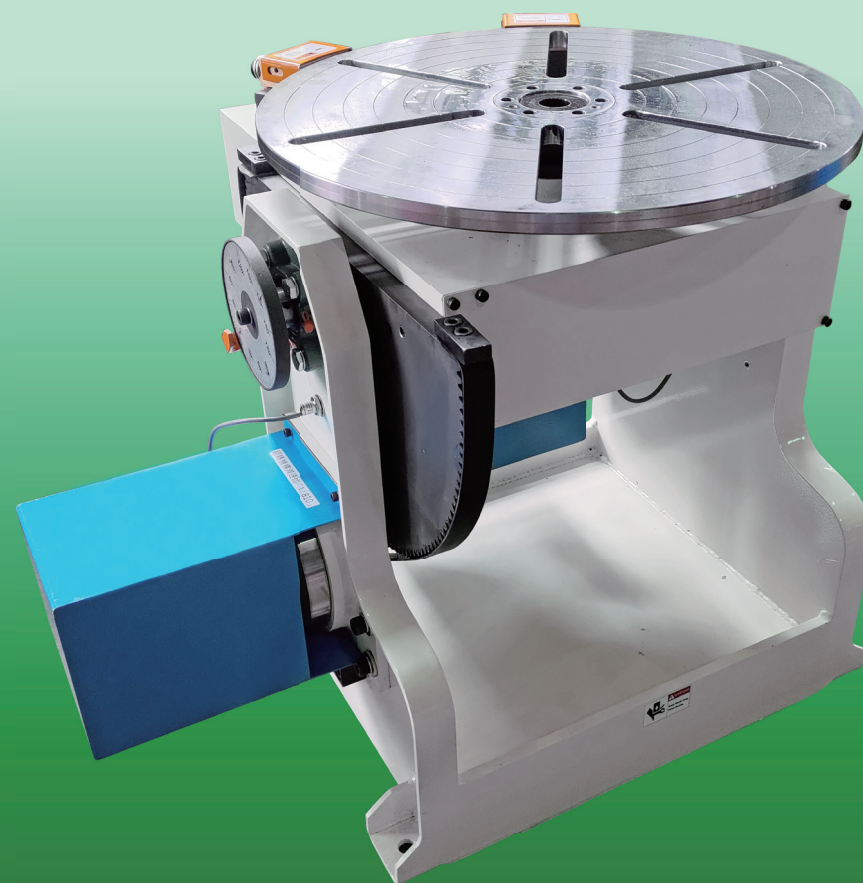




RSP series

Dual-Axis Servo Positioner



TAIWAN BATON ENTERPRISE CO.,LTD

■ <http://www.batons.com.tw>

■ [email:batons@mail2000.com.tw](mailto:batons@mail2000.com.tw)

RSP-N Series Dual-Axis Servo Positioner



Features

Does not include controller and servo motors.

Can be directly installed with external axis servo motors of various brands of robot.

Can be used with "RSC2S Series Dual-Axis Servo Control Unit",
being directly controlled by various brands of robot.

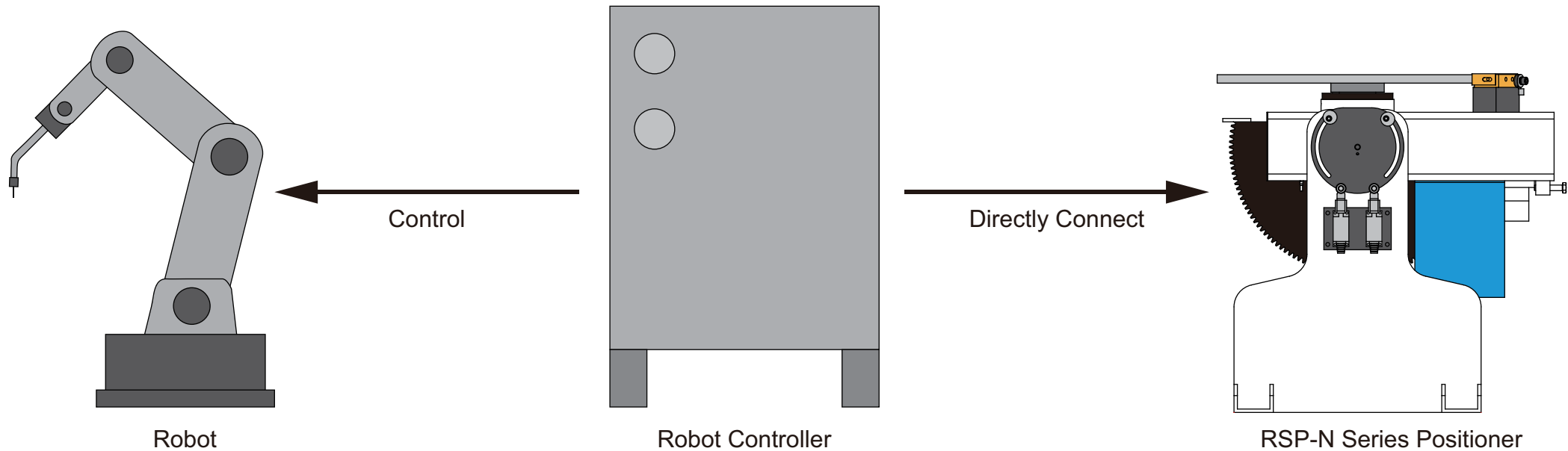
Can be used with "RSC2S-P Series Dual-Axis Servo Controller",
being directly controlled by various brands of robot or operated independently.

Model	RSP-300AN	RSP-500AN	RSP-750AN	RSP-1TAN
Table Diameter	500 mm	600 mm	750 mm	900 mm
Spindle Thru Hole	60 mm	80 mm	110 mm	130 mm
Max Load Capacity (W)	300 kg	500 kg	750 kg	1000 kg
Max Eccentricity of Rotation (A)	50 mm	80 mm	95 mm	130 mm
Table Rotation Speed	0.01 rpm ~ 16.50 rpm	0.01 rpm ~ 11.00 rpm	0.01 rpm ~ 8.20 rpm	0.01 rpm ~ 6.90 rpm
Rotation Angle Error	± 0.15°	± 0.15°	± 0.15°	± 0.15°
Reduction Ratio (Rotation)	1 / 121.5	1 / 181.5	1 / 241.5	1 / 290
Max Eccentricity of Tilt (B)	200 mm	350 mm	450 mm	550 mm
Table Tilt Angle	-90° ~ +90°	-90° ~ +90°	-90° ~ +90°	-90° ~ +90°
Table Tilt Speed	8.5 sec / 180°	12.0 sec / 180°	18.2 sec / 180°	24.5 sec / 180°
Tilt Angle Error	± 0.15°	± 0.15°	± 0.15°	± 0.15°
Reduction Ratio (Tilt)	1 / 570	1 / 810	1 / 1210	1 / 1610
Recommended servo motor specifications (Need to provide servo motor dimension and shaft output diameter)				
	AC400W	AC750W	AC1000W	AC1500W
Servo Motor Spec.(Rotation)	(Optional: with Brake)	(Optional: with Brake)	(Optional: with Brake)	(Optional: with Brake)
Shaft Output Diameter (Rotation)	D11 ~ D14 (mm)	D14 ~ D19 (mm)	D19 ~ D22 (mm)	D22 ~ D24 (mm)
Servo Motor Spec.(Tilt)	AC400W / with Brake	AC750W / with Brake	AC1000W / with Brake	AC1500W / with Brake
Shaft Output Diameter (Tilt)	D11 ~ D14 (mm)	D14 ~ D19 (mm)	D19 ~ D22 (mm)	D22 ~ D24 (mm)

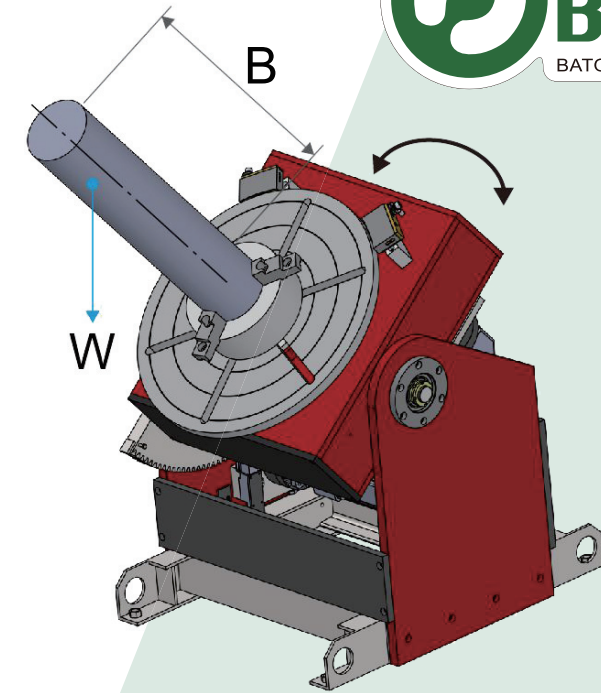
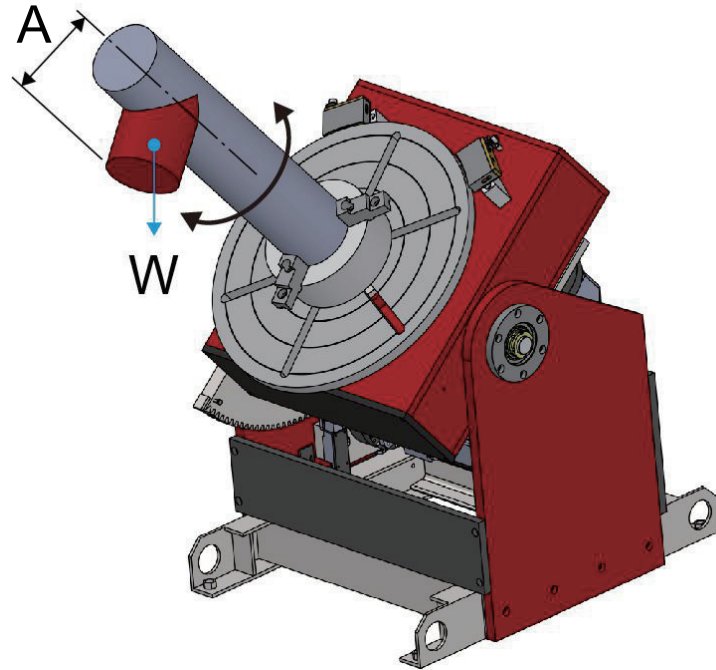
RSP-N Series Dual-Axis Servo Positioner



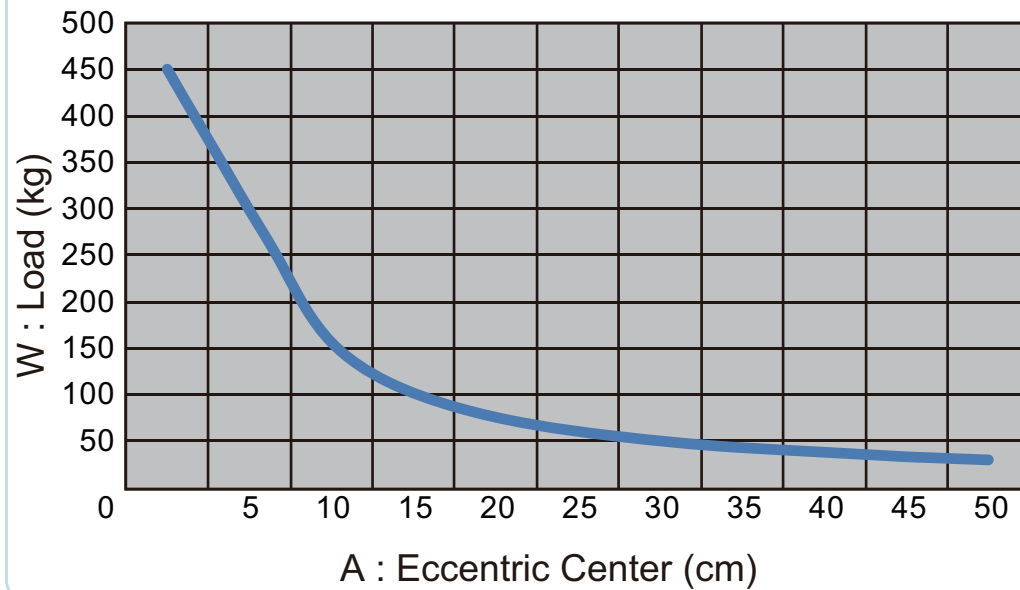
Explanation of Connection



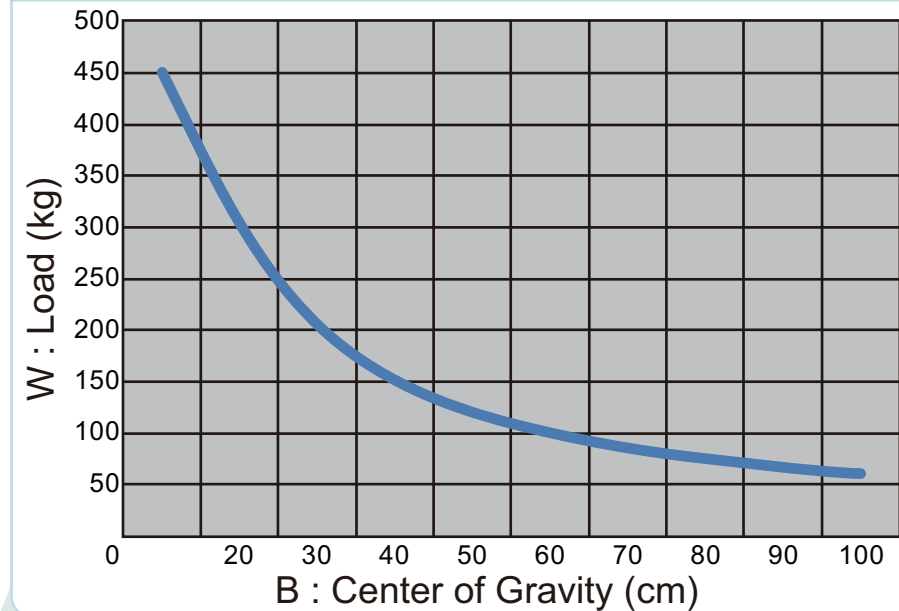
RSP-N Series Dual-Axis Servo Positioner



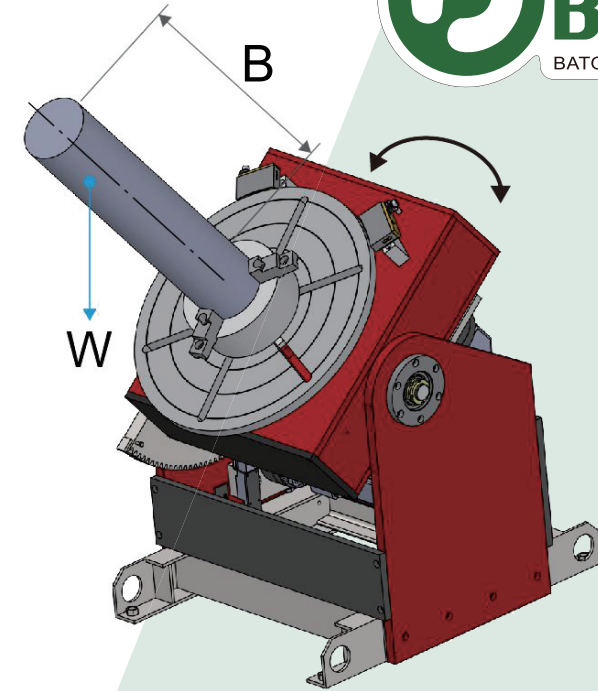
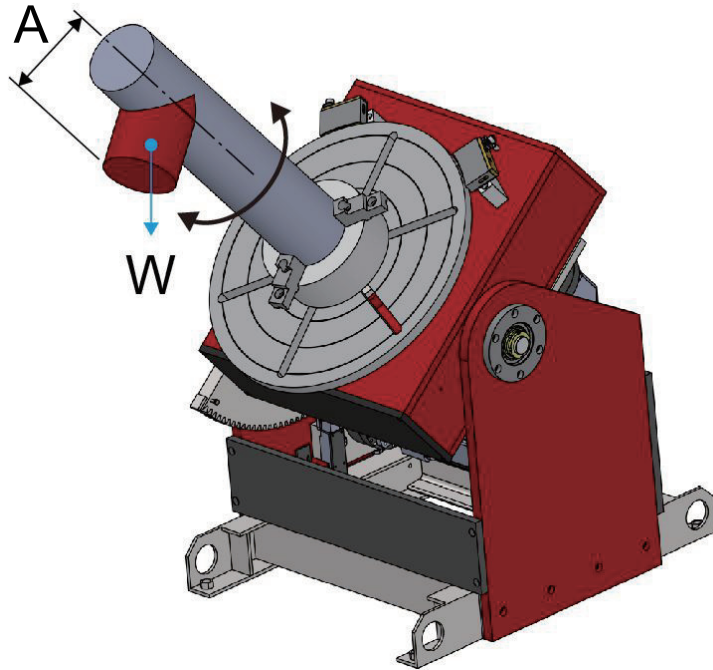
RSP-300AN Positioner Eccentric Load



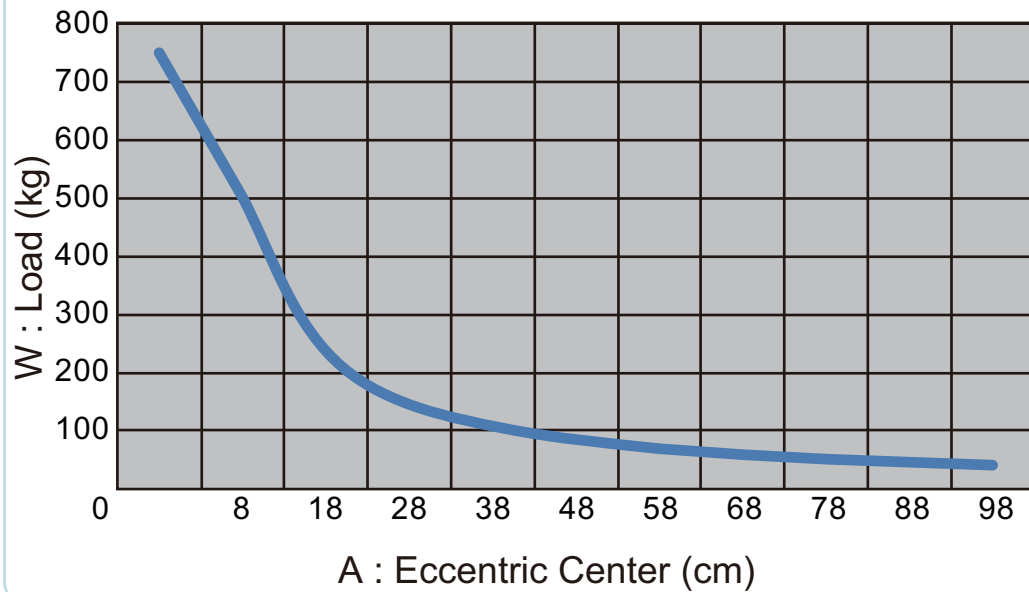
RSP-300AN Center of Gravity



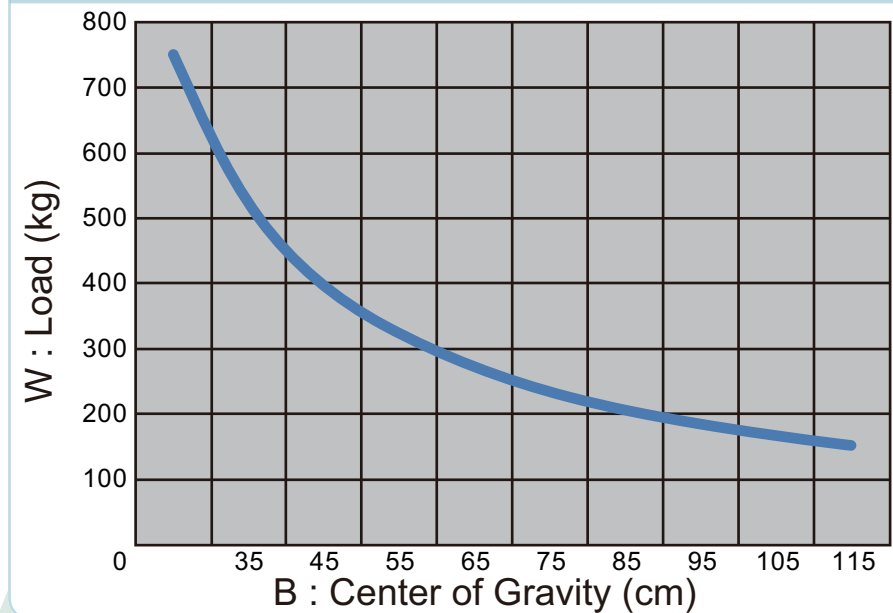
RSP-N Series Dual-Axis Servo Positioner



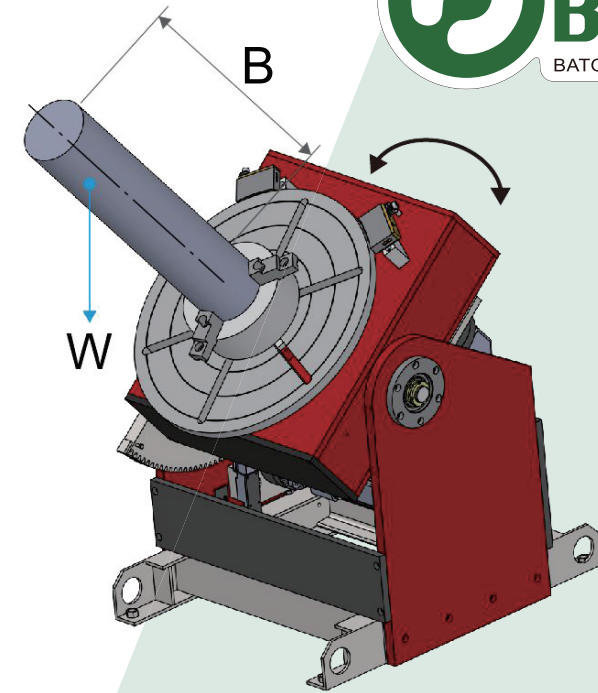
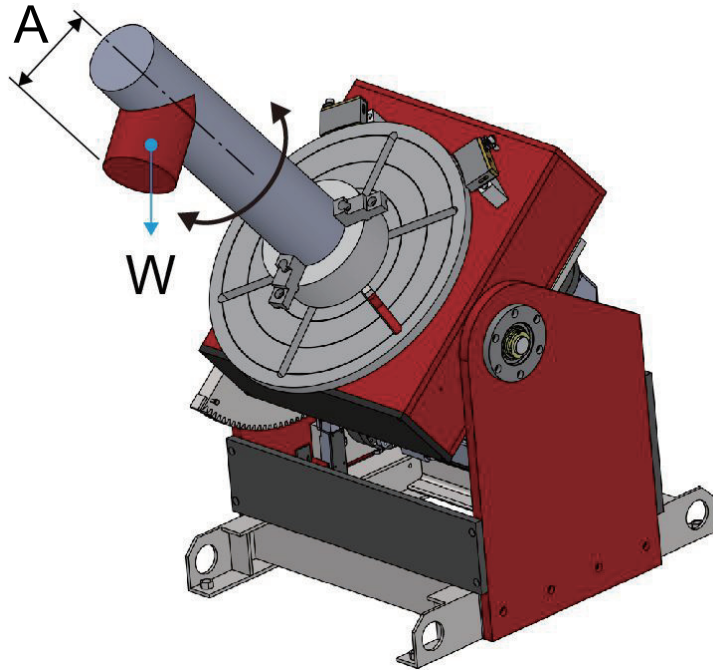
RSP-500AN Positioner Eccentric Load



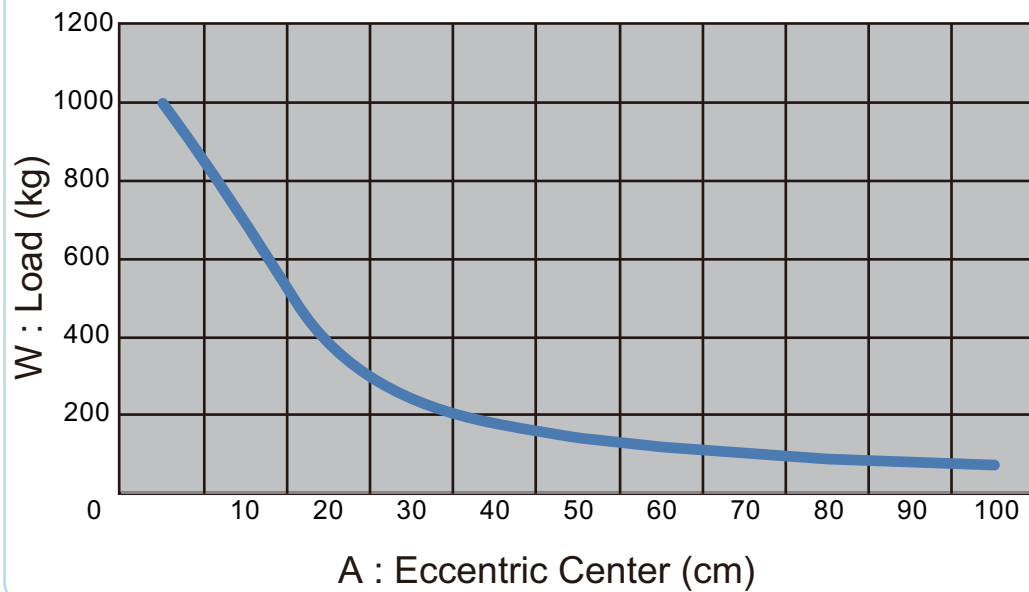
RSP-500AN Center of Gravity



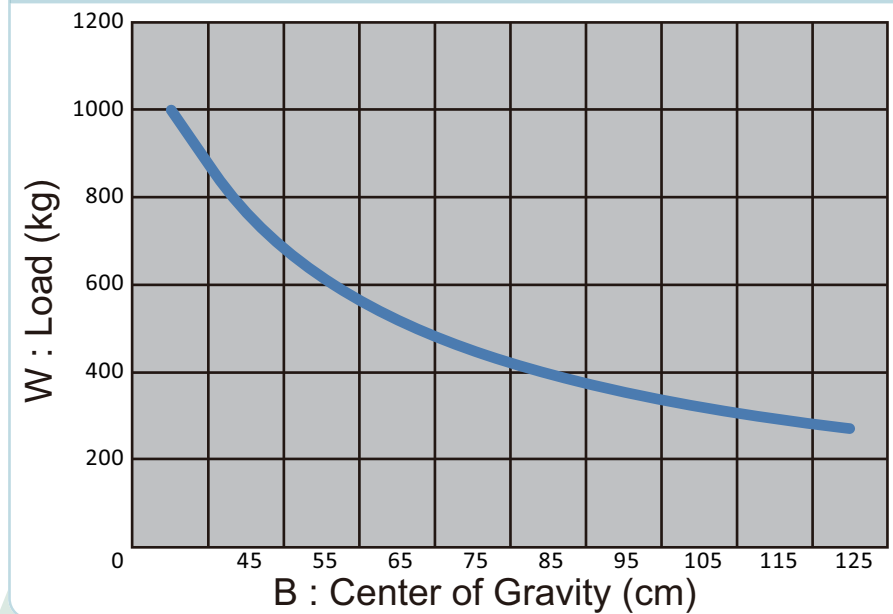
RSP-N Series Dual-Axis Servo Positioner



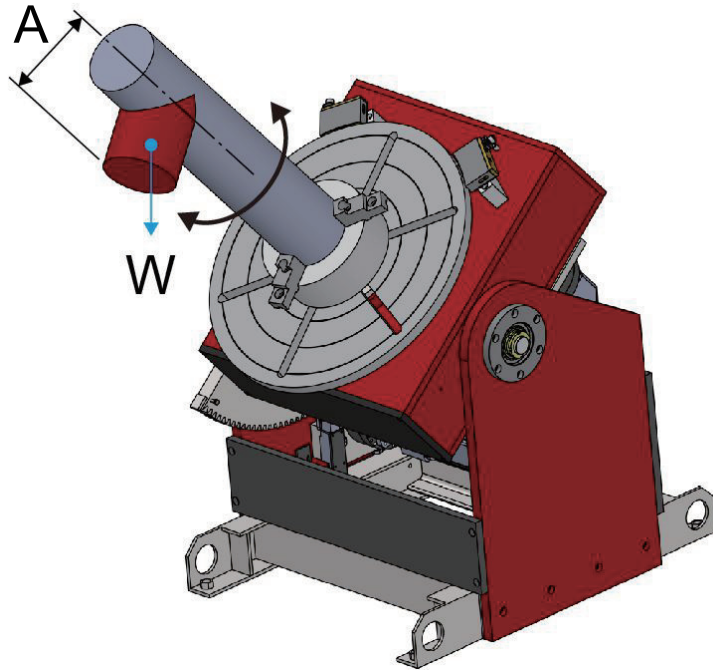
RSP-750AN Positioner Eccentric Load



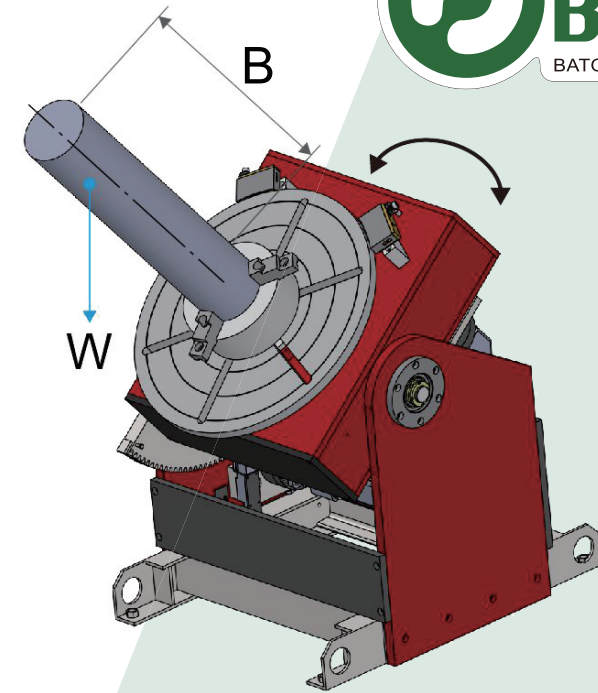
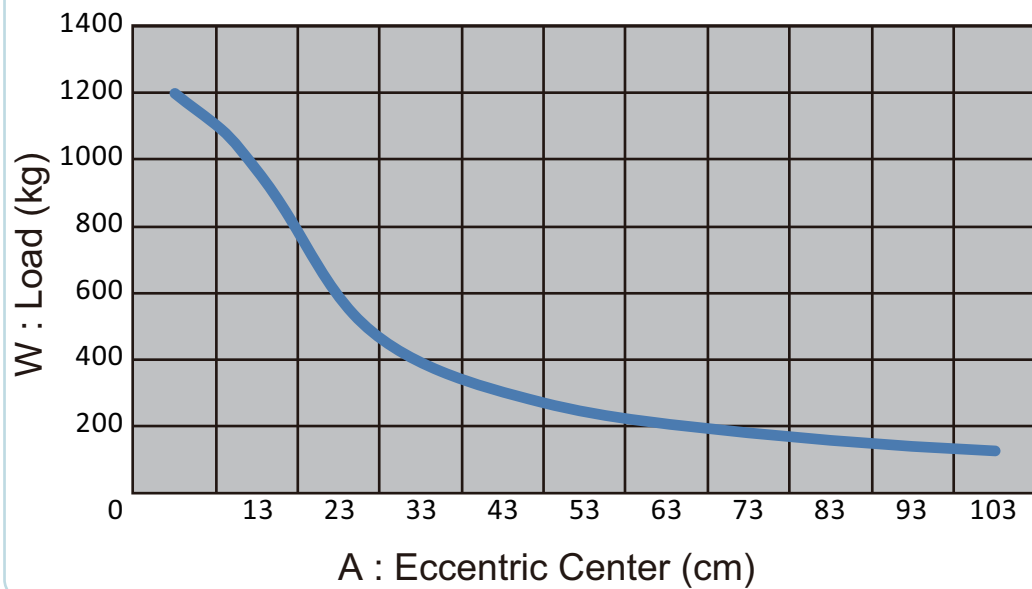
RSP-750AN Center of Gravity



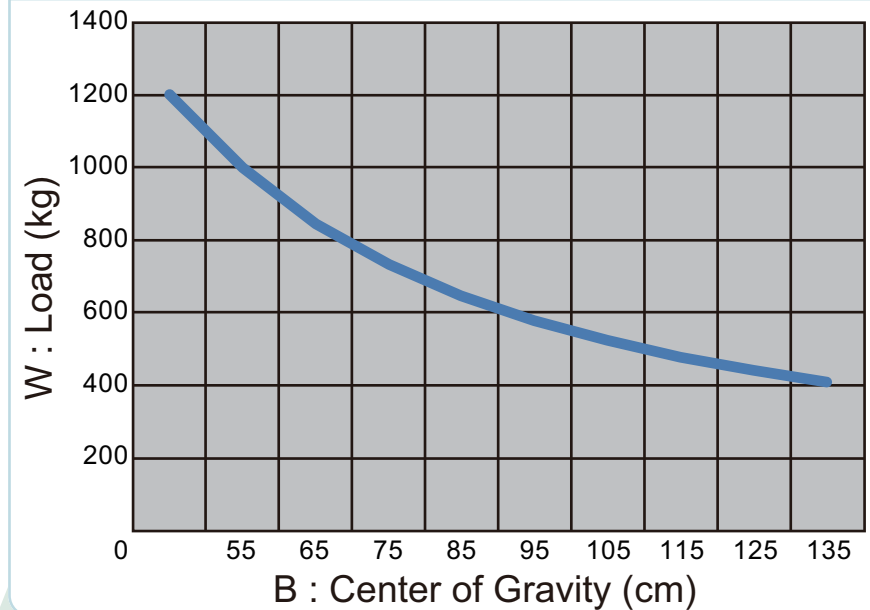
RSP-N Series Dual-Axis Servo Positioner



RSP-1TAN Positioner Eccentric Load



RSP-1TAN Center of Gravity



RSC2S Series Dual-Axis Servo Control Unit



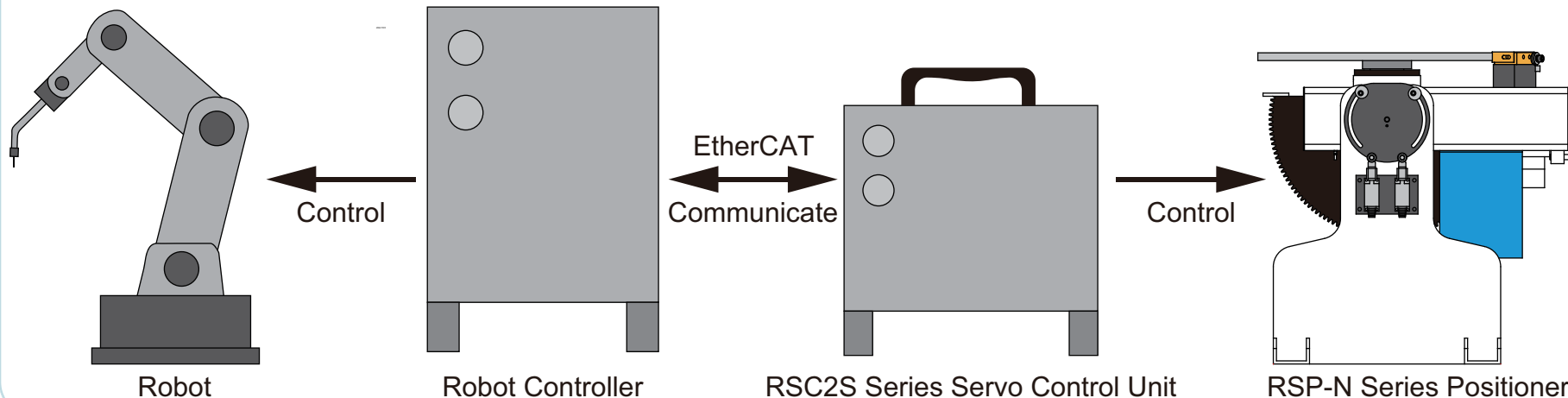
Features

- Contain Delta servo motors and servo control unit (Delta servo drive).
- Can be directly controlled by various brands of robot through the EtherCAT protocol.
- Can be operated by robot controller only.

Model	RSC2S-04	RSC2S-07
Servo Motor Spec.(Rotation)	AC400W / Delta	AC750W / Delta
Servo Motor Spec.(Tilt)	AC400W / with Brake / Delta corp.	AC750W / with Brake / Delta corp.
Communication Protocol	EtherCAT	EtherCAT
Corresponding Servo Positioner	RSP-300AN	RSP-500AN
Model	RSC2S-10	RSC2S-15
Servo Motor Spec.(Rotation)	AC1000W / Delta	AC1500W / Delta
Servo Motor Spec.(Tilt)	AC1000W / with Brake / Delta corp.	AC1500W / with Brake / Delta corp.
Communication Protocol	EtherCAT	EtherCAT
Corresponding Servo Positioner	RSP-750AN	RSP-1TAN



Explanation of Connection



RSC2S-P Series Dual-Axis Servo Controller



Features

- Contain Delta servo motors and servo controller (Delta servo drive).
- Can connect with various brands of robot through the I/O interface.
- Can be operated individually. (robot are not required)

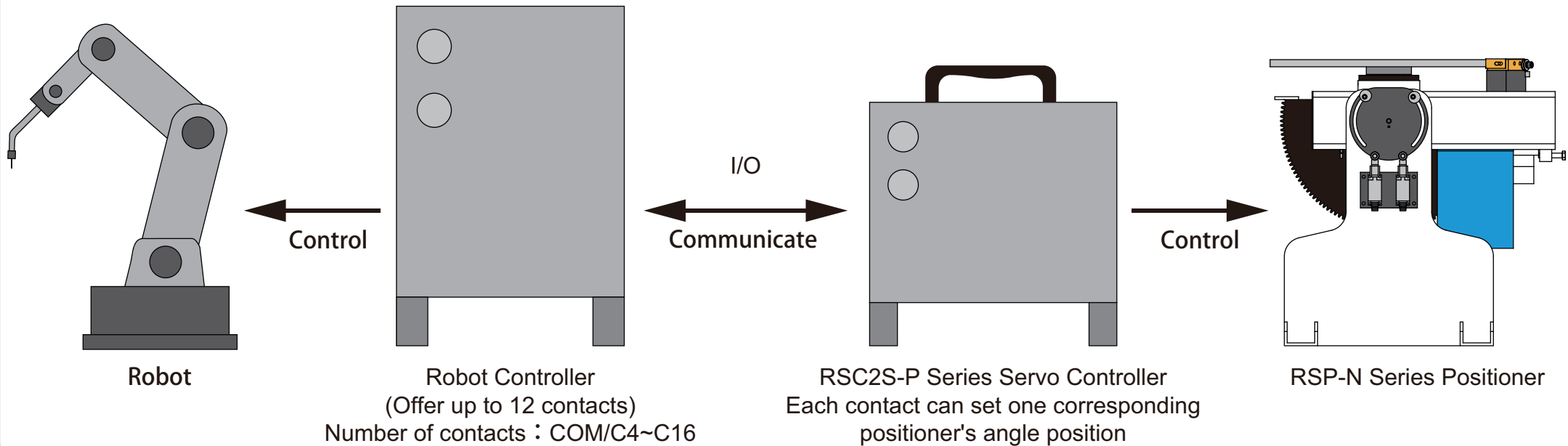
Model	RSC2S-04P	RSC2S-07P
Servo Motor Spec.(Rotation)	AC400W / Delta	AC750W / Delta
Servo Motor Spec.(Tilt)	AC400W / with Brake / Delta corp.	AC750W / with Brake / Delta corp.
Communication Protocol	I/O Interface	I/O Interface
Corresponding Servo Positioner	RSP-300AN	RSP-500AN
Model	RSC2S-10P	RSC2S-15P
Servo Motor Spec.(Rotation)	AC1000W / Delta	AC1500W / Delta
Servo Motor Spec.(Tilt)	AC1000W / with Brake / Delta corp.	AC1500W / with Brake / Delta corp.
Communication Protocol	I/O Interface	I/O Interface
Corresponding Servo Positioner	RSP-750AN	RSP-1TAN

I/O Interface: Explanation of Contacts / Functions

General Setting	Provide 3 contacts to control positioner's function. (C1; C2 ; C3) (Set in controller) Table Tilt Speed : 0.0 ~ 90.0 degree / sec (Set in controller) Table Rotation Speed : 0.00 ~ 99.99 rpm (Set in controller) Welding Speed : 0.0 ~ 999.9 mm/min
Workpiece Positioning	Provide up to 12 positioning contacts. (Each contact can set one corresponding positioner's angle position.) Provide 1 contact to control positioner's tilt. (C1-Start/Stop) Provide 1 contact to control positioner's rotation. (C2-Start/Stop)
Circumferential Welding	(Set in controller) Workpiece Diameter : 0.0 ~ 9,999.9 mm (Set in controller) Overlap Length : 0.0 ~ 999.9 mm
Division Workstation	Provide 2 contacts to control positioner's division welding function.(C1-Start/Next ; C3-Stop) (Set in controller) Division number : 0 ~ 36 point

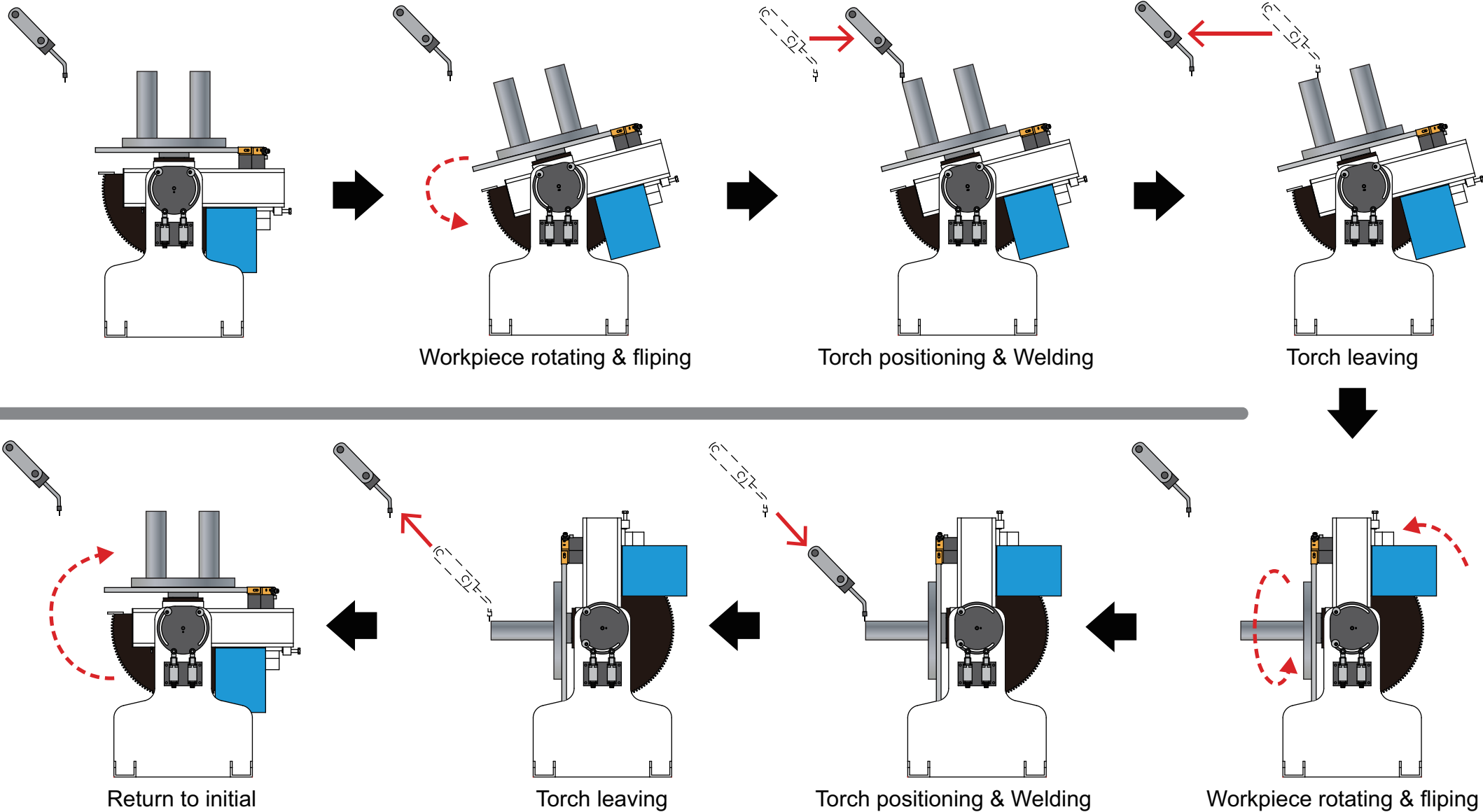
RSC2S-P Series Dual-Axis Servo Controller

Function A : Workpiece Positioning



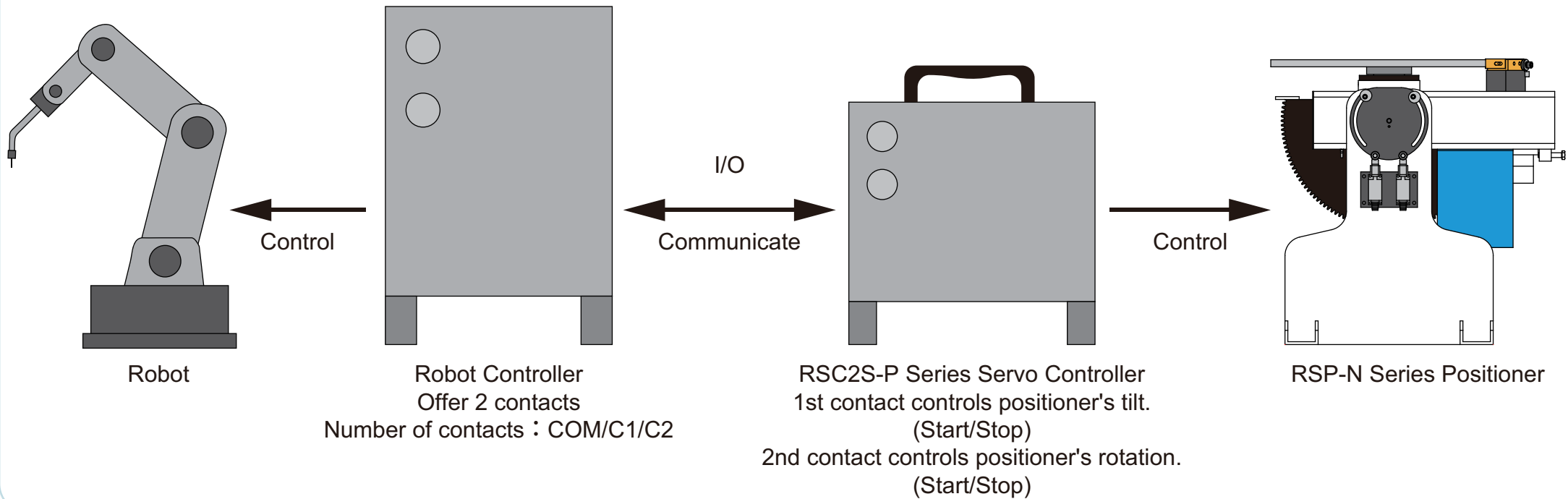
RSC2S-P Series Dual-Axis Servo Controller

Function A : Workpiece Positioning



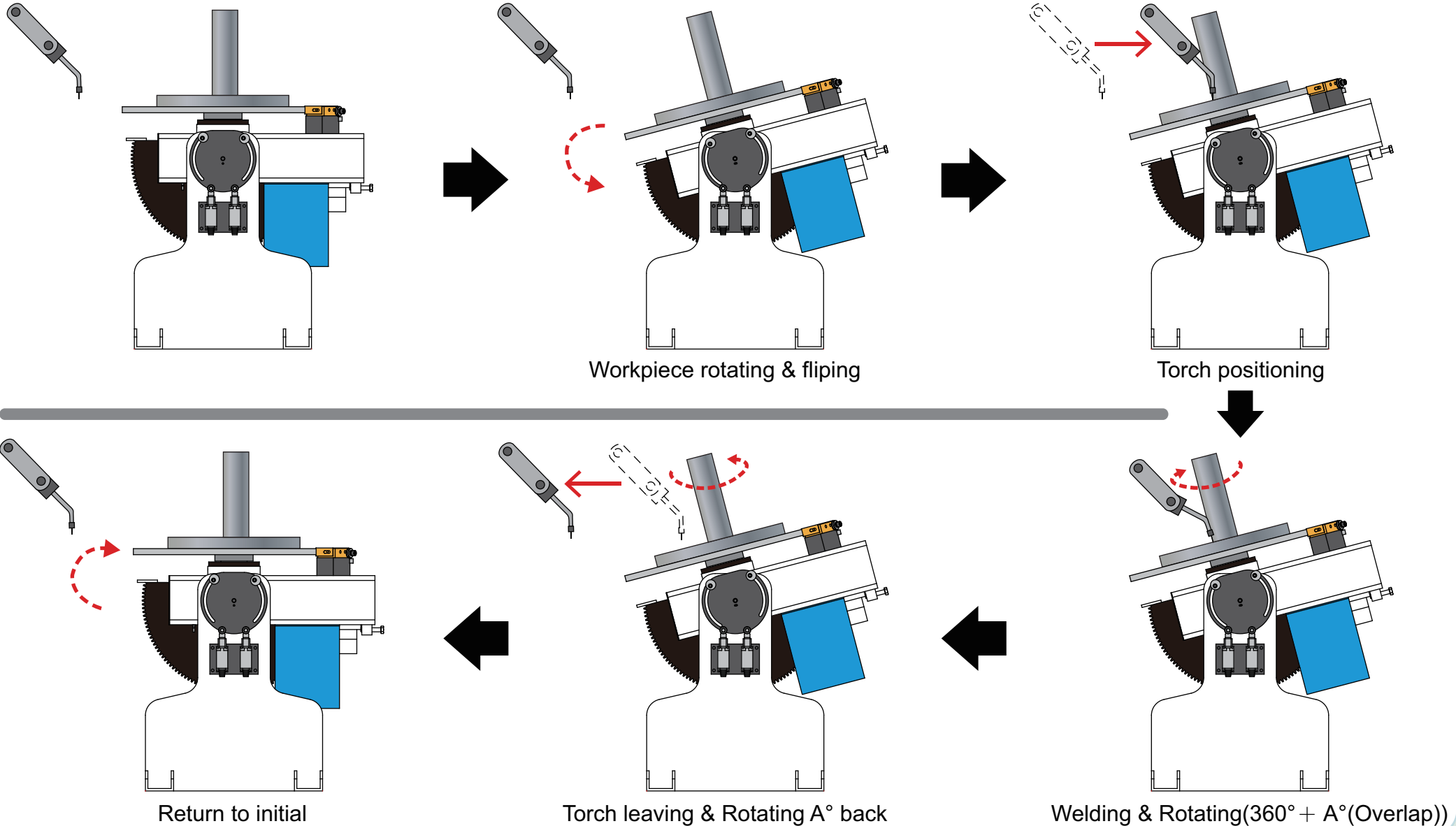
RSC2S-P Series Dual-Axis Servo Controller

Function B : Circumferential Welding



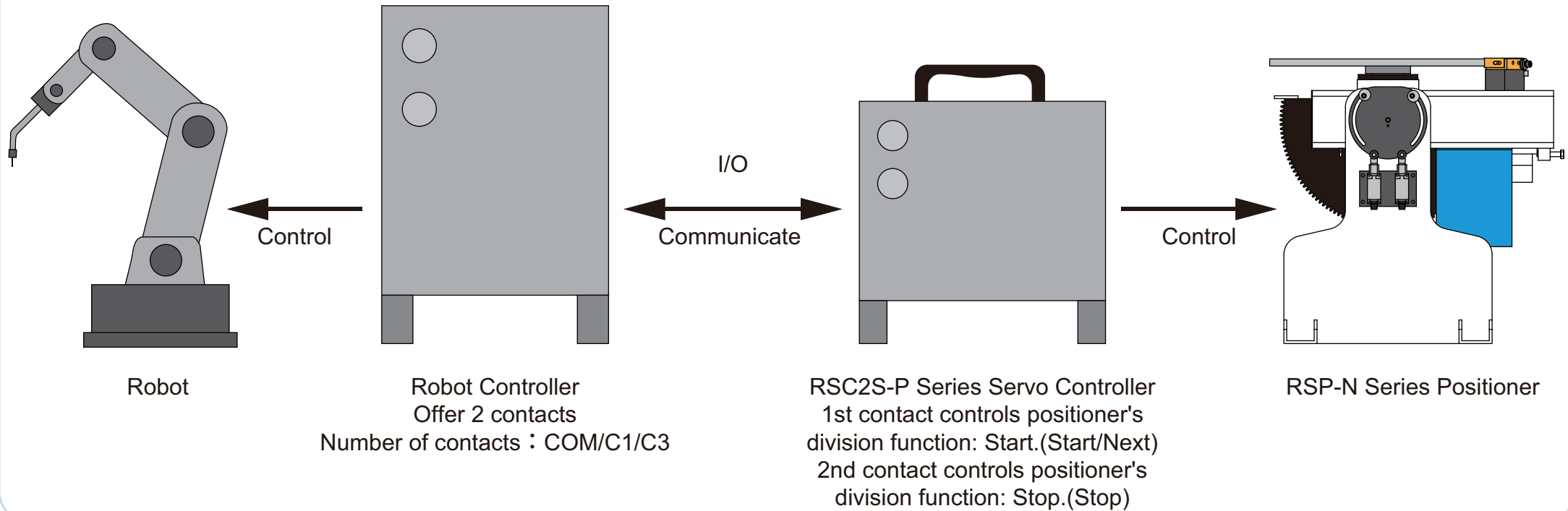
RSC2S-P Series Dual-Axis Servo Controller

Function B : Circumferential Welding



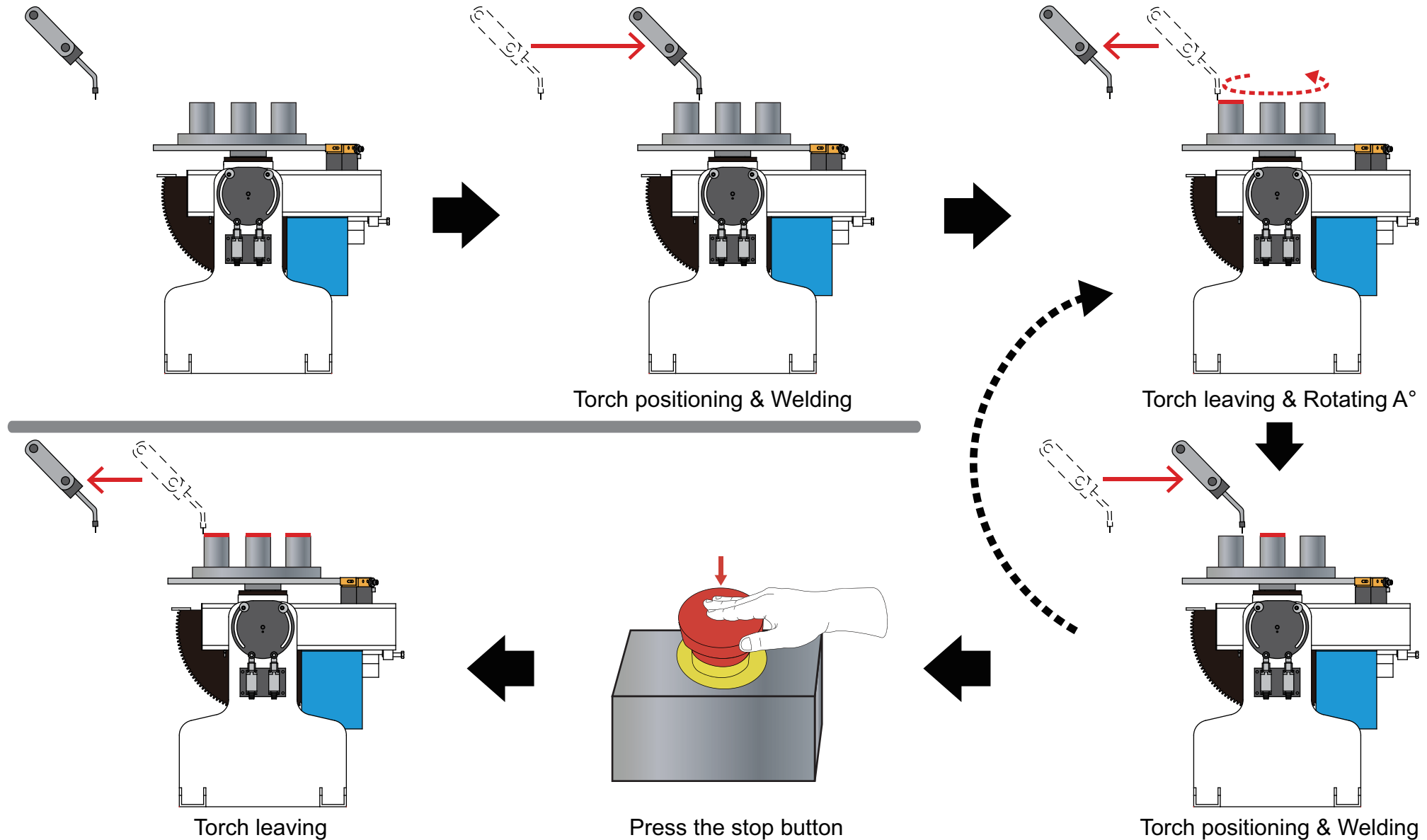
RSC2S-P Series Dual-Axis Servo Controller

Function C : Division Workstation



RSC2S-P Series Dual-Axis Servo Controller

Function C : Division Workstation



RSC2S-P Series Dual-Axis Servo Controller

Function D : Operate Individually (No Robot)

