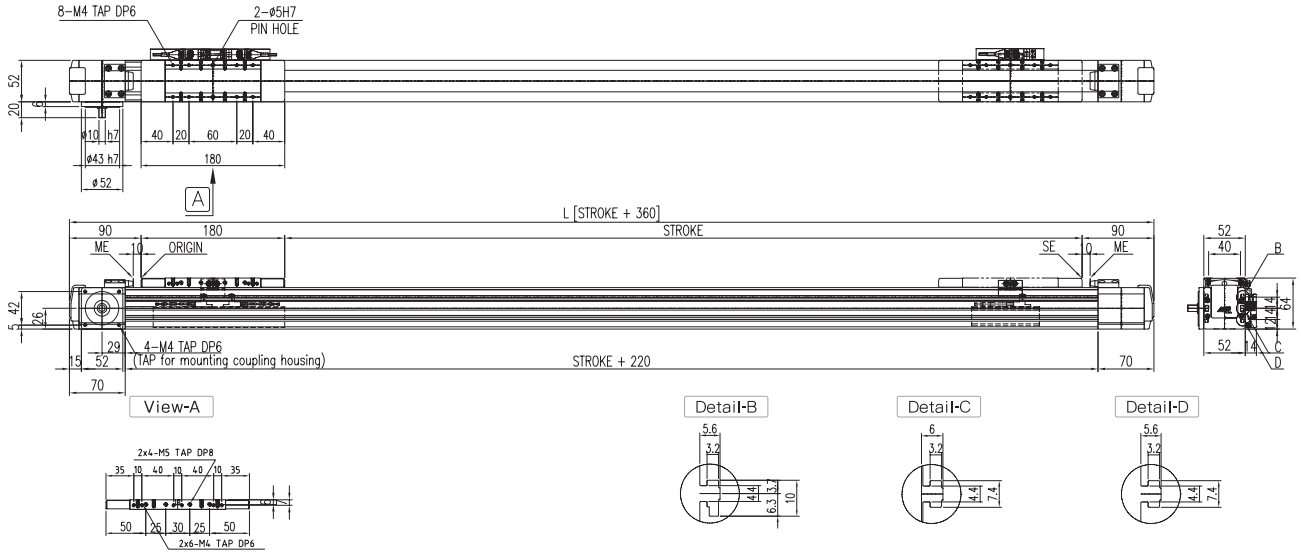
Specification	Unit	MR050-MSR(L)-10					
MR050							
Rated Output	W	100W,3000 min^{-1}					
Raducer	Ratio	3	4	5	6	8	10
Max. Speed Note1	mm/s	1750	1300	1050	850	650	500
Max. Load Note2	kg	1	3	5	10	16	20
Stroke Range	mm	200 ~ 2000					
Repeatability	mm	± 0.1					
Drive Type	-	BELT					

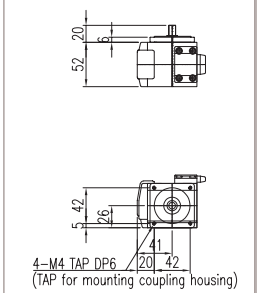
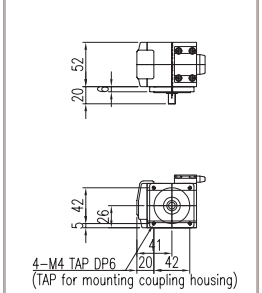
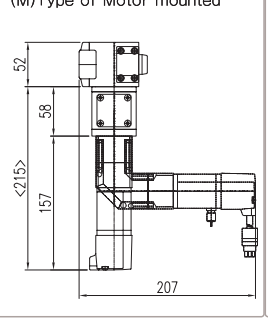
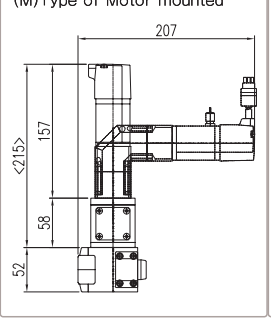
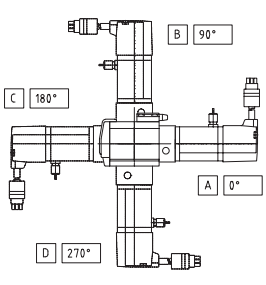
Specification		Unit	Data			
Acceleration		G	0.3			
Load		kg	1	5	10	20
Allowable Overhang Distance - mm: Horizontal Use		0°	300	192	86	33
		45°	300	190	85	33
		90°	300	300	300	300
Note4 Wall Installation Use		0°	300	300	300	300
		45°	300	89	41	17
		90°	300	90	41	17
Note4 Vertical Use		0°	300	300	280	140
		45°	300	273	136	68
		90°	300	300	225	112
Note3 Estimated Condition		Max Speed : 1750 mm/s			Acceleration : 0.3 G (2.94 m/s^2)	
		Life in traveled distance : 30000 km				

MR050

N 1 AXIS

* All dimensions in mm



MR050-NL	MR050-NR	MR050-NR	MR080-NL	REDUCER DIRECTION
		(M)Type of Motor mounted 	(M)Type of Motor mounted 	

Model \ Stroke	Units	200	400	600	800	1000	1200	1400	1600	1800	2000	Offset(100)
MR050-10	kg	5.8	6.7	7.9	9.0	10.0	11.1	12.2	13.2	14.3	15.3	0.53
MR050-10-R03	mm/s	1750										
MR050-10-R04	mm/s	1300										
MR050-10-R05	mm/s	1050										
MR050-10-R06	mm/s	850										
MR050-10-R08	mm/s	680										
MR050-10-R10	mm/s	500										

⚠ CAUTION

In case of reference position return, be cautious not to contact with peripheral units because slider transfers up to ME. ·ME : Mechanical End ·SE : Stroke End
Dimensions of "< >" are subject to change by specifications of motor or gearbox(reducer).

NOTE1 In case of the short stroke, it may not be reached at maximum speed.
NOTE2 it is changed by operating conditions.
NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
NOTE4 In case of Vertical use or Wall installation use, please consult with us.

Model	MR050	MR060	MR080					

Values of ( ) is in case of speed of 1000mm/sec. / H of Max. Load indicares Horizontal use and V of Max.Load indicates Vertical use.

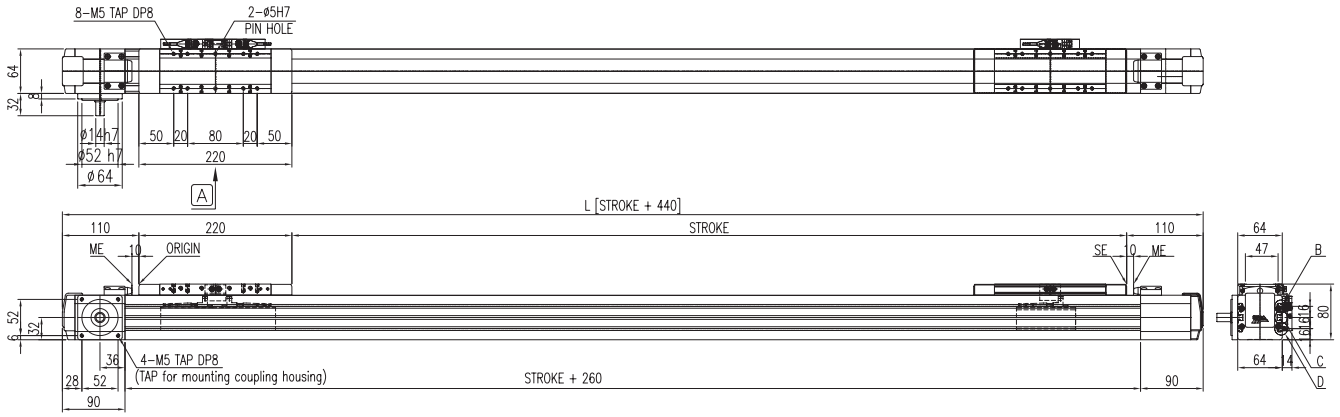
Specification		Unit	MR060-NSR(L)-10					
MR060								
Rated Output		W	100W,3000 min^{-1}					
Raducer		Ratio	3	4	5	6	8	10
Max. Speed	Note1	mm/s	2200	1600	1300	1100	950	800
Max. Load	Note2	kg	5	10	15	24	30	40
Stroke Range		mm	200 ~ 3700					
Repeatability		mm	± 0.1					
Drive Type		-	BELT					

Specification		Unit	Data			
Acceleration		G	0.3			
Load		kg	5	15	25	40
Allowable Overhang Distance - mm	Horizontal Use	0°	270	86	49	28
		45°	270	86	49	29
		90°	350	350	350	350
	Note4 Wall Installation Use	0°	350	350	350	350
		45°	250	76	41	21
		90°	255	77	42	21
	Note4 Vertical Use	0°	350	350	218	136
		45°	350	207	124	77
		90°	350	350	240	150
Note3	Estimated Condition		Max Speed : 2000 mm/s		Acceleration : 0.3 G (2.94 m/s^2)	
			Life in traveled distance : 30000 km			

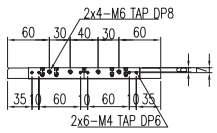
MR060

N | 1 AXIS

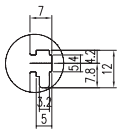
* All dimensions in mm



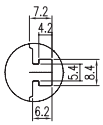
View-A



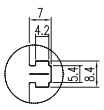
Detail-B



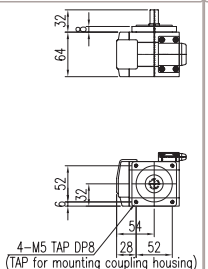
Detail-C



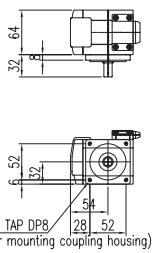
Detail-D



MR060-NL

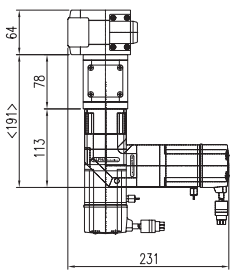


MR060-NR



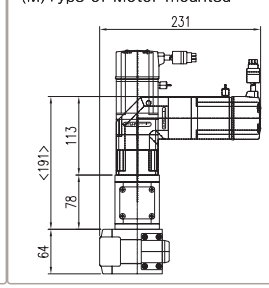
MR060-NR

(M)Type of Motor mounted

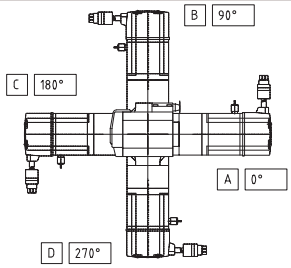


MR060-NL

(M)Type of Motor mounted



REDUCER DIRECTION



Model \ Stroke	Units	300	500	900	1300	1700	2100	250	2900	3300	3700	Offset(100)
MR060-20	kg	9.9	10.9	12.9	14.9	16.9	19.4	20.9	22.9	24.9	28.5	1.23
MR060-20-R03	mm/s	2200										
MR060-20-R04	mm/s	1600										
MR060-20-R05	mm/s	1350										
MR060-20-R06	mm/s	1100										
MR060-20-R07	mm/s	950										
MR060-20-R08	mm/s	800										

⚠ CAUTION

In case of reference position return, be cautious not to contact with peripheral units because slider transfers up to ME. ·ME : Mechanical End ·SE : Stroke End
Dimensions of "< >" are subject to change by specifications of motor or gearbox(reducer).

NOTE1 In case of the short stroke, it may not be reached at maximum speed.
NOTE2 it is changed by operating conditions.
NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
NOTE4 In case of Vertical use or Wall installation use, please consult with us.

Model | MR050 | MR060 | MR080

Values of ( ) is in case of speed of 1000mm/sec. / H of Max. Load indicares Horizontal use and V of Max.Load indicates Vertical use.

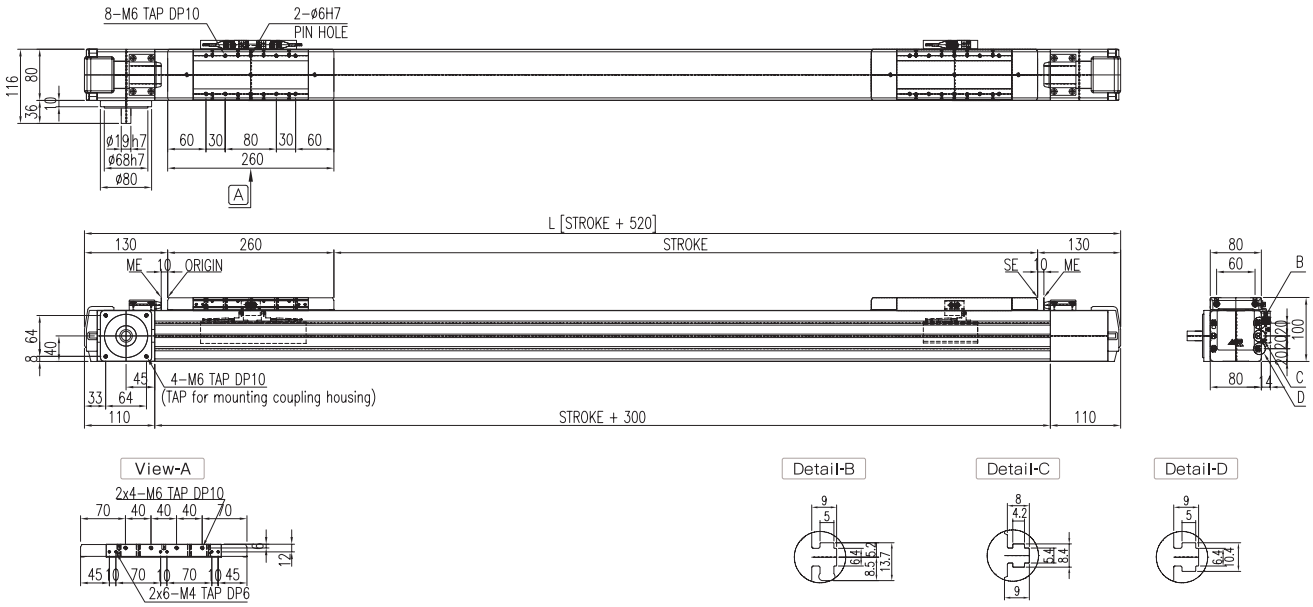
Specification		Unit	MR080-MSR(L)-10					
MR080								
Rated Output		W	400W,3000 min^{-1}					
Raducer	Note1	Ratio	3	4	5	6	8	10
Max. Speed	Note2	mm/s	2500	2200	1750	1450	1100	850
Max. Load	Note3	kg	5	10	18	28	50	80
Stroke Range		mm	200 ~ 5000					
Repeatability		mm	±0.1					
Drive Type		-	BELT					

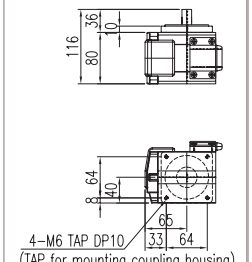
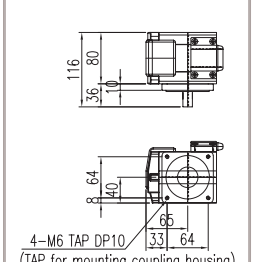
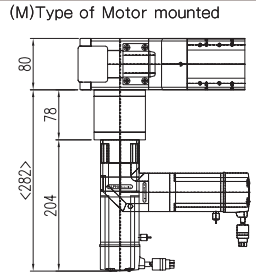
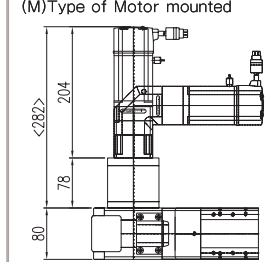
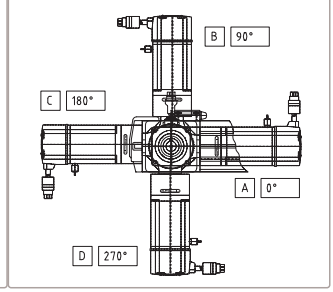
Specification		Unit	Data			
Acceleration		G	0.3			
Load		kg	10	30	50	80
Allowable Overhang Distance - mm	Horizontal Use	0°	450	145	83	48
		45°	450	144	83	48
		90°	500	500	500	500
	Note4 Wall Installation Use	0°	500	500	500	500
		45°	420	128	69	36
		90°	430	131	71	37
	Note4 Vertical Use	0°	500	365	220	138
		45°	500	215	128	80
		90°	500	425	253	159
Note3	Estimated Condition	Max Speed : 2000 mm/s	Acceleration : 0.3 G (2.94 m/s^2)			
		Life in traveled distance : 30000 km				

MR080

N | 1 AXIS

* All dimensions in mm



MR080-NL	MR080-NR	MR080-NR	MR080-NL	REDUCER DIRECTION
		(M)Type of Motor mounted	(M)Type of Motor mounted	
				

Model \ Stroke	Units	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	Offset(100)
MR080-40	kg	18.5	23	27.6	32.1	36.7	41.2	45.8	55.1	64.3	73.5	1.85
MR080-40-R03	mm/s	2500										
MR080-40-R04	mm/s	2200										
MR080-40-R05	mm/s	1750										
MR080-40-R06	mm/s	1450										
MR080-40-R08	mm/s	1100										
MR080-40-R10	mm/s	850										

⚠ CAUTION

In case of reference position return, be cautious not to contact with peripheral units because slider transfers up to ME. ·ME : Mechanical End ·SE : Stroke End
Dimensions of "< >" are subject to change by specifications of motor or gearbox(reducer).

NOTE1 In case of the short stroke, it may not be reached at maximum speed.
NOTE2 it is changed by operating conditions.
NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
NOTE4 In case of Vertical use or Wall installation use, please consult with us.

ORDER INFORMATION

A MR SERIES | Synchronous type

MR080	-	NL	-	2000
1		2		3

B Options

M	75	N	R03	EC	-	C	-	5	-	1200
4	5	6	7	8		9		10		11



C Options

I	-	H	LF	B	55	-	W	-	N	-	F00
1		2	3	4	5		6		7		8

1 SERIES
2 TYPE
3 STROKE (mm)
4 MOTOR IS MOUNTED OR NOT
5 MOTOR RATED OUTPUT
6 BRAKE OPTION
7 REDUCER
8 REDUCER TYPE REDUCER DIRECTION
9 FIXING METHOD OF ROBOT
10 QUANTITY OF CLAMP
11 TORSION BAR UNIT

1 SENSOR
2 3 4 5 CABLEVEYOR
6 COLOR OF ROBOT
7 SURFACE TREATMENT
8 CABLE LENGTH

ORDER INFORMATION

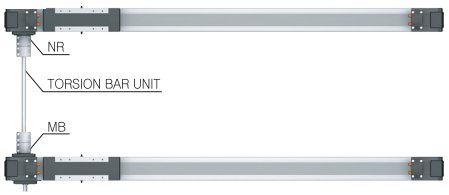
MR SERIES — ALPHA Motion Robot



NL Shaft Left

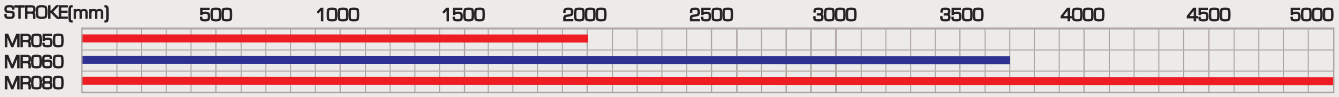


NR Shaft Right



MB Shaft Both





N Motor excluded



M Motor included



10 100W **20** 200W **40** 400W **75** 750W

N Without Brake **B** With Brake

R03	R04	R05	R06	R07*	R08	R09	R10*
1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10

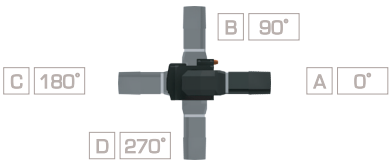
* Customized reducing ratio applicable according to customer's demand
* Please refer text; regarding standard reducing ratio of each model

S Straight Reducer



MA Elbow - Reducer
MB
MC
MD





* Type for "M" of option NO.4

C Clamp block



P Bolt plate



B Tap on button surface



N None clamp **5** 5EA

* User's selection by STROKE or ALPHA"s standard

N None torsion bar unit **0000** Distance (refew to option page) between actuctors

* Indicate distance between actuators when TORSION BAR is used

I Internal Sensor (Standard) **E** External Sensor

2 Attaching Type
4 Cableveyor selection (Hmm × Wmm)
3 Cableveyor direction
5 The radius of curvature (mm)

* Please see the catalogue A90.4 for more information of cableveyor.

W White (Standard) **B** Black Anodizing

N Surface Treatment (Standard) **R** Raydent Surface Treatment (LM Rail)

Flexible Cable
F00 None **F03** 3m **F05** 5m **F07** 7m **F10** 10m

* Please do not hesitate to contact us when the cable is applied more than 10m.

Model	MR050	MR060	MR080					

Values of ( ) is in case of speed of 1000mm/sec. / H of Max. Load indicares Horizontal use and V of Max.Load indicates Vertical use.

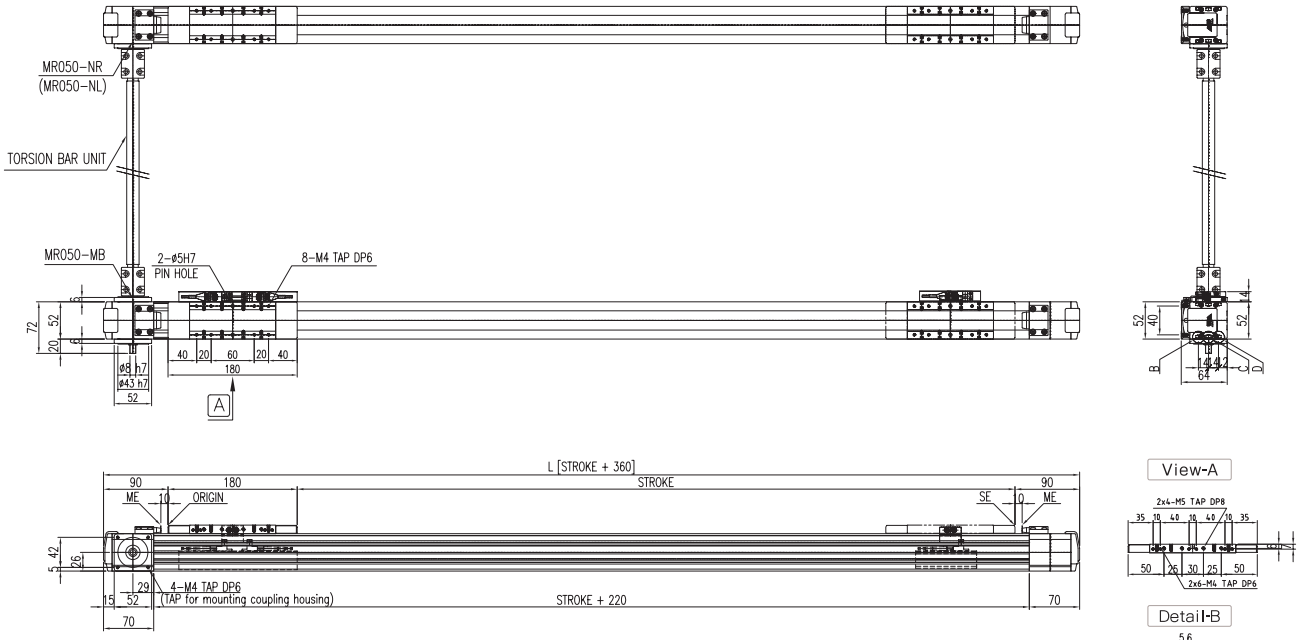
Specification	Unit	MR050-NSR(L)-10					
MR050							
Rated Output	W	100W,3000 min^{-1}					
Raducer	Ratio	3	4	5	6	8	10
Max. Speed Note1	mm/s	1750	1300	1050	850	650	500
Max. Load Note2	kg	1	3	5	10	16	20
Stroke Range	mm	200 ~ 2000					
Repeatability	mm	± 0.1					
Drive Type	-	BELT					

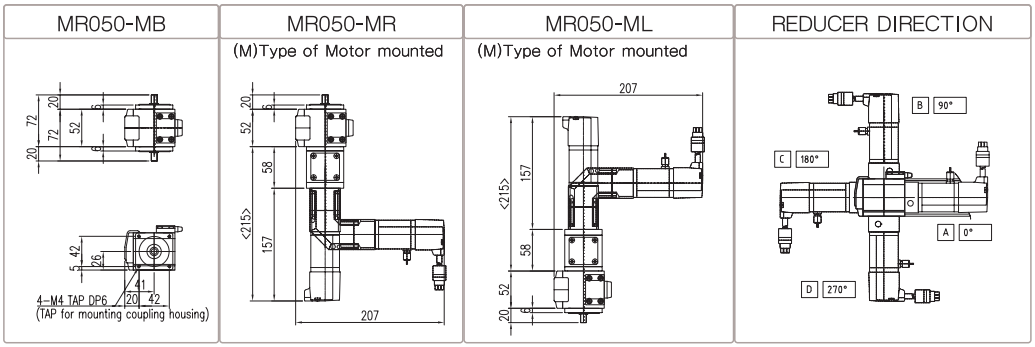
Specification		Unit	Data			
Acceleration		G	0.3			
Load		kg	1	5	10	20
Allowable Overhang Distance - mm	Horizontal Use	0°	300	192	86	33
		45°	300	190	85	33
		90°	300	300	300	300
	Note4 Wall Installation Use	0°	300	300	300	300
		45°	300	89	41	17
		90°	300	90	41	17
	Note4 Vertical Use	0°	300	300	280	140
		45°	300	273	136	68
		90°	300	300	225	112
Note3	Estimated Condition	Max Speed : 1750 mm/s		Acceleration : 0.3 G (2.94 m/s^2)		
		Life in traveled distance : 30000 km				

MR050 - MR

N 2 AXIS

* All dimensions in mm





Model \ Stroke	Units	200	400	600	800	1000	1200	1400	1600	1800	2000	Offset(100)
MR050-10	kg	5.8	6.7	7.9	9.0	10.0	11.1	12.2	13.2	14.3	15.3	0.53
MR050-10-R03	mm/s	1750										
MR050-10-R04	mm/s	1300										
MR050-10-R05	mm/s	1050										
MR050-10-R06	mm/s	850										
MR050-10-R08	mm/s	680										
MR050-10-R10	mm/s	500										

⚠ CAUTION

In case of reference position return, be cautious not to contact with peripheral units because slider transfers up to ME. ·ME : Mechanical End ·SE : Stroke End
Dimensions of "< >" are subject to change by specifications of motor or gearbox(reducer).

NOTE1 In case of the short stroke, it may not be reached at maximum speed.
NOTE2 it is changed by operating conditions.
NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
NOTE4 In case of Vertical use or Wall installation use, please consult with us.

Model	MR050	MR060	MR080					

Values of ( ) is in case of speed of 1000mm/sec. / H of Max. Load indicares Horizontal use and V of Max.Load indicates Vertical use.

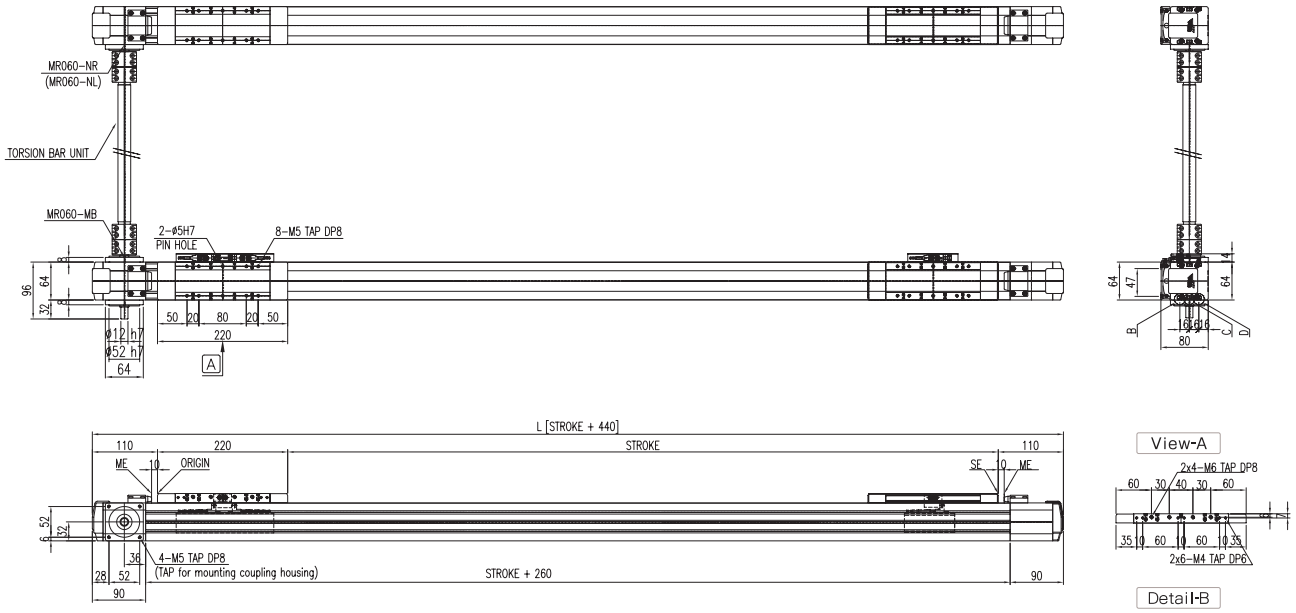
Specification		Unit	MR060-MSR(L)-10					
MR060								
Rated Output		W	100W,3000min^{-1}					
Raducer		Ratio	3	4	5	6	8	10
Max. Speed	Note1	mm/s	2200	1600	1300	1100	950	800
Max. Load	Note2	kg	5	10	15	24	30	40
Stroke Range		mm	200 ~ 3700					
Repeatability		mm	±0.1					
Drive Type		-	BELT					

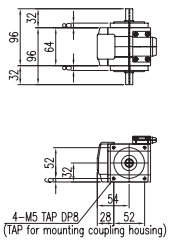
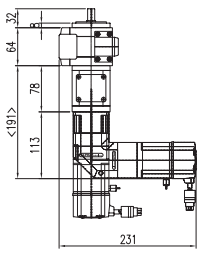
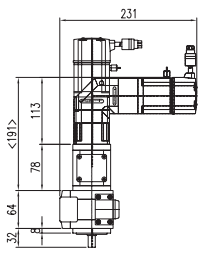
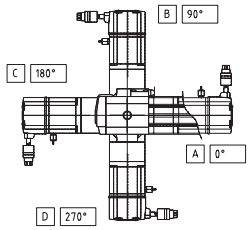
Specification		Unit	Data			
Acceleration		G	0.3			
Load		kg	5	15	25	40
Allowable Overhang Distance - mm	Horizontal Use	0°	270	86	49	28
		45°	270	86	49	29
		90°	350	350	350	350
	Note4 Wall Installation Use	0°	350	350	350	350
		45°	250	76	41	21
		90°	255	77	42	21
	Note4 Vertical Use	0°	350	350	218	136
		45°	350	207	124	77
		90°	350	350	240	150
Note3	Estimated Condition	Max Speed : 2000 mm/s	Acceleration : 0.3 G (2.94 m/s²)			
		Life in traveled distance : 30000 km				

MR060 - MR

N 2 AXIS

* All dimensions in mm



MR060-MB	MR060-MR	MR060-ML	REDUCER DIRECTION
	(M)Type of Motor mounted 	(M)Type of Motor mounted 	

Model \ Stroke	Units	300	500	900	1300	1700	2100	250	2900	3300	3700	Offset(100)
MR060-20	kg	9.9	10.9	12.9	14.9	16.9	19.4	20.9	22.9	24.9	28.5	1.23
MR060-20-R03	mm/s	2200										
MR060-20-R04	mm/s	1600										
MR060-20-R05	mm/s	1350										
MR060-20-R06	mm/s	1100										
MR060-20-R07	mm/s	950										
MR060-20-R08	mm/s	800										

⚠ CAUTION

In case of reference position return, be cautious not to contact with peripheral units because slider transfers up to ME. ·ME : Mechanical End ·SE : Stroke End
Dimensions of "< >" are subject to change by specifications of motor or gearbox(reducer).

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NOTE2 it is changed by operating conditions.
NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
NOTE4 In case of Vertical use or Wall installation use, please consult with us.

Model	MR050	MR060	MR080					

Values of ( ) is in case of speed of 1000mm/sec. / H of Max. Load indicares Horizontal use and V of Max.Load indicates Vertical use.

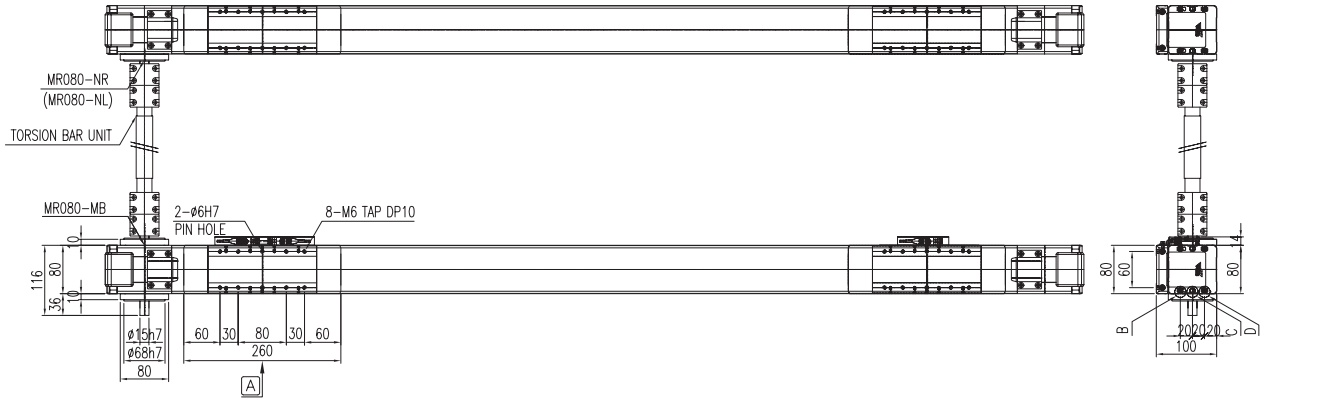
Specification		Unit	MR080-NSR(L)-10					
MR080								
Rated Output		W	400W,3000 min^{-1}					
Raducer	Note1	Ratio	3	4	5	6	8	10
Max. Speed	Note2	mm/s	2500	2200	1750	1450	1100	850
Max. Load	Note3	kg	5	10	18	28	50	80
Stroke Range		mm	200 ~ 5000					
Repeatability		mm	± 0.1					
Drive Type		-	BELT					

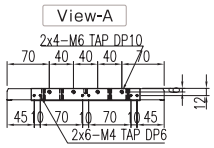
Specification			Unit	Data			
Acceleration			G	0.3			
Load			kg	10	30	50	80
Allowable Overhang Distance - mm	Horizontal Use		0°	450	145	83	48
			45°	450	144	83	48
			90°	500	500	500	500
	Note4 Wall Installation Use		0°	500	500	500	500
			45°	420	128	69	36
			90°	430	131	71	37
	Note4 Vertical Use		0°	500	365	220	138
			45°	500	215	128	80
			90°	500	425	253	159
Note3	Estimated Condition		Max Speed : 2000 mm/s			Acceleration : 0.3 G (2.94 m/s^2)	
			Life in traveled distance : 30000 km				

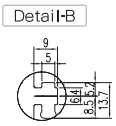
MR080

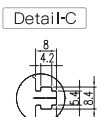
N 2 AXIS

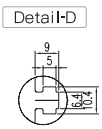
* All dimensions in mm

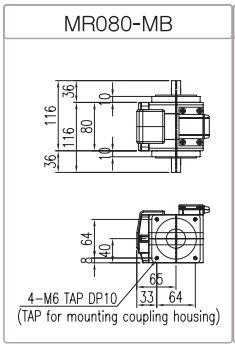












Model \ Stroke	Units	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	Offset(100)
MR080-40	kg	18.5	23	27.6	32.1	36.7	41.2	45.8	55.1	64.3	73.5	1.85
MR080-40-R03	mm/s	2500										
MR080-40-R04	mm/s	2200										
MR080-40-R05	mm/s	1750										
MR080-40-R06	mm/s	1450										
MR080-40-R08	mm/s	1100										
MR080-40-R10	mm/s	850										

⚠ CAUTION

In case of reference position return, be cautious not to contact with peripheral units because slider transfers up to ME. ·ME : Mechanical End ·SE : Stroke End
Dimensions of "< >" are subject to change by specifications of motor or gearbox(reducer).

NOTE1 In case of the short stroke, it may not be reached at maximum speed.
NOTE2 it is changed by operating conditions.
NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
NOTE4 In case of Vertical use or Wall installation use, please consult with us.