



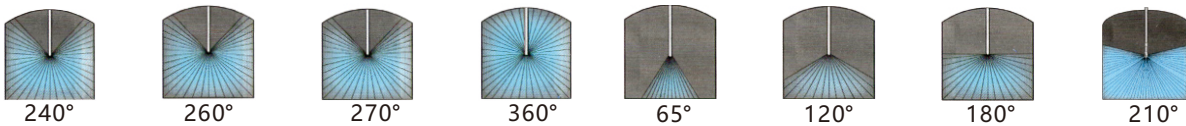
瓶罐清洗喷嘴 TANK WASHER NOZZLE

Tank washing optimizing

It is a challenging subject that washing your tanks thoroughly by your best way and reduce the expensive chemicals ,water and labor at the meantime. You can maximize the cleaning equipment performance through many respects. We have selected several excellent cleaning solutions for you here which will help to optimize cleaning efficiency.



Covering area of spray



Are you still cleaning tanks manually?

You get the following benefits by applying the automation technology:

The cleaning effect will be more consistent and thoroughly;
Avoid direct contact with dangerous chemicals, and workers are safer;

Faster cleaning, downtime minimization, tanks can be quickly restored to working state;

Usage of water and chemicals will be reduced drastically and lower the cost of wastewater disposal .

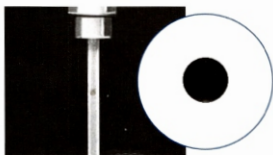
Extra labor freed from cleaning operations can create other benefits for the company.

If you are currently using cleaning nozzles or tank washing machines, you can improve your cleaning efficiency greatly through a few simple changes or try to change the cleaning device .

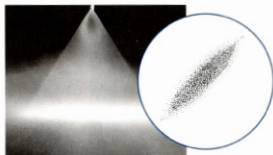
If you want to optimize tank washing, you need to evaluate the proposed operation firstly.

- How many tanks need to be cleaned? Diameter, length and height of each tank.
- Are there any obstacles such as stirrer or mixer inside the tanks that your company using now?
- Compared with other areas, is there any specific area needs to be more careful cleaning, such as degreased line?
- What residues need to be removed? Are these residues sticky? Can residues be washed out easily?
- Whether need detergent, is the water sufficient? Whether need to heat the cleaning liquid?
- Is there any problem with the cleaning method you are currently applying ?
- With the clear answer to these questions, what you need to do next is to evaluate which cleaning product you are going to use.

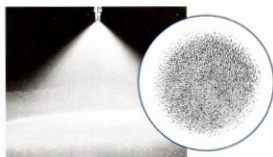
Spraying pattern:



Liquid column spray with high impact force



Fan spray with medium impact force



Solid cone spray with low impact force



广东厂区



湖南厂区

Six key specification guidelines

Spray distance

Spray distance is usually expressed as tank diameter. If you are using a tank with a diameter of 20 feet (6m) and a height of 40 feet (12m), you will need two spray tank washers with diameter of 20 feet (6m) or a tank washer with diameter of 40 feet (12m).

Impact force

You can increase the impact by increasing the flow or pressure. Relatively speaking, the way to increase the flow is particularly effective. If the flow rate is doubled, the impact force can also be increased by 100%, while if the pressure is doubled, the impact force can only be increased by 40%. In a word, to ensure the optimal cleaning efficiency, the best solution is still to choose tank cleaning products with sufficient impact force.

Flow rate

Operating at the lowest possible flow can significantly reduce operating costs. In this way, cleaning fluid, sewage treatment and energy consumption can be greatly reduced. In view of this, our basic guideline is to use flows between 0.2 gal/min/ft² (7 l/min/m²) 2.0-4 gal/min/ft² (1.5 l/min/m²). This guideline usually applies to stationary nozzles where all surfaces of tanks can be flushed simultaneously. Rotating nozzles are usually in contact with tank parts at a certain time, allowing for lower flow rates.

Spray pattern

Solid stream sprays provide the greatest impact force, followed by fan and full cone sprays

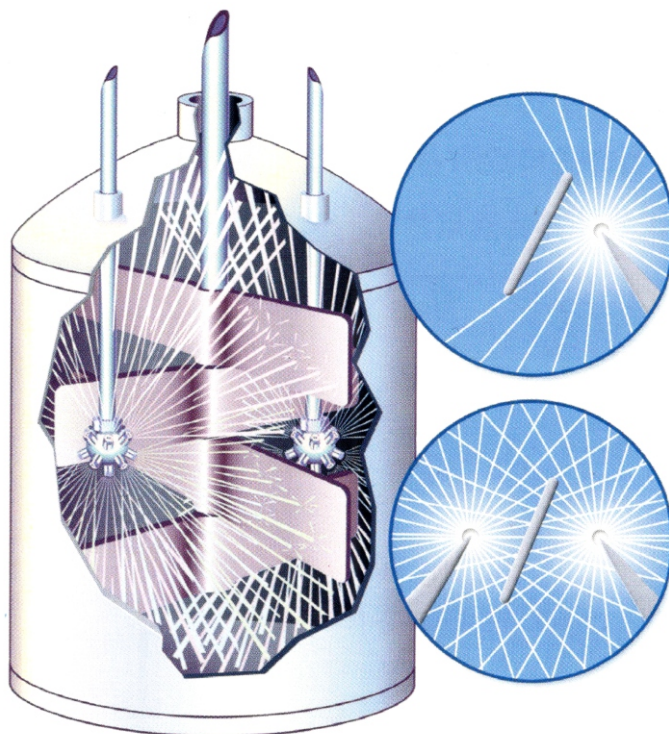
Spray coverage

Spray coverage of tank washing nozzle varies from 65° to 360°. To reach all areas of the tank, you may need to use multiple nozzles, especially if there is a mixer in the tank.

Material

In view of the durability and high temperature resistance of stainless steel, most tank washing nozzles are made of stainless steel. Nozzles made of PTFE(teflon) or PVDF(polyvinylidene fluoride) are used for operations involving corrosion protection requirements. Make sure the material with the seal or o-ring device is compatible with the cleaning fluid.

Flow rate	Pressure	Relative impact
13gpm(50 l/min)	45 psi(3 bar)	1.0kg
13gpm(50 l/min)	90 psi(6 bar)	1.4kg
26gpm(100 l/min)	45 psi(3 bar)	2.4kg



Free evaluation of tank washing:

After you have read this unit, you may consider taking advantage of our free on-site tank cleaning evaluation. Our company will send a tank cleaning expert to the site to conduct field inspection of related operations.

If you are using tank cleaning nozzle, our company's experts will check the nozzle and evaluate its model, layout and position. Our company's experts will record the flow rate, operating pressure, cleaning fluid and residue to be removed. After the evaluation, our company will submit a written summary report on your previous operation and improvement of cleaning efficiency.

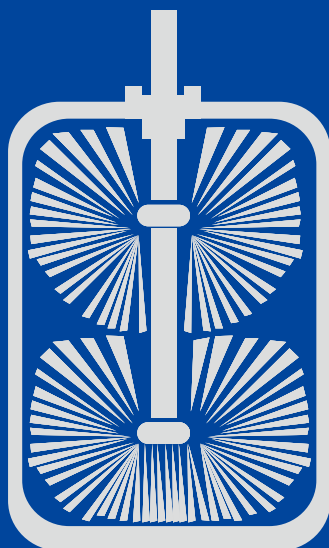
Type	Nozzle Series		Recommended Cleaning Diameter (m)	Recommended Pressure (bar)	Flow Range (L/min)	Working Principle Drive Type	Scan the QR code to watch the video
Three-Dimensional Tank Washer (Rotating)	360A-Tank cleaning nozzle Moderate cleaning		7-15	4-20	74-359	Liquid-driven Gear rotation	
	360B-Tank cleaning nozzle Moderate cleaning		10-35	4-20	116-1000	Liquid-driven Gear rotation	
	360B3-Tank cleaning nozzle Moderate cleaning		10-35	4-20	181-1000	Liquid-driven Gear rotation	
	CYCO-05Rotary tank cleaning nozzle Moderate cleaning		4-7	4-20	35-125	Liquid-driven Gear rotation	
	CYCO-15 bottle and jar cleaner Moderate cleaning		6-15	4-20	50-266	Liquid-driven Gear rotation	
	SR42 Bottle and Can Washer High-pressure cleaning		1.2-3	30-160	13-55	Liquid-driven Gear rotation	
	CYR-500-Hp High-Pressure 3D Nozzle High-pressure cleaning		2-4	200-1000	28-80	Liquid-driven Gear rotation	
	CYCO-08 Three-Dimensional Rotating Tank Washer Moderate cleaning		4-8	4-20	88-250	Liquid-driven Gear rotation	
	CYco-100 rotary can washer Moderate cleaning		1-6	4-15	80-145	Liquid-driven Gear rotation	
	CYco-10 Universal bottle and jar cleaner Moderate cleaning		4-8	3-10	400-750	Liquid-driven Reaction force	
	CY40 High-Power Cleaner Moderate cleaning		5-20	4-6	86-760	Liquid-driven Gear rotation	

Type	Nozzle Series		Recommended Cleaning Diameter (m)	Recommended Pressure (bar)	Flow Range (L/min)	Working Principle Drive Type	Scan the QR code to watch the video
	CY02 bottle and can cleaner Moderate cleaning		2-2.5	5-30	7-75	Liquid-driven Gear rotation	
Fixed-type tank cleaner	Fixed Spray Ball S360/Y360 Light cleaning		0.35-3.9	1-5	9-1060	Solid Stationary	
	SPJT bottle cleaning nozzle Light cleaning		1.2-1.5	0.7-5	11-260	Solid Stationary	
	K4 Tank Washing Nozzle(6160/10250) Moderate cleaning		1.5-3.0	1.5-3.5	35-230	Solid Stationary	
	K4 Tank Washing Nozzle(9800) Light cleaning		0.6-2.5	4-10	20-43	Solid Stationary	
Telescopic Tank Washer	CY-SS telescopic nozzle Light cleaning		0.6-2.5	2-7	12-98	Liquid-driven Telescopic	
	CY-SS telescopic nozzle Light cleaning		0.6-1.5	2-7	30-50	Liquid-driven Telescopic	
	CY-SS17 Telescopic Cleaner Light cleaning		≤1.5m	2	10-25	Liquid-driven Telescopic	
Rotary Tank Washer	Rotary cleaning ball ROT series Light cleaning		0.8-3	2-7	6-165	Liquid-driven Reaction force	
	K4 Tank Washing Nozzle(28250) Light cleaning		0.5-2.0	3-10	31-150	Liquid-driven Reaction force	
	K4 Tank Washing Nozzle(19250) Light cleaning		0.4-2.5	1.5-12	31-150	Liquid-driven Reaction force	

Type	Nozzle Series		Recommended Cleaning Diameter (m)	Recommended Pressure (bar)	Flow Range (L/min)	Working Principle Drive Type	Scan the QR code to watch the video
Rotary Tank Washer	M-50Rotating Tank Washing Nozzle		0.35-3.9	1.5-3	20-132	Liquid-driven Reaction force	
	Light cleaning						
	36300R Tank Washing Nozzle		0.6-1.2	0.7-3.5	15-1500	Liquid-driven Reaction force	
	Light cleaning						
Rotary Tank Washer	36300 Tank Washing Nozzle		0.6-7.6	0.7-3.5	15-1500	Liquid-driven Reaction force	
	Light cleaning						
	36500 Tank Washing Nozzle		0.5-1.8	0.7-3.5	15-1500	Liquid-driven Reaction force	
	Light cleaning						
Electric/ Pneumatic	CY-08H high pressure tank cleaning system		Within 10 meters	20-200	1-80	Stepper Motor Drive Rotation Gas-powered Explosion-proof model	
	High-pressure cleaning						



Dongguan Changyuan Spray Technology Co., Ltd. possesses advanced production and testing lines, specializing in providing customers with precision spray systems, tank cleaning systems, automotive cleaning systems, and more. The company will deploy state-of-the-art equipment and production R&D personnel to deliver premium services to clients. Established in 2000, the company boasts a 22-year history with over 200 employees, where technical developers constitute more than 10% of the workforce. Recognized as a National High-Tech Enterprise for 12 consecutive years, the company strictly implements management systems and processes aligned with IATF 16949 certification standards to meet the delivery quality and cycle requirements of high-end clients.



Group enterprise:

DongGuan Changyuan Spraying Technology Co.,Ltd.

Hunan Changyuan Technology Co.,Ltd.