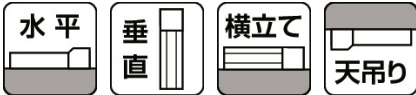


RCP6-HSA7XR

Product Features



Installation position



Catalog PDF	Instruction manual PDF
2D CAD drawings	Parametric CAD Drawings
Request information	



(Note) The photo above shows the motor left-folded specification (ML).

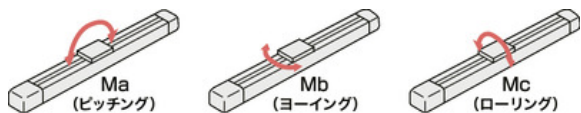
[Dimensions](#)
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[Adaptive Controller](#)

Main Specifications

[Specification 1](#)
[Specification 2](#)

item		Contents				
Lead	Ball screw lead (mm)	twenty four	16	8	4	
Horizontal	Payload capacity	Maximum payload (kg) (high output effective)	37	48	53	53
		Maximum payload (kg) (high output disabled)	18	35	40	40
	Speed/Acceleration	Maximum speed (mm/s)	1080	700	350	175
		Minimum speed (mm/s)	30	20	10	5
		Rated acceleration/deceleration (G)	0.3	0.1	0.1	0.1
		Maximum acceleration/deceleration (G)	1	1	1	1
vertical	Payload capacity	Maximum payload (kg) (high output effective)	3	8	16	twenty five
		Maximum payload (kg) (high output disabled)	2	5	10	15
	Speed/Acceleration	Maximum speed (mm/s)	860	560	350	140
		Minimum speed (mm/s)	30	20	10	5
		Rated acceleration/deceleration (G)	0.3	0.3	0.3	0.3
		Maximum acceleration/deceleration (G)	0.5	0.5	0.5	0.5
Pressing	Maximum thrust when pressing (N)	139	209	418	836	
	Maximum pressing speed (mm/s)	30	30	20	20	
brake	Brake specifications	Non-excitation electromagnetic brake				
	Brake holding force (kgf)	3	8	16	twenty five	
stroke	Minimum stroke (mm)	700	700	700	700	
	Maximum stroke (mm)	1500	1500	1500	1100	
	Stroke pitch (mm)	50	50	50	50	

Slider type moment direction



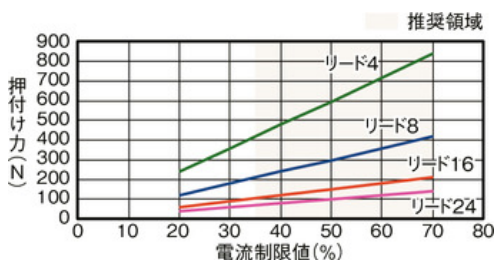
Stroke and maximum speed

(Unit: mm/s)

Lead (mm)	Connection Controller	700 to 1000 (in 50mm increments)	1050 (mm)	1100 (mm)	1150 (mm)	1200 (mm)	1250 (mm)	1300 (mm)	
twenty four	High output enabled	1080<860>		990<860>	920<860>	850	770	735	
	High output disabled	800<640>					770<640>	735<640>	640
16	High output enabled	700<560>		645<560>	590<560>	555	510	470	
	High output disabled	500<420>						470<420>	420
8	High output enabled	350	345	310	285	255	245	230	
	High output disabled	210							
4	High output enabled	175<140>	165<140>	150<140>					
	High output disabled	120<105>							

(Note) <> indicates vertical use. Blank indicates non-operational.

Correlation diagram between pressing force and current limit value



Payload capacity by speed and acceleration *High output setting is enabled at the time of shipment. For details, see page 1-23 .

High output setting enabled (power mode) The maximum speed varies depending on the payload. The payload is in kg. Blank spaces indicate that the operation is not possible.

	Lead 24	Lead 16	Lead 8	Lead 4					
posture	Horizontal						vertical		
	Acceleration (G)								
speed (mm/s)	0.1	0.3	0.5	0.7	1	0.1	0.3	0.5	
0	37	37	twenty two	16	14	3	3	3	
200	37	37	twenty two	16	14	3	3	3	
420	34	34	20	16	11	3	3	3	
640	15	15	10	8	6.5	3	3	2	
860		9	6	3	2		1	0.5	
1080		3							

High output setting disabled (energy saving mode) The maximum speed varies depending on the payload. The payload is in kg. Blank spaces indicate that the operation is not possible.

	Lead 24	Lead 16	Lead 8	Lead 4
posture				
speed (mm/s)	Horizontal		vertical	
	Acceleration (G)			
		0.3	0.7	0.3
0		18	10	2
200		18	10	2
420		18	10	2
640		9	2	1
800		1		

Adaptive Controller


The actuators on this page can be operated with the following controllers. Please select the type that suits your application.

name	exterior	Maximum number of connectable axes	Power supply voltage			
				Positioner	Pulse train	program
MSEL-PC/PG		4	Single phase AC 100-230V	-	-	●
PCON-CB/CGB		1	DC24V	● ※Select	● ※Select	-
PCON-CYB/PLB/POB		1		● ※Select	● ※Select	-
RCON		16 (ML3, SSN, ECM are 8)		-	-	-
RSEL		8		-	-	●

(Note) For network abbreviations such as DV and CC, please see page [8-15](#).



Selection considerations

<p>選定上の 注意</p> 	<p>(1) As the stroke becomes longer, the maximum speed decreases due to the critical speed of the ball screw. Check the maximum speed for the desired stroke.</p> <p>(2) The maximum load capacity is shown in "Main specifications". For details, refer to "Load capacity by speed and acceleration table".</p> <p>(3) When performing a pressing operation, refer to "Correlation diagram of pressing force and current limit value". The pressing force is a guideline value.</p> <p>(4) Duty ratio must be limited depending on the ambient temperature. For details, refer to page 1-326.</p> <p>(5) Caution is required depending on the mounting position. For details, refer to page 1-307.</p> <p>(6) The guideline for the overhang load length is 400 mm or less in the Ma, Mb, and Mc directions. For the overhang load length, refer to the explanation in the "Main specifications".</p>
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Dimensions

CAD図面がホームページよりダウンロード出来ます。

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ST: Stroke

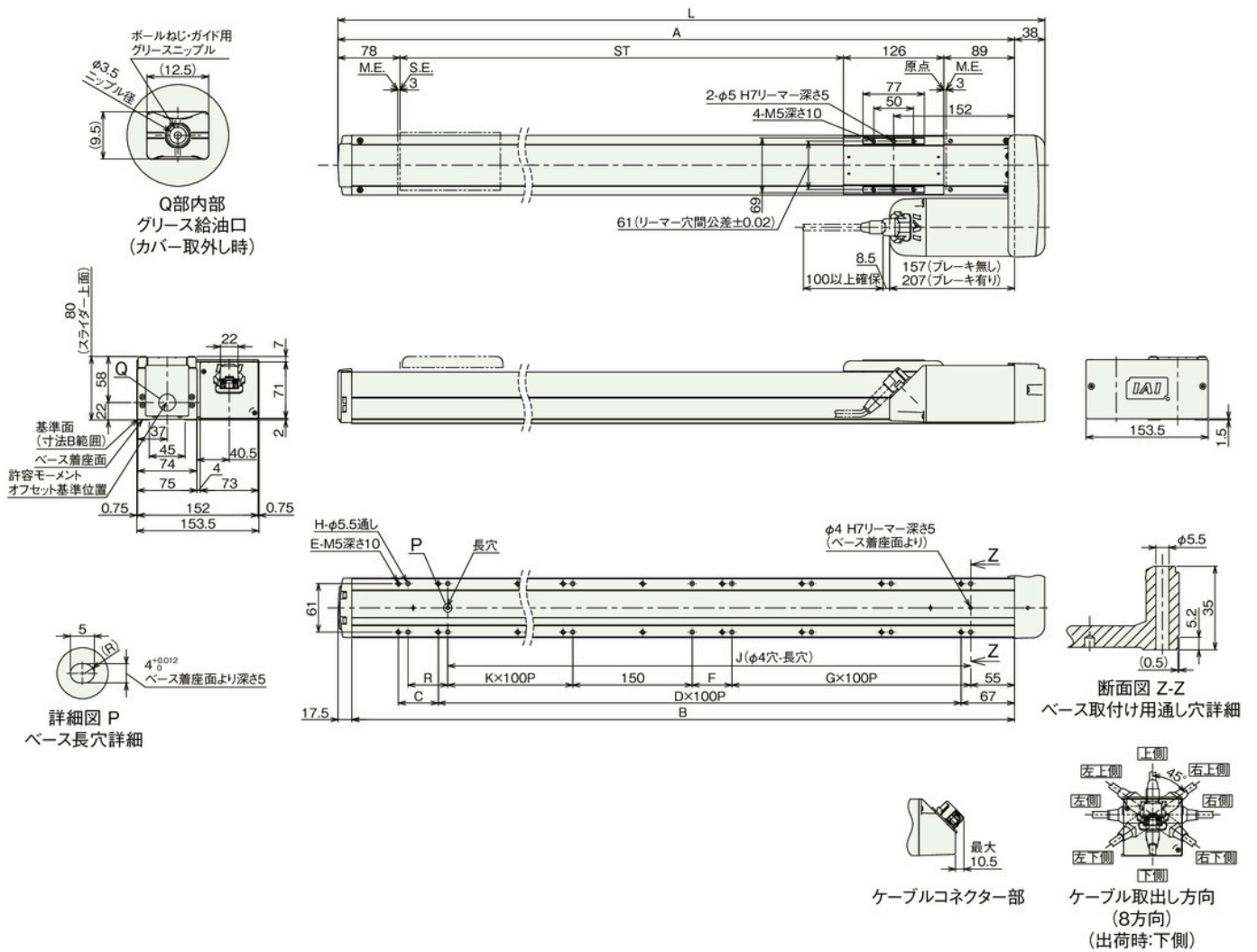
ME: Mechanical end

SE: Stroke end

(Note) When performing origin return, the slider will move to the ME, so please be careful not to interfere with the surroundings.

(Note) The diagram below shows the motor left-side reverse specification (ML).

(Note) For details on precautions for changing the cable exit direction, refer to page [3-716](#).



Stroke dimensions

stroke	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	
A	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	
B	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5	1325.5	1375.5	1425.5	1475.5	1525.5	1575.5	1625.5	1675.5	1725.5	
C	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	
D	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	
E	20	20	twenty two	twenty two	twenty four	twenty four	26	26	28	28	30	30	32	32	34	34	
F	50	0	0	50	50	0	0	50	50	0	0	50	50	0	0	50	
G	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	
H	20	20	20	twenty two	twenty four	twenty four	twenty four	26	28	28	28	30	32	32	32	34	
J	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	
K	3	3	4	4	4	4	5	5	5	6	6	6	6	7	7	7	
R	50	50	0	0	50	50	0	0	50	50	0	0	50	50	0	0	

Mass by stroke

stroke	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
Mass (kg)	No brakes	8.7	9.0	9.2	9.5	9.8	10.1	10.3	10.6	10.9	11.1	11.4	11.7	11.9	12.2	12.5	13.0
	With brake	9.2	9.5	9.7	10.0	10.3	10.6	10.8	11.1	11.4	11.6	11.9	12.2	12.4	12.7	13.0	13.5