

NOZZLE

G3S19 Diesel Injection Nozzle Technical Data

G1X900000G3S19

G1Z1700000G3S19



NOZZLE
COMMON RAIL
INJECTOR PARTS

G3S19 Diesel Injection Nozzle Technical Data

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G3S19 Diesel Injection Nozzle Technical Data

1. G3S19 Injection Nozzle Introduction

1.1. G3S19 Injection Nozzle's Basic Information

| Title | Injector Nozzle G3S19 China made new | Brand |
|-------|--------------------------------------|--------|
| SKU1 | G1X900000G3S19 | XINGMA |
| SKU2 | G1Z1700000G3S19 | LIWEI |

1.2. G3S19 Injector Nozzle's Common Written Part Number

| Injector Nozzle Order Number | Injector Nozzle Engraved Number |
|------------------------------|---------------------------------|
| 293400-0190 | G3S19 |

1.3. G3S19 Injector Nozzle's Application Information for Injectors

(1) G3S19 Injector Nozzle's Application for Injectors' Part Number

| Injector Part Number | Injector Series | System Pressure | Re-manufactured Part Number | System Pressure |
|----------------------|-----------------|-----------------|-----------------------------|-----------------|
| 295050-0590 | G3 | / | / | / |
| 295050-0860 | G3 | / | / | / |

(2) G3S19 Injector Nozzle's Car Model Matching Information

| Injector Part Number | JOHN DEERE Car Number | Car Number | | |
|----------------------|-----------------------|------------|---|---|
| 295050-0590 | RE543351 | / | / | / |
| 295050-0860 | RE545562/SE5026 71 | | | |

(3) G3S19 Injector Nozzle Part Number Common Writing

093400-8890, G3S19, DLLA 125 P 889, DLLA125 P 889, DLLA125P 889, DLLA 125 P889, DLLA 125P889, DLLA 125P 889

1.4. G3S19 Injection Nozzle's Specifications and Dimensions Parameters

Injection Nozzle Size: 6 cm*1.5cm *1.5 cm

Injection Nozzle Barrel Dimensions: 7 cm *2 cm *2 cm

Injection Nozzle Net Weight: 0.03kg

Injection Nozzle 10 PCS Per Box: 10 cm *8 cm *4cm

Injection Nozzle Weight 10 PCS Per Box : 0.3kg

Injection Nozzle Quality: China Made New Injection Nozzle

Injection Nozzle MOQ: 10 PCS

1.5. G3S19 Injection Nozzle Quality Control

(1) Injection Nozzle Testing

All parts of the injection nozzle are subjected to precision testing, high temperature testing, low temperature testing, withstand pressure testing, leakage testing, durability testing, and various working conditions testing.

(2) Injection Nozzle Inspection

The factory inspection of the injection nozzle is undergone full inspection, random inspection, and batch inspection three inspections. Different brands of test benches are used to test the same Injection Nozzle for a total of no less than three times for factory inspection, and the fuel injector installation testing environment are progressed in dust-free workshop.

(3) Injection Nozzle Installation

When matching the nozzle needle and nozzle, Shumatt strictly complies with the standard of nozzle needle and nozzle clearance technical indicators to ensure that each injection nozzle meets the factory standards and use standards.

1.6. G3S19 Injection Nozzle's Customized Service

(1) **Injection Nozzle's Customized Service:** Meet the customized needs of OEM manufacturers for shell lettering (logo, nozzle part number, date and series number), nozzle without lettering, nozzle tube, nozzle box customized etc.

| | |
|---|--|
|  |  |
| Injection Nozzle Shell Lettering Customized | Injection Nozzle No lettering Customized |
|  |  |
| Xingma Injection Nozzle Tube Customized | Xingma Injection Nozzle Box Customized |
|  |  |
| Liwei Injection Nozzle Tube Customized | Liwei Injection Nozzle Box Customized |

(2) Injection Nozzle's Customized Service Quantity Requirements:

The purchased of customized injection nozzle's shell lettering or without lettering are no less than **100 pieces**.

The purchased of customized injection nozzle tubes are no less than **2000-3000 pieces**.





The purchased of customized injection nozzle boxes are no less than **1000 pieces**.

▲ Customized products involve the need of specify logo, the OEM manufacturer needs to provide trademark authorization and the sample of logo image file.

▲ Once the customized Injection Nozzle is sold, it can't be returned or exchanged if there is no quality problems.

1.7. G3S19 Injection Nozzle's Packing List

(1) Injection Nozzle's Spare Parts List

| No. | 1 | 2 |
|-------------|---|---|
| Image |  |  |
| Name | Injection Nozzle Assy | Xingma Nozzle Tube |
| Description | Injection Nozzle Part Number DLA125P889 | Prevent Nozzle Rusting and Damaging from Collision |
| No. | 3 | 4 |
| Image |  |  |
| Name | Xingma Injection Nozzle Box | Liwei Nozzle Tube |
| Description | 10 PCS/Box | Prevent Nozzle Rusting and Damaging from Collision |
| No. | 5 | / |
| Image |  | / |
| Name | Liwei Injection Nozzle Box | / |
| Description | 10 PCS/Box | / |

- ⚠ Minors are prohibited to use fuel Injection Nozzle assembly, nozzle packing box to avoid injury.
- ⚠ Injection nozzle box is recyclable and can be reused.
- ⚠ Injection nozzle barrels is non-degradable material, please dispose of it properly after use.

1.8. **G3S19** Injection Nozzle's Warranty Instructions

(1) . Injection Nozzle's Warranty Conditions and Instructions

It is necessary to provide pictures, videos, or test reports detected by the injection nozzle inspection equipment when the injection nozzle is abnormal during use as evidence to feed back to the salesman. Abnormal conditions are properly explained such as: 1.Smoke, 2. Engine shake, 3. Difficulty starting the engine, 4. Engine noise, 5. oil leakage etc.

(2) . Injection Nozzle Warranty Coverage

Within 15 days after customer receives the **G3S19** injection nozzle if there is a performance failure and the product has no appearance damage, customer can choose to replace it or repair it;

If the **G3S19** injection nozzle has performance problems during the warranty period (3 months), and it is confirmed that it is product's problems after testing, you can contact our salesmen to replace the same model or a reworked product with the same performance for free;

If the injector house has obvious scratches, it can only be repaired and it will be returned as it is if the product is confirmed to be fault-free.

(3) . Injection Nozzle Out of Warranty Coverage

The warranty period has expired.

Injection nozzle failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.

Injection Nozzle damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).

Injection nozzle failure or injector damage caused by non-injector design, technology, manufacturing, quality and other issues.

Injection nozzle failure due to system pressure exceeding system approved pressure.

Injection nozzle failure caused by system voltage exceeding approved voltage.

Injection nozzle failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceeding the standard requirements.

Injection nozzle failure caused by not installing according to the tightening torque specified in the vehicle engine maintenance manual (the tightening torque is too large or too small).

Injection nozzle failure caused by not following the installation angle specified in the injector maintenance manual.

Injection nozzle failure caused by not following the cleaning requirements specified in the injector maintenance manual.

Injection nozzle failure caused by failure to replace consumable parts as specified in the injector maintenance manual.

1.9. G3S19 Injection Nozzle's Manufacturer

Injection nozzle's manufacturer: Shenzhen Shumatt Technology Co., Ltd

2. G3S19 Injection Nozzle's Technical Support

2.1. G3S19 Injection Nozzle's Installation Precautions

- (1) Clean the injection nozzle in an ultrasonic cleaner for 3-5 minutes before installation, so as to make the stains, dust, rust-proof oil oxides, paraffin base, naphthenic base, intermediate base, salt, lead naphthenate, zinc naphthenate, sodium petroleum sulfonate, barium petroleum sulfonate, calcium petroleum sulfonate, tallow diamine trioleate, rosinamine on the surface of the valve assembly fall off.
- (2) Use compressed air to clean the cleaning fluid attached to the surface of the Injection Nozzle after cleaning, and clean it up to the standard of use, as below

2.2. G3S19 Injection Nozzle Inspection.

- (1) Check whether there is deformation, cracking, thread damage, quenching, leakage and rust in the guide sleeve, spring, gasket and tight cap of the nozzle. The tight cap of the nozzle must be replaced after being disassembled for more than 5 times, as shown in the following.



- (2) Replace the tight cap of the nozzle and the copper gasket of the Injection Nozzle
- (3) Check whether the gap between the nozzle needle and the nozzle shell is within the standard range and whether it reaches the standard for use

- ⚠ All parts should be examined for wear under a microscope at least 20 times larger
- ⚠ Nozzle tight cap deformation, cracking, thread damage, quenching, leakage, will lead to black smoke vehicle cap, fuel injector damage.
- ⚠ Injector opening pressure greater than or less than the specified range may cause injector damage.
- ⚠ Failure to replace wearing parts in time during maintenance may lead to fuel injector damage.

2.3. G3S19 Injection Nozzle Test Measurement

(1) Nozzle opening pressure test

Test whether the opening pressure range of the nozzle is within the range specified in the injector maintenance manual (**to be verified**), if not within the normal range, adjust the nozzle spring to adjust the gasket

- ⚠ If the value is greater than normal, reduce the oil nozzle spring adjusting gasket; if the value is less than normal, increase the oil nozzle spring adjusting gasket.

(2) Stroke Measurement of Nozzle Needle Valve

Use a measuring tool to measure whether the stroke of the nozzle needle valve is within the range (**15-45um**) specified in the injector maintenance manual. If not, adjust the stroke of the nozzle to adjust the gasket.

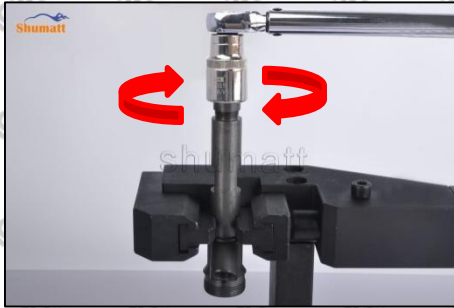


- ⚠ If the value is greater than normal, thicken the gasket for oil-nozzle needle valve lift adjustment; if the value is less than normal, reduce the gasket for oil-nozzle needle valve lift adjustment

2.4. G3S19 Injection Nozzle's Installation

(1) Tightening torque of Injection Nozzle

The torque lever and tightening moment specified in the injector maintenance manual must be installed when the injection nozzle is installed. (**50Nm**)



! The tightening torque of the nozzle cap must be installed in accordance with the tightening torque specified in the injector maintenance manual

2.5. G3S19 Injection Nozzle Testing After Maintenance

(1) After installation, it needs to be tested on the test bench.



! The correct injector type should be selected for testing

(2) The test results need to be ensured that the following items are within the standard data range of the test stand.

LEAK TEST: Test whether sealing test is up to standard or not

In this step, no injector collector should be installed at the nozzle during the test so as to observe whether the nozzle is dripping oil, meanwhile observe that all joints are no oil leaking.

The static oil return of the test should not exceed 8mm²/H, otherwise, you need to check whether the high-pressure sealing ring, valve assembly, and stroke parameters of the injector are within the standard range.

VL: Test whether full load oil (main injection, high speed) is up to standard or not

This step needs to be combined with vehicle driving conditions, such as power, fuel consumption and smoke as well as the maintenance of the engine, if there is situation of insufficient power, fuel consumption is high, thick black smoke and irregularly maintenance of the engine, the engine needs to be maintained according to the maintenance handbook at very first time.

Each of injector part needs to be adjusted and checked if there is any damage according to above situations to ensure the injector is normal. After make sure the injector works normal, you need to reduce the armature stroke if too much oil injection, and increase the armature stroke if too little oil injection.

The error of each injector should be controlled in 6mm³/HH when adjusting.

TL\EM: Test whether the torque point, emission point, exhaust limit, fuel supply reach standard or not

Through this test, it is detected that when the oil injection is too little, the engine's acceleration is slow, vice versa, when the oil injection is too much, the engine's acceleration will produce black smoke and the engine excessive exhaust emissions.

Injection nozzle spring force gasket, armature stroke, lift gasket and solenoid valve spring force gasket determine whether exhaust restriction and injector fuel supply reach standard

LL: Test if the idle fuel supply reaches the standard

This test detects oil injection is too much will cause engine idle smoke, otherwise if the oil injection too little will cause engine idling easy to stall, or difficult to start.

The uneven of oil injection causes the unstable rotation speed of engine , making noise, and increase the engine swing in the acceleration process.

Each injector error should be controlled within 2mm³/HH when adjusting.

Idle speed fuel supply quantity mainly by adjusting the nozzle spring force gasket.

VE: Test whether the pre-injection meets the standard

This test detects when oil injection is too much will cause cylinder knocking while the engine is working and the exhaust emissions is not up to standard (smoke).

While when oil injection is too little will cause big noise while the engine is working, the engine is difficult to start, the engine weak acceleration, slow response of injector.

Each injector error should be controlled within 0.5mm³/HH when adjusting.

2.6. G3S19 Injection Nozzle List of Tools Used During Measurement and Installation

| | | |
|-------------|---|--|
| Image |  |  |
| SKU | CRT084 | CRT220 |
| Description | Torque wrench: 19-110nm 1/2 It is used to control tightening force and angle during installation | Fuel injector stroke measuring tool: is used to measure buffer stroke of fuel injector, armature stroke and remaining air gap |
| Image |  |  |
| SKU | CRT079 | / |
| Description | Micrometer: is used to measure gasket thickness | Ultrasonic cleaning machine: is used for cleaning fuel injector and parts |
| Image |  | / |

| | | |
|-------------|--|---|
| SKU | CRT281 | / |
| Description | Common rail injector test bench: check the injector working condition | / |

2.7. G3S19 Injection Nozzle Causes of Damage

- (1) Fuel injection nozzle failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in fuel exceeding standard requirements.
- (2) The nozzle is normally worn due to long time working under high temperature
- (3) Nozzle needle wear leads to oil hole blockage, insufficient fuel injection injector cannot work properly.

⚠ Nozzle needle wear leads to oil hole blockage, insufficient fuel injection injector can't work properly.

⚠ The wear of the nozzle leads to the increase of fuel quantity, resulting in black smoke of the vehicle, and the fuel injector can't work properly when it is serious.

⚠ If the nozzle needle can't move smoothly stuck may cause serious damage to the Injection Nozzle

⚠ The rusting of the nozzle spring leads to spring fracture and black smoke from the vehicle.

⚠ The opening pressure of the nozzle decreases, and the oil quantity of the injector increases, leading to black smoke of the vehicle, and the injector can't work properly when it is serious.

⚠ Oil-nozzle needle valve lift adjustment gasket wear oil-nozzle needle valve stroke becomes larger, the fuel injector oil quantity becomes larger, resulting in black smoke of vehicles, resulting in the fuel injector can't work properly when serious.

⚠ The cracking of the nozzle cap is caused by high intensity work under high temperature.

2.8. G3S19 Injection Nozzle Technical Support Obtaining Methods

- (1) Injection Nozzle Technical File, visit <http://shumatt.com> to get the technical file
- (2) **Injector Technical Videos**

Facebook: Visit <https://www.facebook.com/hison.li> constantly follow can get more information.

YouTube: https://www.youtube.com/channel/UCByvYBx7VjV_mAfxh_Hu-aw to get the technical videos, constantly follow can get more information.

Shumatt: Visit <http://shumatt.com> to get the technical videos.

- (3) Injection Nozzle Information Query Software

TruckBook Parts EPC APP, Android/Apple App Store download and install, visit <http://shumatt.com> to get the download and installation tutorial

- (4) Search The valve assembly test data through TruckBook Parts EPC APP.

3. G3S19 Injection Nozzle's Purchase and Delivery.

3.1. G3S19 Injection Nozzle's Purchase Payment Terms

Payment Terms: T/T, PayPal, Alipay, WeChat

Please contact our salesmen for specific payment information.

3.2. G3S19 Injection Nozzle's Main Sales Market.

Injection nozzle's main sales markets: Asia, Europe, North America, South America, Africa etc.

3.3. G3S19 Injection Nozzle's Declaration Requirements

Shumatt can assist customers to provide the following documents for import customs clearance: contract, invoice, packing list, bill of lading, insurance policy, certificate of origin, etc.

3.4. G3S19 Injection Nozzle's Shipping Ways

Destination in China areas: SF Express, Debon Express, the corresponding logistics company can be provided according to customer requirements in special cases.

Destinations out of China's areas: DHL, UPS, FedEx, TNT air, ocean or other shipping methods required by customers.

3.5. G3S19 Injection Nozzle's Lead Time

Lead time: Send out within 3 – 7 working days after receiving payment (Except for special products and special cases).

3.6. G3S19 Injection Nozzle's Logistics Time for Destination Out of China's Areas

DHL Logistics Time:

| Country or Region of Departure | Hong Kong, China | Other Countries or Regions of Asia | Australia and New Zealand | Europe | America | Other Countries |
|--------------------------------|------------------|------------------------------------|---------------------------|--------|-----------|-----------------|
| China's Mainland | 7 Days | 7 Days | 8 Days | 8 Days | 8-12 Days | 7-10 Days |

UPS Logistics Time: Country or Region of Departure: China's Mainland

| Country of Destination | Estimated Arrival Time | Country of Destination | Estimated Arrival Time | Country of Destination | Estimated Arrival Time |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Japan | 3 Days | UK | 5-7 Days | Egypt | 5-7 Days |
| Turkey | 5-7 Days | Singapore | 3 Days | Switzerland | 5-7 Days |
| Bahrain | 5-7 Days | Latvia | 7-10 Days | New Zealand | 7-10 Days |
| Sri Lanka | 5-7 Days | Thailand | 3 Days | Austria | 5-7 Days |
| Romania | 5-7 Days | Vietnam | 3-5 Days | Estonia | 5-7 Days |
| Malaysia | 3-5 Days | Israel | 5-7 Days | Mexico | 7-10 Days |
| France | 5-7 Days | America | 5-7 Days | United Arab Emirates | 5-7 Days |
| Italy | 5-7 Days | Netherlands | 5-7 Days | Bengal | 7-10 Days |
| Lebanon | 5-7 Days | Philippine | 3-5 Days | Greece | 7-10 Days |
| South Korea | 3 Days | Spain | 5-7 Days | Myanmar | 5-7 Days |
| Canada | 5-7 Days | Germany | 5-7 Days | Saudi Arabia | 7-10 Days |
| Portugal | 5-7 Days | Australia | 5-7 Days | South Africa | 7-10 Days |
| Denmark | 5-7 Days | Belgium | 5-7 Days | Ukraine | 7-10 Days |
| India | 7-10 Days | Qatar | 7-10 Days | Poland | 5-7 Days |
| Indonesia | 3-5 Days | Morocco | 7-10 Days | Pakistan | 7-10 Days |
| Kuwait | 7-10 Days | | | | |

The logistics time is for reference only, subjects are according to the actual arrival.

3.7. G3S19 Injection Nozzle's Packing

Domestic express packaging: Usually wrapped in waterproof scotch tape, such as picture No.1.

International express packaging: Wrapped with waterproof yellow tape After wrapping the black protective film, such as picture No. 2.

Pallet Shipping: Use fumigation free and recycling trays that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties for the outside, such as picture No. 3, Also, the products can be packaged according to customers' requirements.



The packing tray is made of plastic and can be recycled.



Transparent tape, yellow tape, black wrapping protective film, white wrapping protective film are non-degradable materials, please dispose of them properly.



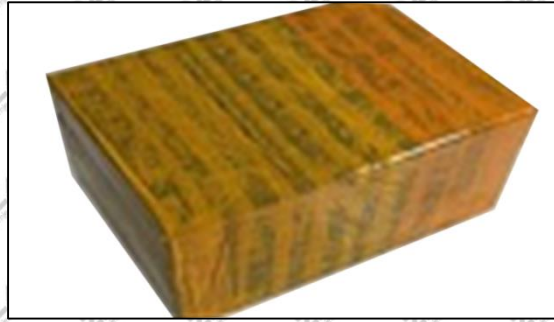
Minors are prohibited from using transparent tape, yellow tape, black wrapping protective film, and white wrapping protective film to avoid personal injury.



Pic No.1

Domestic express packaging:

Wrapped by Transparent tape



Pic No.2

International express packaging:

Wrapped with yellow tape after wrapping black protective film



Pic No.3

Pallet Shipping: Use pallet that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties.

4. G3S19 Injection Nozzle's Storage Standard

(1) Choose a suitable storage place

The warehouse and cargo yard where the fuel injector is stored should be kept clean and dry, and away from the factory buildings that generate harmful gases and dust; do not mix with acid, alkali, salt and other substances; the storage place should have a good drainage system; the cargo yard should be flattened with gravel or furnace ash etc. to enhance the water permeability of the surface layer to keep the reservoir area dry.

(2) Strict requirements of warehousing

Strict inspections should be carried out when the fuel injectors are put into storage, the surface cleaning work should be done well to remove water traces, oil stains, ash and other dirt, remove the rust and do anti-rust treatment in time. Packaged injectors must be protected from damage.

(3) Keep the warehouse dry and preventing moisture

The relative humidity is usually below 70% for the fuel injectors placed in the room, and the corrosion of the fuel injectors is significantly reduced.

Injectors must be stored in the warehouse, and they are forbidden to store in the same warehouse with commodities with high water content.

(4) Stack Properly


After the injector is exposed to rain, the corrosion rate will increase significantly. The purpose of sealing is to isolate the injector from rainwater and humid air, so the warehouse window should be checked in time to avoid rainwater entering the warehouse


If the fuel injector package is damaged, it should be repaired or replaced; when the package is damp, the packaging material should be dried; if the original anti-corrosion and oil applied at the factory is found to be damaged or dried up, it should be cleaned and re-applied oil in time.

- ▲ It is forbidden to leave the injector exposed in the air for a long time.
- ▲ It is forbidden to store acid, alkali, salt and other substances together with the injector.
- ▲ The unpacked fuel injector must be rust-proof during secondary storage.

5. Company Information



 Office Locations

 Global Exhibitions

5.1. Company Introduction

Chinese Name: 深圳市舒马特科技有限公司

English Name: Shenzhen Shumatt Technology Co., Ltd

Mob Phone/WeChat: +86-13410541523

HK Telephone: +852-67653519

Telephone: +86-755-23215133

Email: ruby@shumatt.com

Website: www.shumatt.net

Shenzhen Office: 11-12, Floor 14, Building 13, Qinchengda Building, Exit A, Honglang North Subway Station, Bao'an District, Shenzhen, China's Mainland

Shenzhen Office: Room 428-430, Building B, Huafeng Zhigu Technology Industrial Park, Exit B, Fuyong Metro Station, Bao'an District, Shenzhen, China's Mainland

Hong Kong Office: Jianfa Street Industrial Zone, Tuen Mun, New Territories, Hong Kong, China

After-sales Service Address: Please contact our salesmen to obtain and provide the corresponding product maintenance reasons (Reference: [1.8. G3S19 Injection Nozzle's Warranty Instructions](#))

5.2. Sales-men's Contact Information

| Name | WeChat/ WhatsApp | Email |
|------|------------------|-------------------|
| Ruby | +86-13410541523 | Hison@shumatt.com |

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