

CATALOGUE

Agricultural Power sprayer & Spraying Accessories

NEWST
COLLECTION



THE BEST PRODUCTS



金鑽石牌
DIAMOND®

Get Your Own Diamond



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About us



TANONG introduced its DIAMOND pumps to the market in 1970.

After decades as being a leading agricultural machinery maker, we have successfully grown up as a professional plunger pump and related machinery manufacturer.

The applications of our products and services include high-pressure cleaning, misting, seawater desalination, dust suppression, fire fighting, automatic agricultural spraying,...etc.

We expect ourselves to be a top manufacturer of plunger pumps and related systems around the world.



We pursue to accomplish the following goals

- All our customers are satisfied with the services we offer.
- The consumers enjoy the experience of using those excellent products we make.
- The dealers make fine profit from selling our goods.

The reliable R&D

TANONG is very proud of its powerful R&D Department. We introduce the latest software of 2D/3D and CAD/CAE to raise the efficiency of R&D procedure.

From the concept developing to assembling and testing, our persistence and consistent efforts enable us to produce the most reliable, trustworthy products successfully.





Strict QC, QA & Environmental Management System

With ISO 9001 : 2015 certification, our strict QA system helps us ensure that all products meeting your demands. We use various precision testing instruments such as coordinate measuring machine to continuously monitor quality during the production process to ensure that all products are in perfect condition when leaving the factory.

In addition, we have also obtained ISO 14001 : 2015 certification.

Through complete environmental management standard operations, we do our best to enable the company to effectively reduce the negative impact on the global environment during the entire production process.



Icons



rpm



Max flow rate



Max operating pressure



Electric Motor



Engine



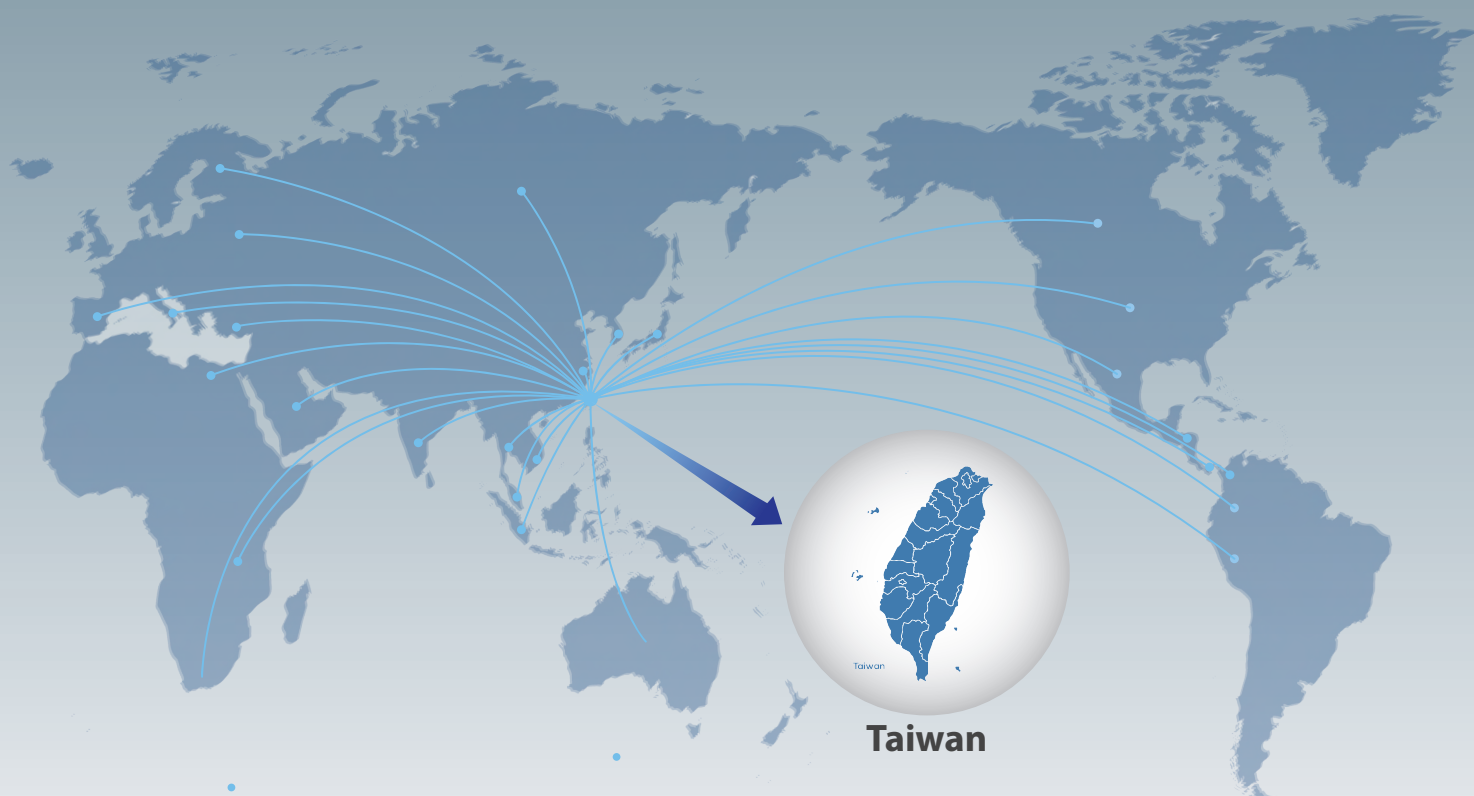
Electrical power supply



Volt/Hz



Weight



Applications of Power Sprayers



Rice and Wheat field pest prevention, control, and elimination

High-density planting crops, such as rice, corn, wheat, etc. require large area and periodical pesticide spray to prevent crops disease.



Greenhouse climate control

Climate control is top priority in greenhouse farming. The light, humidity, and temperature inside of the greenhouse will decide the growth of the crops.

When the humidity is low, a fine droplets of spray is needed to increase the moist to make sure a healthy environment for the crops.

Applications of Power Sprayers



Hillside water supply

Hillside is commonly used for orchard planting, yet its downward slope makes it hard to reserve water. In most cases, water needs be drawn from the river in valley and sent up to storage tanks on the hill for irrigating periodically or whenever is needed. In such cases, powerful pump with excellent water delivering performance is needed to effectively elevate the water to high ground for storage.



Sprayer vehicle

In some large farm fields, orchards are planted with certain spacers between lines, such as wine grapes, tomato, pear trees, apple trees, etc. This type of farm arrangement allows sprayer vehicles to move between orchards or vines to conduct the spray, saving a large amount of man works.

Applications of Power Sprayers



Orchard on hillside

In a large orchard on the hillside, the topography makes it hard for a sprayer vehicle to maneuver for irrigation or pesticide. It often demands too much man power and time if done by manual labor. A fixed sprayer lines will be ideal for this type of farm. Fixed sprayer line system often comes with time setting device for auto-and regular irrigation and pesticide.



Irrigation and fertilizing for flower farm

For either large flower farm or residential gardening, pesticide and fertilization at early stage are quite important for keeping the flowers and leaves flourish. For the flowers are delicate and fragile, adjustable spray pressure and mode on the sprayers are essential to prevent the harm.

Applications of Power Sprayers



Pest and weed control in public and private area

In public or residential green field, pest and weed grow wherever trees and plants grow.
To put pest and weed under control, proper pesticide and herbicide are often needed.
A small and easy-to-use sprayer for such application is ideal for efficiency.

Pesticide for vegetable farm

Vegetable farms are becoming larger in scale nowadays to meet the needs of growing demand.
Pest and disease could damage farmers' work and return if left unattended.
By giving more frequent yet low-dose pesticide in vegetables' short growing period, farmers will have better chance to have good harvest.

Applications of Power Sprayers



Soil disinfection

For some fruit trees or root vegetables grown under the ground, spraying pesticide above the ground does not help to keep them from pest and disease.

High pressure pump will be a great tool to inject pesticide into underground soil to eliminate pest prior to planting.



Crop Shading & Cooling Spray

In response to increasingly extreme weather and heat stress, many crops face challenges during summer or periods of intense sunlight, such as leaf scorch, reduced photosynthetic efficiency, and increased water loss. To address these issues, some farmers have widely adopted reflective shading agents (e.g., kaolin clay, calcium carbonate slurry) or natural heat-resistant materials (e.g., diatomaceous earth, mineral particles). These materials form a protective film on the crop surface, helping to lower leaf temperatures and improve light diffusion, thereby enhancing crop heat tolerance and stabilizing yield.



POWER SPRAYER
&
CERAMIC POWER SPRAYER
SERIES



The Features of DIAMOND Power Sprayers (With A Manual Pressure Regulator)

To ensure stable spraying pressure, our power sprayers are mostly designed with triplex plungers. The suction and discharge of the liquid are both controlled by one-way valves. As the plungers move at high speed inside the cylinder and can be easily worn, there are three grease cups built above the cylinder for lubricating the plungers. In addition, the crankcase also contains lubricating oil to lubricate the moving parts inside, such as the crankshaft, connecting rods, plungers, and plunger stems as well as bearings.

In order to produce different pressures for different applications and to regulate proper bypass rate, a pressure regulator is applied. Also, in order to minimize the pulsation from fluid suction and discharging, an air chamber is assembled.

Due to the intricate design of the structure which involves considerations of material selection, precision in processing and assembly, and structure durability under reasonable operation, our 50+ years of RD and manufacturing experience guarantees highly consistent product quality. Furthermore, from years of accumulated feedback from users, our power sprayers with manual pressure regulator has fully demonstrated its high durability in the changing operation environment.

The Features of DIAMOND Power Sprayers (With Auto Pressure Unloader)

The structure of a power sprayer with automatic pressure unloader is mostly same as a power sprayer with manual pressure regulator. Both are driven by an engine or a motor through a belt to rotate the pulley on the crankshaft and drive the connecting rods to move plungers into reciprocating motion. The rapid movement of the plungers inside the cylinder creates friction which can easily wear out plungers. An oil cup is set up above the cylinder to lubricate the plungers.

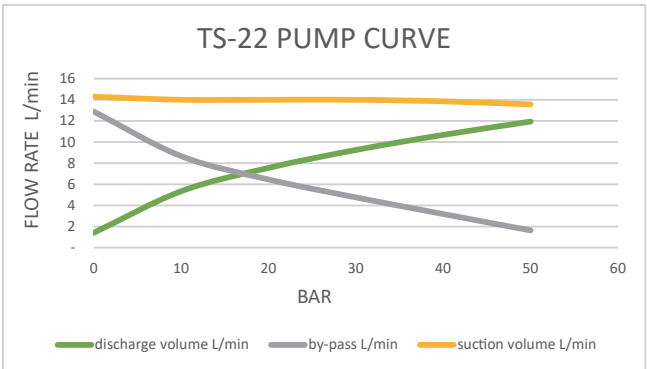
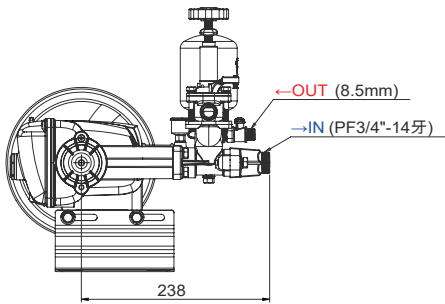
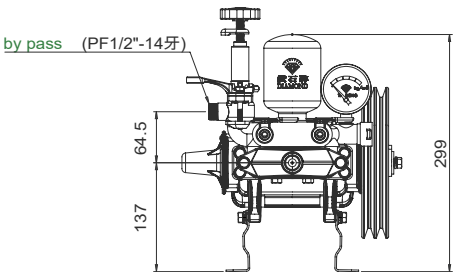
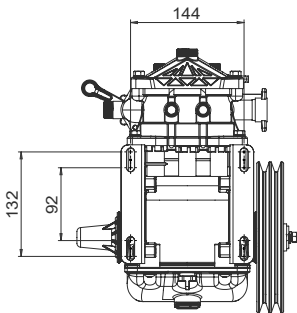
Meanwhile, the crankcase also contains lubricating oil, which is used to lubricate the moving parts inside the crankcase, including the crankshaft, connecting rods, plungers, plunger rods, and bearings. The suction and discharge of the fluid are both controlled by one-way valves to limit the flow direction.

DIAMOND's power sprayers with automatic pressure unloader are particularly suitable for use with closable pipelines. Once the entire spray pipeline is closed, the fluid pressure inside the pipeline will increase suddenly. Operations under such condition for long time will cause pipeline to burst or damage the power sprayer, also, leaving the power sprayer working at high pressure in idle is a waste of energy. Our power sprayer with automatic pressure unloader valve features pressure regulation, automatic pressure relief, and quick pressure restoration, making it highly effective in protecting equipment under challenging environments, saving energy or fuel consumption, and maintaining spray efficiency.

TS-22



Scan and get more info



Package dimensions








Model	LxWxH
TS-22	375x310x310

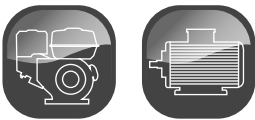
Unit: mm

About 600 units can be loaded in a standard 20-foot container.

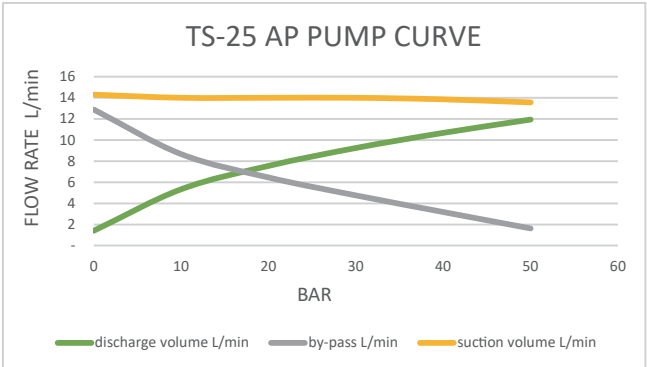
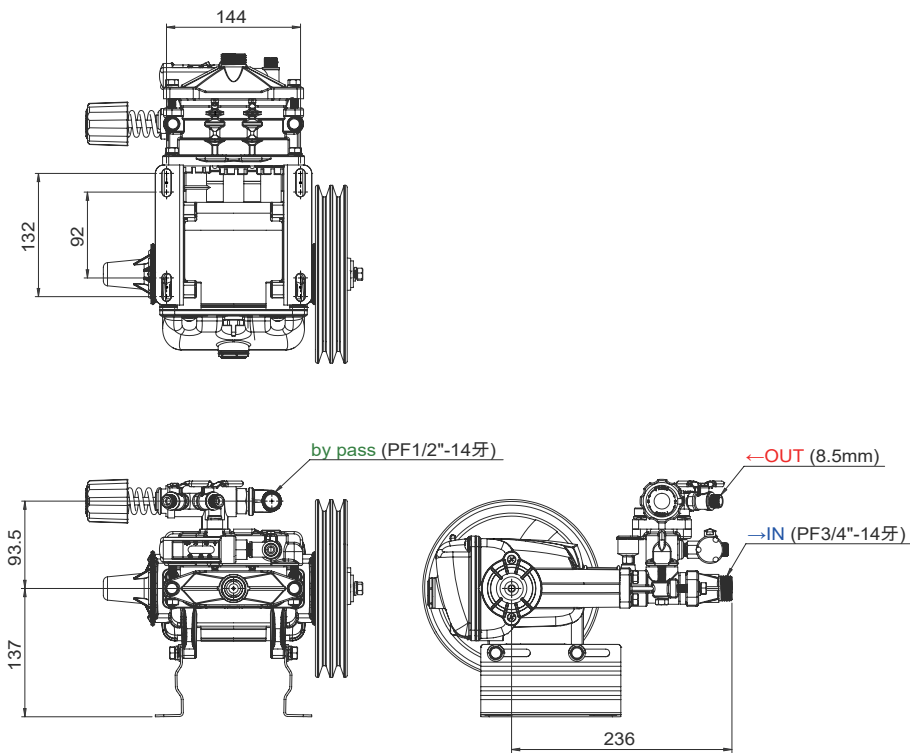
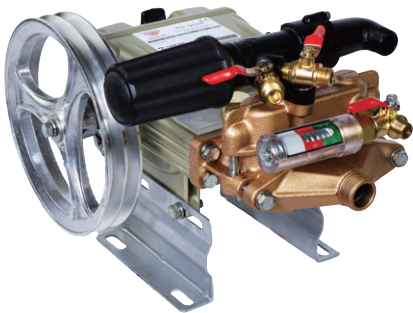
The data in the table above are tested at a nozzle aperture of 1.6mm.

Model					
TS-22	rpm	kg/cm²	l/min	Hp	kg
	800	35	14.6	1.3	9.3
		50		1.9	
	1000	35	18.2	1.6	
		50		2.3	
	1200	0~10	21.9	0.5	

TS-25 AP



Scan and get more info



Package dimensions






Model	LxWxH
TS-25AP	375x310x310

Unit: mm

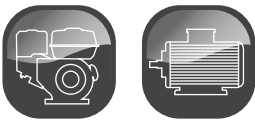
About 600 units can be loaded in a standard 20-foot container.



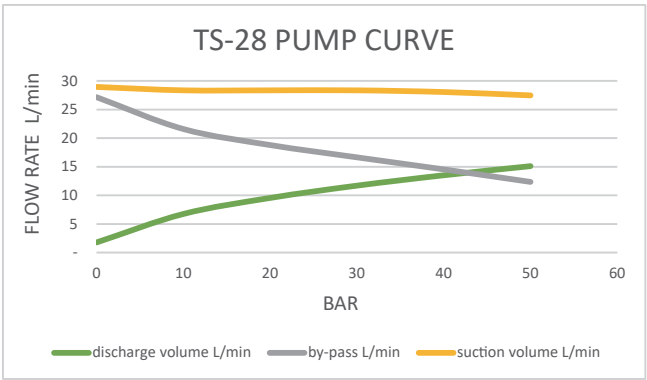
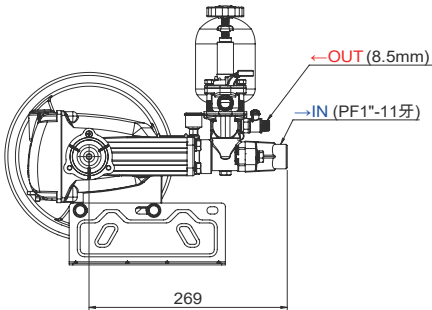
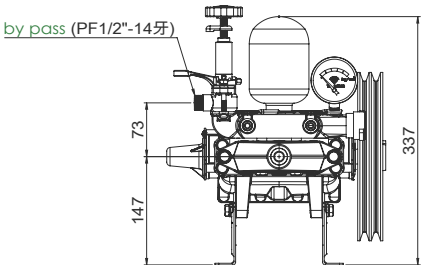
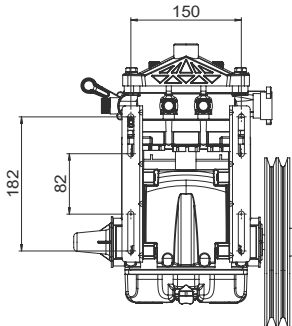
The data in the table above are tested at a nozzle aperture of 1.6mm.

Model						
TS-25 AP	rpm	kg/cm²	l/min	Hp	kg	
	800	35	14.6	1.3	9.6	
		50		1.9		
	1000	35	18.2	1.6		
		50		2.3		
	1200	0~10	21.9	0.5		

TS-28



Scan and get more info



Package dimensions








Model	LxWxH
TS-28	410×330×330

Unit: mm

About 600 units can be loaded in a standard 20-foot container.

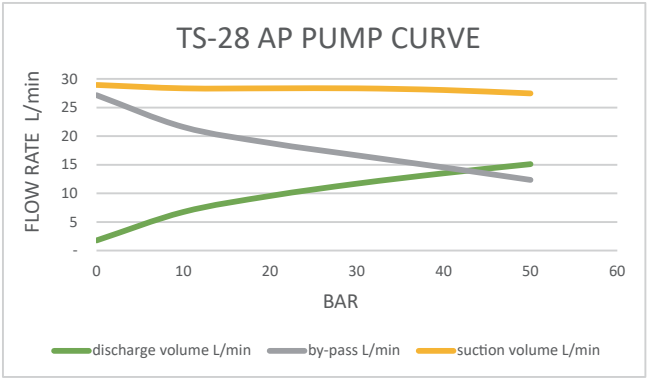
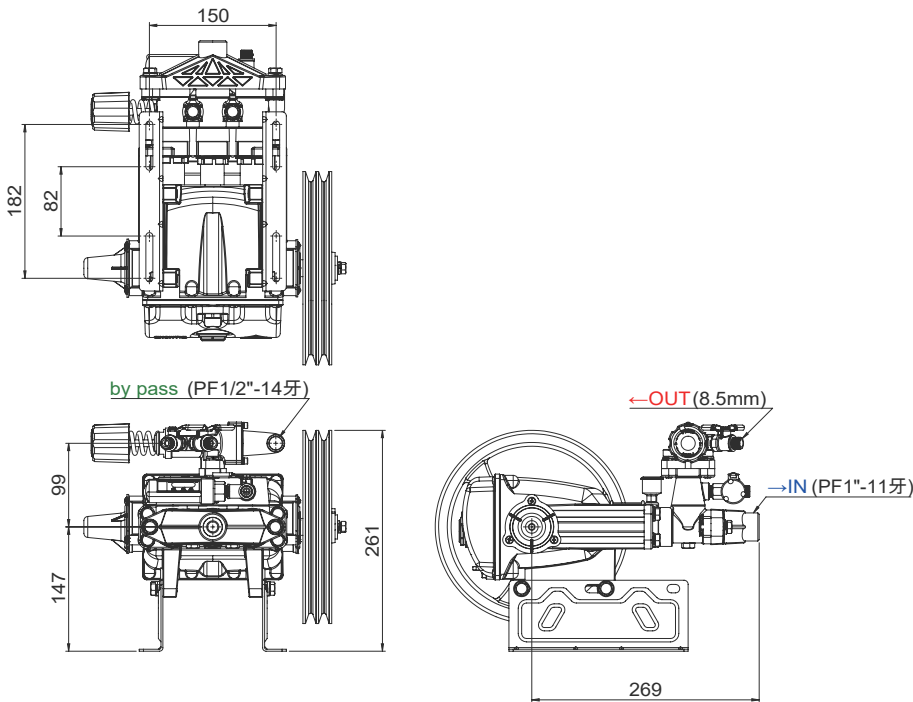
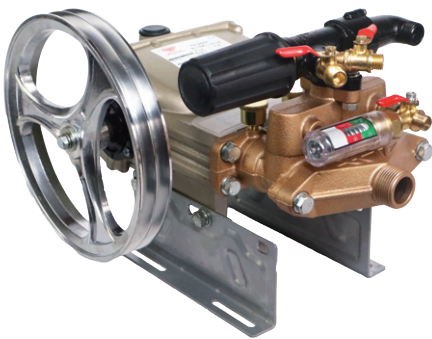
The data in the table above are tested at a nozzle aperture of 1.8mm.

Model					
TS-28	rpm	kg/cm²	l/min	Hp	kg
	800	35	29.5	2.7	12.5
		50		3.8	
	1000	35	36.9	3.3	
		50		4.8	
	1200	0~10	44.3	1.1	

TS-28 AP



Scan and get more info



Package dimensions








Model	LxWxH
TS-28 AP	410x330x330

Unit: mm

About 600 units can be loaded in a standard 20-foot container.

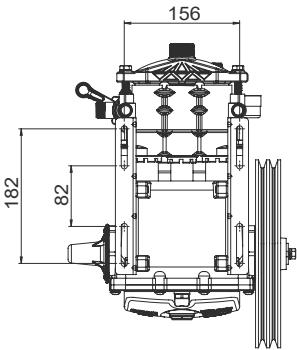
The data in the table above are tested at a nozzle aperture of 1.8mm.

Model					
TS-28 AP	rpm	kg/cm²	l/min	Hp	kg
	800	35	29.5	2.7	12.5
		50		3.8	
	1000	35	36.9	3.3	
		50		4.8	
	1200	0~10	44.3	1.1	

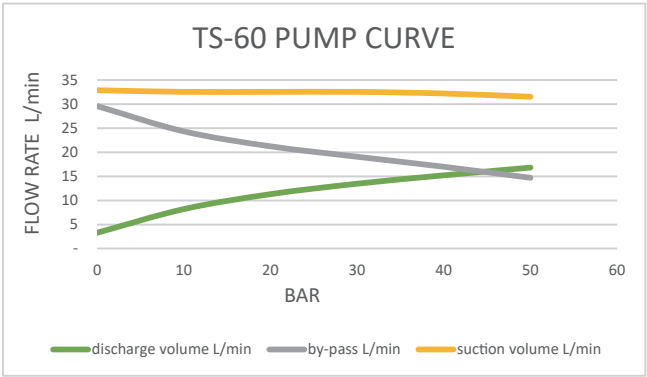
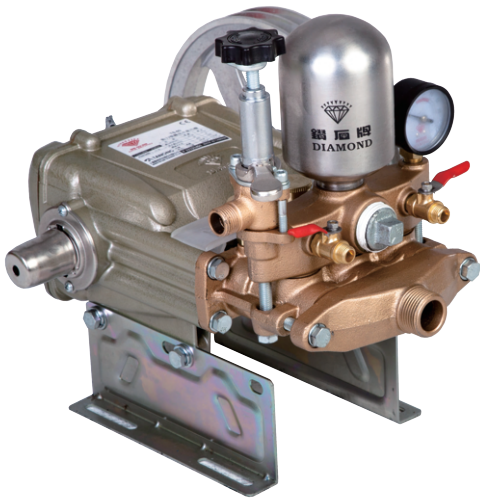
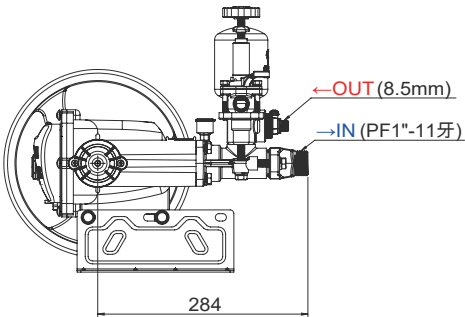
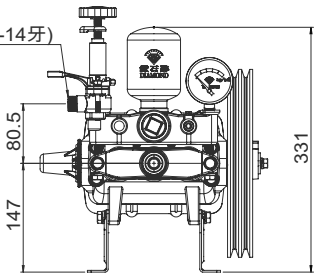
TS-60



Scan and get more info



by pass(PF1/2"-14牙)



Package dimensions








Model	LxWxH
TS-60	410x330x330

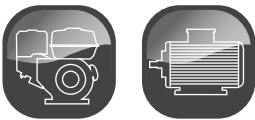
Unit: mm

About 600 units can be loaded in a standard 20-foot container.

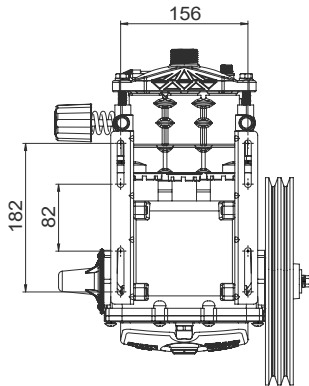
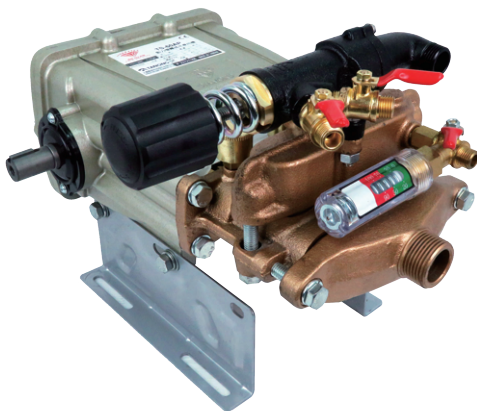
The data in the table above are tested at a nozzle aperture of 2.0mm.

Model						
TS-60	rpm	kg/cm²	l/min	Hp	kg	
	800	35	34.0	3.1	13.6	
		50		4.4		
	1000	35	42.4	3.9		
		50		5.5		
	1200	0~10	50.9	1.3		

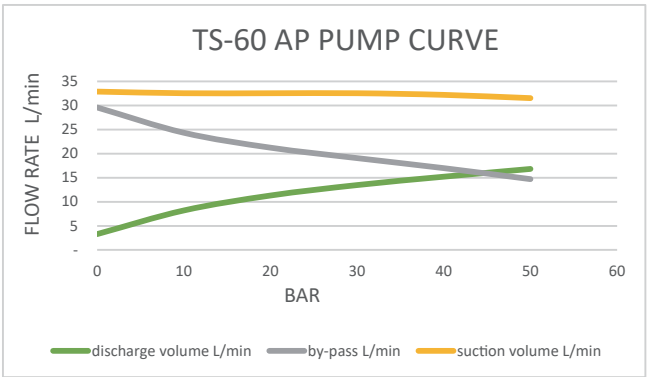
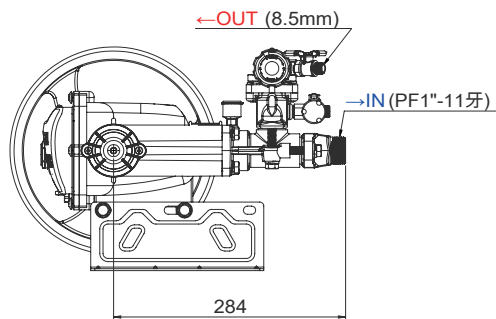
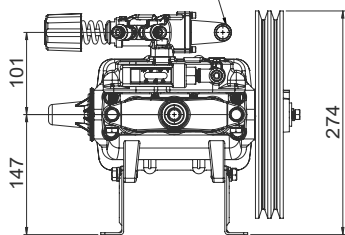
TS-60 AP



Scan and get more info



by pass (PF1/2"-14牙)



Package dimensions








Model	LxWxH
TS-60 AP	410x330x330

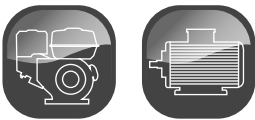
Unit: mm

About 600 units can be loaded in a standard 20-foot container.

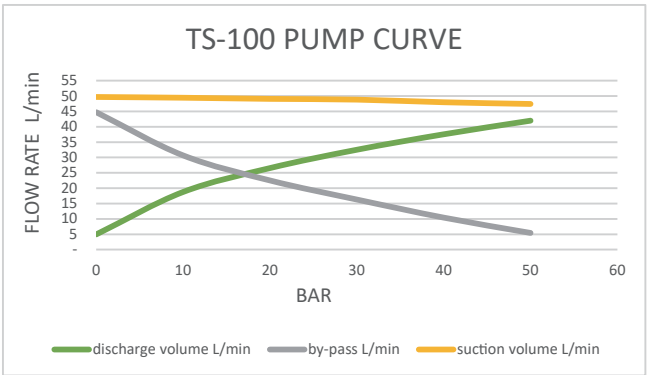
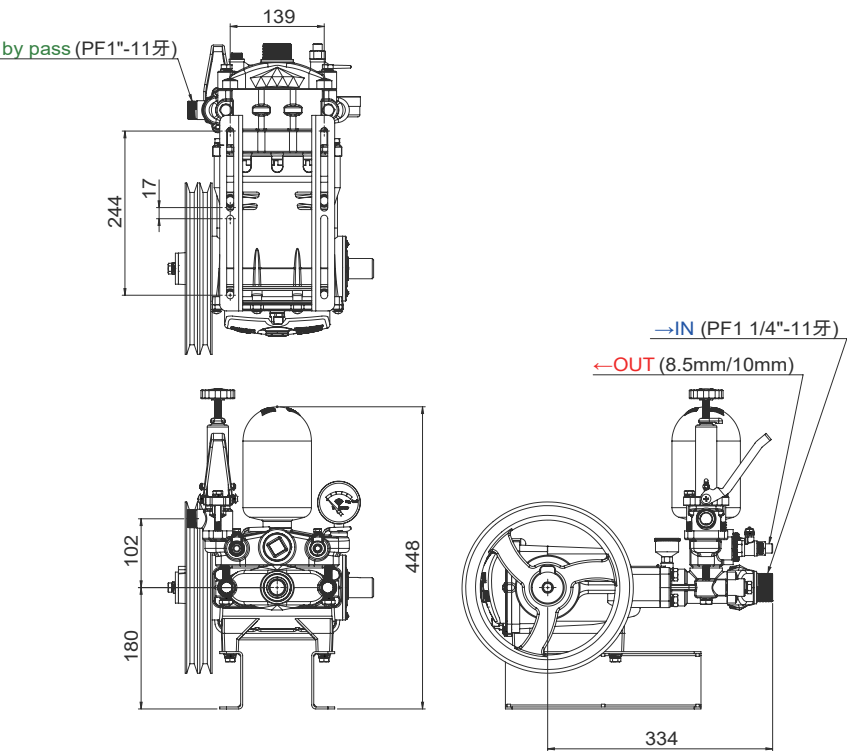
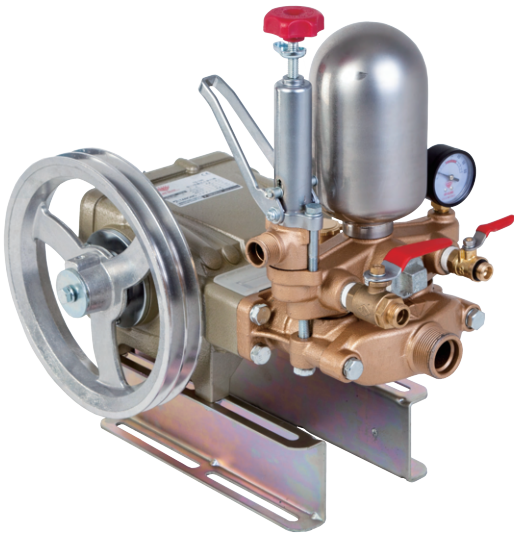
The data in the table above are tested at a nozzle aperture of 2.0mm.

Model						
TS-60 AP	rpm	kg/cm²	l/min	Hp	kg	
	800	35	34.0	3.1	13.6	
		50		4.4		
	1000	35	42.4	3.9		
		50		5.5		
	1200	0~10	50.9	1.3		

TS-100



Scan and get more info








Package dimensions



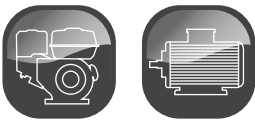
Model	LxWxH
TS-100	490×340×480

Unit: mm

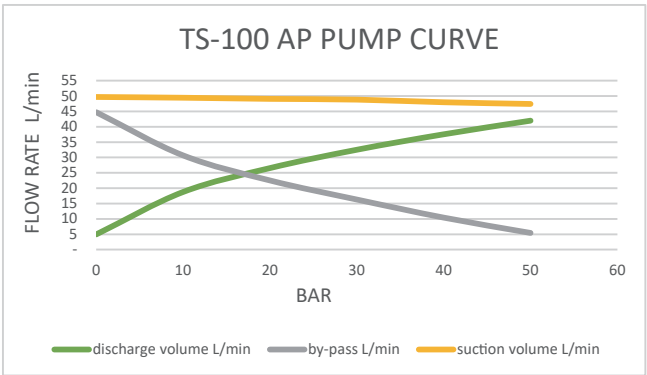
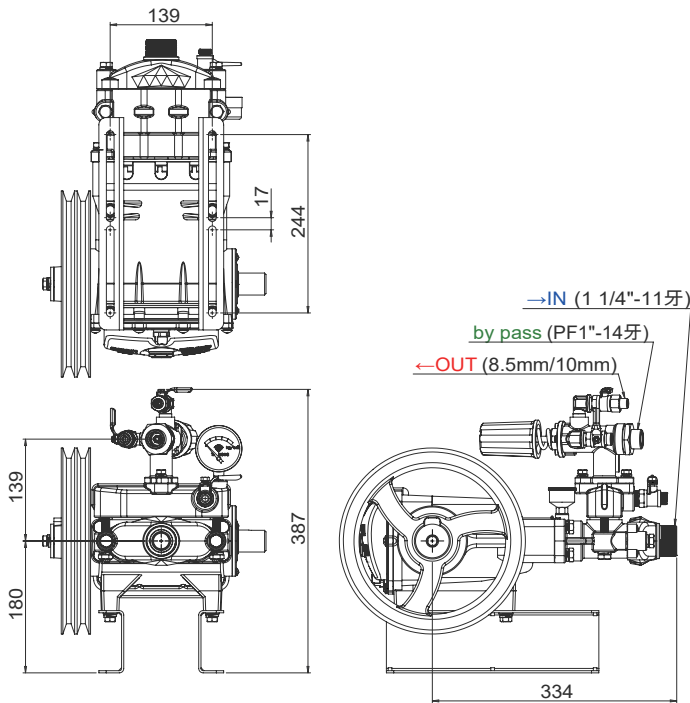
The data in the table above are tested at a nozzle aperture of 3.0mm.

Model					
TS-100	rpm	kg/cm²	l/min	Hp	kg
	700	35	54.0	4.9	23.8
		50		7.1	
	800	35	61.7	5.6	
		50		8.1	
	1000	0~10	77.2	2.0	

TS-100 AP



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

Package dimensions

Model	LxWxH
TS-100 AP	490×340×480

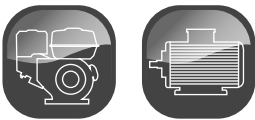
Unit: mm



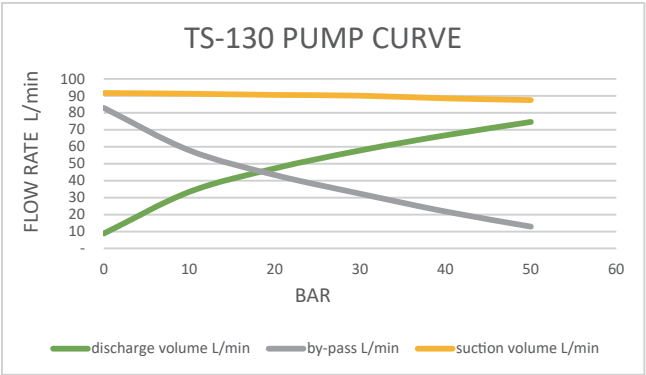
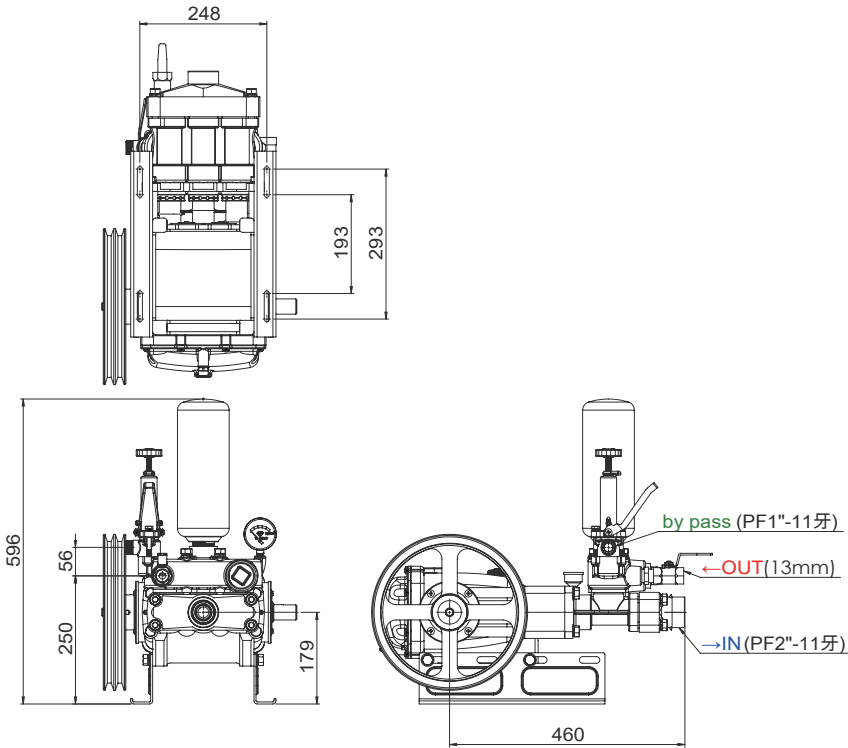
The data in the table above are tested at a nozzle aperture of 3.0mm.

Model					
TS-100 AP	rpm	kg/cm²	l/min	Hp	kg
	700	35	54.0	4.9	22.7
		50		7.1	
	800	35	61.7	5.6	
		50		8.1	
	1000	0~10	77.2	2.0	

TS-130



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Package dimensions



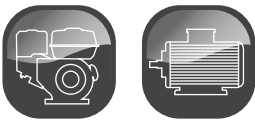
Model	LxWxH
TS-130	650x450x480

Unit: mm

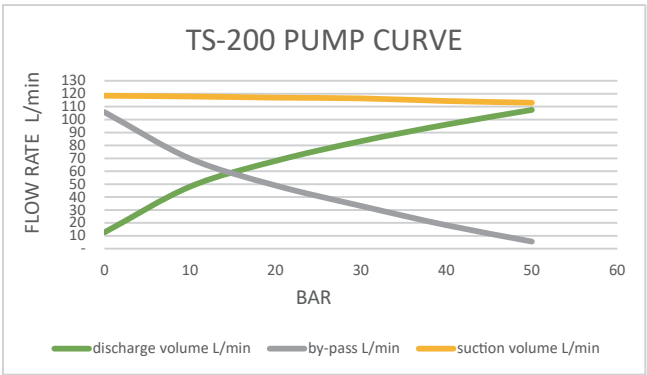
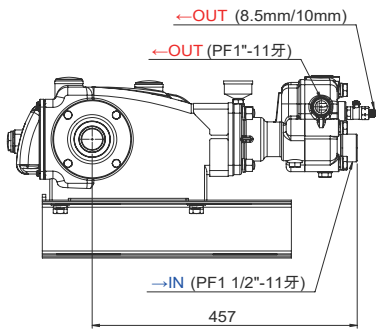
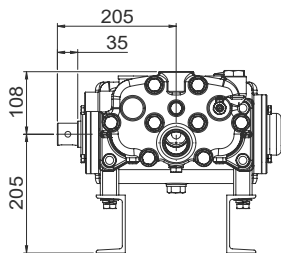
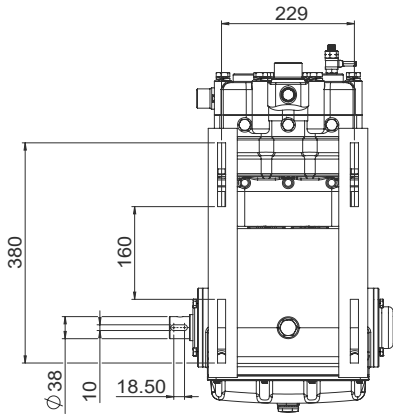
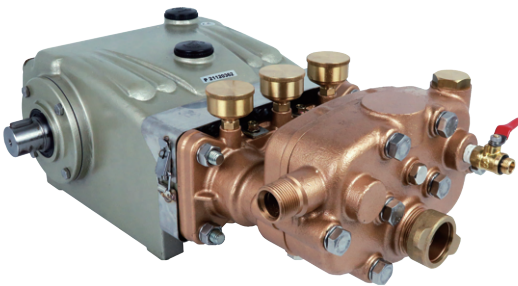
The data in the table above are tested at a nozzle aperture of 4.0mm.

Model						
TS-130	rpm	kg/cm²	l/min	Hp	kg	
	600	35	99.7	9.1	44.0	
		50		13.1		
	700	35	116.3	10.7		
		50		15.3		
	850	0~10	141.2	3.7		

TS-200



Scan and get more info



Package dimensions



Model	LxWxH
TS-200	1820x740x550

Unit: mm

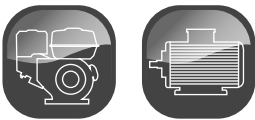
This product is packed in wooden boxes.
Packaging specifications are specified by customers.

The data in the table above are tested at a nozzle aperture of 4.8mm.

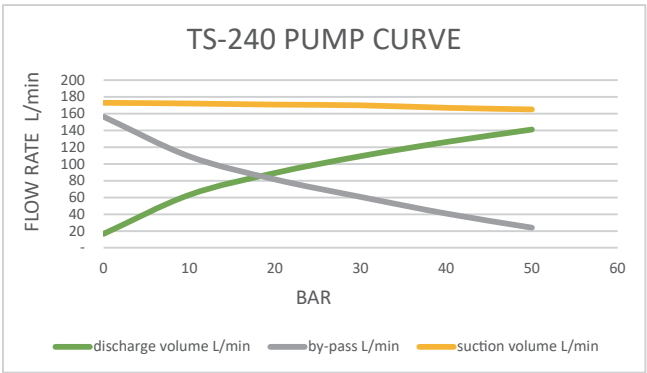
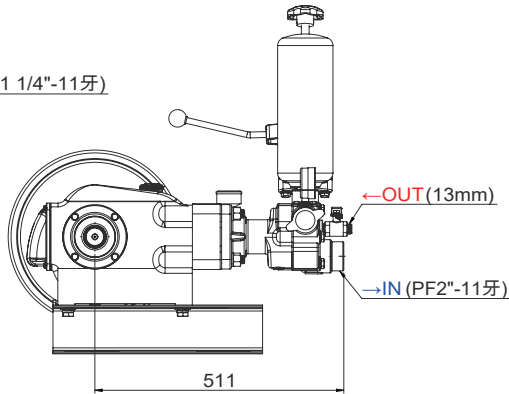
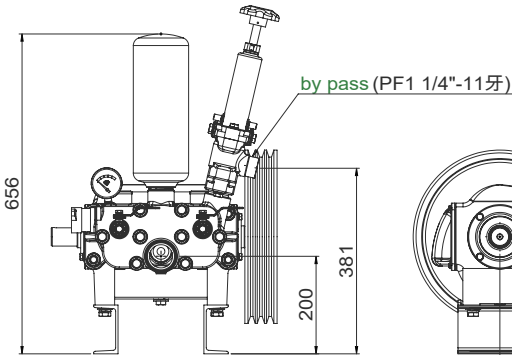
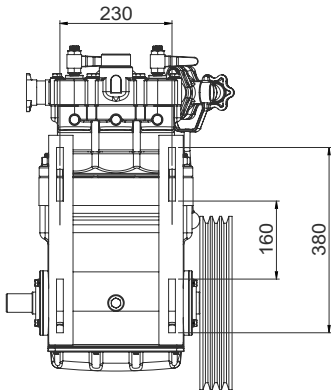
Model					
TS-200	rpm	kg/cm²	l/min	Hp	kg
	600	35	128.8	11.8	53.3
	800	0~10	171.6	4.5	

P.S. The maximum speed of the sprayer should not exceed 800 RPM

TS-240



Scan and get more info



Package dimensions








Model	LxWxH
TS-240	840x620x920

Unit: mm

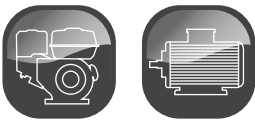
This product is packed in wooden boxes.
Packaging specifications are specified by customers.

The data in the table above are tested at a nozzle aperture of 5.5mm.

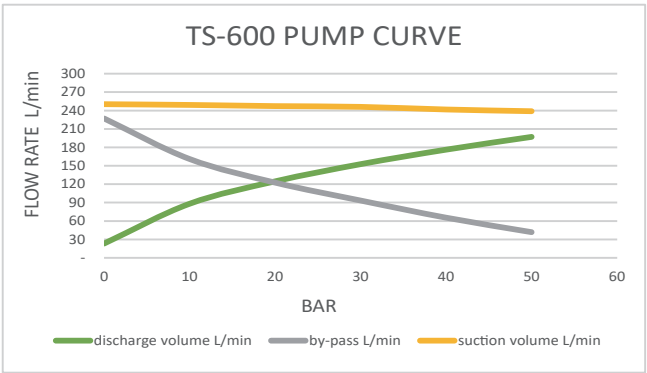
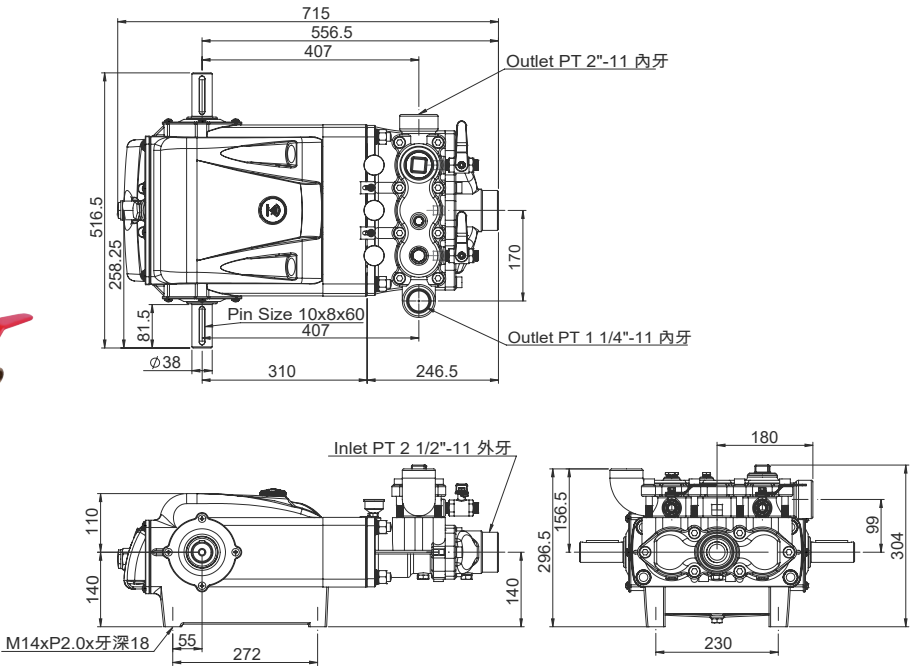
Model					
TS-240	rpm	kg/cm²	l/min	Hp	kg
	600	35	188.0	17.3	87.0
	800	0~10	250.8	6.6	

P.S. The maximum speed of the sprayer should not exceed 800 RPM

TS-600



Scan and get more info



Package dimensions






Model	LxWxH
TS-600	1600x870x530

Unit: mm

This product is packed in wooden boxes.
Packaging specifications are specified by customers.

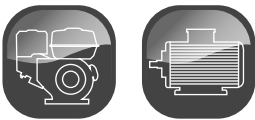


The data in the table above are tested at a nozzle aperture of 6.5mm.

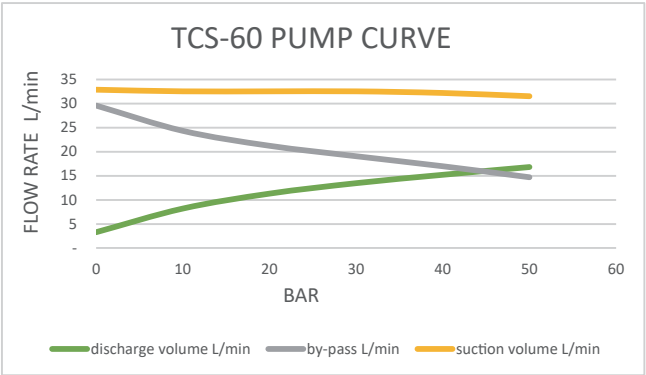
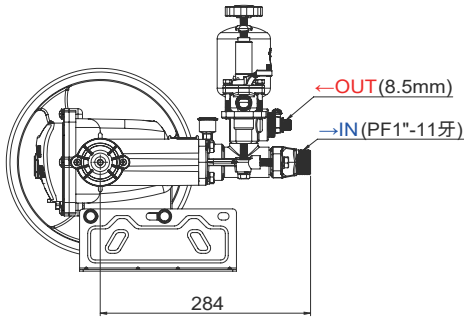
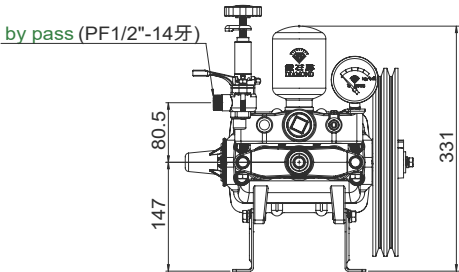
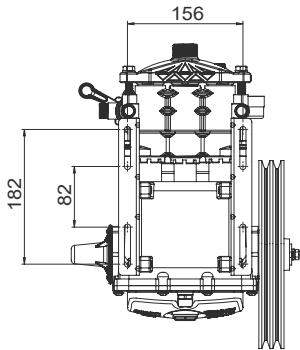
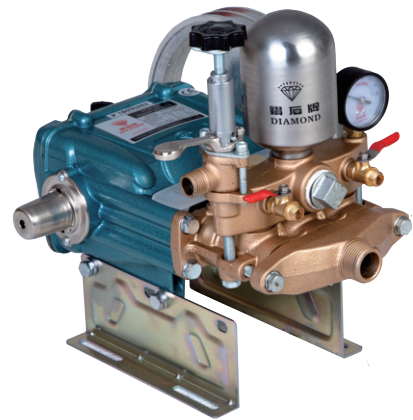
Model					
TS-600	rpm	kg/cm²	l/min	Hp	kg
	600	35	272	25.0	76.8
	800	0~10	362.8	9.5	

P.S. The maximum speed of the sprayer should not exceed 800 RPM

TCS-60



Scan and get more info








Package dimensions



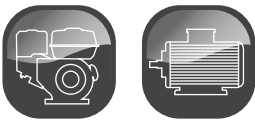
Model	LxWxH
TCS-60	410×330×330

Unit: mm

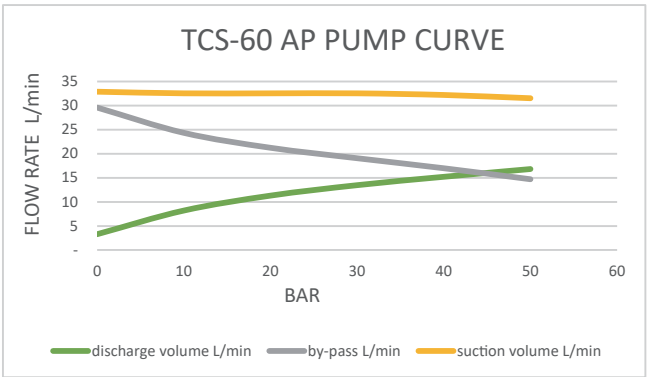
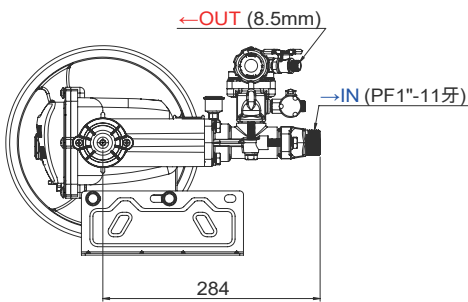
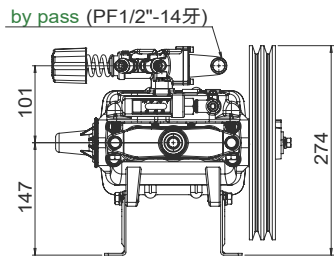
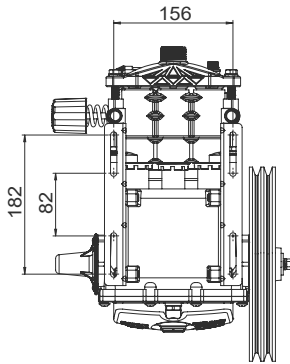
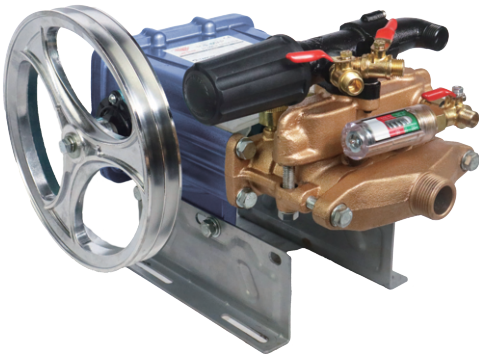
The data in the table above are tested at a nozzle aperture of 2.0mm.

Model					
TCS-60	rpm	kg/cm²	l/min	Hp	kg
	800	35	34.0	3.1	13.9
		50		4.4	
	1000	35	42.4	3.9	
		50		5.5	
	1200	0~10	50.9	1.3	

TCS-60 AP



Scan and get more info








Package dimensions

Model	LxWxH
TCS-60 AP	410×330×330

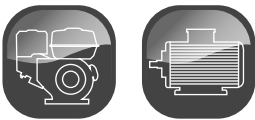
Unit: mm



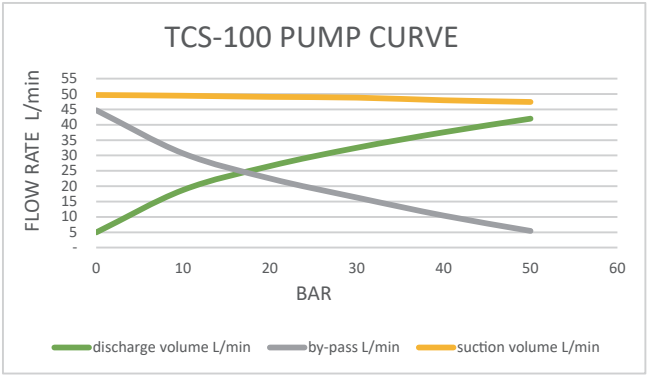
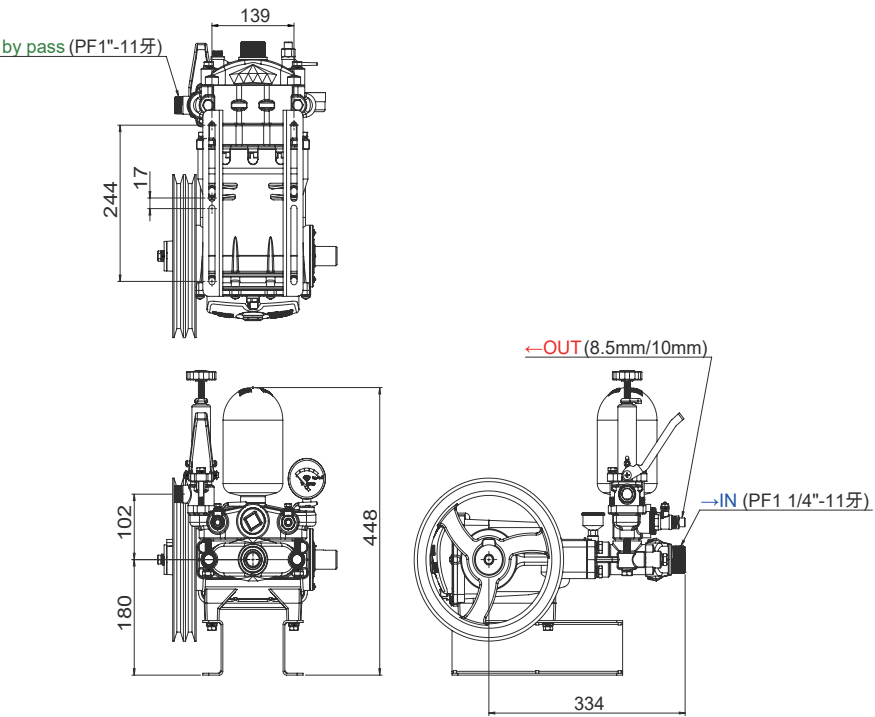
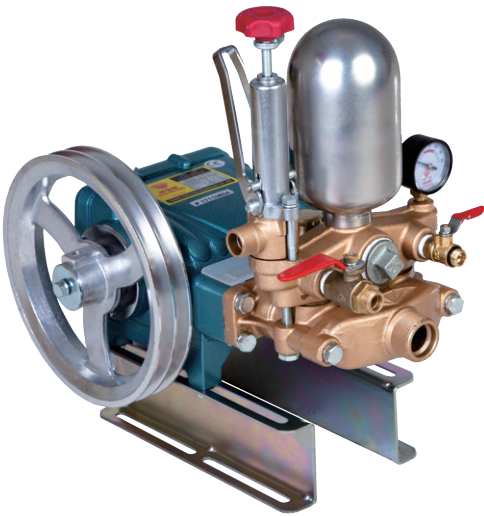
The data in the table above are tested at a nozzle aperture of 2.0mm.

Model						
TCS-60 AP	rpm	kg/cm²	l/min	Hp	kg	
	800	35	34.0	3.1	13.9	
		50		4.4		
	1000	35	42.4	3.9		
		50		5.5		
	1200	0~10	50.9	1.5		

TCS-100



Scan and get more info








Package dimensions

Model	LxWxH
TCS-100	480×340×480

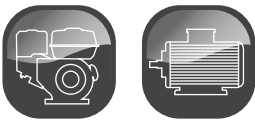
Unit: mm



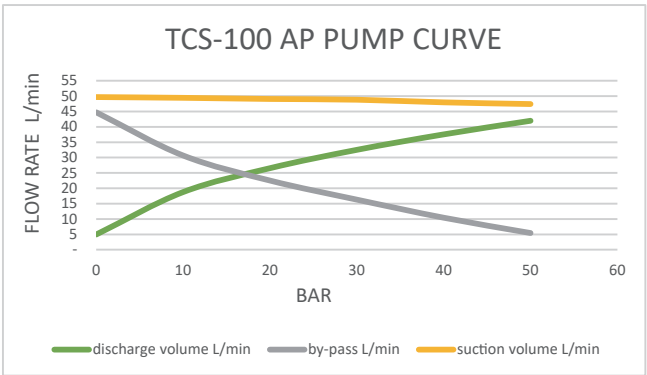
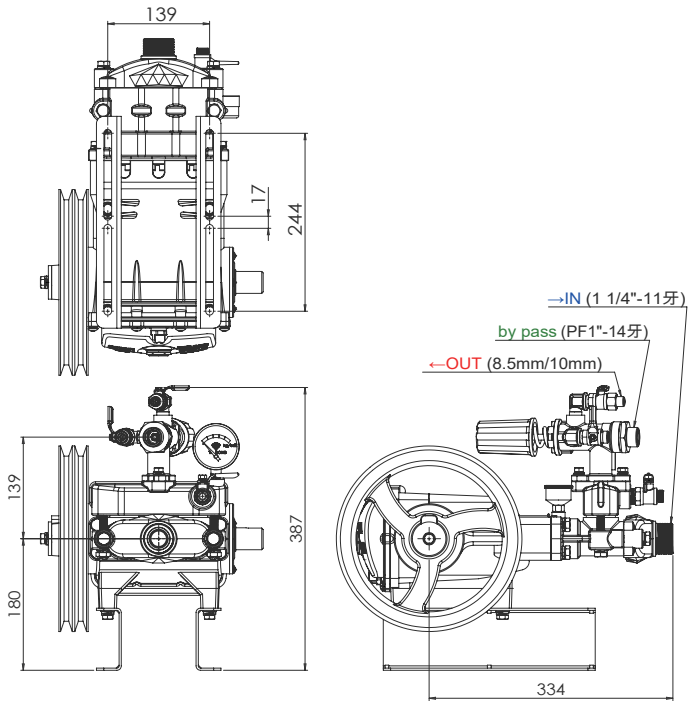
The data in the table above are tested at a nozzle aperture of 3.0mm.

Model					
TCS-100	rpm	kg/cm²	l/min	Hp	kg
	700	35	54.0	4.9	23.8
		50		7.1	
	800	35	61.7	5.6	
		50		8.1	
	1000	0~10	77.1	2.0	

TCS-100 AP



Scan and get more info








Package dimensions

Model	LxWxH
TCS-100 AP	480×340×480

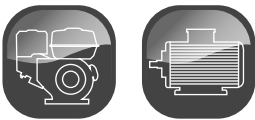
Unit: mm



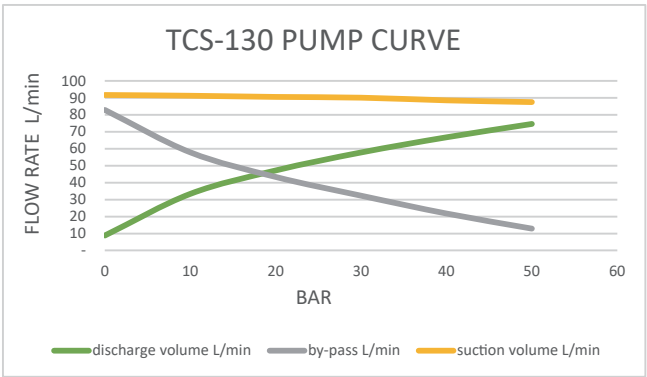
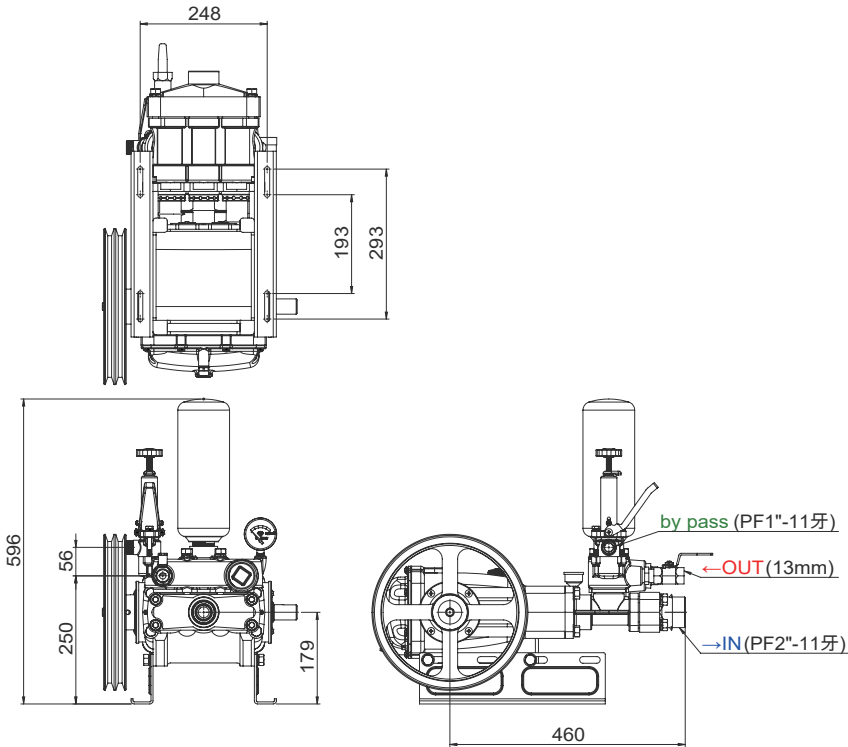
The data in the table above are tested at a nozzle aperture of 3.0mm.

Model					
TCS-100 AP	rpm	kg/cm²	l/min	Hp	kg
	700	35	54.0	4.9	22.7
		50		7.1	
	800	35	61.7	5.6	
		50		8.1	
	1000	0~10	77.1	2.0	

TCS-130



Scan and get more info








Package dimensions



Model	L×W×H
TCS-130	650×450×480

Unit: mm

The data in the table above are tested at a nozzle aperture of 4.0mm.

Model					
TCS-130	rpm	kg/cm²	l/min	Hp	kg
	600	35	99.7	9.1	44.0
		50		13.1	
	700	35	116.2	10.7	
		50		15.3	
	850	0~10	141.2	3.7	



TWO-WAY POWER SPRAYER SERIES



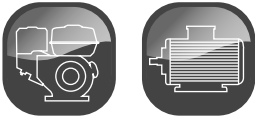
TWO-WAY POWER SPRAYER Overview

The Two-Way power sprayer is designed for high-performance spraying applications. It incorporates innovative technology and optimized design to meet various needs. The latest release, TS-6000, as the first model in the series, features the following key advantages:

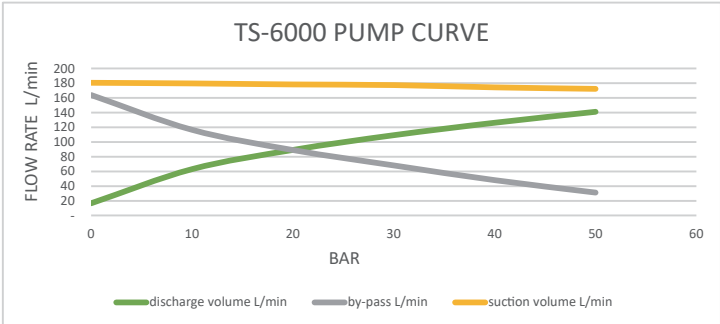
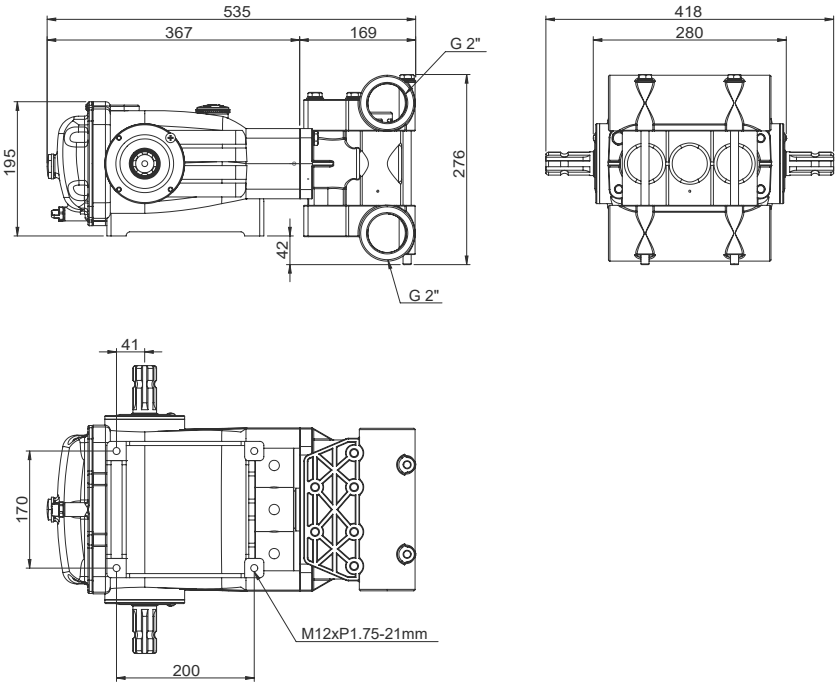
- Lightweight Aluminum Die casting Design
- Compact Size with High Flow Rate
- Grease-Free Design
- New Single-Pillar Dual-Cylinder Sealing System
- Versatile power connection compatibility

The Two-Way power sprayer adheres to the principles of high efficiency, lightweight design, low maintenance, and adaptable power options. It offers a superior choice for the sprayer equipment market.

TS-6000



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

Package dimensions

Model	LxWxH
TS-6000	575x450x3400

Unit: mm



The data in the table above are tested at a nozzle aperture of 5.5mm.

Model					
TS-6000	rpm	kg/cm²	l/min	Hp	kg
	550	35	166.0	15.5	35.6
	650		196.4	18.5	
	800	0~10	241.6	6.5	



POWER SPRAYER (Direct Driven) SERIES



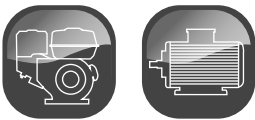
History of Direct-driven power sprayer

The surrounding environment of a working power sprayer has always been relatively harsh. Considering the corrosiveness of the spraying chemical and the contamination of the liquid solution, and the sustainable running speed of the water seal system is limited by material technology, the operating speed of the power sprayer is generally between 600 and 1200 RPM. Moreover, a certain lubricating grease is needed to add periodically to prevent premature leakage caused by excessive wear. Compared to the high RPM of motors or engines, which typically exceed 1500 RPM, conventional sprayers usually reduce their operating speeds by using different ratios of pulleys.

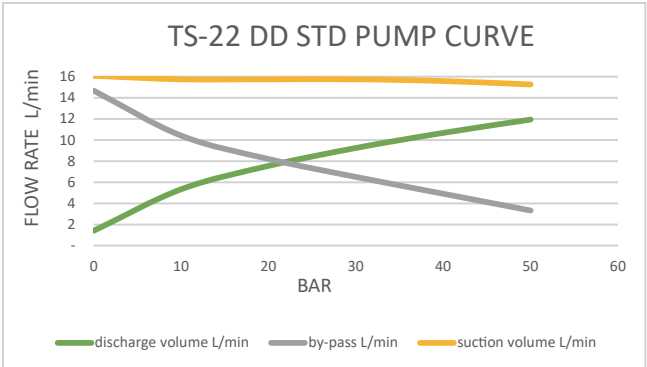
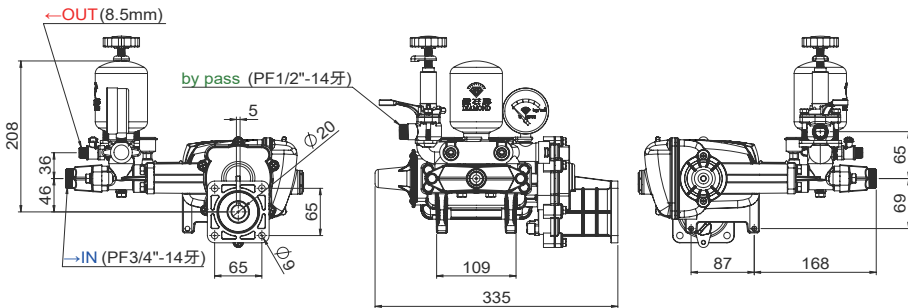
However, this approach usually lead to wear and tear between belts and pulleys, as well as potential injury caused by accidental entanglement by belts and pulleys. Not to mention the overall size of the sprayer unit is always enlarged and making it challenging to move the whole unit.

With the progression of gear technology, Tanong has successfully developed a 1:4 ratio gearbox and implemented it to our TS series power sprayers. This design significantly reduces the size of sprayer unit, eliminates the risk of belt entanglement injury, and gives way to use of less expensive high-speed engines or two-pole motors by increased efficiency of power transmission. Leading to a substantial reduction in operating costs of consumables and energy consumption.

TS-22 DD STD



Scan and get more info








The data in the table above are tested at a nozzle aperture of 1.6mm.

Package dimensions

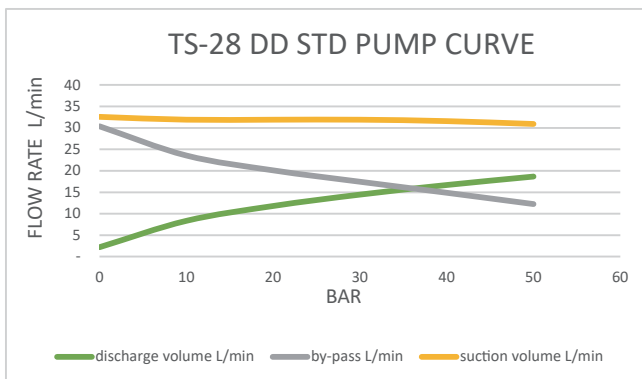
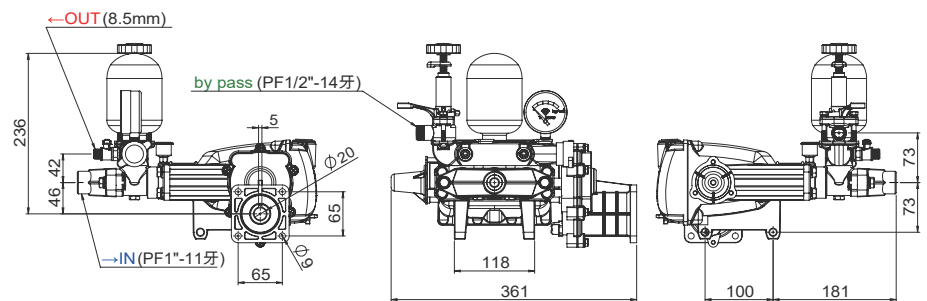
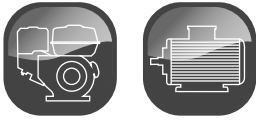
Model	LxWxH
TS-22 DD STD	400×375×300

Unit: mm








Model					
TS-22 DD STD	rpm	kg/cm²	l/min	Hp	kg
	900	45	16.4	1.9	11.5

The RPM listed above is matched with general engine of 3600 rpm



Model	L×W×H
TS-28 DD STD	400×375×300

Unit: mm

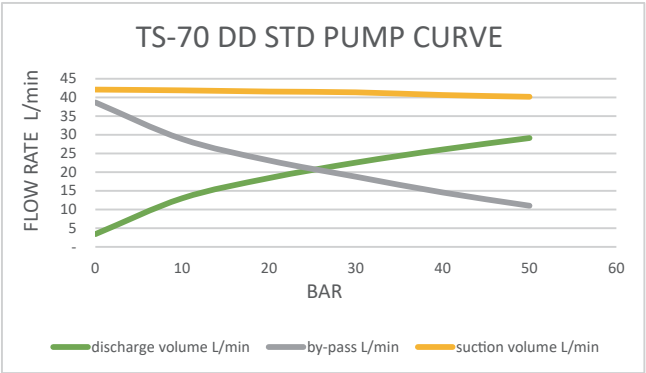
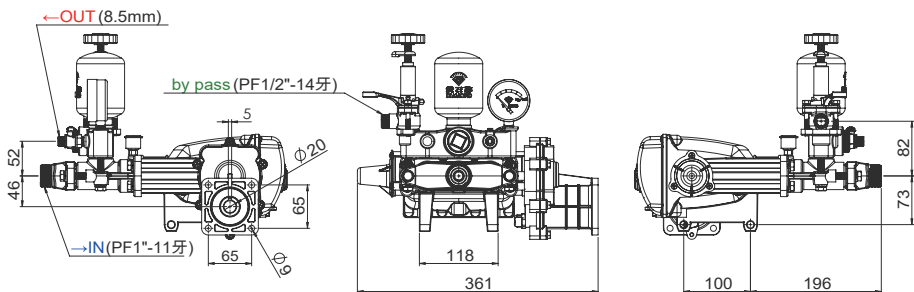
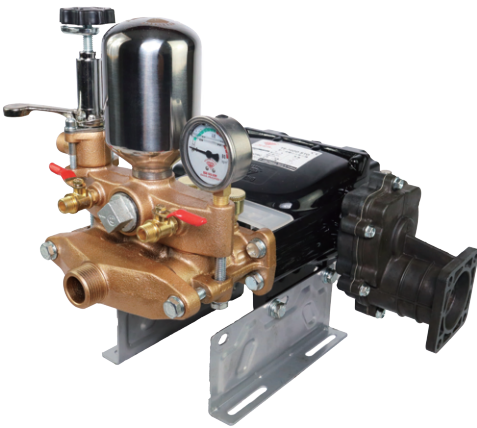
Model					
TS-28 DD STD	rpm	kg/cm²	l/min	Hp	kg
	900	45	33.3	3.9	13.1

The RPM listed above is matched with general engine of 3600 rpm

TS-70 DD STD



Scan and get more info








Package dimensions

Model	LxWxH
TS-70 DD STD	400x375x300

Unit: mm

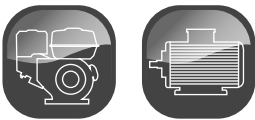


The data in the table above are tested at a nozzle aperture of 2.5mm.

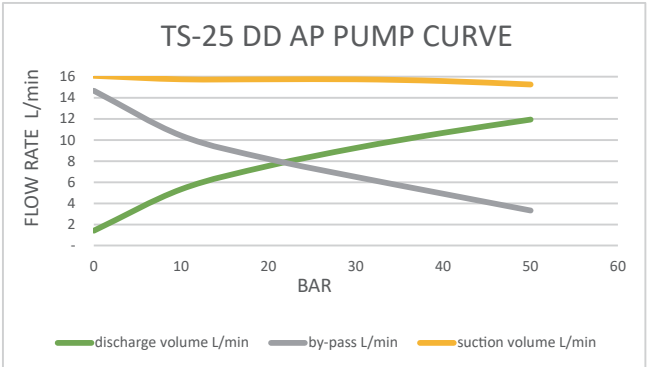
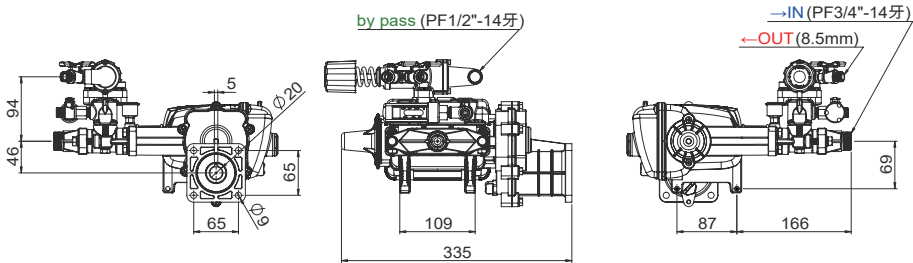
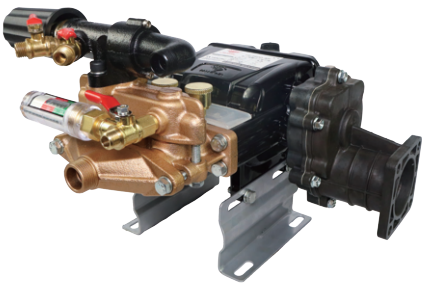
Model					
TS-70 DD STD	rpm	kg/cm²	l/min	Hp	kg
	900	45	45.8	5.4	15.6

The RPM listed above is matched with general engine of 3600 rpm

TS-25 DD AP



Scan and get more info








Package dimensions

Model	LxWxH
TS-25 DD AP	400x375x300

Unit: mm

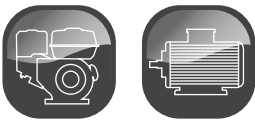


The data in the table above are tested at a nozzle aperture of 1.6mm.

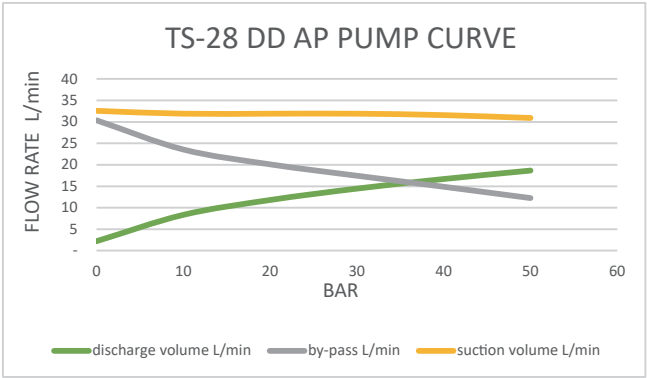
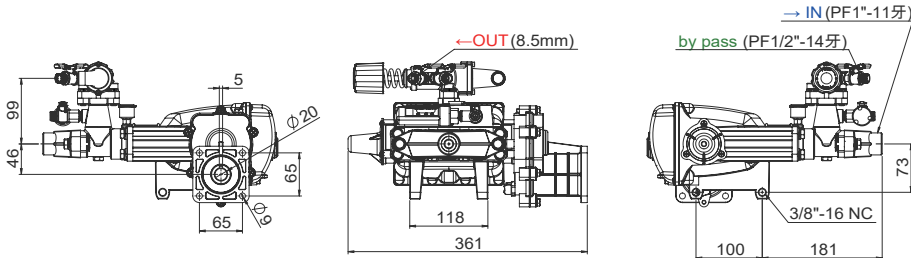
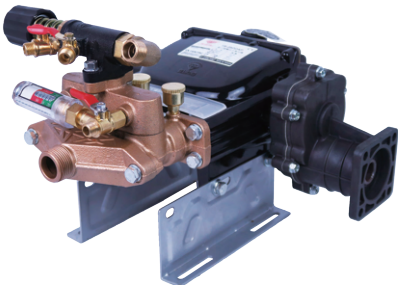
Model					
TS-25 DD AP	rpm	kg/cm²	l/min	Hp	kg
	900	45	16.4	1.9	12.9

The RPM listed above is matched with general engine of 3600 rpm

TS-28 DD AP



Scan and get more info








Package dimensions

Model	LxWxH
TS-28 DD AP	400x375x300

Unit: mm



The data in the table above are tested at a nozzle aperture of 2.0mm.

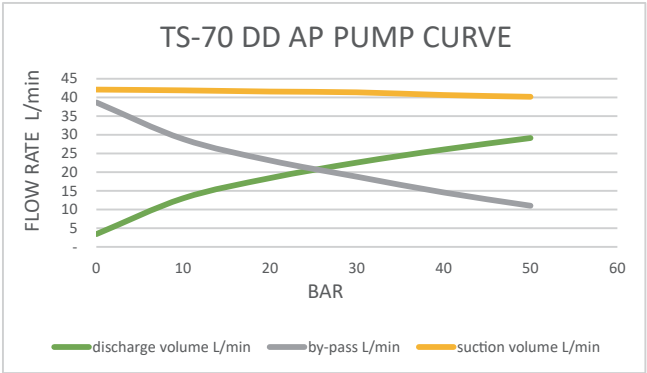
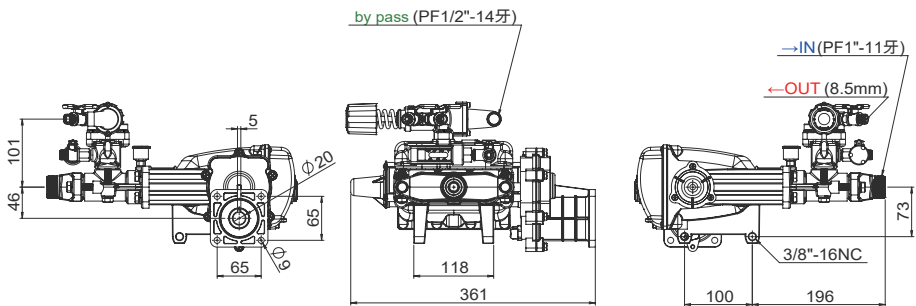
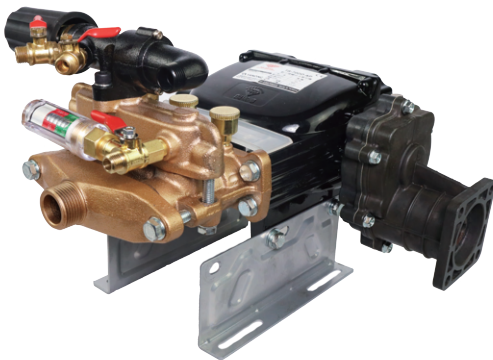
Model					
TS-28 DD AP	rpm	kg/cm²	l/min	Hp	kg
	900	45	33.3	3.9	12.9

The RPM listed above is matched with general engine of 3600 rpm

TS-70 DD AP



Scan and get more info








The data in the table above are tested at a nozzle aperture of 2.5mm.

Package dimensions

Model	LxWxH
TS-70 DD AP	400x375x300

Unit: mm



Model					
TS-70 DD AP	rpm	kg/cm²	l/min	Hp	kg
	900	45	45.8	5.4	15.6

The RPM listed above is matched with general engine of 3600 rpm

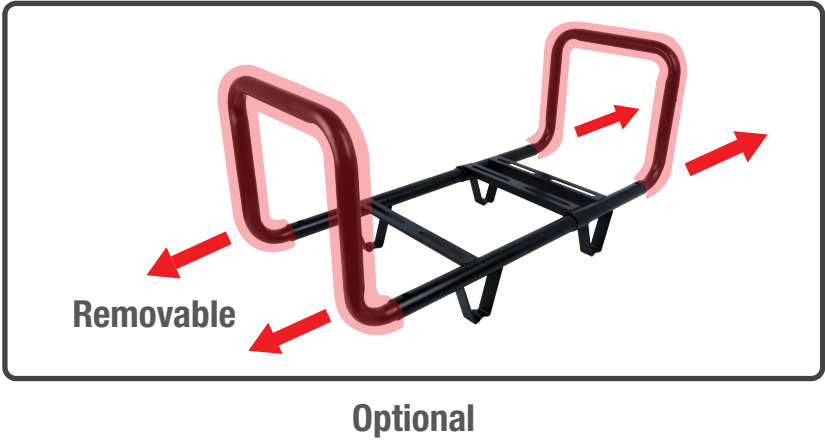
Plane Frame Style

DIRECT-DRIVEN POWER SPRAYER WITH REDUCTION GEARBOX AND FRAME



Features

- 1. Reduction gearbox design with high driving-efficiency.
- 2. Work without consumable parts such as V-belt and pulley.
- 3. Low noise and high safety.
- 4. Compact design for easy storage and high mobility.



Trolley Style (W / W0 Hose Reel)

DIRECT-DRIVEN POWER SPRAYER WITH REDUCTION GEARBOX

- Trolley Style A equipped with tank of capacity of 100 Liter.
- All trolley styles can be equipped with either standard or automatic pressure release type of power sprayers.

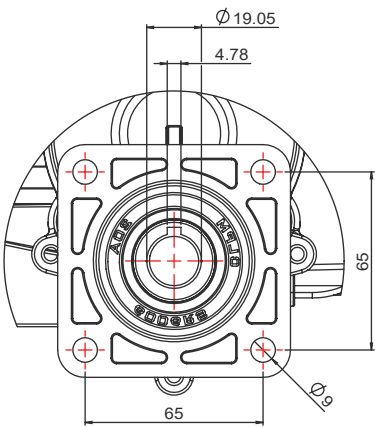
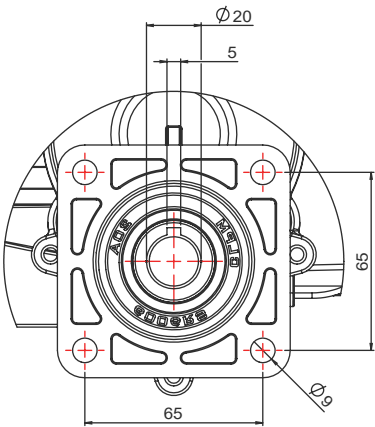


MODEL	DD series	DD series (Plane frame type)	DDE (or M)	DDE (or M) (Plane frame type)	DDE (or M) (Trolley frame type) with Hose Reel	DDE (or M) (Trolley frame type) without Hose Reel

Reduction Gear Box

- Gear ratio 4 : 1
- Oil capacity 0.22 L

Models	Engine power	Draft shaft Ø	Pump shaft Ø	Weight
GB-1	1.6 hp	15.8 mm	20 mm	2055 g
GB-2	5.5 /6.5hp	19.5 mm/20 mm	20 mm	2055 g



- Ø20 or Ø19.05 shaft for GX160 engine or equivalent.
- Other sizes are available at request.



- Gear processed with special hardening treatment.

Pressure gauge



Pressure gauge
(straight)



Glycerin pressure gauge



Pressure gauge
(Standard)

Models	Maximum pressure
	kg/cm ²
Glycerin pressure gauge	100/250/500
pressure gauge (straight)	100
pressure gauge	60/100

Water seal

Ball valve / Ball valve seat

Material
NBR
NBR (fiber)
Viton



Ball valve	TS22/28/60/100
Ball valve seat	TS22/28/60/100

 Ceramic



Suction/Overflow hose

Models	suction hose dia.	overflow hose dia.	standard lenth	optional length
TS-22/25	3/4"	1/2"	2.5 M	3.6 M/4.5 M
TS-28/60	1"		2.7 M	
TS-100	1 1/4"			
TS-130	1 3/4"	3/4"		
TS-240		1 1/4"		



Crank case

Options of color



Different colors are available at request of MOQ 200



Plunger



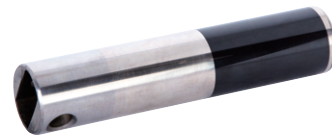
Chrome plated stainless steel plunger



Nitrided stainless steel plunger



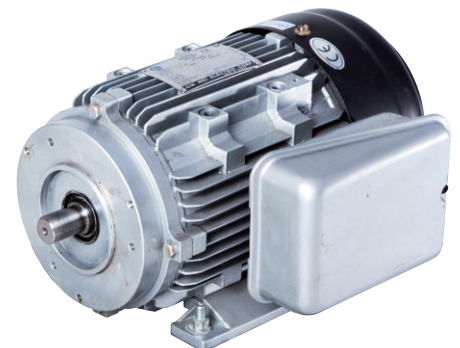
Ceramic plunger



Plasma spray ceramic plunger

Motor

Horse power	Phase	Insulation level	Frame
HP			
1.0	1	E	90
1.5			
2.0			
2.5			100
3.0			
3.5			
5.0			132S
1.0	3	F	90
2.0			
2.5			
3.0			100
3.5			
5.0			
7.5			132S



■ 50/60 Hz 100~240V (380/440V at request)



鑽石牌
DIAMOND®

ACCESSORY SHOP

Get Your Own Diamond

Made in Taiwan

***Diamond row spray accessories look the same as other unbranded items.
How to distinguish and choose?***



Made in Taiwan



Others Made in China



Why DIAMOND Accessory Shop is created ?

In the world of agricultural and livestock, helping customers in selecting correct, high-quality, and user friendly spraying tools is proved to be an effective way to win farmers' trust in the sales channels.

DIAMOND Accessory Shop aims to establish a well-known and trustworthy brand that can be recognized by public.



Building a brand

A trustworthy brand

Allowing distributors and end users to identify reliable products among all quality-uncertain accessories in the market.



Building a brand

Providing high-quality power sprayers and durable accessories

Engaging in extensive communication with end-users from different regions and continuous improvement.

Introducing only the accessories with reliable quality.



Building a brand

Promoting brand awareness to create DIAMOND-only purchase

Utilizing the latest social media to facilitate sharing of user experiences and product knowledge, leading users to go to the store and make Diamond brand-only purchase.

Let us build a trustworthy Diamond Accessory Shop

Employing social media and advertising to help distributors pulling customers to sales points.



YouTube advertisement

Providing precise and vivid product features to potential consumers to increase brand exposure and awareness.



Facebook interactive advertisement

Creating interactive activities to generate interest and responses from potential consumers of spraying accessories, thereby enhancing sales realization.



Google SEM advertisement

Employing precise advertisement targeting potential consumers of spraying accessories, and guide them to web link or product pages to realize purchase.

Once joining the DIAMOND Accessory Shop Franchise system



Brand promotion

We will align with regional agents and distributors to organize annual or seasonal promotion events.
These promotional activities will be planned according to local sales season and accessory needs.
Complimentary gifts for such promotions will be supported.



Social share

Interactive with viewers on social media allows for precise collection of consumer information.
By nurturing these consumers, they can become community influencers and reliable brand advocates.
We will target influential individuals from diverse backgrounds and share the insights gained from this community with franchisees and distributors.

Brand promotion materials selection



POS visual effect for Brand promotion/ Image Value



Multi-functional Display Area

- ✔ Provide wide range of product selection and product information services to in-store customers.
- ✔ A unified visual concept enhances brand trust with customers.
- ✔ Also distinguishes DIAMOND brand from competitors to receive more attentions.
- ✔ Centralized display of products enabling dealers to promote brand sales more efficiently, and ultimately achieving a win-win situation.



IN A BUSY WORLD

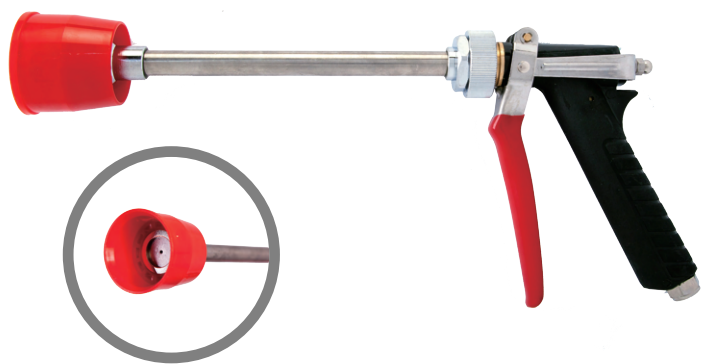


Retailers would appreciate ONE STOP shopping

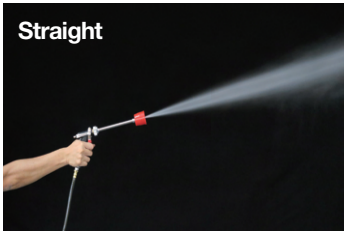
G1 Current Spray Gun

Pistol type spray gun

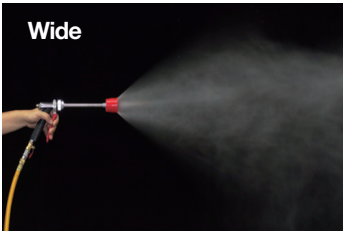
- Spray pattern, amount and distance can be adjusted by the trigger of pistol grip.
- Very long operating life with reinforced stainless steel spray plate, easy for maintenance and replacement.
- More eddy diffusion by the spoiler and better adhesion of the pesticides to the leaf.



Models		G1 Currentspray Gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	4.8	5.5	6.2
Flow rate (Straight)		6.8	7.9	8.8
Spraying distance (m)		8 (straight)		
Length (cm)		33.5		
Weight (g)		492		



Straight



Wide

G2 Sharp mouth spray gun

Pistol type spray gun

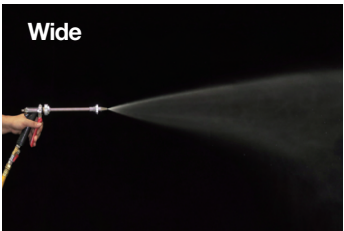
- Spray pattern, amount and distance can be adjusted by the trigger of pistol grip.
- Easy for maintenance and replacement with this sharp mouth spray nozzle.
- Good and convenient for cleaning application with powerful straight column.



Models		G2 Sharp mouth spray gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	4.8	5.5	6.2
Flow rate (Straight)		7.1	8.2	9.2
Spraying distance (m)		9 (straight)		
Length (cm)		35.0		
Weight (g)		503		



Straight



Wide

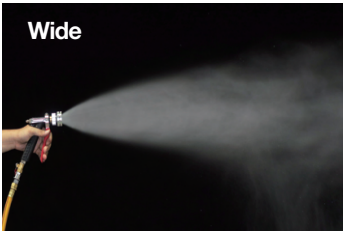
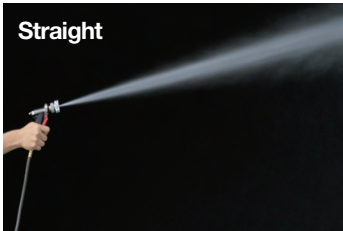
G3 Pistol Grip Washing Sprayer

Pistol type spray gun

- Spray pattern, amount and distance can be adjusted by the trigger of pistol grip.
- Very long operating life with reinforced stainless steel spray plate, easy for maintenance and replacement.
- Long spray rod is available for special applications.
- Particularly suitable for gardening flowers and delicate agricultural planting.



Models		G3 Pistol Grip Washing Sprayer		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	3.9	4.5	5.0
Flow rate (Straight)		11.3	13.0	14.5
Spraying distance (m)		9 (straight)		
Length (cm)		15.0		
Weight (g)		394		



G4 Soil Irrigation Gun

Pistol type spray gun

- Particularly suitable for controlling viruses and bacteria in soil and protecting the roots of planting plants.
- The nozzle endures long-term and repeated penetrations of hard soil.
- The replaceable multi-directional nozzle can complete 360-degree virus and bacteria control operations.



Models		G4 Soil irrigation gun		
Pressure	kg/cm ²	30	40	50
Flow rate	l/min	20.7	24.9	26.7
Length (cm)		89.0		
Weight (g)		394		



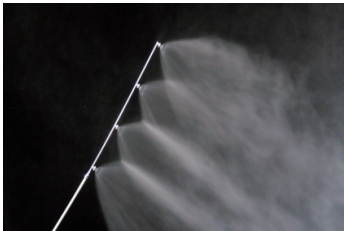
G5 Stright Fan-like Spray Rod

Spray rod



- Finely atomized cone spray effect comes from welded nozzle tips and different aperture spray plate.
- Ceramic spray plate with very good wear and corrosion resistance is available.
- Variety of rod lengths with up to 8 nozzles for spraying of large-scale plane crops.

Models		G5 Straight Fan-like spray rod		
Pressure	kg/cm²	30	40	50
Flow rate	l/min	9.4	10.9	12.1
Type		3H, 4H, 5H, 6H		



■ Base on 4 nozzles

G6 Bend Fan-like Spray Rod

Spray rod



- Finely atomized cone spray effect comes from welded nozzle tips and different aperture spray plate.
- Ceramic spray plate with very good wear and corrosion resistance is available.
- Variety of rod lengths with up to 8 nozzles for spraying of large-scale plane crops.

Models		G6 Bend Fan-like spray rod		
Pressure	kg/cm²	30	40	50
Flow rate	l/min	6.9	8.0	9.0
Type		3H, 4H, 5H, 6H, 8H		



■ Base on 3 nozzles

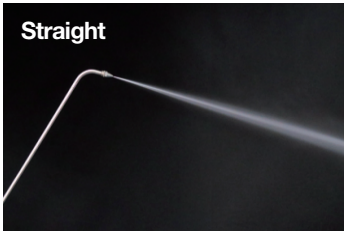
G7 Washing Gun

Rifle type spray gun



- It provides effective straight-flow to achieve a cleaning effect.
- Very long operating life with reinforced stainless steel nozzle, easy for maintenance and replacement.

Models		G7 Washing Gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Straight)	l/min	6.6	7.6	8.5
Spraying Distance (m)		7 (straight)		
Length (ft)		1, 2, 3, 4		



G8 Large Scale Washing Gun

Rifle type spray gun



- More powerful flow and a wider cleaning path to achieve heavier cleaning duty.
- Very long operating life with reinforced stainless steel nozzle, easy for maintenance and replacement.
- We provide also ceramic nozzle as an optional component at request.

■ Optional ceramic nozzle

Models		G8 L shape Washing Gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Straight)	l/min	17.3	20.0	22.4
Spraying distance (m)		13 (straight)		
Length (ft)		3, 4		
Weight (g)		730		

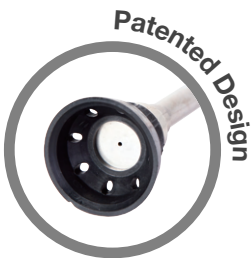


G9 Straight Spray Gun

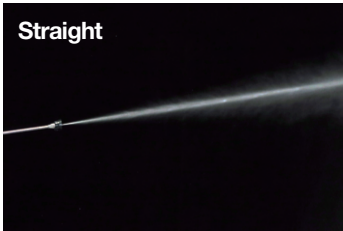
Rifle type spray gun



- The spray gun with patented spoiler has dual spray patterns of straight and wide flat fan.
- Rotating the knob and the spray pattern can be arbitrarily adjusted.
- More eddy diffusion by the spoiler and better adhesion of the pesticides to the leaf.
- Reach both near and far targets. Very good to be used for fruits, vegetables and garden trees.



Models		G9 Straight Spray Gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	4.0	4.6	5.1
Flow rate (Straight)		8.7	10.0	11.2
Spraying distance (m)		10 (straight)		
Length (ft)		1, 2, 3		
Weight (g)		389		



G10 Bend Spray Gun

Rifle type spray gun



- The spray gun with a bend nozzle of fixed angle has dual spray patterns of straight and wide flat fan.
- Rotating the knob and the spray pattern can be arbitrarily adjusted.
- The bend nozzle helps users an easier and more ergonomic operation when facing low angle spraying requirements.

Models		G10 Bend spray gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	3.5	4.0	4.5
Flow rate (Straight)		8.2	9.5	10.6
Spraying distance (m)		9 (straight)		
Length (ft)		1, 2, 3		
Weight (g)		411		



G11 Sharp Mouth Spray Gun

Rifle type spray gun



- Rotating the knob and the spray pattern and distance can be arbitrarily adjusted.
- The sharp mouth nozzle produce very powerful straight column and create relatively long and high spraying range.

Models		G11 sharp mouth spray gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	23.4	27.1	30.6
Flow rate (Straight)		25.4	29.0	32.8
Spraying distance (m)		19 (straight)		
Length (ft)		1, 2, 3		
Weight (g)		556		



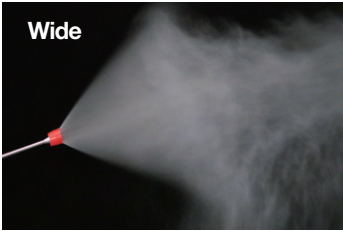
G12 Current Stright Spray Gun

Rifle type spray gun



- Rotating the knob and the spray pattern can be arbitrarily adjusted.
- The bigger spoiler provides more eddy diffusion and enhances adhesion of the pesticides to the leaf's back.
- ø1.8/1.5/1.2 mm of spray apertures are available for different applications.

Models		G12 Current straight spray gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	3.6	4.2	4.6
Flow rate (Straight)		8.7	10.0	11.2
Spraying distance (m)		10 (straight)		
Length (ft)		1, 2, 3		
Weight (g)		403		



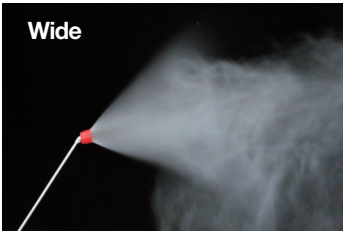
G13 Current Bend Spray Gun

Rifle type spray gun



- Rotating the knob and the spray pattern can be arbitrarily adjusted.
- More eddy diffusion by the spoiler and better adhesion of the pesticides to the leaf.
- The bend nozzle helps users an easier and more ergonomic operation when facing low angle spraying requirements.
- 1.8mm, 1.5mm, 1.2 mm of spray apertures are available for different applications.

Models		G13 Current bend spray gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	4.4	5.0	5.6
Flow rate (Straight)		8.7	10.0	11.2
Spraying distance (m)		8 (straight)		
Length (ft)		1, 2, 3		
Weight (g)		394		



G16 Free Extension Rod

Rifle type spray gun



- The stainless steel extension tube helps operators easily achieve higher spray height.
- The extended length can be from 4 to 8 feet.
- Easy to be operated with all our N category nozzles.
- The rubber handle sheath is with easy-to-hold and slip-off function.

Models	G16 Free extension rod
Length (ft)	4~8



G18 Alum. Spray Rod

Rifle type spray gun



- Easily achieve higher spray height with this light-weight Aluminum alloy tube.
- Different lengths are available.
- Easy to be operated with all our N category nozzles.
- The rubber handle sheath is with easy-to-hold and slip-off function.

Models	G18 Alum. spray rod
Length (ft)	3, 4, 5, 6, 7, 8, 9, 10



G20 Heavy Duty Spray Gun

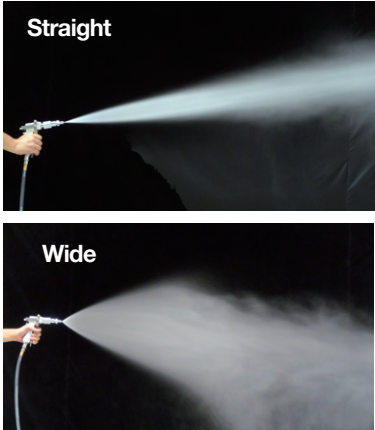
Pistol type spray gun

- Spray pattern, amount and distance can be adjusted by the trigger of pistol grip.
- Constructed of stainless steel, Aluminum and brass with Teflon seal.
- Suitable for large range of spot spraying applications.
- Good and convenient for cleaning and long range spraying applications with powerful straight column.



Nozzle dia.	Wide pattern	Straight stream pattern	Spray distance
	15~35 kg/cm ²		
#2 (0.8mm)	1.2~1.8 l/min	2.0~2.4 l/min	3.2m
#4 (1.5mm)	2.8~4.6 l/min	2.7~4.2 l/min	5.0m
#6 (2.5mm)	5.7~8.5 l/min	11.3~17.3 l/min	6.0m
#8 (3.0mm)	6.8~10.8 l/min	15.8~27.8 l/min	7.5m
#10 (3.5mm)	7.0~15.3 l/min	19.5~31.5 l/min	8.0m
#12 (4.0mm)	7.9~19.6 l/min	23.8~40.8 l/min	10m

■ Max. pressure up to 55 kg/cm² (800psi)



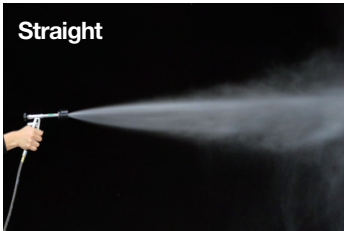
G21 Adjustable Current Spray Gun

Pistol type spray gun



- Rotating the knob and the spray pattern and distance can be arbitrarily adjusted.
 - More eddy diffusion by the spoiler and better adhesion of the pesticides to the leaf.
 - The spray pattern fixed when set up the knob.
- The user only needs to pull trigger for normal spraying function.

Models		G21 Adjustable current spray gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	5.8	6.7	–
Flow rate (Straight)		6.3	7.2	–
Spraying distance (m)		5 (straight)		
Length (cm)		22		
Weight (g)		415		



G24 Adjustable Current Spray Gun

Pistol type spray gun



- Rotating the knob and the spray pattern and distance can be arbitrarily adjusted.
 - More eddy diffusion by the spoiler and better adhesion of the pesticides to the leaf.
 - The spray pattern fixed when set up the knob.
- The user only needs to pull trigger for normal spraying function.

Models		G24 Adjustable current spray gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	3.7	4.1	4.9
Flow rate (Straight)		6.6	7.5	7.9
Spraying distance (m)		7.3 (straight)		
Length (cm)		21		
Weight (g)		493		



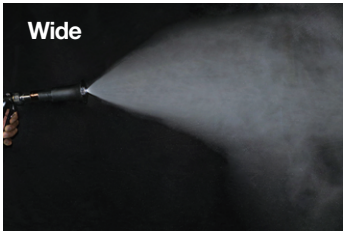
G25 Adjustable Current Spray Gun

Pistol type spray gun



- Spray pattern, volume, and range adjustable via pistol-grip trigger.
- Ceramic spray plate offers long service life and easy maintenance.
- Ideal for horticulture, flowers, and delicate crops; also suitable for cleaning and disinfection.
- Enlarged diffuser creates extended vortex spray for better adhesion on leaf undersides.

Models		G25 Adjustable current spray gun		
Pressure	kg/cm ²	30	40	50
Flow rate (Wide)	l/min	4.6	5.7	7.6
Flow rate (Straight)		6.2	6.9	7.3
Spraying distance (m)		6.3 (straight)		
Length (cm)		30		
Weight (g)		513		



G26 Long Lance-Style Adjustable Current Spray Gun

Rifle type spray gun



- Adjustable spray pattern, flow rate, and range via central handle.
- Durable ceramic spray plate for long life and easy maintenance.
- Extended spray distance—ideal for tall crops, fruit trees, and cleaning tasks.
- Enlarged diffuser creates powerful vortex spray for better adhesion to leaf undersides.

Models			G24 Adjustable current spray gun		
Pressure	kg/cm²		30	40	50
Flow rate (Wide)	Ø3.5	l/min	16.5	19.0	20.8
	Ø3.7		16.8	19.5	22.0
	Ø3.9		17.9	20.2	22.1
Flow rate (Straight)	Ø3.5		13.3	15.2	16.9
	Ø3.7		13.7	15.8	17.5
	Ø3.9		14.5	16.3	18.1
Spraying distance (m)			12.0 (straight)		
Length (cm)			91		
Weight (g)			1445		



N1 Twin-Hole Fan Nozzle

Wide-angle nozzle

(3H, 4H, 5H, 6H, 7H, 8H)

- Lightweight and easy to spray.
- Maximum Effective Coverage with nozzle operated at 30cm height.



Models		N1 Twin-hole fan nozzle		
Flow rate (L/min)	kg/cm ²	10	15	20
	Straight	1.5	1.6	1.8
Length (cm)		7.4		
Weight (g)		33		



N2 S-Type Nozzle

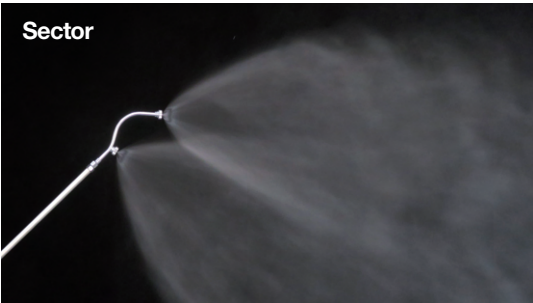
Wide-angle nozzle

(3H, 4H, 5H, 6H, 7H)

- The pole curve and nozzle alignment is design for the most uniform coverage.
- Suitable for more dense foliage and can have very fine attachment onto target.
- Ideal for use in both orchards and vegetable fields.



Models		N2 S-Type nozzle		
Flow rate (L/min)	kg/cm ²	30	40	50
	Straight	4.7	5.4	6.0
Length (cm)		21		
Weight (g)		90		



N5 Outer Thread Nozzle

Multihole nozzle

(3H, 4H, 5H, 6H, 7H, 8H)



- Multi-aperture design increases spray efficiency.
- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.
- Ideal for use in leafy crops on plane and shed fields.

Models		N5 Outer thread nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	5.6	6.5	7.3
	Straight	10.4	12.0	13.4
Length (cm)		4.0		
Weight (g)		62		

■ The data in the above table is tested in three-hole style.



N6 Inner thread nozzle

Multihole nozzle

(3H, 4H, 5H)



- Multi-aperture design increases spray efficiency.
- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.
- Ideal for use in leafy crops on plane and shed fields.
- Smaller and more compact in diameter than N5.

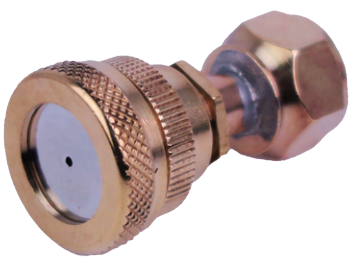
Models		N6 Inner thread nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	2.8	3.2	3.6
	Straight	5.6	6.5	7.3
Length (cm)		4.2		
Weight (g)		56		

■ The data in the above table is tested in three-hole style.



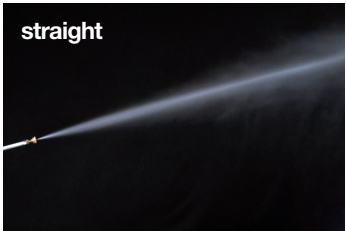
N7 1-Hole Middle Nozzle

Regulating type nozzle



- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.
- Ideal for use in leafy crops on plane and shed fields.

Models		N7 1-hole middlenozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	3.6	4.2	4.7
	Straight	5.4	6.2	6.7
Length (cm)		3.9		
Weight (g)		43		



N8 Point Nozzle

Regulating type nozzle



- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.
- Design for precision spray for special applications.
- Ideal for use on normal fruit trees and shed crops.

Models		N8 Point nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	3.9	4.5	5.0
	Straight	4.8	5.6	6.2
Length (cm)		3.6		
Weight (g)		28		



N9 Vegetable Nozzle

Multihole nozzle

(3H, 4H, 5H)



- Multi-aperture design increases spray efficiency.
- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.
- The oblique design helps to spray on the plane crops easily.

Models		N9 Vegetable nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	3.9	4.5	5.0
	Straight	4.8	5.6	6.2
Length (cm)		4.3		
Weight (g)		48		



■ The data in the above table is tested in three-hole type.

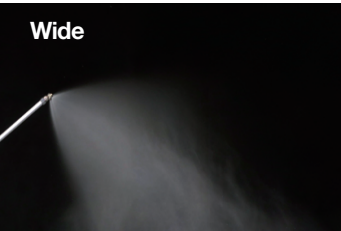
N10 Twin Circular Nozzle

Multihole nozzle



- Twin-aperture design increases spray efficiency.
- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.
- The oblique design helps to spray on the plane crops easily.

Models		N10 Twin circular nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Straight	5.2	6.0	6.7
Length (cm)		3.0		
Weight (g)		37		



N11 Bend Fan Copper Nozzle

Regulating type nozzle



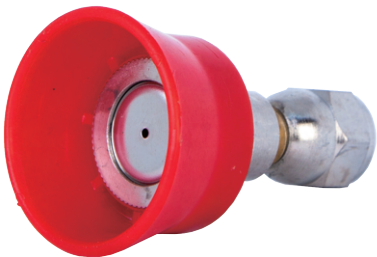
- The spray angle of diffusion is relatively wide for extensive areas.
- The oblique design helps to spray on the plane crops easily.

Models		N11 Bend fan copper nozzle		
Flow rate (L/min)	kg/cm ²	30	40	50
	Straight	4.2	4.9	5.5
Length (cm)		3.2		
Weight (g)		28		



N15 Red Nozzle (Straight)

Regulating type nozzle



- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.
- The scroll spray pattern can effectively increase the liquid adhesion rate.
- Ideal for use on most crops and trees.

Models		N15 Red nozzle(straight)		
Flow rate (L/min)	kg/cm ²	30	40	50
	Wide	4.2	4.9	5.4
	Straight	5.7	6.6	7.3
Length (cm)		5.8		
Weight (g)		58		



N17 Bend Fan Nozzle

Wide-angle spray nozzle



- Flat sector pattern enables a very uniform distribution of mist.
- Ideal for use in both orchards and vegetable fields.

Models		N17 Bend fan nozzle		
Flow rate (L/min)	kg/cm ²	30	40	50
	Wide	2.7	3.4	3.9
Length (cm)		3.0		
Weight (g)		41		



N18 7-hole Stainless Steel Nozzle

Multihole nozzle



- 7-aperture design increases spray efficiency.
- Special flow channel design produces limited scroll pattern and increases the liquid adhesion rate.
- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.

Models		N18 7-hole stainless steel nozzle		
Flow rate (L/min)	kg/cm ²	30	40	50
	Wide	4.8	5.5	6.1
	Straight	9.4	10.8	12.1
Length (cm)		4.3		
Weight (g)		77		



Straight type

Bend type

N19 5-Hole Circular Nozzle

Circular type nozzle

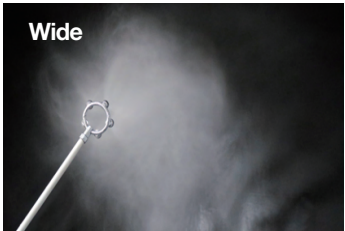
- 5 nozzles in one circular ring can increases spray efficiency tremendously.
- The coverage range can be up to 500mm in diameter and the effective spray distance can be up to 3.5 M.
- Ideal for use in both fruit trees and vegetable fields.



Models		N19 Red nozzle (straight)		
Flow rate (L/min)	kg/cm ²	30	40	50
	Wide	4.3	5.0	5.6
Length (cm)		8.2		
Weight (g)		92		



straight



Wide

N22 Cherry Blossom Nozzle

Regulating type nozzle

- 5-aperture design increases spray efficiency.
- The oblique design helps to spray on the foliage easily.
- Special flow channel design produces limited scroll pattern and increases the liquid adhesion rate.
- The spray distance and degree of diffusion can be adjusted by rotating the nozzle head.



Models		N22 Cherry blossom nozzle		
Flow rate (L/min)	kg/cm ²	30	40	50
	Wide	7.1	8.2	9.1
Length (cm)		4.6		
Weight (g)		51		



straight



Wide

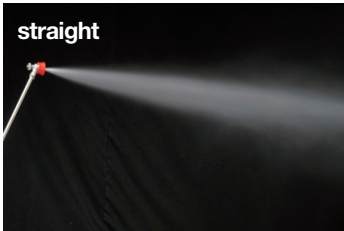
N24 Red Horn Nozzle

Regulating type nozzle

- Spray pattern and range adjustable via rear control knob.
- Vortex spray mode enhances chemical adhesion.
- Suitable for most crops and trees.



Models		N24 Red horn nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	5.5	6.3	7.0
	Straight	5.5	6.3	7.0
Length (cm)		5.3		
Weight (g)		75		



N26 Current nozzle(red)

Current nozzle

- The spray angle can be adjusted freely.
- Spray pattern and distance can be controlled with the adjustment knob.
- The scroll spray pattern can effectively increase the liquid adhesion rate.
- Ideal for use on most crops and trees.



Models		N26 Current nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	6.0	6.9	7.7
	Straight	8.2	9.5	10.6
Length (cm)		10.0		
Weight (g)		140		



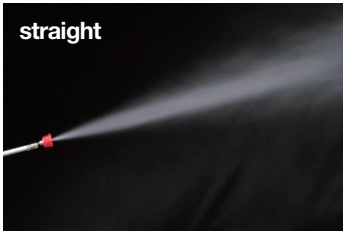
N30 Small Adjustable Red Nozzle

Current nozzle

- The spray angle can be adjusted freely.
- The scroll spray pattern can effectively increase the liquid adhesion rate.
- Ideal for use on most crops and trees.



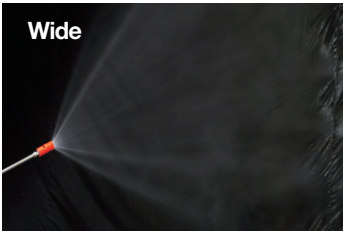
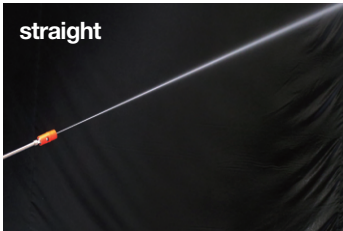
Models		N30 Small adjustable red nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	3.5	4.0	4.5
	Straight	5.0	5.8	6.5
Length (cm)		7.0		
Weight (g)		88		



N35 Adjustable regulating flat spray nozzle

Regulating type nozzle

- Let you adjust the spray pattern from 0 degree solid stream to 80 degree flat spray with a simple twist of the nozzle head.
- The nozzle has ceramic insert inside. It provides very good operating life.



Models		N35 Adjustable regulating flat spray nozzle		
Flow rate (L/min)	kg/cm²	30	40	50
	Wide	6.3	7.3	8.2
	Straight	6.3	7.3	8.2
Length (cm)		7.8		
Weight (g)		83		

N36 Herbicide nozzle

Manual sprayer nozzle

- The ideal nozzle for applying herbicides with a manual sprayer.

Models		N36 Herbicide nozzle		
Flow rate (L/min)	kg/cm ²	10	15	20
	Wide	2.3	-	-
Length (cm)		5.0		
Weight (g)		15		



N37 Twin herbicide nozzle

Manual sprayer nozzle

- The ideal nozzle for applying herbicides with a manual sprayer.
- Larger effective coverage.

Models		N37 Twin herbicide nozzle		
Flow rate (L/min)	kg/cm ²	10	15	20
	Wide	3.2	-	-
Length (cm)		9.0		
Weight (g)		30		



N38 Herbicide nozzle

Manual sprayer nozzle

- The ideal nozzle for applying herbicides with a manual sprayer.

Models		N38 Herbicide nozzle		
Flow rate (L/min)	kg/cm ²	10	15	20
	Wide	2.3	-	-
Length (cm)		5.7		
Weight (g)		16		

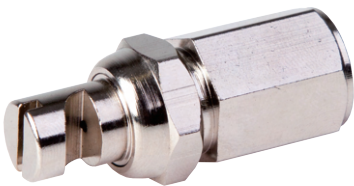


N39 Herbicide nozzle

Manual sprayer nozzle

- The ideal nozzle for applying herbicides with both power and manual sprayer.
- Maximum operating pressure is up to 20 kg/cm².

Models		N39 Herbicide nozzle		
Flow rate (L/min)	kg/cm²	10	15	20
	Wide	4.9	6.0	6.9
Length (cm)		43.2		
Weight (g)		33		

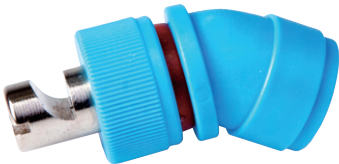


N40 Twin herbicide nozzle

Manual sprayer nozzle

- The ideal nozzle for applying herbicides with both power and manual sprayer.
- Maximum operating pressure is up to 20 kg/cm².
- The oblique design is particularly suitable for spraying on the edge of the ditch.

Models		N40 Herbicide nozzle		
Flow rate (L/min)	kg/cm²	10	15	20
	Wide	4.4	5.4	6.3
Length (cm)		4.8		
Weight (g)		17		



H1 Hose holder

- It helps high pressure hoses change direction when spraying over long distances.
- It effectively saves manpower requirements.
- Plug and play, easy to use.



B1**Large hose strainer**

7.5mm, 8.5mm

**B2****Large hose strainer**

7.5mm, 8.5mm

**B4****Quick swivel**

7.5mm, 8.5mm, 10mm, 13mm

**B5****Twin preventer**

7.5mm, 8.5mm, 10mm, 13mm, 16mm

**B7****Hose coupling (Butterfly)**

7.5mm, 8.5mm

**B8****Hose coupling (Hexagon)**

7.5mm, 8.5mm, 10mm, 13mm, 16mm

**B9****Simple hose connector**

7.5mm, 8.5mm, 10mm, 13mm

**B10****Bend joint**

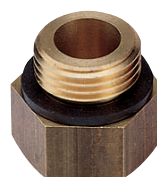
7.5mm, 8.5mm, 10mm, 13mm

**B14****Y shape connector****B15****Triple core****B16****Hose strainer (Fine screen)**

7.5mm, 8.5mm

**B17****Differential connector (for spray hose)**

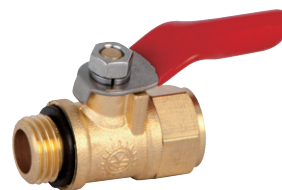
	Hose Spec.	Female	Male
1	13m/m~10m/m	PF1/2"	PF1/2"
2	13m/m~8.5m/m	PF1/2"	PF1/2"
3	10m/m~8.5m/m	PF3/8"	PF3/8"
4	13m/m~8.5m/m	PF1/2"	PF1/2"
5	13m/m~8.5m/m	PF1/2"	PF1/2"

B18**Differential connector (for spray hose)**

	Hose Spec.	Female	Male
1	13m/m~10m/m	SW13.8	PF3/8"
2	13m/m~8.5m/m	SW13.8	PF1/2"
3	10m/m~8.5m/m	PF3/8"	PF1/2"
4	13m/m~8.5m/m	PF1/4"	PF3/8"
5	13m/m~8.5m/m	PF1/4"	PF1/2"

B19**Steering joint****S1****Sprinkler**

S1A: 1/2"-10M, 10L/min 5kg/cm
S1B: 3/4"-28M, 30L/min 5kg/cm

**S2****Low power sprinkler****S3****Mushroom nozzle****C1****Auto valve for power sprayer****C3****Auto valve****C4****Ball spray rod valve**

R1 Standing Stirrer

Stirrer

(3ft, 4ft, 5ft)

- Stirrers driven by single phase electronic motor.
- Optional version for 100V~240V and both 50/60 Hz are available at request.
- Suitable to pesticides tanks of 200L ~ 1000L.



R2 Standing Stirrer

Stirrer

(3ft, 4ft, 5ft)

- Stirrers driven by single phase electronic motor.
- Optional version for 100V~240V and both 50/60 Hz are available at request.
- The height of the machine is adjustable with a setting fastener according to liquid level.
- Suitable to pesticides tanks of 200L ~ 1000L.



R3 Standing Stirrer

Stirrer

- Stirrers driven by two-stroke engine.
- Suitable to pesticides tanks of 200L ~ 1500L.



R4 Standing Stirrer

Stirrer

(3ft, 4ft, 5ft)

- Stirrers driven DC motor.
- Driven by 24V / 48V batteries of tractors and/or trucks.
- Suitable to pesticides tanks of 200L ~ 1500L



R5 Irrigation stirrer

Stirrer

(3ft, 4ft, 5ft)

- Can draw fluid from a maximum depth of 5M according to pressure differences with a delivery hose.
- With pressurized flow, the device can be used as a stirrer suitable to pesticides tanks up to 300L.
- Minimum operating pressure of 10 kg/cm² is required.
The flow rate used at 20 kg/cm² is about 3~4 L/min.



R6 Blade stirrer

Stirrer

- The turbine blades are driven by pressurized flow come from discharge valve of power sprayers.
- With pressurized flow, the stirrer is suitable to tanks of maximum 300L.
- Minimum operating pressure of 10 kg/cm² is required.
The flow rate used at 20 kg/cm² is about 3 L/min.

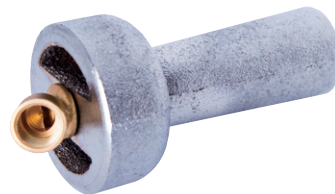


R7 Standing Stirrer

Stirrer

(3ft, 4ft, 5ft)

- Made of casting iron.
- With pressurized flow, the device can be used as a stirrer suitable to pesticides tanks up to 500L.
- Minimum operating pressure of 10 kg/cm² is required.
The flow rate used at 20 kg/cm² is about 4 L/min.
- Can be used as a cleaner after spraying.



R8 Stirring apparatus

Stirrer (left turn/right turn)

(3ft, 4ft, 5ft)

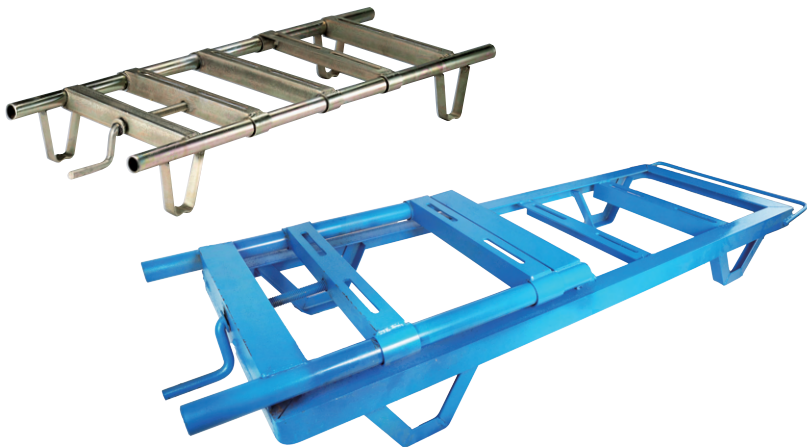
- Driven by one side of the shaft of a power sprayer.
The maximum RPM equals to the rotation of power sprayer.
- 3M in length and with 3 blades in diameter of 168mm.
- According to the vacant shaft side, both left turn and right turn are available.
- Coupling are available in diameter of \varnothing 16.5/18.0/19.0/20.0/25.0mm.
- The stirrer is suitable to tanks of maximum 1000 ~ 1500L.



Setting Frame

Adjustable type

Model
TS-22
TS-28 / TS-60
TS-100
TS-130
TS-240



Bow type



Type A



Type B



Type C

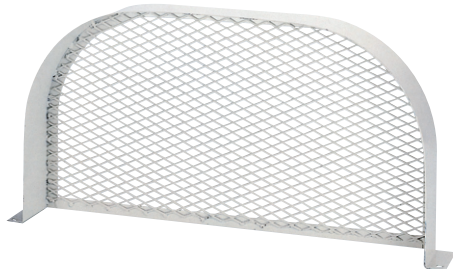


Type D

V-belt Guard

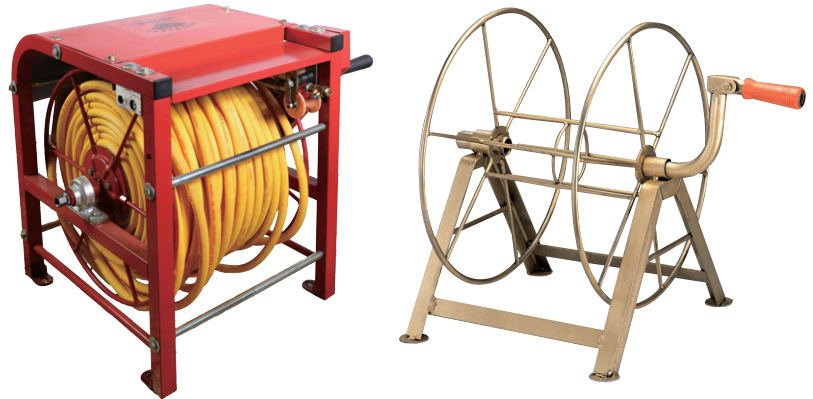
Protective guard for setting frame

Model
TS-22 / TS-25
TS-28 / TS-60
TS-100



Fixed Type Hose Reel

Pipe diameter	7.5mm/8.5mm/10mm/13mm
Lengh	50m/100m/150m/200m



Pressure Hose

Pipe diameter	7.5mm/8.5mm/10mm/13mm
Lengh	1m/10m/20m/50m/100m/150m/200m

■ Max. operating pressure for both 50/70 kg/cm² are available.



- The measurement of Pressure & Spray Volume

$$\frac{\sqrt{P_1}}{Q_1} = \frac{\sqrt{P_2}}{Q_2}$$

The nozzle's spray volume (Q) is in direct ratio to the square root of operating pressure (P).

- Pressure Conversion Table (SI)

	kg/cm ²	Mpa
Pressure	1.0	0.00807
	10.197	1.0

- The forluma of Pressure loss for hose

$$P = \frac{4.74 \times L \times Q^5}{D^5}$$

P= Pressure loss (Mpa)

L= Hose Lengh (M)

Q= Spray volume (L/min)

D= Hose inside diameter(mm)

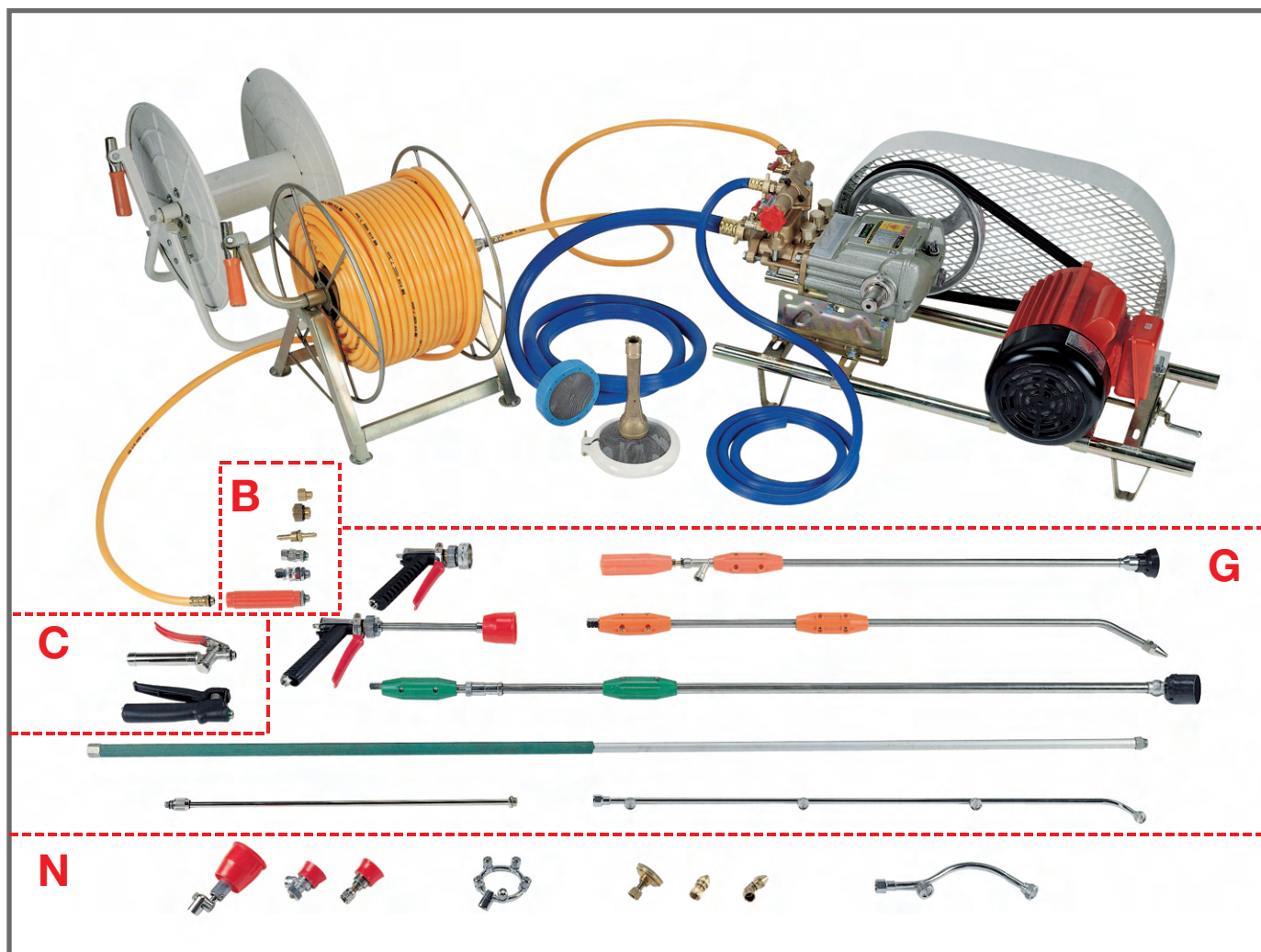
- The pressure loss is in direct ratio to the hose lengthh and spray volume square, five square in inverse ratio to the hose diameter.

- The table of Pressure loss (Mpa):

Dia. Volume	8.5mm	10.0mm	13.0mm
5.0 l/min	0.26		
8.0 l/min	0.69	0.30	
10.0 l/min	1.07	0.47	
13.0 l/min	1.80	0.80	
15.0 l/min	2.40	1.07	0.28
20.0 l/min		1.90	0.51
25.0 l/min		2.97	0.79
30.0 l/min			1.15
35.0 l/min			1.57
40.0 l/min			2.04
45.0 l/min			2.58
50.0 l/min			3.19

- The pressure loss (Mpa) of every 100 (M) hose.

Accessories Match Up



- G. Spray gun & rod
- N. Nozzle series
- C. Valve series
- B. Connector accessories

Nozzle & Gun Models For Specified Crops

Purpose	Gun & Nozzle Type	Suggested Model
Normal fruit tree	Rifle type spray gun	G9. G10. G12. G13
	Pistol type spray gun	G1. G2. G3. G21
	Circular type nozzle	N19
	Wide-angle spray nozzle	N2. N17
	Regulating type nozzle	N7. N8. N15. N18. N24. N25
	Current nozzle	N26. N28
High tree	Rifle type spray gun	G9. G12. G16
	Current nozzle	N26. N28
Paddy field	Rifle type spray gun	G9. G10. G12. G13
	Spray rod	G5. G6
	Wide-angle spray nozzle	N2
Plane crops	Spray rod	G5. G6
	Multihole nozzle	N4. N5. N6. N10. G18. N22
	Wide-angle spray nozzle	N1. N2
	Current nozzle	N26. N28. N30
Shed crops	Pistol type spray gun	G1. G2. G3. G21
	Spray rod	G5
	Wide-angle spray nozzle	N2. N5. N6. N9
	Regulating type nozzle	N24. N25
	Current nozzle	N26. N28. N30
Herbicide spraying	Hollow cone nozzle	N36
	Wide-angle spray nozzle	N37
Washing, Cleaning	Rifle type spray gun	G7. G8. G9. G11
	Pistol type spray gun	G3. G20
	Regulating type nozzle	N8. N11. N35
Sprinkling	Fixed type sprinkler	S2. S3
	Moveable type sprinkler	S1

Crops Categories

Normal fruit tree	Apple. Citous/Orange. Peach. Pear. Gingko. Plum
High tree	Persimmon. Chestnut. Cherry. Durian. Coconut. Palm
Paddy field	Rice. Wheat
Shed crops	Tomato. Cucumber. Greenpea. Grape. Lily. Eggplant. Yam. Daisy. Corn. Pompon
Plane crops	Bok choy. Cabbage. Spinach. Lettuce. Flower. Broccoli/Cauliflower. Parsley. Tulip. Watermelon. Pumpkin. Potato.Onion. Turnip. Carrot. Strawberry

Nozzle & Spray Rod For Specified Crops

Rifle type spray gun		Normal fruit tree. Tall tree. Paddy field. Washing
Pistol type spray gun		Normal fruit tree. Washing. Auxiliary spray for spray car
Spray rod	Straight type bend nozzle	Plane crops. Paddy field (seeding)
	Straight type bend joint	Plane crops (seeding and/or infanting)
	Vertical type	Normal fruit tree. Shed crops. Plane crops
	S-type	
Circular type nozzle		Normal fruit tree. Shed crops. Plane crops
Regulating type nozzle		Normal fruit tree. Shed crops. Washing
Current nozzle type nozzle		Normal fruit tree. Shed crops
Others		Farming purpose. Special purpose. Others

Spraying Characterstic Of Different Nozzles

■ Hollow cone spray nozzle

The small droplet and wide spraying range make the hollow cone spray nozzles cover the leave densely. As the result, the pesticide is easy to adhere onto the targeted crops.

■ Wide-angle flat spray nozzle

The wide and flat spraying Pattern of this nozzle has more powerful column than other nozzles. It is easy to help the pesticide to reach piece of leaves no matter how dense they are.

■ Stream jet nozzle

The powerful column from the stream jet nozzles can maximize the long distance spray.

■ Ragulating nozzle

Ragulating nozzle has the same effect as hollow cone nozzle, but also can substitute solid stream jet nozzle. The user can regulate the nozzle by rotating the grip or the knob according to the different needs. Regulating nozzle is suitable for short and long distance spray.

■ Multi-hole nozzle

Multi hole nozzle has larger spray volume than single-hole nozzle thus present better performance.

■ Current nozzle

Mixing air and water, this nozzle can create bigger bubble-like spray pattern that is difficult to flow away in the air. The created whiten color droplet can be controlled easily toward the targeted spray areas. Current nozzle is suitable for small field spray.



DN-100

Cultivator

LxWxH	152x63x92 cm
Weight	100kg
Gear number	6 gear forward. 2 gear reverse
Tyre	350-5 (inch)
Handle	180° rotation. free adjustment for height
Operating width	13~16 cm
Accessory	iron wheel. cultivable blade. plough. tools
Engine	Mitsubishi GB290 (8HP) or equal



DN-260

Cultivator

LxWxH	145x65x85 cm
Weight	110kg
Gear number	6 gear forward. 2 gear reverse
Tyre	350-5 (inch)
Handle	180° rotation. 6 anchor points for rotation 5 anchor points for height
Operating width/Depth	13~61 cm/ 18 cm
Accessory	iron wheel. cultivable blade. plough. tools
Engine	Mitsubishi GB290 (8HP) or equal



DN-400

Light Tiller

LxWxH	100x47x97 cm
Weight	19.5kg
Handle	foldable
Handle	180° rotation. free adjustment for height
Width of cultivation	36 cm
Depth of cultivation	28 cm
Engine	Mitsubishi TB43



DN-660

CENTRIFUGAL BRANCH CHIPPER AND MOWER

LxWxH	172x85x100 cm
Weight	184kg
Gear number	4 gear forward. 2 gear reverse
Tyre	Walking wheel: 400-7(2) / Support wheel: 6 1 1/2
Handle	180° rotation. free adjustment for height
Operating width	660 cm
Operating blade	38pcs. 107x32x4.5 mm
Engine	Mitsubishi GB300 (10HP) or equal
Maximum hp	13 ps/ 2000rpm



DCT-200

CATERPILLAR TRANSPORTER

L×W×H	185×86×90 cm
Weight	260kg
L×W×H(Cargo frame)	115×(66~93)×50 cm (adjustable)
Cargo height	38 cm
Track width	53/60/64 cm
Track specifications	180cm×38T
Max.Loading capacity	Slope: 200 kg / Plain: 350 kg
Engine	Mitsubishi GB181 (6HP) or equal



DCT-720

WHEELED TRANSPORTER

L×W×H	195×72×88 cm
Weight	137kg
L×W×H(Cargo frame)	(126~150)×(65~110)×19 cm (adjustable)
Cargo height	45 cm
Gear speed	3 gear forward. 1 gear reverse
Track specifications	180cm×38T
Max.Loading capacity	Slope: 150kg / Plain: 300 kg
Engine	Mitsubishi GB180 (6HP) or equal



2 inches pump

Water pump

with Honda GP/GX120

Max.flow rate	580L/min
Total head	32m
Suction head	8m
Weight	23kg
Dimension	475x355x360mm



3 inches pump

Water pump

with Honda GP/GX160

Max.flow rate	1000L/min
Total head	32m
Suction head	8m
Weight	27kg
Dimension	500x385x410mm



TL-68/TL-099/CH-0620

Manual Sprayer/Battery knapsack sprayer

TL-68

TL-099

Hight	48cm(40cm)	66cm
Width	18cm	20cm
Lengh	18cm	20cm
Weight	2.9kg(2.6kg)	5.2kg
Pressure	4-6kg/cm ²	7kg/cm ²
Capacity	8L(6L)	12L.14L



CH-0620

Hight	63cm
Width	21cm
Lengh	32cm
Weight	7.4kg
Pressure	5.6kg/cm ²
Capacity	17L



Mounted type engine tachometer

Waterproof and convenient tachometers designed for mounting around the engine.

Simply place near the spark plug wire to measure RPM.

※ Not compatible with engines using direct ignition systems.

PET-304

- Same functions as PET-302R.
 - Button-free design with automatic display of accumulated operating time.
 - For gasoline engines: 2-stroke 1-cylinder, 4-stroke 2-cylinder, and one ignition per revolution.
- ※ Supplied with 1.2 m antenna lead wire.



PET-2000DXR

- Multi-function tachometer.
 - Measures RPM, accumulated operating time, and maximum RPM.
 - Dual-display function shows current RPM and maximum RPM simultaneously.
 - For gasoline engines: 2-stroke 1-cylinder, 4-stroke 2-cylinder, and one ignition per revolution.
- ※ Supplied with 1.2 m antenna lead wire.



PET-2100DXR

- Advanced tachometer with all functions of PET-2000DXR plus support for multi-cylinder engines.
 - For gasoline engines: 2-stroke 1-cylinder, 4-stroke 2-cylinder to 6-cylinder, and 8-cylinder.
- ※ Supplied with 1.2 m antenna lead wire.



Mounted type engine tachometer

Waterproof and convenient tachometers designed for mounting around the engine.

Simply place near the spark plug wire to measure RPM.

※ Not compatible with engines using direct ignition systems.

PET-1000R

- Pocket-sized (13 mm thickness), standard model designed for ease of use.
 - For gasoline engines: 2-stroke 1-cylinder, 4-stroke 2-cylinder, and one ignition per revolution.
- ※ Supplied with 1.2 m antenna lead wire.



PET-1100R

- Enhanced model based on PET-1000R.
 - Supports multi-cylinder engines with 7 selectable settings.
 - For gasoline engines: 2-stroke 1-cylinder, 4-stroke 2-cylinder to 6-cylinder, and 8-cylinder.
- ※ Supplied with 1.2 m antenna lead wire.



Engine Hour Meters

PET-3000DXR

- Detects ignition signals from gasoline engines to calculate total operating hours.
- Two display modes: resettable (temporary measurement) and non-resettable (cumulative measurement).
- Maintenance reminder: "OIL" indicator displayed at 100-hour intervals.



PET-3200R

- Ultra-compact hour meter for measuring accumulated engine operating time.
 - Useful for scheduling oil and parts replacement.
 - Lightweight and easy to install anywhere.
- ※ Supplied with 0.5 m antenna lead wire.



Ignition Testers

PET-4000

- Three-pin ignition spark tester for gasoline engine ignition systems.
- No need to remove the magneto from the engine for diagnosis.
- Adjustable spark gap (0–12 mm) with scale (standard 6 mm).
- Dimensions (L×W×H): 83 × 124 × 20 mm.



Ignition Indicators

PET-4100

- Easily checks ignition by placing near the spark plug wire.
- Blue LED lights up when an ignition pulse is detected.
- Dimensions (L×W×H): 25 × 68 × 6 mm (excluding key ring).



Ignition Monitor

PER-4200

- Pocket-sized (13 mm thickness), standard model designed for ease of use.
 - For gasoline engines: 2-stroke 1-cylinder, 4-stroke 2-cylinder, and one ignition per revolution.
- ※ Supplied with 1.2 m antenna lead wire.



Calculation formulas

Hereby, we introduce some of very useful calculations that users of power sprayers need.

A good usage experience has much to do with correct knowledge.

These calculations can help users to find the best setting and selection regarding to power source, spraying accessories and cost structure.

Please refer to these information before purchasing related products.

Efficiency

The efficiency of a plunger pump (A so-called positive replacement pump, also include piston type) is identified by three main factors.

- Flow rate
- Operating pressure
- Power required

The efficiency of a pump is observed according to some meaningful ratios calculated from these three factors.

Flow Rate

The theoretical flow rate F_t is represented as the suction volume that a pump can theoretically pump out.

The actual flow rate F_r is represented as the real volume pumped by a pump in certain conditions such as operating pressure, liquid category and so on.

The flow rate F_t of a triplex pump is calculated by the following formula.

$$F_t [\text{l/min}] = \frac{3 \times \pi \times r^2 [\text{mm}] \times S [\text{mm}] \times N [\text{1/min}]}{10^6}$$

r : The radius of the plunger equipped inside the pump.

If it is a piston pump, r is calculated as $(r_b - r_v)$. r_b is represented as the radius of piston bushes.

r_v is represented as the radius of valve on the piston.

S : Pump shaft eccentric

N : Rotation speed. Normally presented as RPM

Volumetric Efficiency

The ratio between the theoretical flow rate

$$r_v = \frac{F_r}{F_t}$$

$$F_t [\text{l/min}] = \frac{3 \times \pi \times r^2 [\text{mm}] \times S [\text{mm}] \times N [1/\text{min}]}{10^6}$$

■ Pressure conversion table

Mpa	kPA	kgf/cm ²	bar	psi
1	1000	10.1972	10	145.037
0.001	1	0.0102	0.01	0.14503
0.0980665	98.0665	1	0.980665	14.2233
0.1	100	1.0197	1	14.5038
0.00689	6.8948	0.07031	0.06895	1
0.000133	0.133	0.0013595	0.001333	0.019336

■ Volume conversion table

m ³	L (liter)	in ³ (cu in)	ft ³ (cu ft)	gal (Imp.)	gal (U.S.)
1	1000	61023.61	35.3147	219.9692	264.1722
0.001	1	61.0236	0.03531	0.219969	0.264172
0.0000164	0.0163871	1	0.0005787	0.0036047	0.004329
0.0283168	28.3168	1727.9934	1	6.2288252	7.4805107
0.0045461	4.5461	277.4188	0.1605439	1	1.2009505
0.0037854	3.7854	230.9994	0.1336807	0.8326738	1

Power required

The power required when a pump running is presented as N_u and N_a .

The measurements used to express Power are KW, CV and HP.

N_u : The energy supplied to the pumped liquid.

N_a : The energy that the pump required from its energy source (electric motor, hydraulic motor, petrol engine, etc.)

$$N_{\mu} [\text{HP}] = \frac{F_t [1/\text{min}] \times P [\text{kg}/\text{cm}^2]}{450}$$

$$N_{\mu} [\text{KW}] = N_{\mu} [\text{HP}] \times 0.746$$

$$N_{\mu} [\text{CV}] = N_{\mu} [\text{HP}] \times 1.01456$$

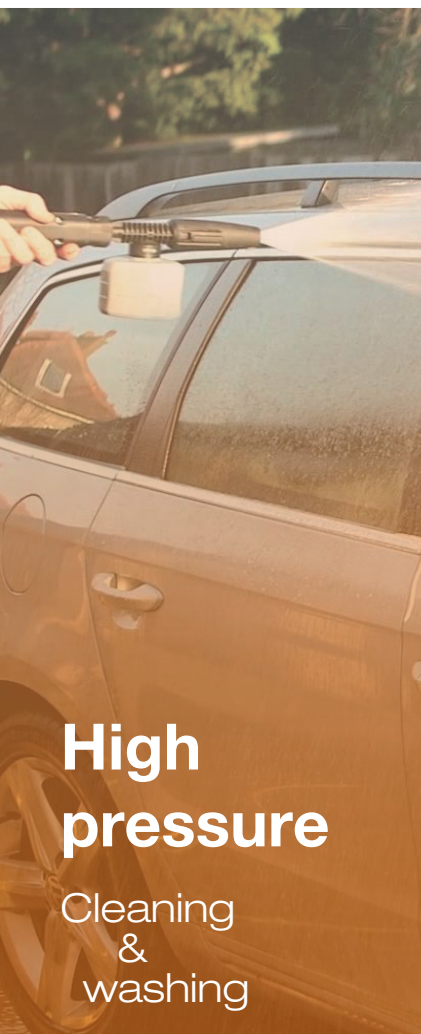
$$N_a [\text{HP}] = \frac{N_{\mu} [\text{HP}]}{\partial s}$$

∂s : Total efficiency of the pump.

It is produced by the three efficiencies, the volumetric, the mechanical and hydraulic.

Basically, we would like to suggest it as 85%, and just try to meet the most critical conditions.

- The volumetric efficiency is normally taken on values between 0.85 and 0.95.
- The mechanical efficiency expresses the power losses due to mechanical parts in pumps.
It normally taken on values between 0.97826 and 0.97916.
- The hydraulic efficiency expresses the losses due to the resistances opposed to the flow through the pump.



High pressure

Cleaning & washing

- Car/bus/truck washing
- Self-service car washing
- Ship washing
- Heavy plant washing
- Off-road vehicle equipment cleaning
- Street cleaning



High pressure

Manufacturing process system

- Machine tool cooling & flushing
- High speed demoulding
- Label removal & de-burring
- Hydrostatic testing
- Conveyor belt cleaning
- Sanitisation



High pressure

Industrial pump

- Fire fighting (misting/foam)
- Reverse osmosis desalination
- Decontamination system
- Vehicle, building & equipment cleaning
- Insect control
- Centralised cleaning systems



High pressure

Misting & cooling

- Wasted water & odour control
- Dust suppression
- Pest control
- Evaporative cooling
- Humidification & temperature control
- Greenhouse misting
- Animal cooling
- Sporting event cooling
- Patio misting



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