

## Injector Nozzle G3S120 Technical file

**G1X90000G3S120**

**G1Z170000G3S120**

**G1HX16000G3S120**

**L1000D5D0G3S120**

**G1S80000G3S120**



## Injector Nozzle G3S120 Technical File

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## G3S120 Injector Nozzle Technical File

### 1. G3S120 Injector Nozzle Introduction

#### 1.1. G3S120 Injector Nozzle's Basic Information

Title	Injector Nozzle G3S120 China made new	Brand
SKU1	G1X90000G3S120	XINGMA
SKU2	G1Z170000G3S120	LIWEI
SKU3	G1HX16000G3S120	Shumatt
SKU4	L1000D5D0G3S120	China made
SKU5	G1S80000G3S120	Greenpower

#### 1.2. G3S120 Injector Nozzle's Common Written Part Number

Injector Nozzle Order Number	Injector Nozzle Engraved Number
293400-1200	G3S120

#### 1.3. G3S120 Injector Nozzle's Application Information for Injectors

##### (1) G3S120 Injector Nozzle's Application for Injectors' Part Number

Injector Part Number	Injector Series	System Pressure	Re-manufactured Part Number	System Pressure
295050-1040	G3	/	/	/
295050-2380	G3	/	/	/

##### (2) G3S120 Injector Nozzle's Car Model Matching Information

Injector Part Number	DCEC Car Number	Car Number		
295050-1040	5284016		/	/
295050-2380	5365904			

##### (3) G3S120 Injector Nozzle Part Number Common Writing

293400-1200, G3S120

#### 1.3.G3S120 Injector Valve Assembly's Specifications and Dimensions Parameters

Injector Nozzle Size: 6 cm\*1.5cm \*1.5 cm

Injector Nozzle Barrel Dimensions: 7 cm \*2 cm \*2 cm

Single Injector Nozzle Weight: 0.03kg

Injector Nozzle 10 PCS Per Box: 10 cm \*8 cm \*4cm

Injector Nozzle Weight 10 PCS Per Box : 0.3kg

Injector Nozzle Quality: China Made New Injector Nozzle

Injector Nozzle MOQ: 10 PCS

#### 1.4.G3S120 Injector Nozzle Quality Control

##### (1) Injector Nozzle Testing

All parts of the injector 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) Injector Nozzle Inspection

The factory inspection of the injector nozzle is undergone full inspection, random inspection, and

batch inspection three inspections. Different brands of test benches are used to test the same injector 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) Injector Nozzle Installation**

When matching the valve cap and valve stem, Shumatt strictly complies with the standard of valve cap and valve stem clearance technical indicators to ensure that each valve assembly meets the factory standards and use standards.

**1.5.G3S120 Injector Nozzle's Customized Service**

**(1) Injector Nozzle's Customized Service:** Meet the customized needs of OEM manufacturers for shell lettering, logo engraving, injector internal packaging, injector external packaging and labels customized, etc.

Injector Nozzle Shell Lettering Content Customization	Injector Nozzle Without lettering Customization	Injector Nozzle Barrel Customization
	/	/
Injector Nozzle Packaging Box Customization	/	/

**((2) Valve Assembly's Customized Service Requirements:**

Customized valve assembly box are no less than 100 pieces.  
 Customized valve assembly groove no less than 100 pieces.  
 The purchased of customized valve assembly are no less than 1000 pieces.  
 The purchased of customized valve cap engraving contents are no less than 1000 pieces.  
 The purchased of customized valve colors are no less than between 1000 -10000 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 injector valve assembly is sold, it can not be returned or exchanged if there is no quality problems.

**1.6.G3S120 Injector Nozzle's Packing List**

**(1) Injector Nozzle's Spare Parts List**

Serial Number	1	2	3
Image			
Name	Injector Nozzle Assy	Nozzle Barrels	Injector Nozzle Packing Box
Description	Injector Nozzle Part Number G3S120	Prevent Nozzle Rust, Know Against	10 PCS/Box

▲ Minors are prohibited to use fuel injector nozzle assembly, nozzle packing box

to avoid injury.

▲ Injector nozzle box is recyclable and can be reused.

▲ Injector nozzle barrels is non-degradable material, please dispose of it properly after use.

## 1.7. G3S120 Injector Nozzle's Warranty Instructions

### (1) . Valve Assembly Warranty Conditions and Instructions

It is necessary to provide pictures, videos, or test reports detected by the injector valve assembly inspection equipment when the valve assembly 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) . Valve Assembly Warranty Coverage

Within 15 days after customer receives the G3S120 injector 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 G3S120 injector 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) . Injector Valve Assembly Out of Warranty Coverage

The warranty period has expired.

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

Injector valve assembly damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).

Injector valve assembly failure or injector damage caused by non-injector design, technology, manufacturing, quality and other issues.

Injector valve assembly failure due to system pressure exceeding system approved pressure.

Injector valve assembly failure caused by system voltage exceeding approved voltage.

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

Injector valve assembly 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).

Injector valve assembly failure caused by not following the installation angle specified in the injector maintenance manual.

Injector valve assembly failure caused by not following the cleaning requirements specified in the injector maintenance manual.

Injector valve assembly failure caused by failure to replace consumable parts as specified in the injector maintenance manual.

## 1.8. G3S120 Injector Nozzle's Manufacturer

## 2. G3S120 Injector Valve Assembly Technical Support

### 2.1. G3S120 Injector Nozzle's Installation Precautions

(1) Clean the injector valve assembly 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 valve assembly after

cleaning, and clean it up to the standard of use, as below

## 2.2. G3S120 Injector 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 injector 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. G3S120 Injector 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 travel of the nozzle needle valve is within the range(15-45um) specified in the injector maintenance manual. If not, adjust the travel of the nozzle to adjust the gasket.

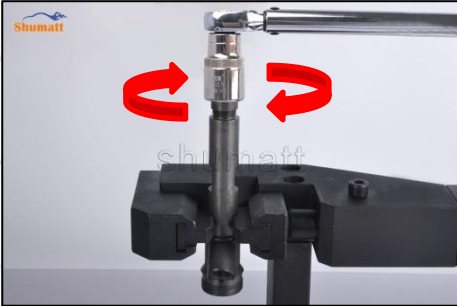


If the value is greater than normal, thicken the gasket for oil-nozzle needle valve lift adjustment; if the value is less than normal, reduce the gasket for oil-nozzle needle valve lift adjustment

## 2.4. G3S120 Injector Nozzle's installation

(1) Tightening torque of injector nozzle

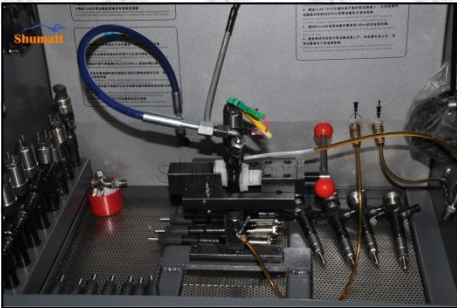
The torque lever and tightening moment specified in the injector maintenance manual must be installed when the injector nozzle is installed. **(50Nm)**



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

## 2.5. G3S120 Injector Nozzle Test 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 ensure that the following items are within the standard data range of the test stand

### LEAK TEST: Sealing test is up to standard

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, and observe that all joints are not allowed to leak oil. The static oil return of the test should not exceed 8mm<sup>2</sup>/H. Otherwise, check whether the high-pressure sealing ring, valve assembly, and travel parameters of the injector are within the standard range

### VL: Full load oil (main injection, high speed) is up to standard

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 insufficient power, fuel consumption is high, the state of thick black smoke cutting engine not according to stipulated time for maintenance is the need to be adjusted more flexible when maintenance the above situation to adjust and monitor the wear and tear of the injector parts, ensure parts after normal if large amount of oil is proper small trip, If the amount of oil is too small, adjust the stroke, and the error of each injector should be controlled at 6mm<sup>3</sup>/HH

### TL\EM: Torque point emission point exhaust limit whether the fuel supply is up to standard

Through this test, it is detected that the oil quantity is small, the acceleration is slow, and the black smoke emission exceeds the standard, which is determined by the oil nozzle spring force gasket, armature stroke, lift gasket and solenoid valve spring force gasket

### LL: Is the idle fuel supply up to the standard

The test oil is too much idle smoke, too small throw throttle flameout, difficult to start, oil non-uniformity exceeds the standard when the car, noise, the engine swing in the acceleration process, each injector error should be controlled within 2mm<sup>3</sup>/HH, mainly by the nozzle spring force gasket adjustment

### VE: Whether the pre-injection meets the standard

Through this test detection is too big knock cylinder smoke, too small noise, bad start, weak acceleration, fuel injector response time is slow, each injector error should be controlled within 0.5mm<sup>3</sup>/HH

**2.6. G3S120 Injector Nozzle List of tools used during measurement and installation**

Image			
SKU	CRT084	CRT220	CRT079
Description	Torque wrench: 19-110nm 1/2 used to control tightening force and Angle during installation	Fuel injector stroke measuring tool: used to measure buffer stroke of fuel injector, armature stroke and remaining air gap	Micrometer: used to measure gasket thickness
Image			
SKU		CRT281	
Description	Ultrasonic cleaning machine: used for cleaning fuel injector and parts	Common rail injector test equipment: check the injector working condition	

**2.7. G3S120 Cause of Damage to Injector Nozzle**

- ( 1 ) Fuel injector 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 can not work properly.

- ⚠ Nozzle needle wear leads to oil hole blockage, insufficient fuel injection injector can not work properly.
- ⚠ The wear of the nozzle nozzle leads to the increase of fuel quantity, resulting in black smoke of the vehicle, and the fuel injector can not work properly when it is serious.
- ⚠ If the nozzle needle can not move smoothly stuck may cause serious damage to the injector 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 not work properly when serious.

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

**2.8. G3S120 Injector Nozzle Technical Support Obtaining Methods**

- ( 1 ) Valve assembly Technical fail , 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](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 ) Valve Assembly 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. G3S120 Injector Nozzle's Purchase and Delivery.

#### 3.1. G3S120 Injector Nozzle's Purchase Payment Terms

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

Please contact our salesmen for specific payment information.

#### 3.2. G3S120 Injector Nozzle's Main Sales Market.

**Injector Nozzle's main sales markets:** Asia, Europe, North America, South America, Africa etc.

#### 3.3. G3S120 Injector 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. G3S120 Injector 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. G3S120 Injector 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. G3S120 Injector 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.

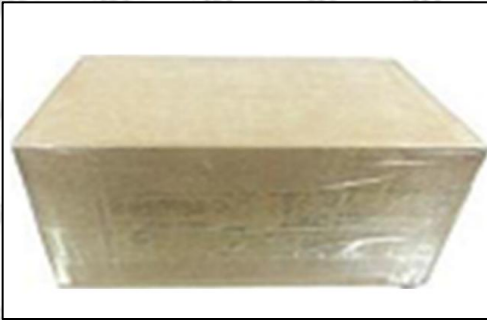
### 3.7. G3S120 Injector Nozzle's Packing

**Domestic express packaging:** Usually wrapped in waterproof scotch tape, such as picture No.2.

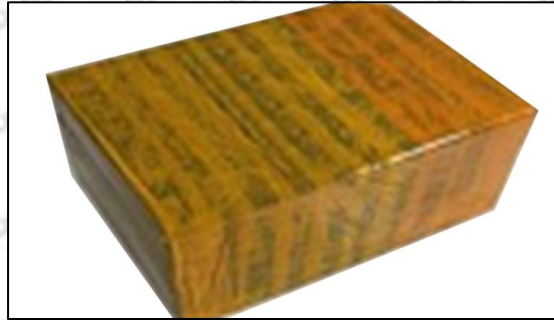
**International express packaging :** Wrapped with waterproof yellow tape After wrapping the black protective film, such as picture No. 3.

**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. 4,  
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.2



Pic No.3

**Domestic express packaging :**  
Wrapped by Transparent tape  
black protective film

**International express packaging :**  
Wrapped with yellow tape after wrapping



Pic No.4

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

#### 4.G3S120 Injector 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 acids, alkalis, salts 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 acids, alkalis, salts and other substances together with the injector.

The unpacked fuel injector must be rust-proof during secondary storage.

#### 5. Company Information



##### 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](mailto:ruby@shumatt.com)

**Website:** [www.shumatt.net](http://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: 1.7. [G3S120 Injector Warranty Instructions](#))

## 5.2. Salesmen's Contact Information

No.	Name	WeChat/ WhatsApp	Email	Facebook	YouTube
1	Ruby	+86-13410541523	<a href="mailto:ruby@shumatt.com">ruby@shumatt.com</a>	Hison Li	Hison Li
2	Ivy	+86-18025309821	<a href="mailto:sales@shumatt.com">sales@shumatt.com</a>	Ivy Shumatt	Shumatt IVY
3	Rebecca	+86-18025349821	<a href="mailto:sales01@shumatt.com">sales01@shumatt.com</a>	Rebecca SHUMATT	SHUMATT Rebecca
4	Janny	+86-18028749821	<a href="mailto:sales02@shumatt.com">sales02@shumatt.com</a>	Janny shumatt	Janny Shumatt
5	Sam	+86-13316859821	<a href="mailto:Sales8@shumatt.com">Sales8@shumatt.com</a>	Shumatt Sam	Sam Shumatt
6	Natalie	+86-18938945856	<a href="mailto:sales15@shumatt.com">sales15@shumatt.com</a>	Shumatt Natalie	Lin Natalie
7	Ada	+86-1342286353	<a href="mailto:sales5@shumatt.com">sales5@shumatt.com</a>	Shumatt Ada	Ada Shumatt
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12	Sylvia	+86 18312499884	<a href="mailto:sales6@shumatt.com">sales6@shumatt.com</a>		

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PS: Shumatt's salesmen's emails are all end with [@shumatt.com](mailto:@shumatt.com)

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