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0445120320 Injector CRIN3-18 Technical File

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0445120320 Injector CRIN3-18 Technical File

1.0445120320 Injector's Introduction

Shan Shan -28⁻⁵¹ - State State 1.1. 0445120320 Injector's Basic Information

SHIRT SHIRT SH	NAT STRATT STRATT STRATT STRATT STRATT STRATT STRATT STRATT
Title	China made new high quality diesel injector 0445120320 fuel injector CRIN3-18
STARTER STARTS	CALL STRUCT STRUCT STRUCT STRUCT STRUCT STRUCT STRUCT STRUCT STRUCT
SKU	G1W20445120320
SKU SKU	

1.2. 0445120320 Injector's Commo bn Part Number

(1) Injector's Exchange Information

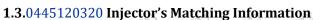
Injector Part Number	Universal Part Number	Re-manufactured Part Number
0445120320	0445120341	0 986 435 592/0 986 435 593

(2) Injector's Application Information

Injector's Part Number	MAN Car Model
0445120320	store store store store store store store store store
0445120341	51 10100 6169
0 986 435 592	51 10100 6169
0 986 435 593	51 10100 6181
Strand, Strand, Strand, Strand,	Strend

(3) Injector Part Number's Common Writing

0445120320, 0 445 120 320, 0445 120 320, 0445120 320, 0 445120320, 0 445120 320, 0445120341, 0 445 120 341, 0445 120 341, 0445120 341, 0 445120341, 0 445120 341, 0 986 435 592, 0 986 435 593



Vehical brand	Series	Car Model	Engine Model	Production date	Power KW	Horse power	Emission Standards	Manufacturer	Emissions(L)	Cylinder	Power Source V
5	e 3	2° - 38°	S.	3.94	Store .	51 ⁰⁻⁰	S. S.	- S	3° 3	er. 36	
/	w ^{ast} "	State - 3	and and	The state	137000	and the	al Total	The all the	and the a	All all	

1.4.0445120320 Injector's Parameter

Adaptation System: Common Rail System

Injector Series: 120 Series

Parameter Performance: CRIN2-16

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Matching Accessories: Gasket F 00R J01 086 (7.73*14.36*1.49) Injector Type: Electromagnetic Injector Support System Maximum Pressure: 1,800 Vehicle Configuration Information: MAN

1.5.0445120320 Injector's Specifications and Dimensions Injector Size: 21.5cm*4 cm *4 cm = 344cm³ (L*W*H=V) Injector Net Weight: 0.55kg Gross Weight: 0.6kg Injector Quality: China Made Brand New Package Size: 28cm*7 cm *7 cm = 1372 cm³ Injector Type: Diesel Common Rail Injector MOQ: 4 Pieces

1.6. 0445120320 Injector's Quality Control 43.57 FT

(1) Injector Testing

All injector spare parts are tested for electrical characteristics, accuracy, high temperature, low temperature, withstand voltage, leakage, durability, and various working conditions. $S^{\mathbb{R}^{2^{2}}}$ $\mathcal{D}^{\mathcal{W}}$

(2) Injector Assembling

And the quality control of the injector production and installation process, our company strictly follows the standard product installation data and product installation steps to install, such as injector stroke test, injector solenoid valve tightening torque, injector nozzle tightening torque,

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(3) Injector Inspection

The factory inspection of the injector is undergone full inspection, random inspection, and batch inspection three inspections. Different brands of test benches are used to test the same fuel injector 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.

1.7. 0445120320 Injector's Customized Service

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and the

(1) Injector'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.

(2) Injector's Customized Service Requirements: The purchased of customized injector are not less than 10 pieces.

Customized injector packages no less than 1000 pieces. N STORES 1. 18 M Customized products involve the need of specify logo, the OEM manufacturer needs to provide trademark authorization and the sample of logo image file.

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A Once the customized fuel injector is sold, it cannot be returned or exchanged if there is no quality problems.

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(1) Injector Spare Parts List	5
all No. all all all all all all all all all al	all all
	518
Name Fuel Injector O-Ring Gasket F 00R	J01 086
Description Fuel injector part number: 0445120320 Ensure to meet the standard of the sealing performance between the injector and the engine Made of brass, used tight fit between the and the engine	
No. ²⁰¹ 201 201 4 201 201 201 201 201 201 6	
	1 ¹⁷ 31 ²
Name Nozzle Protective Cover Cap Injector House Protective Cover Cap Solenoid Valve Pro	otective Can
Description Protect nozzle holes from being polluted and blocked Protect oil inlet from being polluted and blocked Protect the solenoid value being polluted and blocked Protect the solenoid value being polluted and blocked Protect the solenoid value being polluted and blocked	valve body and
2 ¹¹ No.2 ¹² 2 ¹	de de
	500
Name VCI Anti-rust Bag Bubble Bag Injector Pack	0
Description Prevent fuel injector from rusting Prevent fuel injector from damaged by external forces Place injector and injector and injector	ector

▲ Minors are forbidden to use the fuel injector assembly, O-ring, gasket, nozzle protective cover, fuel injector house protective cover, solenoid valve protective cover, VCI anti-rust bag, and air bubble bag to avoid personal injury.

O-ring and gasket are disposable installation accessories, and need to be replaced for re-installation.

▲ The nozzle protective cover, the injector house protective cover, and the solenoid valve protective cover are recyclable accessories that can be reused.

▲ VCI anti-rust bags and bubble bags are non-degradable materials, please dispose of them properly after using.

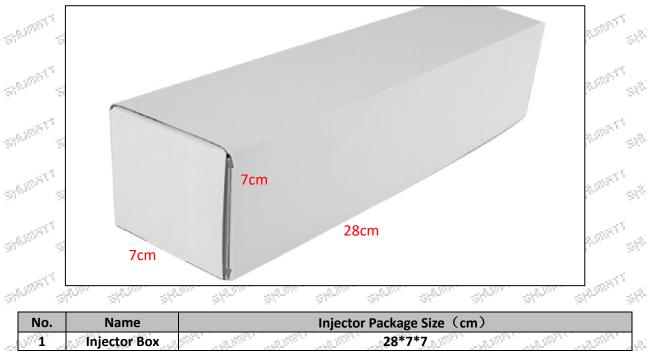
▲ The injector and the installation parts should be coated with appropriate sealing oil during installation.

(2) Injector Box Size

States - States - States

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1.9.0445120320 Injector's Testing Standard and Certificate

We can provide the factory quality inspection test report of each injector to ensure that each injector delivered meets the engine performance indicators.

- Store	- Same	100	-55	Preserve Stream 24	TOWLL PROPERTY	SPUDDET	SPARTINE	States -	R.M.S.T.	
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型号-零件号:				. <u>3.</u> 3.	244	20	241 3	p. 25		- 19 C
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1.10.0445120320 Injector's Warranty Instructions

(1) . Product Warranty Conditions and Instructions

It is necessary to provide pictures, videos, or test reports detected by the injector inspection equipment when the injector is abnormal during use as evidence to feed back to the salesman.

e 1. -

Abnormal conditions are properly explained such as: 1.Smoke, 2. Engine shake, 3. Difficulty starting the engine, 4. Engine noise, 5. oil leakage etc.

The The Area and

(2) . Injector Warranty Coverage

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Within 15 days after customer receives the 0445120320 injector, if there is a performance failure and the product has no appearance damage, customer can choose to replace it or repair it;

If the 0445120320 injector 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 Store. product is confirmed to be fault-free.

▲ Tips: For products not covered by warranty, our company can provide paid maintenance services. For products after paid repaired, the same performance problem will have a free warranty period within 3 $\leq 1^{2}$ months from the date of repairing.

(3) . Injector Out of Warranty Coverage

The warranty period has expired.

Stam. Injector failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, WERE'S WART'S earthquake, and used in abnormal environment.

Customer disassembles or repairs the injector personally resulting in damage to the injector.

Injector damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire). Injector failure or injector damage caused by non-injector design, technology, manufacturing, quality and other issues.

Injector failure due to system pressure exceeding system approved pressure.

Injector failure caused by system voltage exceeding approved voltage.

Injector failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system SHARE fuel exceeding the standard requirements. 37.50

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

Injector failure caused by not following the installation angle specified in the vehicle engine maintenance manual. 11 a -

Injector failure caused by not following the cleaning requirements specified in the vehicle engine maintenance manual.

Injector failure caused by failure to replace consumable parts as specified in the vehicle engine maintenance manual.

Injector failure caused by not complying with the intake system fit clearance and exhaust system fit clearance requirements specified in the vehicle engine maintenance manual.

Failure to replace the consumable parts and the fitting clearance of the oil inlet system pipeline and the fuel injector connection in accordance with the fuel intake system specified in the vehicle engine maintenance manual.

1.11.0445120320 Injector's Manufacturer

Injector's manufacturer: Shenzhen Shumatt Technology Co., Ltd

2.0445120320 Injector Technical Support

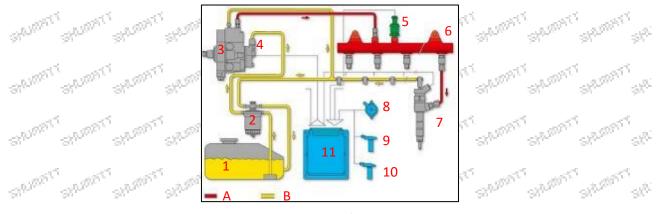
255T 139¹⁷ and the and the 1997 - Car 2.1.0445120320 Injector's Part Number Location

1) E.g.: The injector part number see as follows . 1997 -

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2.2.0445120320 Injector's Application Scenarios

Common rail system is an oil supply method refers to the diesel oil from the fuel tank sucked out by the gear pump through the oil-water separator and the gear pump to diesel fine filter, high-pressure pump, common rail pipe, and fuel injector, all together with the closed-loop fuel supply system composed of sensors and ECU that completely separates the generation of injection pressure and the injection process from each other.



	5 25 2	6	Pic	: No. 1		15	25 25
No.	Name	No.	Name	No.	Name	No.	Name
1	Tank	c ⁵ _	Common Rail Pressure Sensor	9	Engine Crankshaft Sensor	A	High Pressure Oil Circuit
2	Diesel Filter	6	Common Rail Pipe	10	Camshaft Sensor	BS₽	Low Pressure Oil Circuit
3	High-Pressure Pump	ر ۲	Injector	11	ECU Electronic Control Unit	and i	The The
4	Fuel Gear Pump	- 8	Accelerator Pedal	all and a second	all all all	e de	l'all'all

2.3.0445120320 Injector's Installation

(1) .0445120320 Injector's Installation Precautions:

▲ The replacement of the fuel injector must strictly follow the electrical system, the approved pressure of the low-pressure fuel intake system, the approved pressure of the high-pressure fuel circuit system, and fuel system replacement consumables requirements (including the low-pressure fuel circuit system filter and the high-pressure fuel circuit) specified in the vehicle engine maintenance manual,

5²⁰

A Replacement of wearing parts of the fuel system, cleaning requirements for the connection between the fuel system and the injector, the fitting clearance of the fuel injector connection, the installation angle and tightening torque of the injector, the fitting clearance of the intake system, and the fitting clearance of the exhaust system to ensure the service life of the engine and the normal operation of the injector.

▲ When installing the fuel injector on the engine, it is necessary to clean the engine block, cylinder head and other parts connected to the fuel injector, and ensure that there is no dust, carbon deposits, water, rust spots, etc.

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▲ Before installing, check whether the fuel injector nozzle gasket has been replaced and installed on the fuel injector.

When installing the fuel injector, apply lubricant between the fuel injector, fuel nozzle sealing gasket and O-ring.

Without replacing new gasket can lead to: deformation of the tight cap of nozzle, deformation of nozzle, deformation of nozzle, oil leakage and air leakage, which will cause serious damage to the fuel injector and nozzle to break and cause damage to the engine.

▲ When installing the injector on the engine, please carefully check the components related to the installation of the injector, such as the injector pressure plate, screw, injector rod and other accessories are not deformed, and install it in strict accordance with the operation steps of the engine maintenance manual.

▲ It is forbidden to operate the bare injector for a long time in an environment with serious dust pollution and corrosion to iron products.

▲ It is forbidden to operate the bare injector for a long time in a strong magnetic field environment.

2.4. 0445120320 Injector 's Reasons for Not Working Normally

(1) There is air in the oil circuit of the engine fuel system.

(2) Vehicle oil pump oil supply system is not normal.

(3) Engine common rail system oil leakage or pressure limiting valve damage.

(4) There is a short circuit, cutting out and poor contact in the wiring harness connected to the fuel injector of the vehicle.

(5) The long-term placement of the injector causes the anti-rust oil to solidify, and the internal components are stuck or the oil holes are blocked.

A Before installing, carefully check whether other components in the common rail system except the fuel injector are damaged so as to prevent the fuel injector from not working properly after being replaced.

2.5. 0445120320 Injector 's Causes of Damage

(1) Didn't operate properly according to engine maintenance manual during disassembly or installation, resulting in damage to the injector .

(2) The fuel oil used for the vehicle does not meet the standard cause damage to the injector, such as: the water content in the fuel oil exceeds the standard, iron powder, aluminum powder, sulfide impurities exceed the standard, etc.

(3) The engine is not regularly maintained according to the engine maintenance manual (please refer to the vehicle maintenance manual for the maintenance mileage). For example, failure to replace the lubricating oil of the engine system for a long time will cause abnormal wear of the engine, excessive exhaust gas volume or a large amount of carbon deposits inside the engine. The filter is not replaced during maintenance or the replaced filter cannot reach the original filter standard. all above reasons can cause damage to the injector.

(4) The abrasion of the oil pump produces iron powder and aluminum powder enter the fuel injector and cause damage to the fuel injector.

(5) The deformation and abrasion of fuel tank result in iron powder or aluminum powder entering the fuel injector and causing damage to the fuel injector.

(6) The fuel injector is damaged due to replacement or adjustment of the relevant parts of the fuel injector. For example, the valve clearance does not meet the standard after the engine is repaired, the replacement or modification of the wiring harness connected to the injector fails to meet the original standard.

(7) The engine is overheated and overloaded for a long time working results in damage to the fuel injector.

(8) The injector will be damaged naturally at the end of its working life.

(9) The injector is magnetized (injector parts' magnetic exceeded) causing the injector to not work properly. A Before replacing the fuel injector, please check the engine parts carefully according to the engine maintenance manual to avoid the fuel injector being damaged again after replacement. $S^{(r)}$

2.6.0445120320 Injector's Technical Support Obtaining Methods

(1) Injector Technical File, visit <u>http://shumatt.com</u> to get the technical file.

(2) Injector Technical Videos

125 1200 100 180 $\mathcal{A}^{(n)}$ Facebook: Visit https://www.facebook.com/hison.li to get the technical videos, 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 <u>http://shumatt.com</u> to get the technical videos.

(3) Injector Information Query Software

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

(4) Search The fuel injector test data through TruckBook Parts EPC APP.

3.0445120320 Injector's Purchase and Delivery

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3.1.0445120320 Injector's Purchase Payment Term **Payment Terms:** T/T, PayPal, Alipay, WeChat

Please contact our salesmen for specific payment information.

3.2.0445120320 Injector's Main Sales Markets

120 Injector main sales markets: Asia, Europe, North America, South America, Africa etc.

3.3.0445120320 Injector's Declaration Requirements

and the and water 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.

and a start and 3.4.0445120320 Injector's Shipping Ways

Destination in China areas: SF Express, Debon Express, the corresponding logistics company can be provided S14000 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.

3.50445120320 Injector's Lead time

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

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DHL Logistics Time :

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SHUMT	TT	She	enzl	nen Shumatt	Technolog	gy Co	. <i>,</i> Ltd		
Country or Regio Departure	n of	Hong Ko China	•	Other Countries or Regions of Asia	Australia and Zealand		Europe	America	Other Countries
China's Mainlar	nd	7 Day	'S	7 Days	8 Days		8 Days	8-12 Days	7-10 Days
UPS Logistics Ti	me:	Country	or R	egion of Departure	e: China's Ma	inland	and and	5 ⁵ - 6	NT STATE
Country of Destination		mated al Time	Co	ountry of Destination	Estimated Arrival Time	Cou	ntry of Desti	nation	Estimated Arrival Time
Japan	3 [Days	and a	UK ST	5-7Days	с. 	Egypt	50 . 1	5-7 Days
Turkey	5-7	Days		Singapore	3 Days	She.	Switzerlan	a super	5-7 Days
Bahrain	5-7	Days		Latvia	7-10 Days	4	New Zealan	ıd	7-10 Days
Sri Lanka	5-7	Days	(⁶)	Thailand	3 Days	st 15	Austria	girl.	5-7 Days
Romania	5-7	Days		Vietnam	3-5 Days		Estonia		5-7 Days
Malaysia	3-5	Days	Sec.	Israel	5-7 Days	- 	Mexico	e sali	7-10 Days
France	5-7	Days		America	5-7 Days	Un	ited Arab Em	irates	5-7 Days
Italy	5-7	Days	and the	Netherlands	5-7 Days	рі. 	Bengal	all in	7-10 Days
Lebanon	5-7	Days		Philippine	3-5 Days	Stor.	Greece	Sec.	7-10 Days
South Korea	3 [Days	2	Spain	5-7 Days	d.	Myanmar		5-7 Days
Canada	5-7	Days		Germany	5-7 Days	3100	Saudi Arabi	a A	7-10 Days
Portugal	5-7	Days		Australia	5-7 Days		South Afric	а	7-10 Days
Denmark	5-7	Days	99°)	Belgium	5-7 Days	and a	Ukraine	n" and	7-10 Days
India	7-10) Days		Qatar	7-10 Days	-	Poland		5-7 Days
Indonesia Kuwait	- 2017	Days) Days	100	Morocco	7-10 Days	r. Strife	Pakistan	r" and	7-10 Days

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

3.7.0445120320 Injector'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.

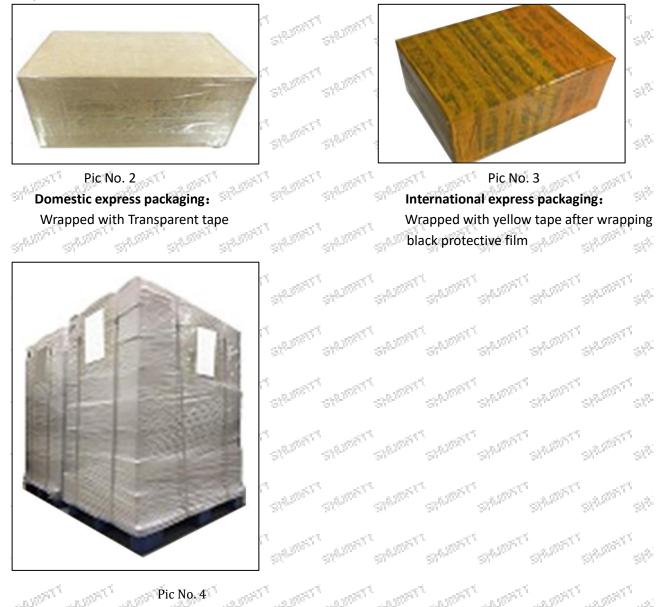
Transparent tape, yellow tape, black wrapping protective film, white wrapping protective film are non-degradable materials, please dispose of them properly.

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



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STRATIST



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

4.0445120320 Injector's Storage Standard

(1) Choose a suitable storage place

1795 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. $\otimes^{\mathbb{N}^{|\mathcal{G}|}}$ States.

(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 antirust treatment in time. Packaged injectors must be protected from damage.

(3) Keep the warehouse dry and preventing moisture

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Tel: +8675523215133 Website : www.shumatt.com 1.000 C

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



Mob/WhatsApp: +86 13410541523 Email : <u>ruby@shumatt.com</u> © 2022 Shenzhen Shumatt Technology Co., Ltd

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: <u>1.10.0445120320 Injector Warranty Instructions</u>)

No.	Name	WeChat/WhatsApp	Email	Facebook	YouTube	
1	Ruby	+86-13410541523	ruby@shumatt.com	Hison Li	Hison Li	
2	lvy	+86-18025299821	sales@shumatt.com	Ivy Shumatt	Shumatt IVY	
3	Rebecca	+86-18025349821	sales01@shumatt.com	Rebecca SHUMATT	SHUMATT Rebecca	
4	Janny	+86-18028749821	sales02@shumatt.com	Janny shumatt	Janny Shumatt	
5	Sam	+86-13316859821	Sales8@shumatt.com	Shumatt Sam	Sam Shumatt	
6	Natalie	+86-18938945856	sales15@shumatt.com	Shumatt Natalie	Lin Natalie	
7	Ada	+86-1342286353	sales5@shumatt.com	Shumatt Ada	Ada Shumatt	
8	Hison Li	+86-18318811871	web@shumatt.com	Hison Li	Hison Li	
9.00	Mecca	+86-18938948618	sales11@shumatt.com	Shumatt Mecca	Shumatt Mecca	
10	ST Eric SV	+86 18319033618	sales3@shumatt.com	Str. Str.	- 90° - 90°	
11	Wayne (Joaquín en español)	+86-13316959821	wayne@shumatt.com	shumattwayne	Wayne Shumatt	
12	Sylvia	+86 18312499884	sales6@shumatt.com	1. P. 1. P.	and the second	
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5.2. Sales-men's Contact Information

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