SUNNY-GL

Fuel Dispenser

TATSUNO

In Innovation, In Reliable Services

Introducing from the country of high-technology.

SUNNY-GL

Keep Quality
Keep Security and Safety
Keep Innovation and Improvement

Japan Quality

Precise, convenient, and safe.
"User first" is the top priority in Japanese manufacturing.

SUNNY-GL is the dispenser with highest accuracy, quality, durability,
and reliability that always provides utmost satisfaction for all.

New Challenge Starts from SUNNY-GL

SUNNY-GL is the essential dispenser for service stations.
Benefits to both service station owners and drivers. User-friendly and safe.
Best partner that provides greatest fulfillment for all.

Wide range of Product Lineup

Product lineup meets various requirements of sites and customers.
The best model with the best function.
Package is adjustable: wide or narrow body, suction, remote, flow rate, etc.
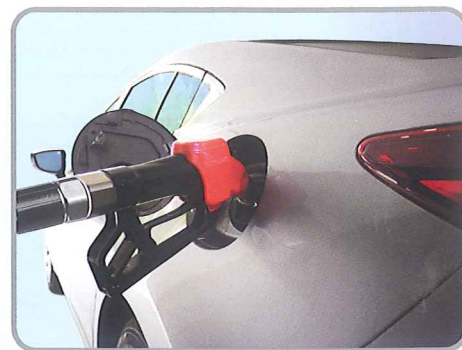
Security Function

Prevents illegal data-changing or skimming by encryption technology for data communication between circuit boards.
Equips with disconnection detecting function for electromagnetic totalizer.
Protect your operation from cheatings in advance by preventive function.

Enhanced security to prevent fraud transaction

Counter

Electromagnetic Totalizer (Optional)
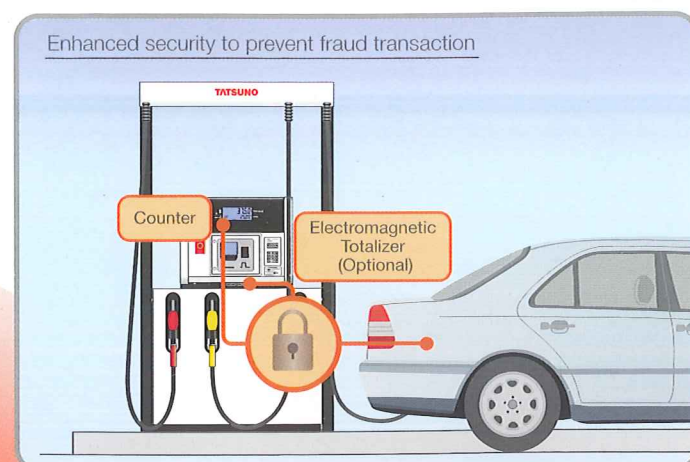
ID-Remote controller(optional)
Traceability of operater information and changed configuration by using unique ID-Remote controller.

Nozzle lock key(optional)
You can guard dispenser by keylock of nozzle holder after business hours.

Components with Best Cost Performance

Our main components, such as pumping unit and meter, are praised for their great technology and performance with highest quality and accuracy. The structures are designed to make maintenance work more efficiently to reduce the work cost.
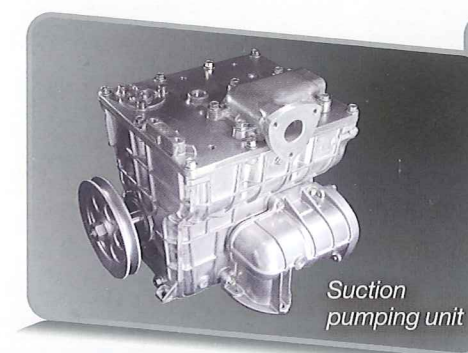
Suction pumping unit

Meter 4-piston type

Meter Lobe type

New Model of Die-Cast Pump

New pumping unit uses techniques based on years of experience.
It is a suction type made from die casting. Its air separator function and flow rate supervision control function keeps instrumental error to bare minimum.
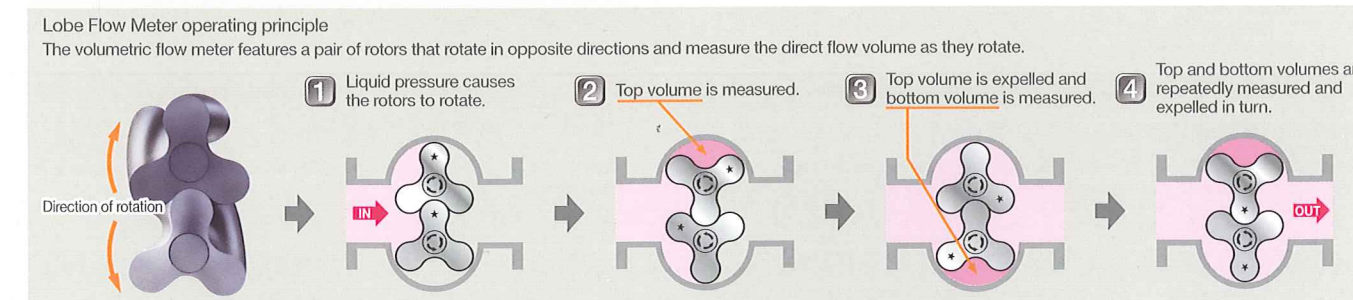
Piston Meter

This precise and reliable meter provides safe refueling environment without deterioration in performance for a long period of time.
New magnetic pulser with impenetrable structure improves reliability against leakage.

Measuring accuracy(%) and Reliability

OIML requirements(±0.5%)

Total dispensed volume(M liter)
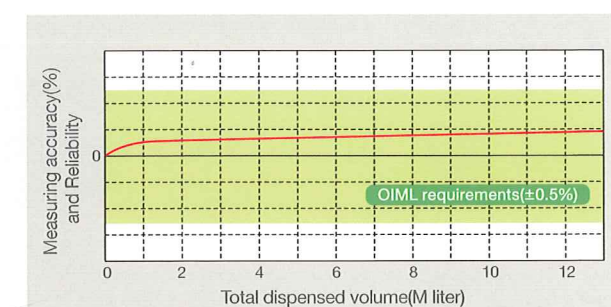
Lobe Flow Meter

Durability greatly improved by advanced and accurate mass measurement contactless helical rotor.
This mechanism makes the innovative design and compact body of flow meter.
Today this flow meter is widely used as "ultimate flow meter."

Lobe Flow Meter operating principle
The volumetric flow meter features a pair of rotors that rotate in opposite directions and measure the direct flow volume as they rotate.

Direction of rotation

1 Liquid pressure causes the rotors to rotate.

2 Top volume is measured.

3 Top volume is expelled and bottom volume is measured.

4 Top and bottom volumes are repeatedly measured and expelled in turn.

Various optional parts to prevent leakage and air contamination.

Membrane Panel
Visualization of leakage from pumping unit
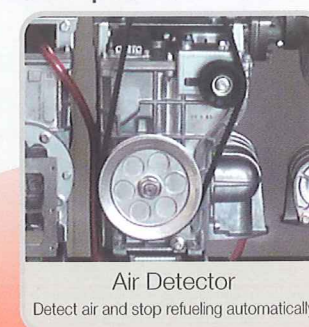
Air Detector
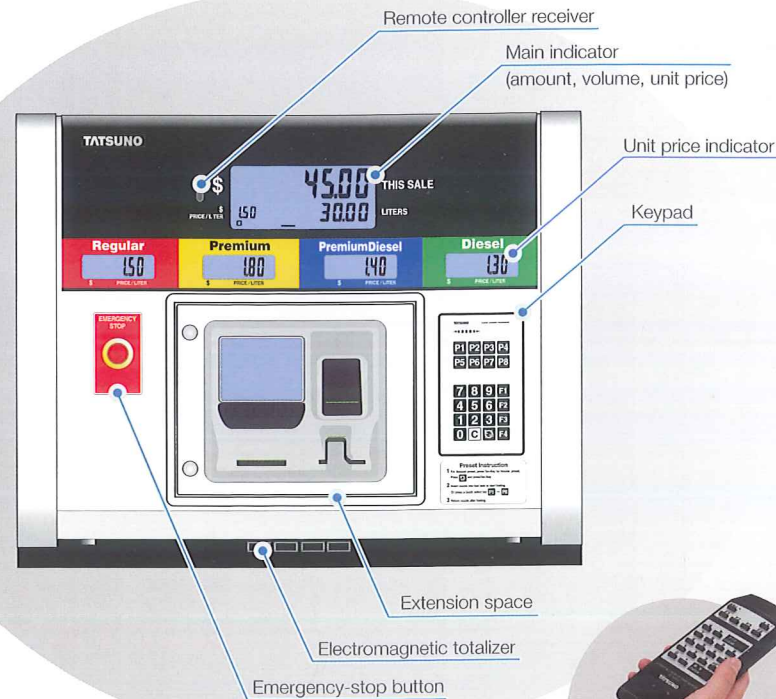Detect air and stop refueling automatically

Conductive Terminal
Easy to check electrical conductivity

Sight Glass
Easy to confirm the status of refueling

Extensible Counter Area

Counter Area is designed based on user's actual motion during refueling.
You can upgrade functions such as OPT, printer, keypad, RFID operator authentication, etc.

- Remote controller receiver
- Main indicator (amount, volume, unit price)
- Unit price indicator
- Keypad
- Extension space
- Electromagnetic totalizer
- Emergency-stop button

OPT
Its compact size fits the limited space well.
Great versatility in reading various cards.

Basic configuration can be done by remote controller.
Keypad is not needed, if OPT is installed.

Multifunctional LCD Counter

All necessary information are displayed on one screen.
The LCD counter is bright with high visibility and is enhanced in durability (with LED backlight).

Status icon
- ⭐ Dispenser status
- ⚠ Warning
- ℹ Information
- 🔧 Maintenance call

8-Digit counter can be used for any currency.
(7 digits for measurement unit, 6 digit for unit price)

When not used, backlight turns off and the dispenser goes into idle state to save electric power.

Maximum 10 records of recent refueling transaction data can be indicated.

Counter can give notice of replacement timing of consumable parts.

Easy Flow Rate Control

Minor adjustment of flow rate can be done with just one button.
Best flow rate can be selected for vehicles such as motorbike and truck to ensure safe and comfortable refueling.

Smooth Handling

Achieves simple and comfortable refueling.
No stress. All parts of hanging hardware, including elbow, breakaway, hose, swivel and nozzle are smoothly interlocked. All actions of refueling can be done easily.

- Safety breakaway coupling prevents damage to dispenser in unpredicted situation.
- Double swivel helps to handle the hose freely.
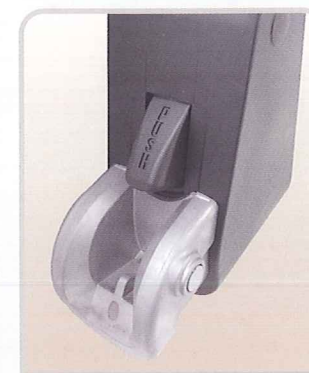- Nozzle holder enables easy operation of nozzle.
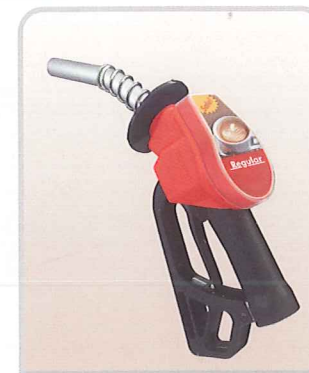
Reliable Nozzle and Nozzle Holder

Compact and space-saving. This contactless type nozzle holder fits the nozzle perfectly and achieves high durability.
There are convenient accessories such as nozzle talker for advertisement, cover for diesel to prevent misfueling, etc.

Nozzle holder and Ultra nozzle | Contactless nozzle switch | Nozzle talker | Nozzle holder cover

By using Ultra Nozzle, refueling completes in short time with small foaming. Also, auto stop function works even in 2L/min. Safe refueling is achieved.

Free Layout and Operation

Front Nozzle Type
With a hose for same product at both sides, refueling operation can be done by lanes.
The driver can choose from different products freely.
Makes refueling environment open and wider.
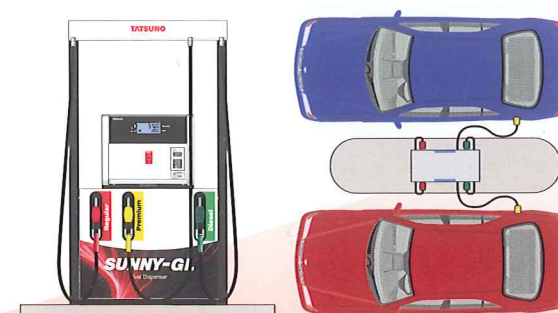
Side Nozzle Type
With side nozzle, refueling can be done smoothly by islands.
Effective operation can be managed by economical solution.

List of Functions/Models

Legend (Fueling system diagram):
1111 — Simultaneous / Nozzle / Meter / Product
P Pump · S Strainer · M Meter · Nozzle · C Counter

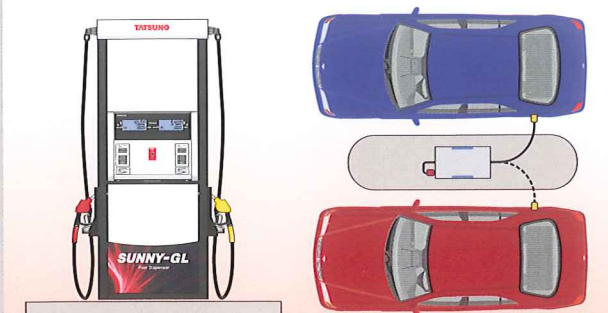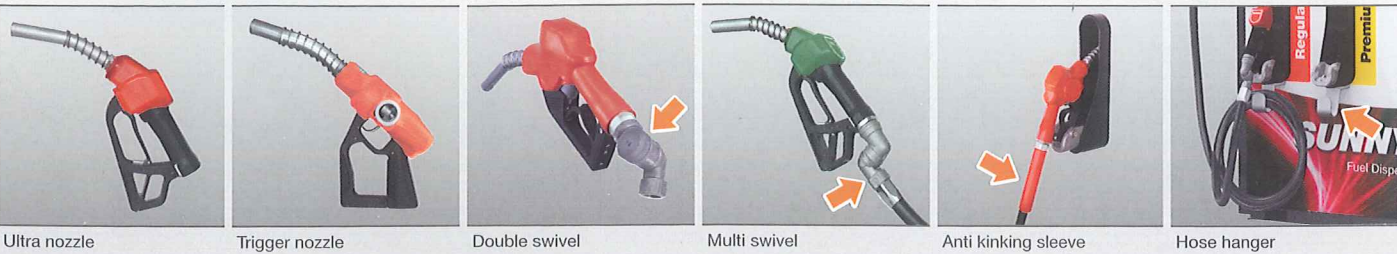| Function	Wide Body, Front Nozzle Model							Narrow Body, Front Nozzle Model					Narrow Body, Side Nozzle Model		
	4882	3662	3664	2442	2444	3331	3332	2442	2444	2222	1222	1111	2222	1222	1111
Model — Suction	WDB 4882	WDB 3662	WDB 3664	WDB 2442	WDB 2444	WDB 3331	WDB 3332	WDA 2442	WDA 2444	WDA 2222	WDA 1222	WDA 1111	WDA 2222-S	WDA 1222-S	WDA 1111-S
Model — Remote	WSB 4882	WSB 3662	WSB 3664	WSB 2442	WSB 2444	WSB 3331	WSB 3332	WSA 2442	WSA 2444	WSA 2222	WSA 1222	WSA 1111	WSA 2222-S	WSA 1222-S	WSA 1111-S
POS preset	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Keypad(preset) with display	▲*1	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Keypad(preset) without display	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Interface — RS-485	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Interface — IFSF	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Hose — 12ft(Hard core)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hose Hanger	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Color Anti kinking sleeve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Nozzle — Auto-stop nozzle	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nozzle — Just-stop(prepay) nozzle	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Nozzle — Trigger	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Nozzle — Ultra nozzle	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Nozzle — Splash guard	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Nozzle — Oil guard	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Nozzle — Nozzle talker*2	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Swivel — Single	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Swivel — Double	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Swivel — Multi*2	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Unit price indicator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Vapor recovery	▲	▲	▲	▲	▲	▲	▲	—	—	—	—	—	—	—	—
Safety breakaway coupling — Single poppet	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Safety breakaway coupling — Double poppet	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Safety breakaway coupling cover	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Electromagnetic totalizer	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Sight glass	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Alert of restoring nozzle (by key tone)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Emergency-stop button	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Filling cap tray	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Static electricity discharge pad	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Clip for conductivity test	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Earthquake sensor	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Air detector sensor(for Suction model)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Membrane panel(for Suction model)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Flow control button — Motorbike mode	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Flow control button — High-to-Standard mode	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
OPT	▲	▲	—	▲	—	▲	—	▲	—	▲	▲	▲	—	—	—
Built-in printer	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	—	—	—
ID-Remote controller	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Nozzle holder with lock	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
RFID	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

Note: 3664 and 2444 (Wide Body) include "Simultaneous 4-nozzle fueling". 2442 (Narrow Body Front) includes "Simultaneous 4-nozzle fueling".

*1: Combination of keypad with display and unit price indicator is not available.
*2: For Ultra Nozzle only.

Ultra nozzle · Trigger nozzle · Double swivel · Multi swivel · Anti kinking sleeve · Hose hanger

Splash guard · Oil guard · Nozzle talker · Sight glass · Safety breakaway coupling · Safety breakaway coupling cover

List of Functions/Models

Function	Ultra-high Speed Model							
	4222	4222	4222	4222	2222	2222	2111	2111
Appearance	SUNNY-GL	SUNNY-GL	SUNNY-GL	SUNNY-GL	SUNNY-GL	SUNNY-GL	SUNNY-GL	SUNNY-GL
Fueling system diagram	Ultra-high speed type	Ultra-high speed type	Ultra-high speed type	Ultra-high speed type	Ultra-high speed / High speed type	Ultra-high speed / High speed type	Ultra-high speed type	Ultra-high speed type

1111
— Simultaneous
— Nozzle
— Meter
— Product

P Pump S Strainer M Meter N Nozzle C Counter

Model		4222	4222	4222	4222	2222	2222	2111	2111
Model	Suction	WDF 4222-S	WDF 4222	Remote type only	Remote type only	WDC 2222-S	WDC 2222	WDC 2111-S	WDC 2111
	Remote	WSF 4222-S	WSF 4222	WSC 4222-S	WSC 4222	WSC 2222-S	WSC 2222	WSC 2111-S	WSC 2111
POS preset		▲	▲	▲	▲	▲	▲	▲	▲
Keypad(preset) with display		▲	▲	▲	▲	▲	▲	▲	▲
Keypad(preset) without display		▲	▲	▲	▲	▲	▲	▲	▲
Interface	RS-485	▲	▲	▲	▲	▲	▲	▲	▲
	IFSF	▲	▲	▲	▲	▲	▲	▲	▲
Hose	12ft(Soft)	●	●	●	●	●	●	●	●
Hose Hanger		▲	▲	▲	▲	▲	▲	▲	▲
Nozzle	Ultra-high speed	●	●	●	●	●	●	●	●
	Auto-stop nozzle	▲	▲	▲	▲	▲	▲	▲	▲
	High speed nozzle 70L/min	▲	▲	▲	▲	●	●	▲	▲
	80L/min	▲	▲	▲	▲	▲	▲	▲	▲
Swivel	Single	●	●	●	●	●	●	●	●
Safety breakaway coupling	Single poppet	●	●	●	●	●	●	●	●
	Double poppet	▲	▲	▲	▲	▲	▲	▲	▲
Safety breakaway coupling cover		▲	▲	▲	▲	▲	▲	▲	▲
Electromagnetic totalizer		▲	▲	▲	▲	▲	▲	▲	▲
Alert of restoring nozzle (by key tone)		▲	▲	▲	▲	▲	▲	▲	▲
Emergency-stop button		▲	▲	▲	▲	▲	▲	▲	▲
Static electricity discharge pad		▲	▲	▲	▲	▲	▲	▲	▲
Clip for conductivity test		▲	▲	▲	▲	▲	▲	▲	▲
Earthquake sensor		▲	▲	▲	▲	▲	▲	▲	▲
Air detector sensor(for Suction model)		▲	▲	▲	▲	▲	▲	▲	▲
Membrane panel(for Suction model)		▲	▲	▲	▲	▲	▲	▲	▲
Flow control button(High-to-Standard mode)		▲	▲	▲	▲	▲	▲	▲	▲
OPT		—	▲	—	▲	—	▲	▲	—
Built-in printer		▲	▲	—	▲	—	▲	▲	—
ID-Remote controller		▲	▲	▲	▲	▲	▲	▲	▲
Nozzle holder with lock		▲	▲	▲	▲	▲	▲	▲	▲
RFID		▲	▲	▲	▲	▲	▲	▲	▲

Membrane panel
for checking leakage from pump

Clip for conductivity test

Air detector sensor

Emergency-stop button

Flow control button

OPT

Electromagnetic totalizer

Unit price indicator

Keypad(preset) with display

ID-Remote controller

Filling cap tray

Static electricity discharge pad
with Filling cap tray

Main Specifications

		Standard Speed (Gasoline / Diesel)	High Speed (Diesel)	Ultra-high Speed (Diesel)
Delivery Speed	Suction Model	40 L/min. (Simultaneous fuelling: 35 L/min)	70 L/min. (Simultaneous fuelling: 40 L/min)	140 L/min. (Simultaneous fuelling: 100 L/min)
	Remote Model	Depends on the on-site submersible pump capacity		
Measuring Accuracy		±0.25%		±0.5%
Flow Meter		Standard: 4-piston type positive displacement meter with electronic calibration system		32mm Lobe meter
		Optional: Mechanical calibration adjuster		
Suction Pumping Unit		Internal silent gear pump with air separator, by-pass valve, suction strainer and check valve		
Suction Head (Suction Model)		4m (Gasoline Column)		
Motor (Suction Model)		Standard: 1-phase induction motor, explosion-proof, 220~240 VAC±10%, 50/60Hz 560W for standard speed, 750W for high speed		
		Optional: 3-phase induction motor, explosion-proof, 380~415 VAC±10%, 50/60Hz 750W		
Counter	Type	Micro-computer type electronic counter (LCD)		
	Character Color	Black characters on a blue field with bright LED back light		
	Display	Price: 8 digits [0.01 ~ 999,999.99] / Readout: 35.0H mm		
		Volume: 7 digits [0.01 ~ 99,999.99] / Readout: 25.4H mm		
		Unit Price: 6 digits [0.01 ~ 9,999.99] / Readout: 15.0H mm		
		※ Depending on POS registration, the display shows ' Price : 6 digits, Volume : 6 digits, Unit price : 4 digits '.		
	Electronic Totalizer	8+2 digits or 7+3 digits		
	Other Functions	Self-diagnosis, Over voltage protector, Battery back-up		
keypad		Optional: Volume and amount can be preset using a 16-key-sheet + 8 programmable one-touch key buttons with click sound		
Totalizer	Totalizer	Electronic: 10 digits [99 999 999.99 Liters]		
	Daily Totalizer	Electronic: 10 digits [99 999 999.99 Liters]		
Electromagnetic Totalizer (Optional)		Mechanical: 7 digits [9 999 999 Liters]		
Reset Device		Automatic reset in Nozzle Hanger		
Nozzle		Standard: Tatsuno nozzle with colored scarf guard / Spout size : OD 21mm or OD 25mm		OD 32mm automatic stop nozzle
		Optional: Ultra nozzle, Trigger, High speed nozzle Compatible with other manufacturers		
Swivel		Standard: Tatsuno single swivel		
		Optional: Tatsuno double swivel, Tatsuno Multi swivel(work with Ultra nozzle) or Compatible with other manufacturers		
Hose		Standard: 3/4"×12 ft, Black, Oil resistant		1B or 1-1/4B×12ft, Black, Oil resistant
		Optional: Color & length by request		
Safety Breakaway Coupling		Standard: Tatsuno (Non-reusable)		
		Optional: Compatible with other manufacturers		
Sight Glass		Optional: Tatsuno original type or Compatible with other manufacturers		Not available
Filter (Suction Model)		Optional: Paper filter		
Filter (Remote Model)		Standard: Paper filter		
		Optional: Reusable metal strainer		
Housing color		Standard: White with black base		
		Optional: Colors by request		
POS Interface		Standard: No POS interface		
		Optional: RS-485, IFSF		
Pulser		Resolution 1mL/pulse		
Initial-setting Method		Keypad, Remote controller, ID-Remote controller		
Flow Control Valve		Proportional valve		
Connection kit for underground piping (Optional)		Suction: Flexible tube, Flange, 1-1/2" threaded		
		Remote: 1-1/2" threaded connection pipe for shear valve use		
Eathquake Sensor (Optional)		Effective against earthquakes with a seismic acceleration level of more than 100 GAL (5+ on the Richter Scale)		
Remote controller		Provided 1 pc per service station		

Note : The delivery speed of the pump may change due to the following condtions if it is used beyond Tatsuno's installation and operational instructions:
1) Size and length of hose
2) Size and type of nozzle/swivel
3) Type of oil product, suction conditions, and local piping conditions
4) With/without presets
Specifications are subject to change with or without prior notice.

Wide body model

2300mm

1280mm   530mm

Narrow body model

2300mm

914mm   530mm
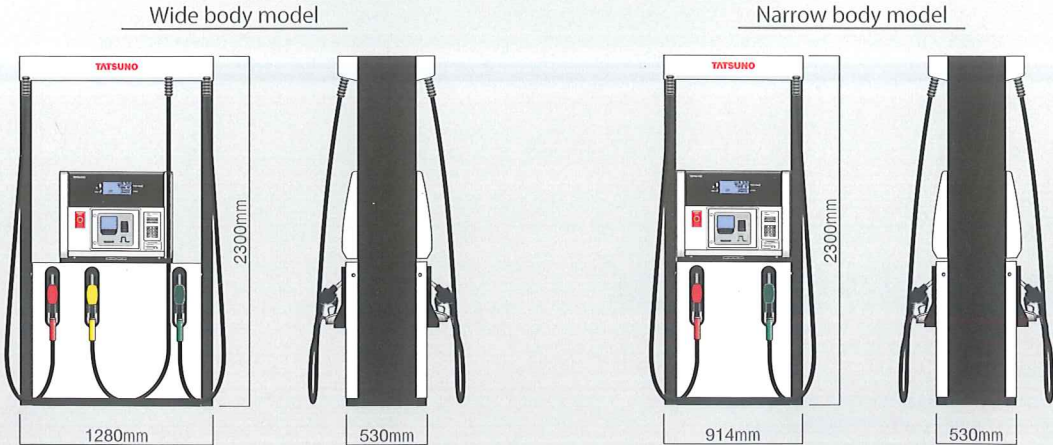
Technology and performance that are highly acclaimed by the world.

All the main components including pumping units, meters,
and nozzles are designed and developed by our own.

We offer you the reliable "Japan Quality" dispenser.

TATSUNO CORPORATION

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