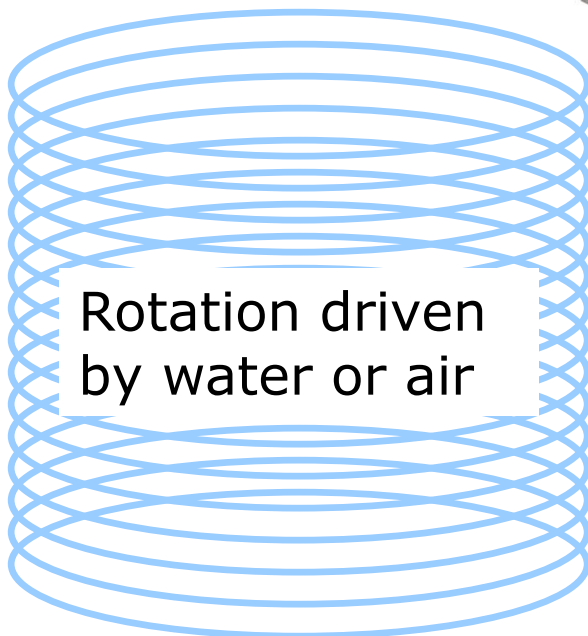
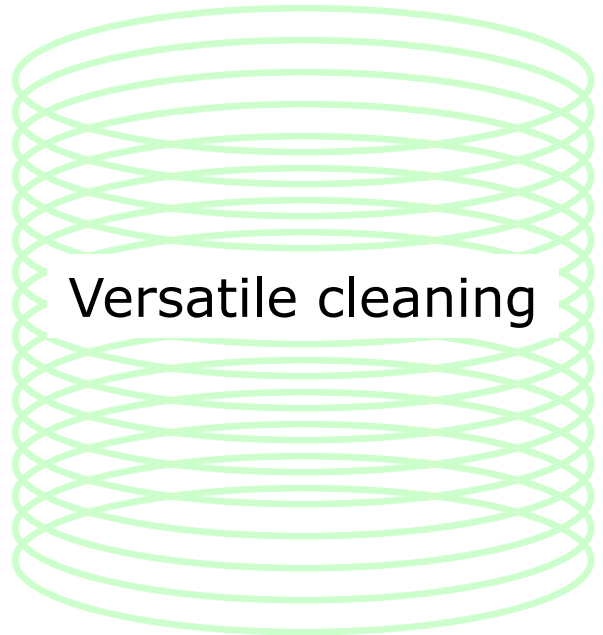


Tank cleaner with spray-driven self-rotation

## Rotating Nozzles for 2-Dimensional Cleaning

JET ATTACKER  
JA-2 type



# JA-2 type FEATURES

## No external power needed

- Because rotation is driven solely by the spray reaction force, installation is easy and equipment costs can be cut.

## Simple structure

- Simple structure, without turbine or reduction gears.
- Stable cleaning performance.

## Nozzle selectable

- You can select suitable nozzles depending on your purpose and application; solid stream jets for powerful cleaning, flat spray nozzles with wide spray coverage, and more. Nozzle mounts are available in two arms, or four arms for more concentrated cleaning. If nozzles become worn or damaged, they can be replaced easily.

## Appropriate arm length

- Standard length is 200 mm or 300 mm, and other length according with target area is available on request.

## No "waste" water

- All supplied water is used as driving force and cleaning water. Minimal energy loss.

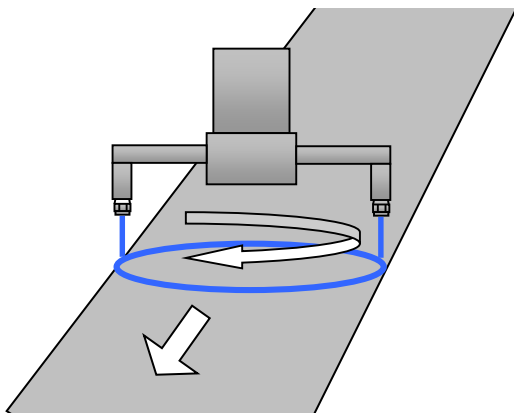
## Various applications

- By creating a new arm configuration, many cleaning objectives such as spot cleaning or 3D cleaning can be achieved.

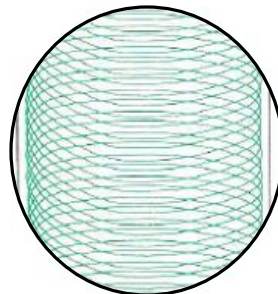
## Air-driven use also possible

- Rotation is driven not only water, but also air. Ideal for blow-off drying, air blowing especially for complex applications.

# CLEANING PATTERN EXAMPLE



Cleaning pattern of JA2-4 type with powerful solid stream jet nozzles  
(Patterns differ by line speeds)



By rotating solid stream jet nozzles with high cleaning force, powerful cleaning over a large area is achieved to remove tough dirt.

# JA-2 type APPEARANCE & SPRAY PATTERNS

## Arm selection

### ■ 4-arm type



Four arms make more precise cleaning possible.

### ■ 2-arm type



## Available spray nozzles

### ■ Solid Stream Jet

Most powerful spray impact to remove tough stains (dirt).



【Spray pattern】



【Spray distribution】

### ■ Flat spray pattern

JA-2 type + flat spray nozzle provides circular cleaning.  
Spray angle range: 15°-115°.  
Mountain-shaped distribution or even spray distribution is available.

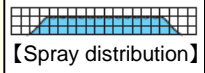


【Spray pattern】



【Spray distribution】

【Spray pattern】



【Spray distribution】

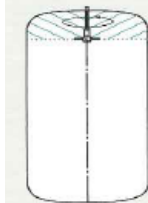
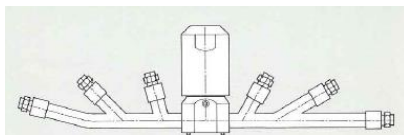
### ■ Cone spray pattern

Full cone or hollow cone spray, suitable for dispersal spraying.

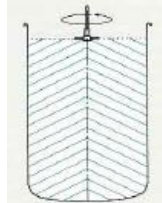
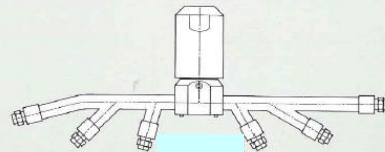


## JA-2 type VERSATILE TANK CLEANING

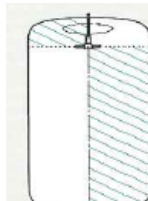
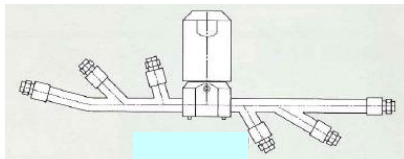
### ■ Cleans only upper part of tank



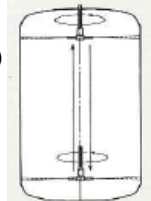
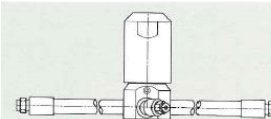
### ■ Cleans only lower part of tank



### ■ Cleans whole area of tank

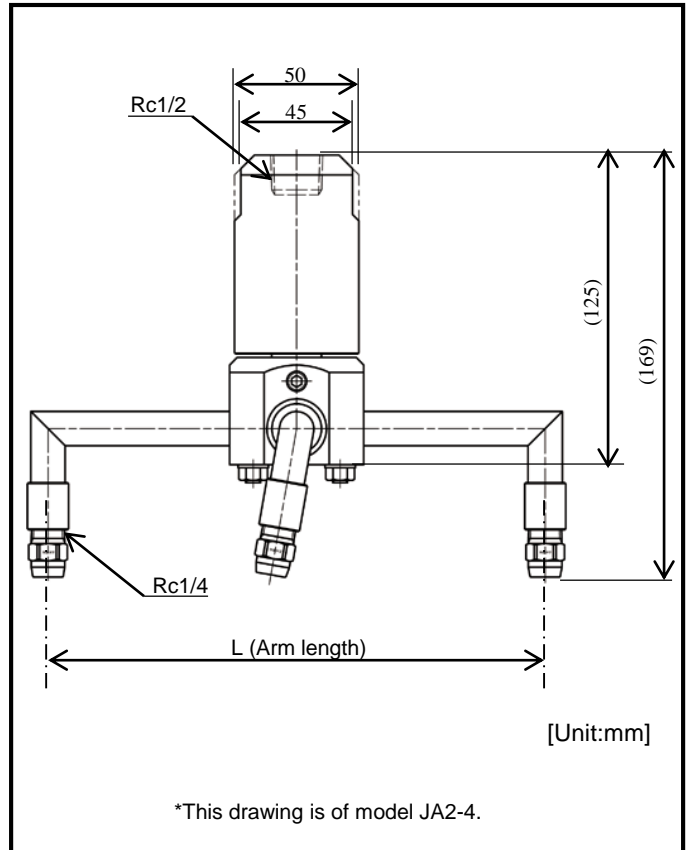


### ■ Cleans whole area of tank (used with lifting and lowering device)



# JA-2 type SPECIFICATIONS & DIMENSIONS

Models	JA2-2 (φ★★)	JA2-4 (φ★★)
Nozzle orifice diameter (*1)	φ2.5, φ3.5, or φ5.4 mm	
Number of nozzles equipped	2	4
Max. pressure	10.0 MPa	
Allowable temperature	4–60°C	
Recommended working pressure	0.3–2.0 MPa	
Spray capacity (*2)	14–53 L/min	28–98 L/min
Pipe connection size	Rc1/2 [1/2F(PT)]	
Nozzle thread size	Rc1/4 [1/4F(PT)]	
Main materials	Stainless steel 304 (O-ring, seal, etc.: PTFE, NBR, FKM)	
Arm length (*3)	200 mm or 300mm	
Drive system	Driven by spray reaction force	
Mass	1.9 kg	2.0 kg



Nozzle orifice diameter is specified in place of ★★.

\*1) When equipped with solid stream jet nozzles. \*2) When equipped with solid stream jet nozzles and sprayed at pressures of 0.3 MPa.

\*3) Arm length is available from 200 mm to 1,500 mm. Contact us for a longer length.

Please contact us if you need special surface finishing such as buffing or electrochemical polishing.

## (Reference)

■ Spray capacity of JA-2 equipped with solid stream jet nozzles

	Product code	Spray capacity (L/min)		
		0.3MPa	0.7MPa	1.0MPa
2-arm	JA2-2 (φ 2.5)	14	22	26
	JA2-2 (φ 3.5)	27	41	49
	JA2-2 (φ 5.4)	53	81	97
4-arm	JA2-4 (φ 2.5)	28	43	51
	JA2-4 (φ 3.5)	52	79	95
	JA2-4 (φ 5.4)	98	150	180

## HOW TO ORDER

Ex.) 1/2FJA2-2(φ 2.5)S304(L=200) JA with solid stream jet nozzles and arms of standard length

1/2F JA2- 2 (φ 2.5) S304 (L=200)

Number of arms

■ 2  
■ 4

Nozzle orifice diameter

■ 2.5  
■ 3.5  
■ 5.4

Arm length

■ 200  
■ 300  
■ At request (up to 1500 mm)

An inquiry drawing form is available for your consideration. Please feel free to contact us.



“The Fog Engineers”

**H. IKEUCHI & CO., LTD.**

### Headquarters

Daiichi Kyogyo Bldg., 1-15-15, Awaza  
Nishi-ku, Osaka 550-0011, Japan  
Tel: 81-6-6538-4015 Fax: 81-6-6538-4022  
Email: overseas@kirinoikeuchi.co.jp  
URL: <https://www.kirinoikeuchi.co.jp/eng/>

### IKEUCHI (SHANGHAI) CO., LTD.

Tel: 86-21-6140-9731 Fax: 86-21-6123-4239 mist@kirinoikeuchi.com <http://www.kirinoikeuchi.com/>  
Tianjin Branch Tel: 86-22-2320-1676 Fax: 86-22-2320-1675  
Shenzhen Branch Tel: 86-755-8525-2221 Fax: 86-755-8525-2215

### IKEUCHI USA, INC.

Tel: 1-513-942-3060 Fax: 1-513-942-3064 info@ikeuchiusa.com <https://www.ikeuchi.us/>  
Georgia Office Tel: 1-706-850-3332 Fax: 1-706-850-3309

### IKEUCHI EUROPE B.V.

Tel: 31-20-820-2175 Fax: 31-20-820-2176 info@ikeuchieurope.com <https://www.ikeuchi.eu/>

### IKEUCHI TAIWAN CO., LTD.

Tel: 886-2-2511-6289 Fax: 886-2-2541-6392 sales@ikeuchi.com.tw <http://www.ikeuchi.com.tw/>

### PT. IKEUCHI INDONESIA

Tel: 62-21-2909-3246 Fax: 62-21-2909-3247 sales@ikeuchi.co.id <https://www.ikeuchi.id/>