Single-Axis Robot / Rod

RCP6-RA series

±10 μm Standard | Battery absolute | Motor straight | Side-mounted motor | 24V stepper motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCP6-RA4C | RCP6-RA4R | RCP6-RA6C | RCP6-RA6R | RCP6-RA7C | RCP6-RA7R | RCP6-RA8C | RCP6-RA8R

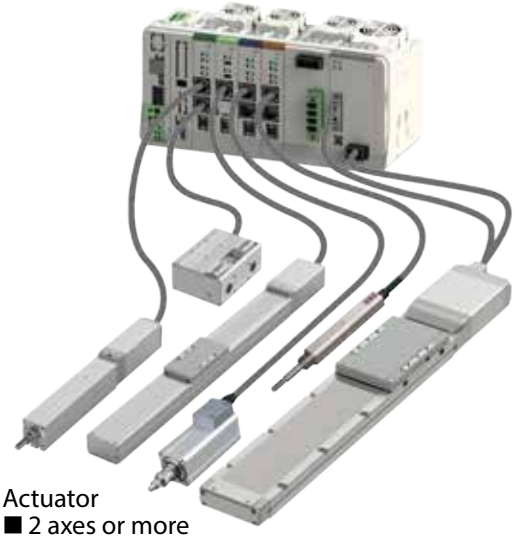
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

PCON controller

Actuator
■ 1 axis

RCON controller



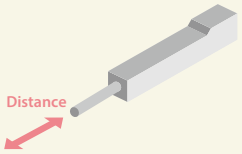
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

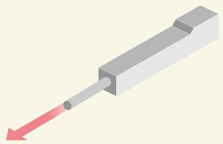
How to read the table and search the reference page

1 Stroke



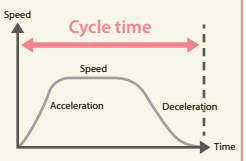
* The belt length shows selectable strokes.
Ex.) RA4C can select from 50 to 200mm.

2 Maximum speed (operation speed)



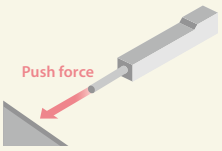
* Figures in < > represent operations in vertical use.

3 Cycle time



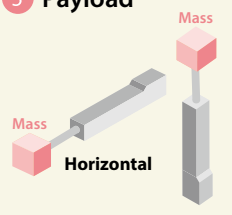
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
RA4C	840 0.426 seconds	16	–	48	6	1.5
	700 0.458 seconds	10	–	77	15	2.5
	350 0.703 seconds	5	–	155	28	5
	175 1.247 seconds	2.5	–	310	40	10
RA4R	840 0.426 seconds	16	–	48	5	1
	610 0.534 seconds	10	–	77	12	2.5
	350 0.703 seconds	5	–	155	25	5
	175 1.247 seconds	2.5	–	310	40	10
RA6C	800 0.635 seconds	20	–	56	6	1.5
	700 0.662 seconds	12	–	93	25	4
	450 0.843 seconds	6	–	185	40	10
	225 1.446 seconds	3	–	370	60	20
RA6R	800 0.558 seconds	20	–	56	6	1.5
	700 0.662 seconds	12	–	93	25	4
	450 0.843 seconds	6	–	185	40	10
	225 1.446 seconds	3	–	370	60	20
RA7C	860〈640〉 0.585 seconds	24	–	182	20	3
	700〈560〉 0.693 seconds	16	–	273	50	8
	420〈350〉 0.999 seconds	8	–	547	60	18
	210〈175〉 1.688 seconds	4	–	1094	80	28
RA7R	800〈640〉 0.635 seconds	24	–	182	20	3
	560 0.693 seconds	16	–	273	50	8
	420〈350〉 1.049 seconds	8	–	547	60	18
	175 1.844 seconds	4	–	1094	80	28
RA8C	600〈450〉 0.868 seconds	20	–	500	30	5
	300〈250〉 1.215 seconds	10	–	1000	60	40
	150 2.212 seconds	5	–	2000	100	70
RA8R	400 1.016 seconds	20	–	500	30	5
	200 1.664 seconds	10	–	1000	60	40
	100 3.146 seconds	5	–	2000	100	70

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Rod

RCP6-RRA series

Radial Cylinder®
to support radial load

±10 μm Standard | Battery absolute | Motor straight | Side-mounted motor | 24V stepper motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCP6-RRA4C | RCP6-RRA4R | RCP6-RRA6C | RCP6-RRA6R | RCP6-RRA7C | RCP6-RRA7R | RCP6-RRA8C | RCP6-RRA8R

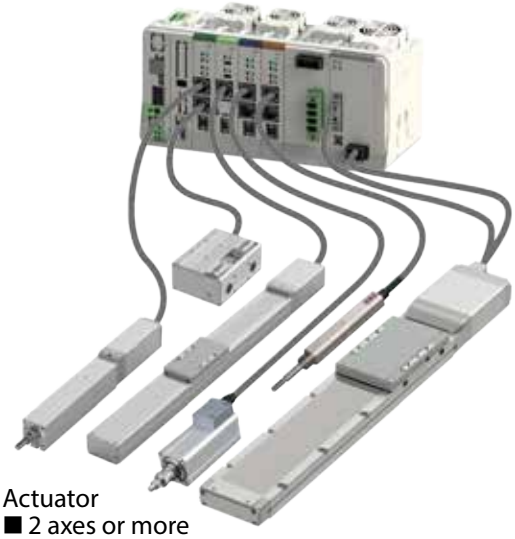
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

PCON controller

Actuator
■ 1 axis

RCON controller



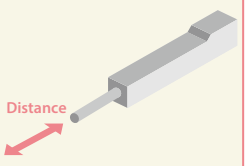
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

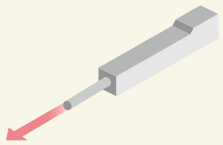
How to read the table and search the reference page

1 Stroke



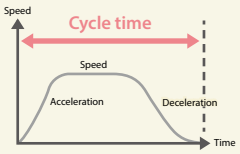
* The belt length shows selectable strokes.
Ex.) RRA4C can select from 60 to 410mm.

2 Maximum speed (operation speed)



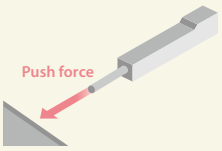
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 1080mm/s for RRA4C with lead of 16mm and stroke of 410mm.
* Figures in < > represent operations in vertical use.

3 Cycle time



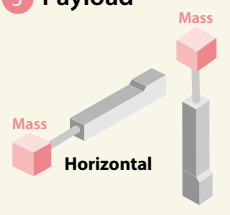
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Max. push force (N)	Lead (mm)	Rated thrust force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
RRA4C	1120 (1080) 0.592 seconds	16	–	48	7	1.5
	700 (685) 0.77 seconds	10	–	77	18	3
	350 (340) 1.336 seconds	5	–	155	28	6
	175 (170) 2.515 seconds	2.5	–	310	40	10
RRA4R	840 0.676 seconds	16	–	48	5	1
	610 0.882 seconds	10	–	77	13	2.5
	350 (340) 1.336 seconds	5	–	155	28	5
	175 (170) 2.515 seconds	2.5	–	310	40	10
RRA6C	800 0.767 seconds	20	–	56	6	1.5
	700 0.821 seconds	12	–	93	25	4
	450 1.099 seconds	6	–	185	40	10
	225 (220) 1.999 seconds	3	–	370	60	20
RRA6R	800 0.767 seconds	20	–	56	6	1.5
	700 0.821 seconds	12	–	93	25	4
	450 1.099 seconds	6	–	185	40	10
	225 (220) 1.999 seconds	3	–	370	60	20
RRA7C	860〈640〉 0.824 seconds	24	–	182	20	3
	700〈560〉 1.053 seconds	16	–	273	50	8
	420 1.471 seconds	8	–	547	60	18
	210 2.749 seconds	4	–	1094	80	28
RRA7R	860〈640〉 0.885 seconds	24	–	182	20	3
	560 1.106 seconds	16	–	273	50	8
	420〈350〉 1.694 seconds	8	–	547	60	18
	175 3.117 seconds	4	–	1094	80	28
RRA8C	280 405 505〈450〉 585〈450〉 600〈450〉 520〈450〉 440 360 320 280 240 220 3.356sec.	20	–	500	30	5
	280〈250〉 300〈250〉 260〈250〉 220 180 160 140 120 110 6.478sec.	10	–	1000	60	40
	150 130 110 90 80 70 60 55 12.824sec.	5	–	2000	100	70
RRA8R	280 400 360 320 280 240 220 3.356sec.	20	–	500	30	5
	200 180 160 140 120 110 6.478sec.	10	–	1000	60	40
	100 90 80 70 60 55 12.824sec.	5	–	2000	100	70

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Rod

RCP6-WRA series

Radial Cylinder®
to support radial load

±10 μm Standard | Battery absolute | Motor straight | Side-mounted motor | 24V stepper motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCP6-WRA10C | RCP6-WRA10R | RCP6-WRA12C | RCP6-WRA12R | RCP6-WRA14C | RCP6-WRA14R | RCP6-WRA16C | RCP6-WRA16R

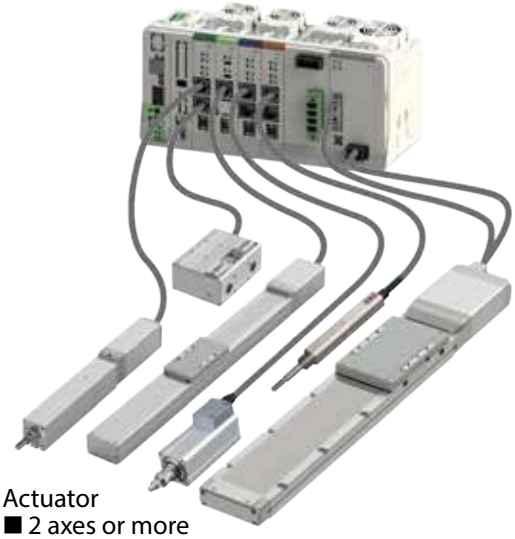
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

PCON controller

Actuator
■ 1 axis

RCON controller



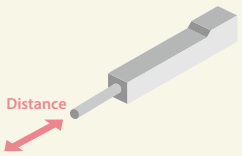
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

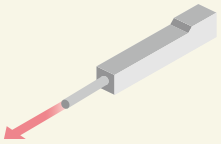
How to read the table and search the reference page

1 Stroke



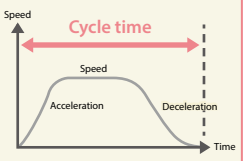
* The belt length shows selectable strokes.
Ex.) WRA10C can select from 50 to 500mm.

2 Maximum speed (operation speed)



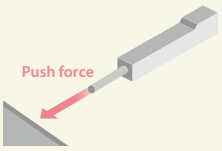
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 490mm/s for WRA10C with lead of 10mm and stroke of 500mm.
* Figures in < > represent operations in vertical use.

3 Cycle time



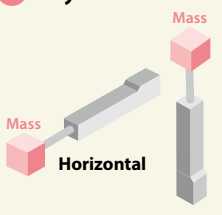
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
WRA10C	700 — 0.943 seconds	16	–	48	4	–
	525 / 490 — 1.184 seconds	10	–	77	14.5	–
	350〈260〉 / 290〈260〉 / 240 — 2.198 seconds	5	–	155	28	5
	175 / 145 / 120 — 4.258 seconds	2.5	–	310	40	10
WRA10R	700 — 0.943 seconds	16	–	48	4	–
	525 / 490 — 1.184 seconds	10	–	77	11.5	–
	350〈260〉 / 290〈260〉 / 240 — 2.198 seconds	5	–	155	28	5
	175〈150〉 / 145 / 120 — 4.258 seconds	2.5	–	310	40	10
WRA12C	800 — 0.873 seconds	20	–	56	7.5	–
	560 — 1.05 seconds	12	–	93	30	–
	400〈340〉 / 375〈340〉 — 1.468 seconds	6	–	185	55	7.5
	225〈200〉 / 220〈200〉 / 185 — 2.808 seconds	3	–	370	70	17.5
WRA12R	800 — 0.873 seconds	20	–	56	7.5	–
	560 — 1.05 seconds	12	–	93	30	–
	400〈280〉 / 375〈280〉 — 1.468 seconds	6	–	185	55	7.5
	225〈200〉 / 220〈200〉 / 185 — 2.808 seconds	3	–	370	70	17.5
WRA14C	630 — 1.166 seconds	24	–	182	25	–
	560 — 1.335 seconds	16	–	273	50	–
	420〈210〉 / 395〈210〉 — 1.906 seconds	8	–	547	65	15
	210〈130〉 / 195〈130〉 — 3.321 seconds	4	–	1094	85	25
WRA14R	630 — 1.166 seconds	24	–	182	25	–
	560 — 1.335 seconds	16	–	273	50	–
	350〈210〉 — 2.116 seconds	8	–	547	65	15
	175〈130〉 — 3.652 seconds	4	–	1094	85	25
WRA16C	280 405 450 400 340 295 260 225 200 180 — 4.598 sec.	20	–	500	30	–
	240〈200〉 / 230〈200〉 195 165 145 125 110 100 90 — 8.992 sec.	10	–	1000	60	36.5
	130〈100〉 / 115〈100〉 95 80 70 60 55 50 45 — 17.863 sec.	5	–	2000	100	70
WRA16R	280 405 420 400 340 295 260 225 200 180 — 4.598 sec.	20	–	500	30	–
	240〈180〉 / 230〈180〉 195 165 145 125 110 100 90 — 8.992 sec.	10	–	1000	60	34.5
	120〈100〉 / 115〈100〉 95 80 70 60 55 50 45 — 17.863 sec.	5	–	2000	100	63

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Rod

Radial Cylinder®
to support radial load

RCP5-RA series

Battery absolute | Motor straight | Side-mounted motor | 24V stepper motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCP5-RA10C

RCP5-RA10R

RCP4-RA series

Motor straight | Side-mounted motor | 24V stepper motor

RCP4-RA3C

RCP4-RA3R

RCP4-RA5C

RCP4-RA5R

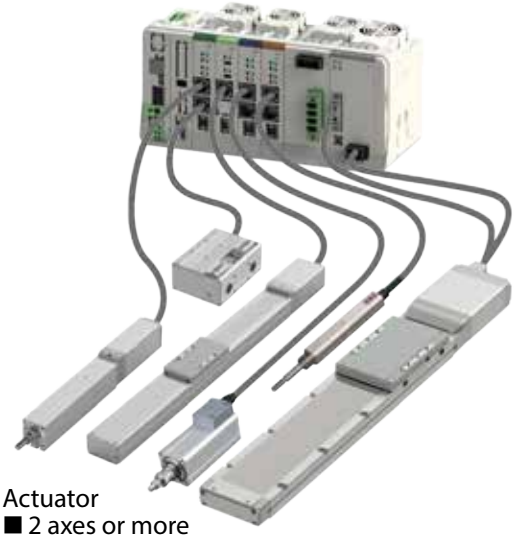
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

PCON controller

Actuator
■ 1 axis

RCON controller



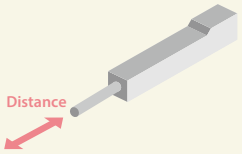
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

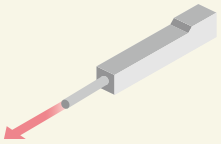
How to read the table and search the reference page

1 Stroke



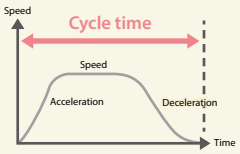
* The belt length shows selectable strokes.
Ex.) RA10C can select from 50 to 800mm.

2 Maximum speed (operation speed)



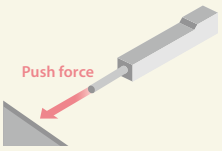
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 120mm/s for RA10C with lead of 10mm and stroke of 800mm.
* Figures in < > represent operations in vertical use.

3 Cycle time



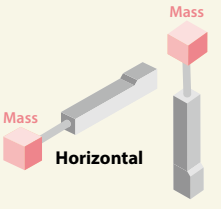
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
		25 50 100 150 200~400 450 500 550 600 650 700 750 800 850 900 950 1000 1050					
RCP5	RA10C	117 167 200 〈167〉 250〈167〉 220 〈167〉 200 〈167〉 180 〈167〉 160 140 120 — 6.973 seconds	10	–	1500	80	80
		83 125 110 90 80 70 60 55 50 45 — 17.996 seconds	5	–	3000	150	100
		63 55 50 45 40 35 30 — 26.947 seconds	2.5	–	6000	300	150
	RA10R	117 167 〈140〉 200〈140〉 180 〈140〉 160 〈140〉 140 120 — 6.973 seconds	10	–	1500	80	80
		83 100 90 80 70 60 55 50 45 — 17.996 seconds	5	–	3000	150	100
		50 45 40 35 30 — 26.947 seconds	2.5	–	6000	300	150

* Figures in ( ) represent operations in vertical use.

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
		25 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900					
RCP4	RA3C	1120 — 0.485 seconds	16	–	36	6	1.5
		700 — 0.601 seconds	10	–	57	12	2.5
		350 — 0.989 seconds	5	–	114	24	5
		175 — 1.818 seconds	2.5	–	229	36	10
	RA3R	1120 — 0.485 seconds	16	–	36	5	1
		700 — 0.601 seconds	10	–	57	12	2.5
		350 — 0.989 seconds	5	–	114	24	5
		175 — 1.818 seconds	2.5	–	229	36	10
	RA5C	800 — 0.748 seconds	20	–	56	6	1.5
		700 — 0.799 seconds	12	–	93	25	4
		450 — 1.065 seconds	6	–	185	40	10
		225 — 1.89 seconds	3	–	370	60	20
	RA5R	800 — 0.748 seconds	20	–	56	6	1.5
		700 — 0.799 seconds	12	–	93	25	4
		450 — 1.065 seconds	6	–	185	40	10
		225 — 1.89 seconds	3	–	370	60	20
	RA5C (Highthrust force)	〈80〉 — 5.028 seconds	3	–	750	–	35

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Rod

RCP3/RCP2-RA series

Motor straight | Side-mounted motor | 24V stepper motor

RCP3-RA2AC
RCP3-RA2BC

RCP3-RA2AR
RCP3-RA2BR

RCP2-SRA4R

RCP2-SRGS4R

RCP2-SRGD4R

RCP2-RA10C

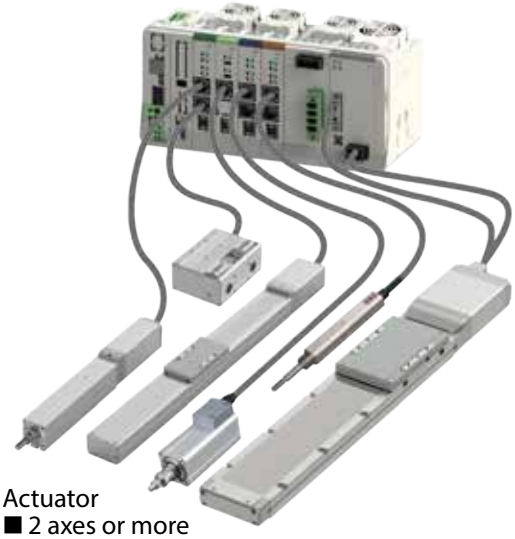
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

PCON controller

Actuator
■ 1 axis

RCON controller



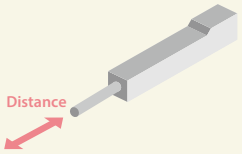
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

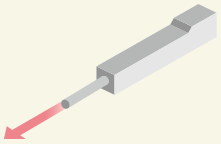
How to read the table and search the reference page

1 Stroke



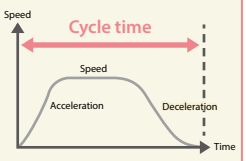
* The belt length shows selectable strokes.

2 Maximum speed (operation speed)



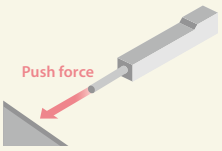
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 200mm/s for RA2AC with lead of 4mm and stroke of 100mm.
* Figures in < > represent operations in vertical use.

3 Cycle time



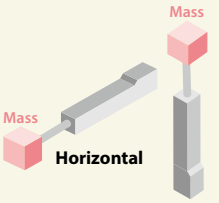
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
		25 / 50 / 100 / 150 / 200 / 250					
RCP3	RA2AC RA2AR (Highthrust force / ball screw)	180 200 — 0.603 seconds	4	–	23.1～35.7	1	0.32
		100 — 1.067 seconds	2	–	46.2～70.6	2	0.62
		50 — 2.044 seconds	1	–	92.4～142.9	4	1.25
	RA2AC RA2AR (Standard / ball screw)	180 200 — 0.603 seconds	4	–	12.6～20.9	0.5	0.2
		100 — 1.067 seconds	2	–	25.2～42.0	1	0.37
		50 — 2.044 seconds	1	–	50.4～82.8	2	0.75
	RA2BC RA2BR (Highthrust force / ball screw)	180 280 300 — 0.637 seconds	6	–	15.4～24.1	1	0.32
		180 200 — 0.852 seconds	4	–	23.1～35.7	2	0.62
		100 — 1.566 seconds	2	–	46.2～70.6	4	1.25
		50 — 3.044 seconds	1	–	92.4～142.9	8	2.5
	RA2BC RA2BR (Standard / ball screw)	180 280 300 — 0.637 seconds	6	–	6.3～14.3	0.5	0.2
		180 200 — 0.852 seconds	4	–	12.6～20.9	1	0.37
		100 — 1.566 seconds	2	–	25.2～42.0	2	0.75
		50 — 3.044 seconds	1	–	50.4～82.8	4	1.5

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
		20 / 50 / 100 / 150 / 200 / 250 / 300 / 350 / 400					
RCP2	SRA4R	250 — 0.92 seconds	5	–	112	25	9
		125 — 1.691 seconds	2.5	–	224	35	15
	SRGS4R	250 — 0.92 seconds	5	–	112	24	8
		125 — 1.691 seconds	2.5	–	224	35	15
	SRGD4R	250 — 0.92 seconds	5	–	112	24	8
		125 — 1.691 seconds	2.5	–	224	35	15
	RA10C	250〈167〉 — 1.839 sec.	10	–	1500	80	80
		125 — 3.026 sec.	5	–	3000	150	100
		63 — 5.378 sec.	2.5	–	6000	300	150

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Rod

RCD series

24V DC brushless motor

RCD-RA1DA

RCA2/RCA series

Motor straight | Side-mounted motor | 24V stepper motor

RCA2-RN3NA RCA2-RN4NA | RCA2-RP3NA RCA2-RP4NA | RCA2-GS3NA RCA2-GS4NA | RCA2-GD3NA RCA2-GD4NA | RCA2-SD3NA RCA2-SD4NA | RCA-RA3C RCA-RA4C | RCA-RA3R RCA-RA4R

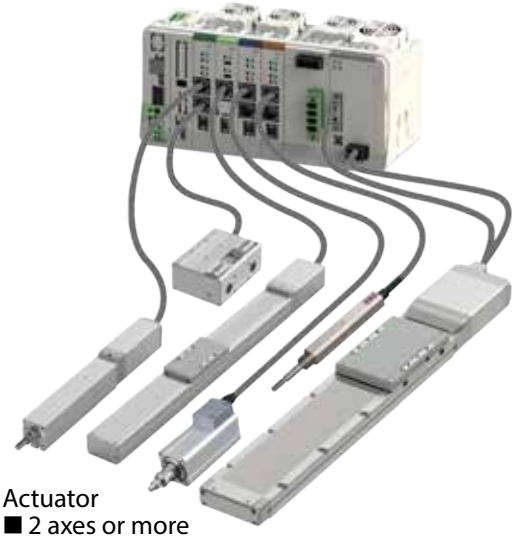
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

ACON controller
DCON

Actuator
■ 1 axis

RCON controller



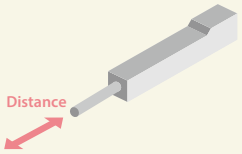
Actuator
■ 2 axes or more

RSEL controller

■ Operations with a 2D/3D trajectory
■ Palletizing operations
■ Registration of multi-axis operations

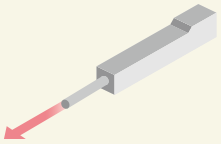
How to read the table and search the reference page

1 Stroke



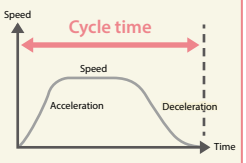
* The belt length shows selectable strokes.
Ex.) RA1DA can select from 10 to 30mm.

2 Maximum speed (operation speed)



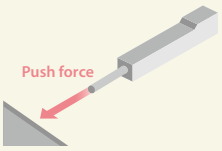
* Figures in < > represent operations in vertical use.

3 Cycle time



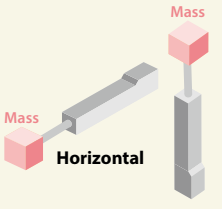
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



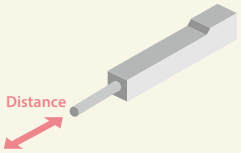
* Payload changes depending on acceleration and mounting posture.

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
		10 / 20 / 30 / 50 / 75 / 100 / 150 / 200					
RCD	RA1DA	300 — 0.245 seconds	2	4.2	2.6～5.98	0.7	0.3
RCA2	RN3NA (ball screw)	200 — 0.353 seconds	4	42.7	–	0.75	0.25
		100 — 0.635 seconds	2	85.5	–	1.5	0.5
		50 — 1.107 seconds	1	170.9	–	3	1
	RN3NA (sliding screw)	200 — 0.379 seconds	4	25.1	–	0.25	0.125
		100 — 0.645 seconds	2	50.3	–	0.5	0.25
		50 — 1.107 seconds	1	100.5	–	1	0.5
	RN4NA (ball screw)	270 〈220〉 300 — 0.304 seconds	6	33.8	–	2	0.5
		200 — 0.353 seconds	4	50.7	–	3	0.75
		100 — 0.645 seconds	2	101.5	–	6	1.5
	RN4NA (sliding screw)	220 300 — 0.347 seconds	6	19.9	–	0.25	0.125
		200 — 0.379 seconds	4	29.8	–	0.5	0.25
		100 — 0.645 seconds	2	59.7	–	1	0.5
	RP3NA (ball screw)	200 — 0.353 seconds	4	42.7	–	0.75	0.25
		100 — 0.635 seconds	2	85.5	–	1.5	0.5
		50 — 1.107 seconds	1	170.9	–	3	1
	RP3NA (sliding screw)	200 — 0.379 seconds	4	25.1	–	0.25	0.125
		100 — 0.645 seconds	2	50.3	–	0.5	0.25
		50 — 1.107 seconds	1	100.5	–	1	0.5
	RP4NA (ball screw)	270 〈220〉 300 — 0.304 seconds	6	33.8	–	2	0.5
		200 — 0.353 seconds	4	50.7	–	3	0.75
		100 — 0.645 seconds	2	101.5	–	6	1.5
	RP4NA (sliding screw)	220 300 — 0.347 seconds	6	19.9	–	0.25	0.125
		200 — 0.379 seconds	4	29.8	–	0.5	0.25
		100 — 0.645 seconds	2	59.7	–	1	0.5

* Figures in <> represent operations in vertical use.

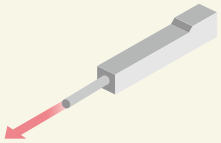
How to read the table and search the reference page

1 Stroke



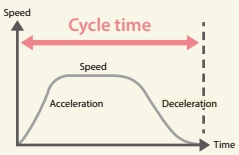
* The belt length shows selectable strokes.
Ex.) GS3NA can select 30 and 50mm.

2 Maximum speed (operation speed)



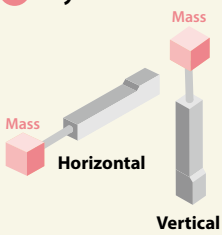
* Figures in < > represent operations in vertical use.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Payload



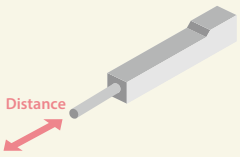
* Payload changes depending on acceleration and mounting posture.

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
		25 / 30 / 50 / 75 / 100 / 150 / 200					
RCA2	GS3NA (ball screw)	200 0.353 seconds	4	42.7	–	0.75	0.25
		100 0.635 seconds	2	85.5	–	1.5	0.5
		50 1.107 seconds	1	170.9	–	3	1
	GS3NA (sliding screw)	200 0.379 seconds	4	25.1	–	0.25	0.125
		100 0.645 seconds	2	50.3	–	0.5	0.25
		50 1.107 seconds	1	100.5	–	1	0.5
	GS4NA (ball screw)	270 〈220〉 300 0.304 seconds	6	33.8	–	2	0.5
		200 0.353 seconds	4	50.7	–	3	0.75
		100 0.645 seconds	2	101.5	–	6	1.5
	GS4NA (sliding screw)	220 300 0.347 seconds	6	19.9	–	0.25	0.125
		200 0.379 seconds	4	29.8	–	0.5	0.25
		100 0.645 seconds	2	59.7	–	1	0.5
	GD3NA (ball screw)	200 0.353 seconds	4	42.7	–	0.75	0.25
		100 0.635 seconds	2	85.5	–	1.5	0.5
		50 1.107 seconds	1	170.9	–	3	1
	GD3NA (sliding screw)	200 0.379 seconds	4	25.1	–	0.25	0.125
		100 0.645 seconds	2	50.3	–	0.5	0.25
		50 1.107 seconds	1	100.5	–	1	0.5
	GD4NA (ball screw)	270 〈220〉 300 0.304 seconds	6	33.8	–	2	0.5
		200 0.353 seconds	4	50.7	–	3	0.75
		100 0.645 seconds	2	101.5	–	6	1.5
	GD4NA (sliding screw)	220 300 0.347 seconds	6	19.9	–	0.25	0.125
		200 0.379 seconds	4	29.8	–	0.5	0.25
		100 0.645 seconds	2	59.7	–	1	0.5
	SD3NA (ball screw)	200 0.353 seconds	4	42.7	–	0.75	0.25
		100 0.635 seconds	2	85.5	–	1.5	0.5
		50 1.107 seconds	1	170.9	–	3	1
	SD3NA (sliding screw)	200 0.379 seconds	4	25.1	–	0.25	0.125
		100 0.645 seconds	2	50.3	–	0.5	0.25
		50 1.107 seconds	1	100.5	–	1	0.5
	SD4NA (ball screw)	240 〈200〉 300 0.387 seconds	6	33.8	–	2	0.5
		200 0.478 seconds	4	50.7	–	3	0.75
		100 0.895 seconds	2	101.5	–	6	1.5
	SD4NA (sliding screw)	200 300 0.43 seconds	6	19.9	–	0.25	0.125
		200 0.504 seconds	4	29.8	–	0.5	0.25
		100 0.895 seconds	2	59.7	–	1	0.5

* Figures in <> represent operations in vertical use.

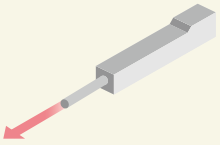
How to read the table and search the reference page

1 Stroke



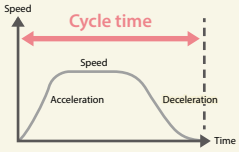
* The belt length shows selectable strokes.
Ex.) RA3C can select 50 to 200mm.

2 Maximum speed (operation speed)



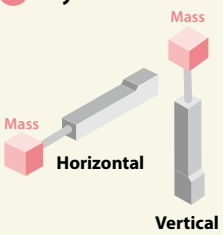
* Figures in < > represent operations in vertical use.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Payload



* Payload changes depending on acceleration and mounting posture.

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
		25 30 50 100 150 200 250 300 350 400 450					
RCA	RA3C RA3R	500 — 0.56 seconds	10	36.2	–	4	1.5
		250 — 0.936 seconds	5	72.4	–	9	3
		125 — 1.726 seconds	2.5	144.8	–	18	6.5
	RA4C RA4R (20W)	600 — 0.683 seconds	12	18.9	–	3	1
		300 — 1.144 seconds	6	37.7	–	6	2
		150 — 2.136 seconds	3	75.4	–	12	4
	RA4C RA4R (30W)	600 — 0.683 seconds	12	28.3	–	4	1.5
		300 — 1.144 seconds	6	56.6	–	9	3
		150 — 2.136 seconds	3	113.1	–	18	6.5

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Rod

RCS4-RA series

±10 μm Standard | Battery absolute | Motor straight | Side-mounted motor | 200V AC servo motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCS4-RA4C | RCS4-RA4R | RCS4-RA6C | RCS4-RA6R | RCS4-RA7C | RCS4-RA7R | RCS4-RA8C | RCS4-RA8R

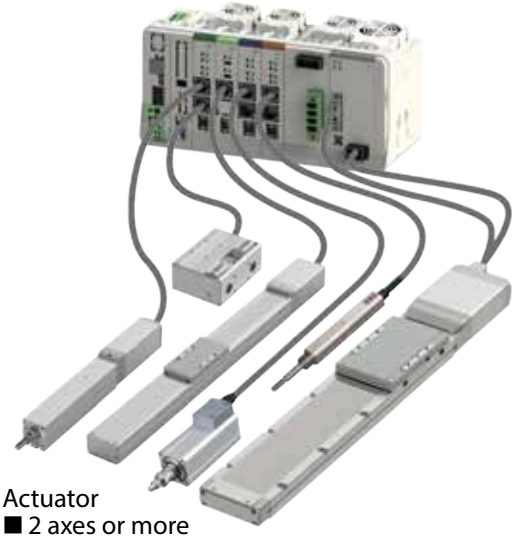
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

SCON controller

Actuator
■ 1 axis

RCON controller



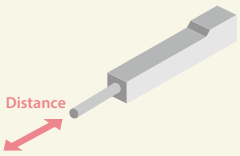
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

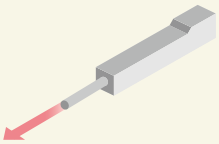
How to read the table and search the reference page

1 Stroke

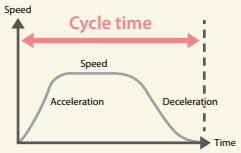


* The belt length shows selectable strokes.
Ex.) RA4C can select from 50 to 200mm.

2 Maximum speed (operation speed)

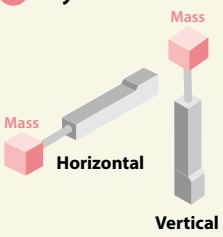


3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. 25 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
RA4C	800 0.476 seconds	16	53	–	8	2
	500 0.594 seconds	10	85	–	18	4
	250 0.961 seconds	5	170	–	30	6
	125 1.733 seconds	2.5	340	–	40	10
RA4R	800 0.485 seconds	16	53	–	8	2
	500 0.599 seconds	10	85	–	18	4
	250 0.961 seconds	5	170	–	30	6
	125 1.733 seconds	2.5	340	–	40	10
RA6C	1000 0.545 seconds	20	85	–	15	4
	600 0.705 seconds	12	142	–	25	10
	300 1.17 seconds	6	283	–	50	20
	150 2.142 seconds	3	566	–	60	20
RA6R	1000 0.557 seconds	20	85	–	15	4
	600 0.712 seconds	12	142	–	25	9
	300 1.17 seconds	6	283	–	50	19
	150 2.142 seconds	3	566	–	60	20
RA7C	1200 0.513 seconds	24	142	–	20	6
	800 0.601 seconds	16	214	–	45	12
	400 0.936 seconds	8	427	–	60	25
	200 1.655 seconds	4	855	–	80	35
RA7R	1200 0.528 seconds	24	142	–	20	6
	800 0.61 seconds	16	214	–	45	12
	400 0.936 seconds	8	427	–	60	25
	200 1.655 seconds	4	855	–	80	35
RA8C	1000 0.545 seconds	20	339	–	60	20
	500 0.799 seconds	10	678	–	80	40
	250 1.367 seconds	5	1357	–	100	72
RA8R	1000 0.557 seconds	20	339	–	60	20
	500 0.799 seconds	10	678	–	80	40
	250 1.367 seconds	5	1357	–	100	72

Single-Axis Robot / Rod

RCS4-RRA series

Radial Cylinder®
to support radial load

±10 μm Standard | Battery absolute | Motor straight | Side-mounted motor | 200V AC servo motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCS4-RRA4C | RCS4-RRA4R | RCS4-RRA6C | RCS4-RRA6R | RCS4-RRA7C | RCS4-RRA7R | RCS4-RRA8C | RCS4-RRA8R

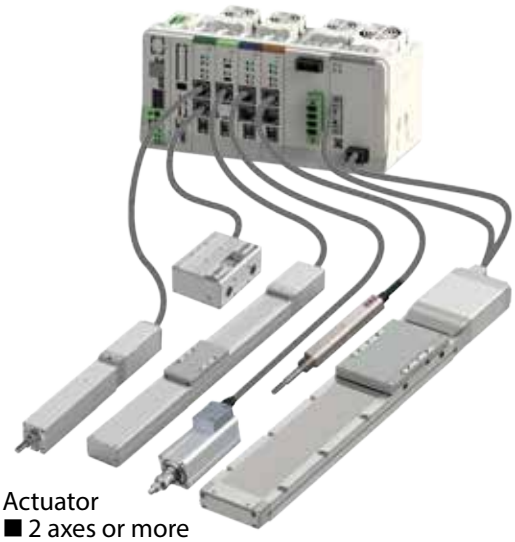
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

SCON controller

Actuator
■ 1 axis

RCON controller



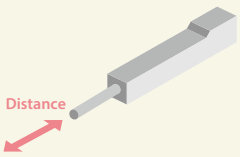
Actuator
■ 2 axes or more

RSEL controller

■ Operations with a 2D/3D trajectory
■ Palletizing operations
■ Registration of multi-axis operations

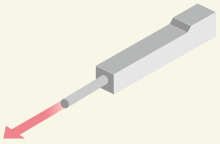
How to read the table and search the reference page

1 Stroke



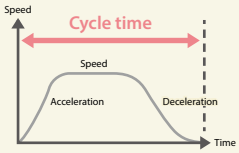
* The belt length shows selectable strokes.
Ex.) RRA4C can select from 60 to 410mm.

2 Maximum speed (operation speed)



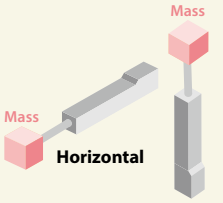
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 350mm/s for RRA4C with lead of 30mm and stroke of 700mm.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
RRA4C	25: 960 — 50~200: 0.668 seconds	16	53	–	8	2
	25: 600 — 50~200: 0.888 seconds	10	85	–	18	4
	25: 300 — 50~200: 1.536 seconds	5	170	–	30	6
	25: 150 — 50~200: 2.875 seconds	2.5	340	–	40	10
RRA4R	25: 960 — 50~200: 0.679 seconds	16	53	–	8	2
	25: 600 — 50~200: 0.895 seconds	10	85	–	18	4
	25: 300 — 50~200: 1.536 seconds	5	170	–	30	6
	25: 150 — 50~200: 2.875 seconds	2.5	340	–	40	10
RRA6C	25: 1200 — 50~200: 0.608 seconds	20	85	–	15	4
	25: 720 — 50~200: 0.794 seconds	12	142	–	25	10
	25: 360 — 50~200: 1.332 seconds	6	283	–	50	20
	25: 180 — 50~200: 2.456 seconds	3	566	–	60	20
RRA6R	25: 1200 — 50~200: 0.624 seconds	20	85	–	15	4
	25: 720 — 50~200: 0.802 seconds	12	142	–	25	9
	25: 360 — 50~200: 1.332 seconds	6	283	–	50	19
	25: 180 — 50~200: 2.456 seconds	3	566	–	60	20
RRA7C	25: 1440 — 50~200: 0.645 seconds	24	142	–	20	6
	25: 960 — 50~200: 0.783 seconds	16	214	–	45	12
	25: 480 — 50~200: 1.28 seconds	8	427	–	60	25
	25: 240 — 50~200: 2.332 seconds	4	855	–	80	35
RRA7R	25: 1440 — 50~200: 0.664 seconds	24	142	–	20	6
	25: 960 — 50~200: 0.794 seconds	16	214	–	45	12
	25: 480 — 50~200: 1.28 seconds	8	427	–	60	25
	25: 240 — 50~200: 2.332 seconds	4	855	–	80	35
RRA8C	25: 1500 — 50~200: 1230 — 250: 970 — 300: 790 — 350: 650 — 400: 540 — 450: 460 — 500: 400 — 550: 350 — 600~850: 2.174 sec.	30	226	–	30	8
	25: 1100 — 50: 1070 — 75~100: 820 — 125: 650 — 150: 520 — 175: 430 — 200: 360 — 225: 310 — 250: 260 — 275: 230 — 300~850: 3.198 sec.	20	339	–	60	20
	25: 550 — 50: 520 — 75: 400 — 100: 310 — 125: 250 — 150: 210 — 175: 180 — 200: 150 — 225: 130 — 250: 110 — 275~850: 6.488 sec.	10	678	–	80	40
	25: 275 — 50: 250 — 75: 190 — 100: 150 — 125: 120 — 150: 100 — 175: 80 — 200: 70 — 225: 60 — 250: 55 — 275~850: 12.825 sec.	5	1357	–	100	72
RRA8R	25: 1300 — 50~200: 1230 — 250: 970 — 300: 790 — 350: 650 — 400: 540 — 450: 460 — 500: 400 — 550: 350 — 600~850: 2.178 sec.	30	226	–	30	8
	25: 1000 — 50~200: 820 — 250: 650 — 300: 520 — 350: 430 — 400: 360 — 450: 310 — 500: 260 — 550: 230 — 600~850: 3.2 sec.	20	339	–	60	17
	25: 550 — 50: 520 — 75: 400 — 100: 310 — 125: 250 — 150: 210 — 175: 180 — 200: 150 — 225: 130 — 250: 110 — 275~850: 6.488 sec.	10	678	–	80	34
	25: 275 — 50: 250 — 75: 190 — 100: 150 — 125: 120 — 150: 100 — 175: 80 — 200: 70 — 225: 60 — 250: 55 — 275~850: 12.825 sec.	5	1357	–	100	72

Single-Axis Robot / Rod

RCS4-WRA series

Radial Cylinder®
to support radial load

±10 μm Standard | Battery absolute | Motor straight | Side-mounted motor | 200V AC servo motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCS4-WRA10C | RCS4-WRA10R | RCS4-WRA12C | RCS4-WRA12R | RCS4-WRA14C | RCS4-WRA14R | RCS4-WRA16C | RCS4-WRA16R

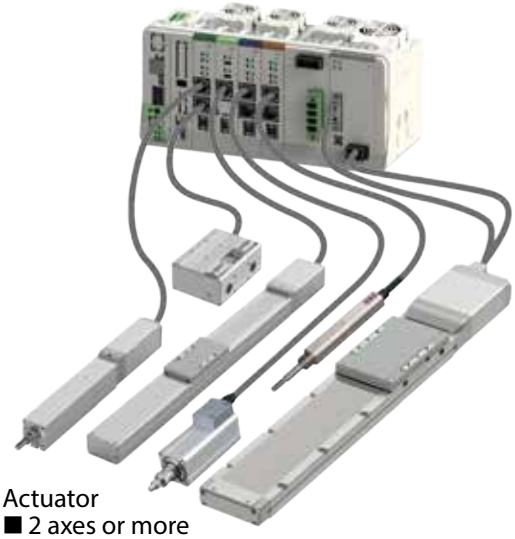
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

SCON controller

Actuator
■ 1 axis

RCON controller



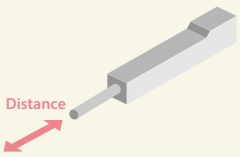
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

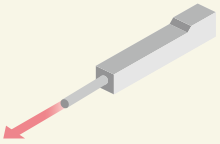
How to read the table and search the reference page

1 Stroke



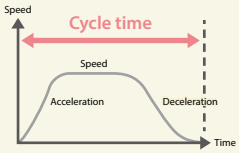
* The belt length shows selectable strokes.
Ex.) WRA10C can select from 50 to 500mm.

2 Maximum speed (operation speed)



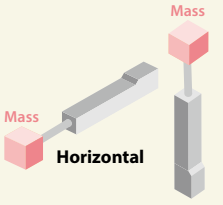
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 770mm/s for WRA10C with lead of 16mm and stroke of 500mm.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
WRA10C	800 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 770) 0.872 seconds	16	53	–	5	–
	600 (25, 50~250, 300, 350, 400, 450, 500, 550, 580, 600, 650, 700, 750, 800, 850, 900, 950) 1.213 seconds	10	85	–	16	3
	300 (25, 50~250, 300, 350, 400, 450, 500, 550, 580, 600, 650, 700, 750, 800, 850, 900, 950) 2.242 seconds	5	170	–	25	5
	150 (25, 50~250, 300, 350, 400, 450, 500, 550, 580, 600, 650, 700, 750, 800, 850, 900, 950) 4.298 seconds	2.5	340	–	40	10
WRA10R	800 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 770) 0.881 seconds	16	53	–	5	–
	600 (25, 50~250, 300, 350, 400, 450, 500, 550, 580, 600, 650, 700, 750, 800, 850, 900, 950) 1.218 seconds	10	85	–	13	2.5
	300 (25, 50~250, 300, 350, 400, 450, 500, 550, 580, 600, 650, 700, 750, 800, 850, 900, 950) 2.242 seconds	5	170	–	25	5
	150 (25, 50~250, 300, 350, 400, 450, 500, 550, 580, 600, 650, 700, 750, 800, 850, 900, 950) 4.298 seconds	2.5	340	–	40	10
WRA12C	1000 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 0.745 seconds	20	85	–	12	2
	720 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 0.912 seconds	12	142	–	25	6
	360 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 1.568 seconds	6	283	–	40	15
	180 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 2.928 seconds	3	566	–	60	20
WRA12R	1000 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 0.757 seconds	20	85	–	12	2
	720 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 0.92 seconds	12	142	–	25	6
	360 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 1.568 seconds	6	283	–	40	15
	180 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 2.928 seconds	3	566	–	60	20
WRA14C	1200 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 0.763 seconds	24	142	–	25	3
	800 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 0.976 seconds	16	214	–	50	8
	480 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 1.722 seconds	8	427	–	65	20
	240 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 3.311 seconds	4	855	–	85	30
WRA14R	1200 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 0.778 seconds	24	142	–	25	3
	800 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 0.985 seconds	16	214	–	50	8
	480 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 1.722 seconds	8	427	–	65	20
	240 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 3.311 seconds	4	855	–	85	30
WRA16C	1300 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1050) 3.125 sec.	30	226	–	30	6
	1000 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 880, 900, 950) 4.589 sec.	20	339	–	60	12
	500 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 9.005 sec.	10	678	–	80	35
	250 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 17.869 sec.	5	1357	–	100	50
WRA16R	1300 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1050) 3.128 sec.	30	226	–	30	6
	1000 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 880, 900, 950) 4.59 sec.	20	339	–	60	12
	500 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 9.005 sec.	10	678	–	80	35
	250 (25, 50~250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950) 17.869 sec.	5	1357	–	100	50

Single-Axis Robot / Rod

RCS3/RCS2-RA series

Battery absolute | Side-mounted motor | 200V AC servo motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCS2-RA13R

RCS3-RA15R

RCS3-RA20R

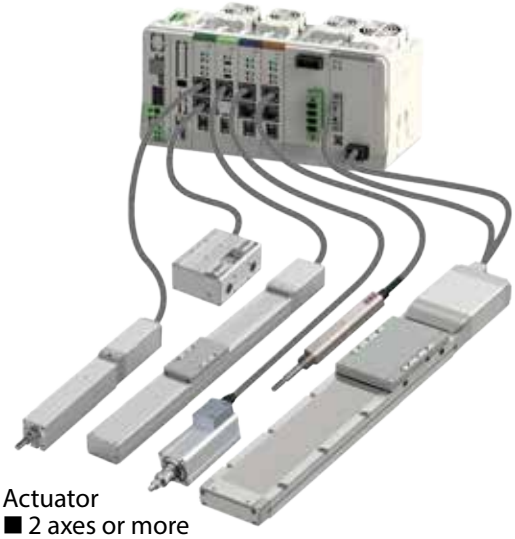
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

SCON controller

Actuator
■ 1 axis

RCON controller



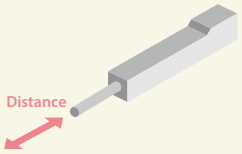
Actuator
■ 2 axes or more

RSEL controller

■ Operations with a 2D/3D trajectory
■ Palletizing operations
■ Registration of multi-axis operations

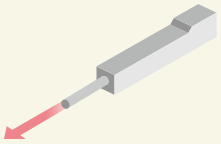
How to read the table and search the reference page

1 Stroke



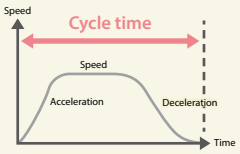
* The belt length shows selectable strokes.
Ex.) RA13R can select from 50 to 200mm.

2 Maximum speed (operation speed)



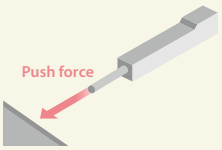
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 125mm/s for RA13R with lead of 2.5mm and stroke of 200mm.

3 Cycle time



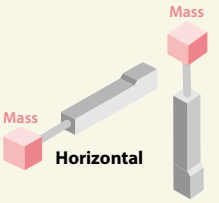
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. 25	50	100	150	200	250	300	350	400	450	500	550	600	650	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
RCS2	RA13R			85	120	125	2.263seconds									2.5	5106	9800	400	200
				62			3.861seconds									1.25	10211	19600	500	300
RCS3	RA15R				400								1.556sec.			7.2	7789	15000	700	400
	RA20R				400								1.556sec.			10	10361	20000	1000	600

Single-Axis Robot / Rod

RCS2-RA series

200v
AC servo motor

RCS2-RN5N

RCS2-RP5N

RCS2-GS5N

RCS2-GD5N

RCS2-SD5N

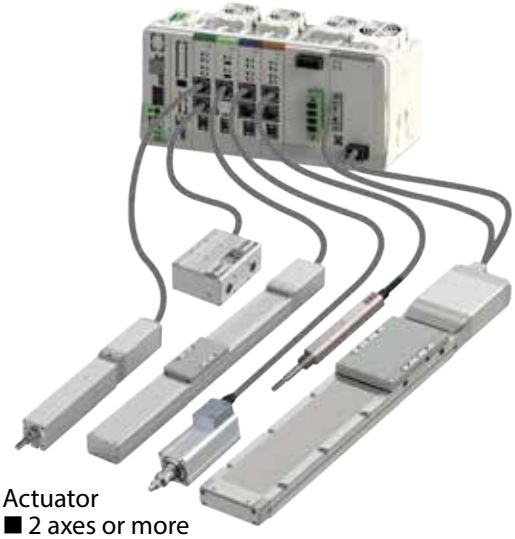
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

SCON controller

Actuator
■ 1 axis

RCON controller



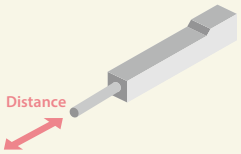
Actuator
■ 2 axes or more

RSEL controller

■ Operations with a 2D/3D trajectory
■ Palletizing operations
■ Registration of multi-axis operations

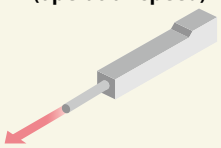
How to read the table and search the reference page

1 Stroke



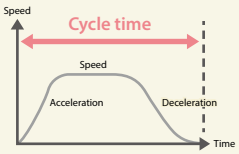
* The belt length shows selectable strokes.
Ex.) RN5N can select 50 and 75mm.

2 Maximum speed (operation speed)



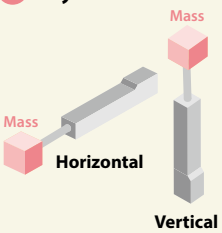
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 280mm/s for RN5N with lead of 10mm and stroke of 50mm.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.					Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg)	
	50	75	100	150	200				Horizontal	Vertical
RN5N	280〈230〉	380〈330〉	0.442 seconds			10	89	–	5	1.5
	250〈230〉	250	0.498 seconds			5	178	–	10	3
	125		0.761 seconds			2.5	356	–	20	6
RP5N	280〈230〉	380〈330〉	0.442 seconds			10	89	–	5	1.5
	250〈230〉	250	0.498 seconds			5	178	–	10	3
	125		0.761 seconds			2.5	356	–	20	6
GS5N	280〈230〉	380〈330〉	0.442 seconds			10	89	–	5	1.5
	250〈230〉	250	0.498 seconds			5	178	–	10	3
	125		0.761 seconds			2.5	356	–	20	6
GD5N	280〈230〉	380〈330〉	0.442 seconds			10	89	–	5	1.5
	250〈230〉	250	0.498 seconds			5	178	–	10	3
	125		0.761 seconds			2.5	356	–	20	6
SD5N	280〈230〉	380〈330〉	0.442 seconds			10	89	–	5	1.5
	250〈230〉	250	0.498 seconds			5	178	–	10	3
	125		0.761 seconds			2.5	356	–	20	6

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Rod

RCS2-RA series

200v
AC servo motor

RCS2-RA5C | RCS2-RA5R | RCS2-SRA7BD | RCS2-RGS5C | RCS2-RGD5C | RCS2-SRGS7BD | RCS2-SRGD7BD

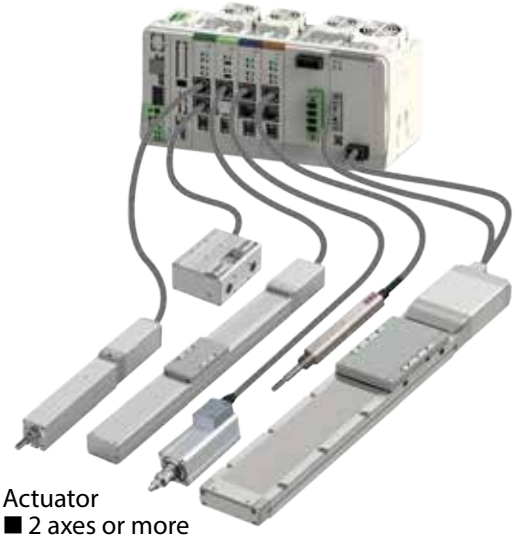
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

SCON controller

Actuator
■ 1 axis

RCON controller



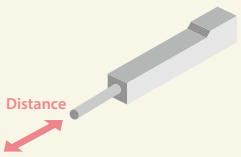
Actuator
■ 2 axes or more

RSEL controller

■ Operations with a 2D/3D trajectory
■ Palletizing operations
■ Registration of multi-axis operations

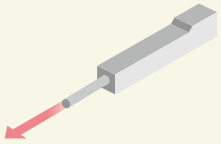
How to read the table and search the reference page

1 Stroke



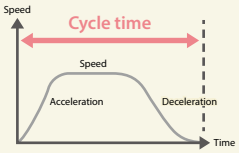
* The belt length shows selectable strokes.
Ex.) RA5C can select from 50 to 300mm.

2 Maximum speed (operation speed)



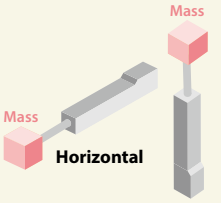
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 755mm/s for RA5C with lead of 16mm and stroke of 300mm.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke.									Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg)	
	50	75	100	150	200	250	300	350	400				Horizontal	Vertical
RA5C RA5R (60W)	800						755			0.61 sec.	16	63.8	–	12	2
	400						377			0.974 sec.	8	127.5	–	25	5
	200						188			1.755 sec.	4	255.1	–	50	11.5
RA5C (100W)	800						755			0.61 sec.	16	105.8	–	15	3.5
	400						377			0.974 sec.	8	212.7	–	30	9
	200						188			1.755 sec.	4	424.3	–	60	18
SRA7BD (60W)	800									0.729 sec.	16	63.4	–	5	2
	400									1.023 sec.	8	126.8	–	10	5
	200									1.728 sec.	4	253.7	–	20	10
SRA7BD (100W)	800									0.705 sec.	16	103.5	–	10	3.5
	400									1.001 sec.	8	207.0	–	22	9
	200									1.703 sec.	4	413.9	–	40	19.5
SRA7BD (150W)	800									0.705 sec.	16	156.9	–	15	6.5
	400									1.001 sec.	8	313.8	–	35	14.5
	200									1.703 sec.	4	627.5	–	55	22.5
RGS5C RGD5C (60W)	800						755			0.77 sec.	16	63.8	–	12	1.3
	400						377			1.039 sec.	8	127.5	–	25	4.3
	200						188			1.792 sec.	4	255.1	–	50	10.8
RGS5C RGD5C (100W)	800						755			0.77 sec.	16	105.8	–	15	2.8
	400						377			1.039 sec.	8	212.7	–	30	8.3
	200						188			1.792 sec.	4	424.3	–	60	17.3
SRGS7BD (60W)	800									0.729 sec.	16	63.4	–	5	1.5
	400									1.023 sec.	8	126.8	–	10	4.5
	200									1.728 sec.	4	253.7	–	20	9.5
SRGS7BD (100W)	800									0.705 sec.	16	103.5	–	10	3
	400									1.001 sec.	8	207.0	–	22	8.5
	200									1.703 sec.	4	413.9	–	40	19
SRGS7BD (150W)	800									0.705 sec.	16	156.9	–	15	6
	400									1.001 sec.	8	313.8	–	35	14
	200									1.703 sec.	4	627.5	–	55	22
SRGD7BD (60W)	800									0.729 sec.	16	63.4	–	5	1
	400									1.023 sec.	8	126.8	–	10	4
	200									1.728 sec.	4	253.7	–	20	9
SRGD7BD (100W)	800									0.705 sec.	16	103.5	–	10	2.5
	400									1.001 sec.	8	207.0	–	22	8
	200									1.703 sec.	4	413.9	–	40	18.5
SRGD7BD (150W)	800									0.705 sec.	16	156.9	–	15	5.5
	400									1.001 sec.	8	313.8	–	35	13.5
	200									1.703 sec.	4	627.5	–	55	21.5

Single-Axis Robot / Table

RCP6-TA series

±10 μm Standard | Battery absolute | Motor straight | Side-mounted motor | 24V stepper motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCP6-TA4C RCP6-TA4R RCP6-TA6C RCP6-TA6R RCP6-TA7C RCP6-TA7R

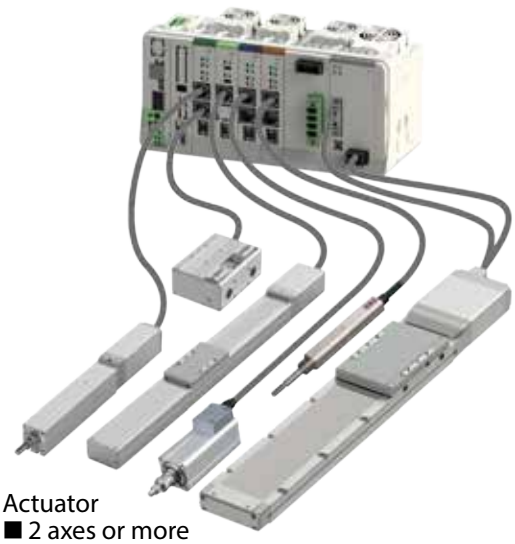
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

PCON controller

Actuator
■ 1 axis

RCON controller



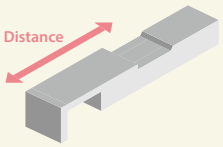
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

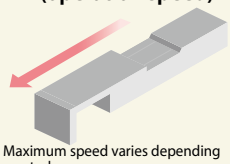
How to read the table and search the reference page

1 Stroke



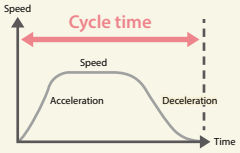
* The belt length shows selectable strokes.
Ex.) TA4C can select from 25 to 150mm.

2 Maximum speed (operation speed)



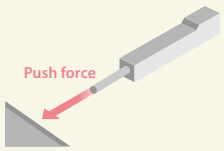
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 680mm/s for TA4C <Double block> with lead of 10mm and stroke of 240mm.
* Figures in < > represent operations in vertical use.

3 Cycle time



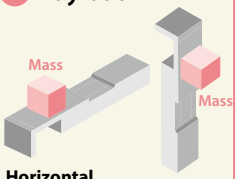
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
TA4C TA4R (Single block)	980〈700〉 0.355 seconds	16	—	48	3	1
	785〈700〉 0.373 seconds	10	—	77	4	2.5
	390 0.522 seconds	5	—	155	5	5
	195 0.877 seconds	2.5	—	310	5	10
TA4C (Double block)	785〈700〉 680 0.524 seconds	10	—	77	8	2.5
	390 340 0.836 seconds	5	—	155	10	5
	195 170 1.515 seconds	2.5	—	310	10	10
TA4R (Double block)	700〈525〉 680〈525〉 0.524 seconds	10	—	77	8	2.5
	390 340 0.836 seconds	5	—	155	10	5
	195 170 1.515 seconds	2.5	—	310	10	10
TA6C (Single block)	1120〈800〉 0.395 seconds	20	—	56	5	1
	800 0.433 seconds	12	—	93	8	3
	400 0.638 seconds	6	—	185	10	6
	200 1.109 seconds	3	—	370	10	12
TA6R (Single block)	1120〈800〉 0.395 seconds	20	—	56	5	1
	800〈680〉 0.433 seconds	12	—	93	8	3
	400 0.638 seconds	6	—	185	10	6
	200 1.109 seconds	3	—	370	10	12
TA6C TA6R (Double block)	800〈680〉 735〈680〉 575 0.715 seconds	12	—	93	15	3
	400 365 285 1.245 seconds	6	—	185	20	6
	200 185 140 2.381 seconds	3	—	370	20	12
TA7C TA7R (Single block)	1080〈860〉 0.529 seconds	24	—	139	10	3
	700〈560〉 0.601 seconds	16	—	209	12	7
	420〈350〉 1.012 seconds	8	—	418	15	16
	210 1.688 seconds	4	—	836	15	20
TA7C TA7R (Double block)	700〈560〉 600〈560〉 0.854 sec.	16	—	209	25	7
	420〈350〉 365〈350〉 300 1.444 sec.	8	—	418	30	16
	210 180 150 2.707 sec.	4	—	836	30	24

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Table

RCP3-TA series

Motor straight | Side-mounted motor | 24V stepper motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCP3-TA3C

RCP3-TA3R

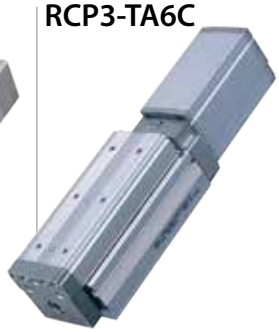
RCP3-TA4C

RCP3-TA4R

RCP3-TA5C

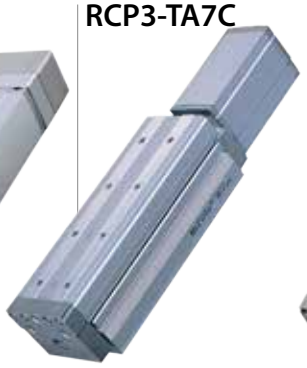
RCP3-TA5R

RCP3-TA6C



RCP3-TA6R

RCP3-TA7C



RCP3-TA7R

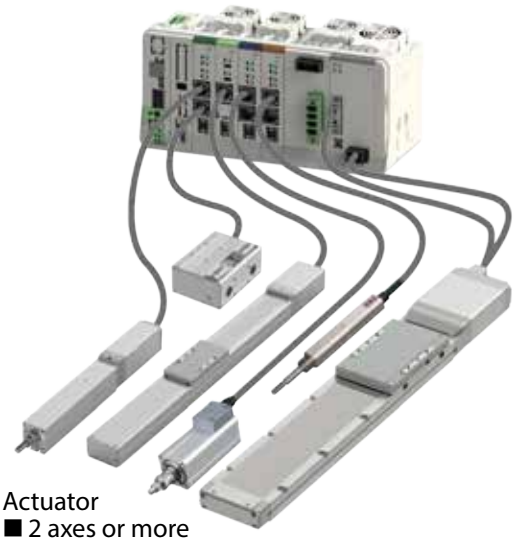
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

PCON controller

Actuator
■ 1 axis

RCON controller



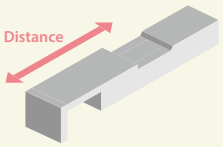
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

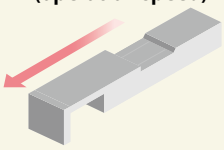
How to read the table and search the reference page

1 Stroke



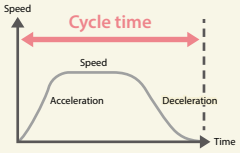
* The belt length shows selectable strokes.
Ex.) TA3C can select from 20 to 100mm.

2 Maximum speed (operation speed)



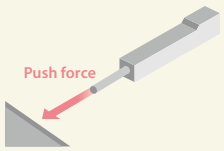
* Figures in < > represent operations in vertical use.

3 Cycle time



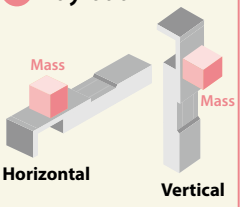
* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

4 Maximum push force



* Push force is guide values.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg)	
	20 30 50 75 100 150 200 250 300 350				Horizontal	Vertical
TA3C TA3R	300〈200〉 0.47 seconds	6	—	15	0.7	0.3
	200〈133〉 0.603 seconds	4	—	22	1.4	0.6
	100〈67〉 1.078 seconds	2	—	45	2	1
TA4C TA4R	300 0.47 seconds	6	—	25	1	0.5
	200 0.603 seconds	4	—	37	2	1
	100 1.078 seconds	2	—	75	3	1.5
TA5C TA5R	465〈400〉 0.408 seconds	10	—	34	2	1
	250 0.52 seconds	5	—	68	4	1.5
	125 0.891 seconds	2.5	—	136	6	3
TA6C TA6R	560〈500〉 0.493 seconds	12	—	60	4	1
	300 0.637 seconds	6	—	110	6	2
	150 1.104 seconds	3	—	189	8	4
TA7C TA7R	600〈580〉 0.572 seconds	12	—	60	6	1
	300 0.803 seconds	6	—	110	8	2
	150 1.438 seconds	3	—	189	10	4

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Table

RCA2 series

24V
AC servo motor

RCA2-TCA3NA
TCA4NA

RCA2-TWA3NA
TWA4NA

RCA2-TFA3NA
TFA4NA

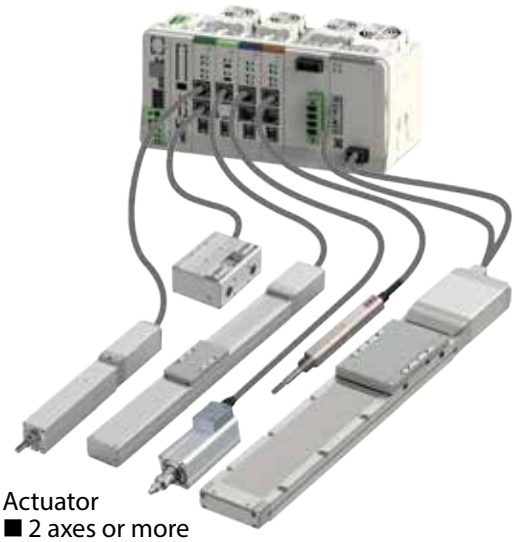
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

ACON controller

Actuator
■ 1 axis

RCON controller



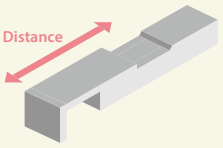
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

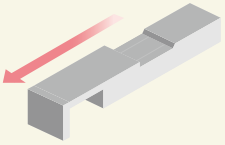
How to read the table and search the reference page

1 Stroke



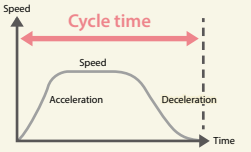
* The belt length shows selectable strokes.
Ex.) TCA3NA can select from 30 to 50mm.

2 Maximum speed (operation speed)



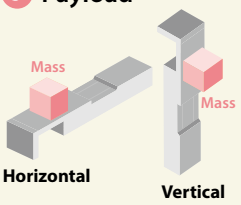
* Figures in < > represent operations in vertical use.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.							Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg)	
	25	30	50	75	100	150	200				Horizontal	Vertical
TCA3NA (ball screw)				200				4	42.7	—	0.75	0.25
				100				2	85.5	—	1.5	0.5
				50				1	170.9	—	3	1
TCA3NA (sliding screw)				200				4	25.1	—	0.25	0.12
				100				2	50.3	—	0.5	0.25
				50				1	100.5	—	1	0.5
TCA4NA (ball screw)				270 〈220〉	300			6	33.8	—	2	0.5
				200				4	50.7	—	3	0.75
				100				2	101.5	—	6	1.5
TCA4NA (sliding screw)				220	300			6	19.9	—	0.25	0.12
				200				4	29.8	—	0.5	0.25
				100				2	59.7	—	1	0.5
TWA3NA (ball screw)				200				4	42.7	—	0.75	0.25
				100				2	85.5	—	1.5	0.5
				50				1	170.9	—	3	1
TWA3NA (sliding screw)				200				4	25.1	—	0.25	0.12
				100				2	50.3	—	0.5	0.25
				50				1	100.5	—	1	0.5
TWA4NA (ball screw)				270 〈220〉	300			6	33.8	—	2	0.5
				200				4	50.7	—	3	0.75
				100				2	101.5	—	6	1.5
TWA4NA (sliding screw)				220	300			6	19.9	—	0.25	0.12
				200				4	29.8	—	0.5	0.25
				100				2	59.7	—	1	0.5
TFA3NA (ball screw)				200				4	42.7	—	0.75	0.25
				100				2	85.5	—	1.5	0.5
				50				1	170.9	—	3	1
TFA3NA (sliding screw)				200				4	25.1	—	0.25	0.12
				100				2	50.3	—	0.5	0.25
				50				1	100.5	—	1	0.5
TFA4NA (ball screw)				270 〈220〉	300			6	33.8	—	2	0.5
				200				4	50.7	—	3	0.75
				100				2	101.5	—	6	1.5
TFA4NA (sliding screw)				220	300			6	19.9	—	0.25	0.12
				200				4	29.8	—	0.5	0.25
				100				2	59.7	—	1	0.5

Stroke (mm)	Maximum speed
200	0.353 seconds
100	0.635 seconds
50	1.107 seconds

* Figures in <> represent operations in vertical use.

Single-Axis Robot / Table

RCS4-TA series

±10 μm Standard | Battery absolute | Motor straight | Side-mounted motor | 200V AC servo motor

Battery-less Absolute Encoder
No Battery, No Maintenance,
No Homing, and No Price Increase.
No Going Back to Incremental.

RCS4-TA4C | **RCS4-TA4R** | **RCS4-TA6C** | **RCS4-TA6R** | **RCS4-TA7C** | **RCS4-TA7R**

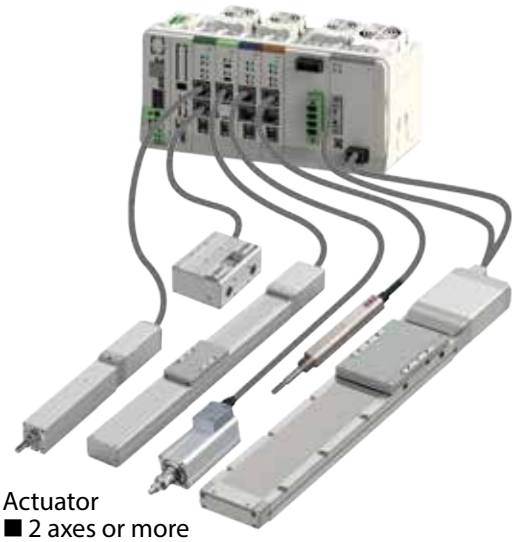
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

SCON controller

Actuator
■ 1 axis

RCON controller



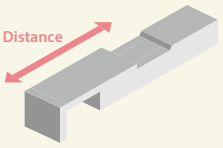
Actuator
■ 2 axes or more

RSEL controller

■ Operations with a 2D/3D trajectory
■ Palletizing operations
■ Registration of multi-axis operations

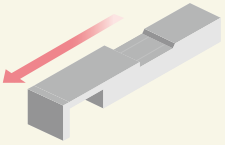
How to read the table and search the reference page

1 Stroke



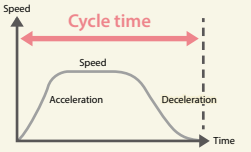
* The belt length shows selectable strokes.
Ex.) TA4C can select 25 to 150mm.

2 Maximum speed (operation speed)



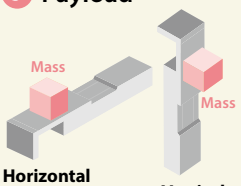
* Maximum speed varies depending on stroke.
Ex.) Max. speed is 575mm/s for TA6C <Double block> with lead of 12mm and stroke of 320mm.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke.	Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg) Horizontal	Payload (kg) Vertical
	25 30 50 150 200 250 300 350 400 450					
TA4C (Single block)	900 0.402 seconds	16	53	—	4	1.5
	600 0.455 seconds	10	85	—	5	3
	300 0.67 seconds	5	170	—	5	6
	150 1.142 seconds	2.5	340	—	5	9
TA4R (Single block)	800 0.422 seconds	16	53	—	4	1.5
	600 0.462 seconds	10	85	—	5	3
	300 0.67 seconds	5	170	—	5	6
	150 1.142 seconds	2.5	340	—	5	9
TA4C TA4R (Double block)	600 0.605 seconds	10	85	—	8	3
	300 0.97 seconds	5	170	—	10	6
	150 1.742 seconds	2.5	340	—	10	9
TA6C (Single block)	1100 0.435 seconds	20	85	—	8	4
	720 0.496 seconds	12	142	—	8	6
	360 0.735 seconds	6	283	—	8	10
	180 1.261 seconds	3	566	—	10	12
TA6R (Single block)	1000 0.457 seconds	20	85	—	8	4
	720 0.503 seconds	12	142	—	8	6
	360 0.735 seconds	6	283	—	8	10
	180 1.261 seconds	3	566	—	10	10
TA6C TA6R (Double block)	720 575 0.759 seconds	12	142	—	14	6
	360 285 1.29 seconds	6	283	—	20	10
	180 140 2.424 seconds	3	566	—	20	12
TA7C (Single block)	1300 0.502 seconds	24	142	—	12	5
	960 0.553 seconds	16	214	—	15	10
	480 0.822 seconds	8	427	—	15	18
	240 1.415 seconds	4	855	—	15	20
TA7R (Single block)	1200 0.528 seconds	24	142	—	12	5
	960 0.565 seconds	16	214	—	15	10
	480 0.822 seconds	8	427	—	15	18
	240 1.415 seconds	4	855	—	15	20
TA7C TA7R (Double block)	960 730 600 0.855 sec.	16	214	—	25	8
	480 365 300 1.47 sec.	8	427	—	30	18
	240 180 150 2.742 sec.	4	855	—	30	24

Single-Axis Robot / Table

RCS3/RCS2 series

200V
AC servo motor

RCS2-TCA5N

RCS2-TWA5N

RCS2-TFA5N

RCS3-CTZ5C

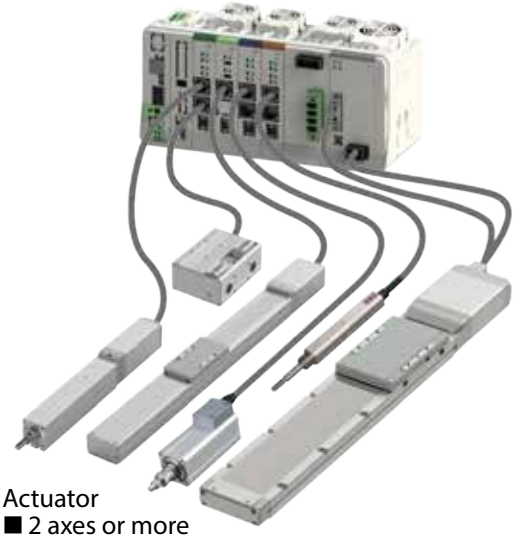
Applicable controller

1 axis	2 axes or more	Complicated movement (program type)

SCON controller

Actuator
■ 1 axis

RCON controller



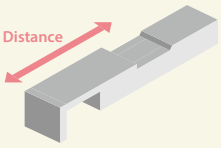
Actuator
■ 2 axes or more

RSEL controller

■Operations with a 2D/3D trajectory
■Palletizing operations
■Registration of multi-axis operations

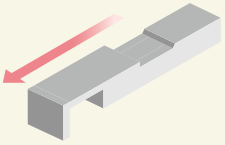
How to read the table and search the reference page

1 Stroke



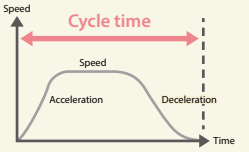
* The belt length shows selectable strokes.
Ex.) TCA5N can select 50 and 75mm.

2 Maximum speed (operation speed)



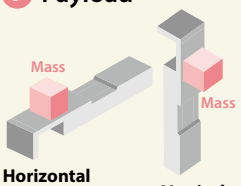
* Figures in < > represent operations in vertical use.

3 Cycle time



* One-way travel time of an operation with maximum stroke and horizontal mount, at maximum speed and maximum acceleration/deceleration.
Does not represent operations with the maximum payload.

5 Payload



* Payload changes depending on acceleration and mounting posture.

Series	Type	Stroke (mm) and maximum speed (mm/s) * Belt length = stroke * Figures in the belt are max. speed by stroke. Figures in < > represent operations in vertical use.							Lead (mm)	Rated thrust force (N)	Max. push force (N)	Payload (kg)	
		25	30	50	75	100	150	200				Horizontal	Vertical
RCS2	TCA5N			280 〈230〉	380 〈330〉	0.442 seconds			10	89	—	5	1.5
				250 〈230〉	250	0.498 seconds			5	178	—	10	3
				125		0.761 seconds			2.5	356	—	20	6
	TWA5N			280 〈230〉	380 〈330〉	0.442 seconds			10	89	—	5	1.5
				250 〈230〉	250	0.498 seconds			5	178	—	10	3
				125		0.761 seconds			2.5	356	—	20	6
	TFA5N			280 〈230〉	380 〈330〉	0.442 seconds			10	89	—	5	1.5
				250 〈230〉	250	0.498 seconds			5	178	—	10	3
				125		0.761 seconds			2.5	356	—	20	6
RCS3	CTZ5C				833			0.186 seconds	10	85	—	1.5	1

* Figures in <> represent operations in vertical use.