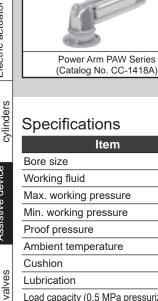
Pneumatic



PowerArm

PAW-FP1 Series

Bore size: ø80/ø100/ø125





Item		PAW			
Bore size	mm	ø80	ø100	ø125	
Working fluid		Compressed air			
Max. working pressure	MPa		0.7		
Min. working pressure	MPa	0.25 (when option L (with rotation lock) is selected: 0.35)			
Proof pressure	MPa	1.05			
Ambient temperature	°C	5 to 60			
Cushion		Rubber cushion			
Lubrication			Not available		
Load capacity (0.5 MPa pre	ssurized) kg	30 50 80			
Air consumption L	/min (ANR)	8	14	25	

Note: Values are at air consumption 1 cycle/min. and working pressure 0.7 MPa.

Movable range

With single-axis

Model No.	Movable range Top and bottom(mm)
PAW-S-8 (ø80)	520
PAW-S-X (ø100)	580
PAW-S-Z (ø125)	650

· With multi-axis

Model No.	Movable range			
Model No.	Top and bottom(mm)	Horizontal(mm)		
PAW-M-8S	520	1200		
PAW-M-XS	580	1400		
PAW-M-ZS	650	1600		
PAW-M-8X	1100	1300		
PAW-M-XZ	1230	1500		
PAW-M-8XS	1100	2000		
PAW-M-XZS	1230	2300		
PAW-M-8XZ	1750	2100		

Note: Horizontal movable range is the maximum value at the descending edge of the vertical movable range. See the external dimensions for more information on the movable range.

Weight

Madal Na	Mainlet (Ira)	Optional additional weight (kg)		
Model No.	Weight (kg)	L(Rotation lock mechanism)	R(Tip rotation mechanism)	LR
PAW-M-8	27	0.5	4	5
PAW-M-X	38	0.5	5.5	6.5
PAW-M-Z	71	0.5	7.5	8.5
PAW-M-8S	46	1.0	4	5.5
PAW-M-XS	77	1.0	5.5	7
PAW-M-ZS	123	1.0	7.5	9
PAW-M-8X	58	1.0	4	5.5
PAW-M-XZ	102	1.0	5.5	7
PAW-M-8XS	96	1.5	4	6
PAW-M-XZS	154	1.5	5.5	7.5
PAW-M-8XZ	121	1.5	4	6

Refer to "PowerArm PAW Series (CC-1418A)" for dimensions.

Fluid control valves

Single

Shaft

Quantity Shaft

How to order

PAW - M - 8X - R - FP1

A Number of sections

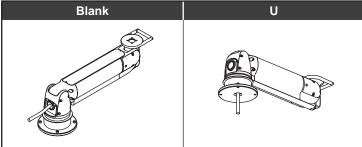
B Combination contents

Option: Bending direction

Blank	С
For 2-axis configuration For 3-axis configuration	For 2-axis configuration For 3-axis configuration

^{*} C is not available for single axis (PAW-S).

Option: Piping leadout direction



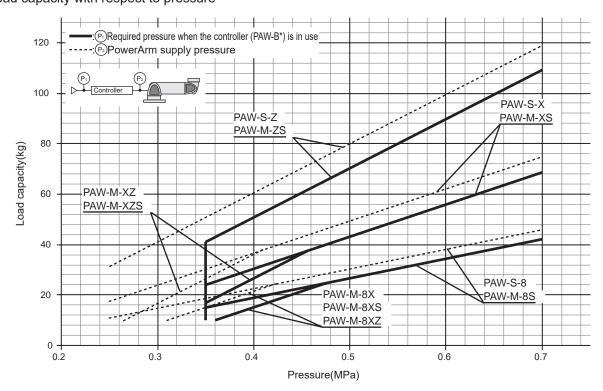
^{*} Piping holes at the mounting surface center are required for U.

Description Code S **B** Combination contents ø80 single-axis Χ ø100 single-axis Z ø125 single-axis ø80 + SCARA arm 88 XS ø100 + SCARA arm ø125 + SCARA arm ZS **8X** ø80+ø100 ΧZ ø100+ø125 8XS ø80 + ø100 + SCARA arm ø100 + ø125 + SCARA arm **XZS** 8XZ ø80+ø100+ø125

L Rotation lock mechanism *1 R Tip rotation mechanism C Bending direction (Refer to the figure at left) U Piping leadout direction (Refer to the figure at left)	© Option			
C Bending direction (Refer to the figure at left) Piping leadout direction	L	Rotation lock mechanism *1		
Piping leadout direction	R	Tip rotation mechanism		
	С	Bending direction (Refer to the figure at left)		
(I toler to the ligure at left)	U	Piping leadout direction (Refer to the figure at left)	•	•

^{*1} A mechanism designed to hold the force applied in rotational directions. It is not designed to stop the dynamic rotational force.

Load capacity with respect to pressure



- *1: Indicates the load capacity with the optional tip rotation mechanism mounted.
- *2: Pressure supplied to the controller should be increased, depending on the operating frequency and speed.
- *3: Attachment weight is not included.
- *4: While the load capacity properties are such that it alters slightly according to the arm rise angle, this graph shows the lower limit values.

^{*2} Contact CKD Sales if the attachments are compatible with FP1.

^{*3} Cannot be applied to transport of food not packed.

PAW-A*-FP1 Series

RoHS

natic ders Electric actuator

Pneumatic cylinders

Assistive devic

Pneumatic valves

F.R.L./Auxiliary Components Electronic Component

ne Vacuum Fants components

Fluid control Main line valves components

Main line ter components

FP2

M Anti-bacterial/
ants bacteria-removing filter

ol Vacuum

Fluid control Vacu

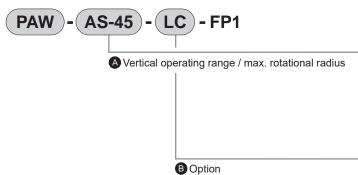
Power Arm PAW Series (Catalog No. CC-1418A)

Specifications

Opcomodions				
Item	PAW-AS-45	PAW-AS-45-S	PAW-AZ-110	PAW-AZ-110-S
Working fluid		Compre	ssed air	
Max. working pressure MPa		0	.7	
Min. working pressure MPa	0	.25 (when option L (with ro	tation lock) is selected: 0.35	5)
Proof pressure MPa		1.	05	
Ambient temperature °C		5 to 60		
Lubrication	Not available			
Load capacity (0.5 MPa pressurized) kg	53	53	43	47
When controller (PAW-B*) is used	47	47	32	36
Air consumption (*1) L/min (ANR)	11		35	
Product weight (*2) kg	164	161	183	180
Vertical movable range of transport section mm	450		1100	
Max. movable radius of transport section mm	2000	1600	2100	1700

- *1: Air consumption represents a value with 1 return/min and 0.7 MPa working pressure.
- *2: When Option L (with a rotation lock) is selected, an additional 2 kg is added respectively.
- *3: Refer to "PowerArm PAW Series (No.CC-1418A)" for the load capacity when an offset is used.

How to order

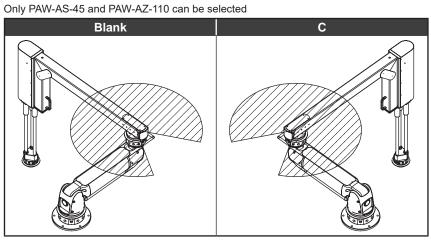


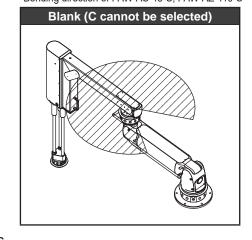
Code Desci		ription
A Vertical o	peration range <mark>/</mark> Max	. rotation radius *1
	Vertical operation	Max. rotation radius
	range	Wax. Totation radius
AS-45	450 mm	2,000 mm
AS-45-S	450 mm	1,600 mm
AZ-110	1,100 mm	2,100 mm
AZ-110-S	1,100 mm	1,700 mm

B Option	
L	Rotation lock mechanism *2
С	Bending direction (refer to diag. be

- *1 If the vertical operating range / max. rotational radius are exceeded, consult with CKD.
- *2 A mechanism designed to hold the force applied in rotational directions. It is not designed to stop dynamic rotation.
- *3 Contact CKD if the attachments are compatible with FP1. Contact CKD for details.
- *4 Cannot be applied to transport of food not packed.

*Bending direction of PAW-AS-45-S, PAW-AZ-110-S



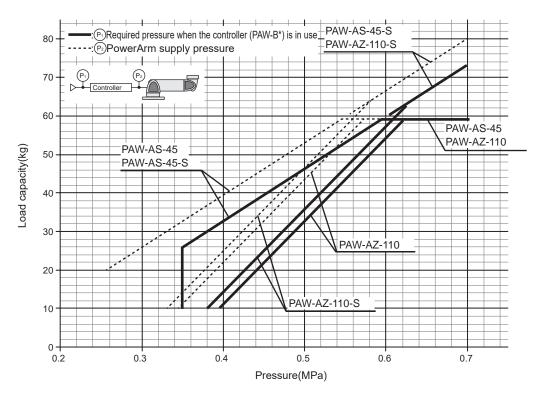


Refer to "PowerArm PAW Series (CC-1418A)" for dimensions.

BOption: Bending direction

Load capacity with respect to pressure

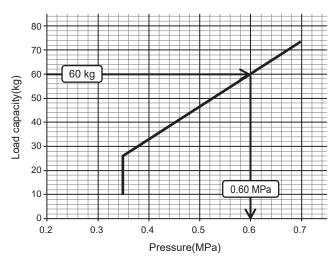
Load capacity with respect to pressure



- *1: Pressure supplied to the controller should be increased, depending on the operating frequency and speed.
- *2: Load capacity is the sum of weights of the "workpiece, attachment, and operation box".

[Selection example 1]

Model: PAW-AS-45-S Controller: PAW-BH1
Workpiece weight: 40kg, Operation Box weight: 9 kg,
Cardboard box suction attachment weight: 11kg For total 60kg

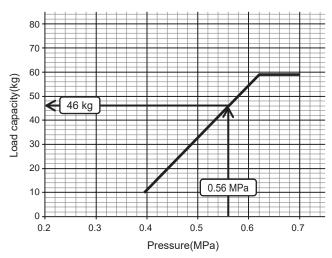


Pressure supplied to the controller will need to be 0.60 MPa.

[Selection example 2]

Model: PAW-AZ-110 Controller: PAW-BS2
Operation box weight: 9 kg, hook attachment weight: 2 kg

When pressure supplied to the controller is 0.56 MPa



The weight of Operation Box (46 kg) and Hook Attachment (9 kg) subtracted from the Load Capacity (2 kg) leaves 35 kg, which is the maximum workpiece weight that can be transported.

Electric actuator

Pneumatic cylinders

Assistive device

Pneumatic valves

F.R.L./Auxiliary Components
Electronic Component c

Vacuum components

Main line components

Fluid control valves

Main line components

Anti-bacterial/ s | bacteria-removing filter

Vacuum components

Fluid control valves