

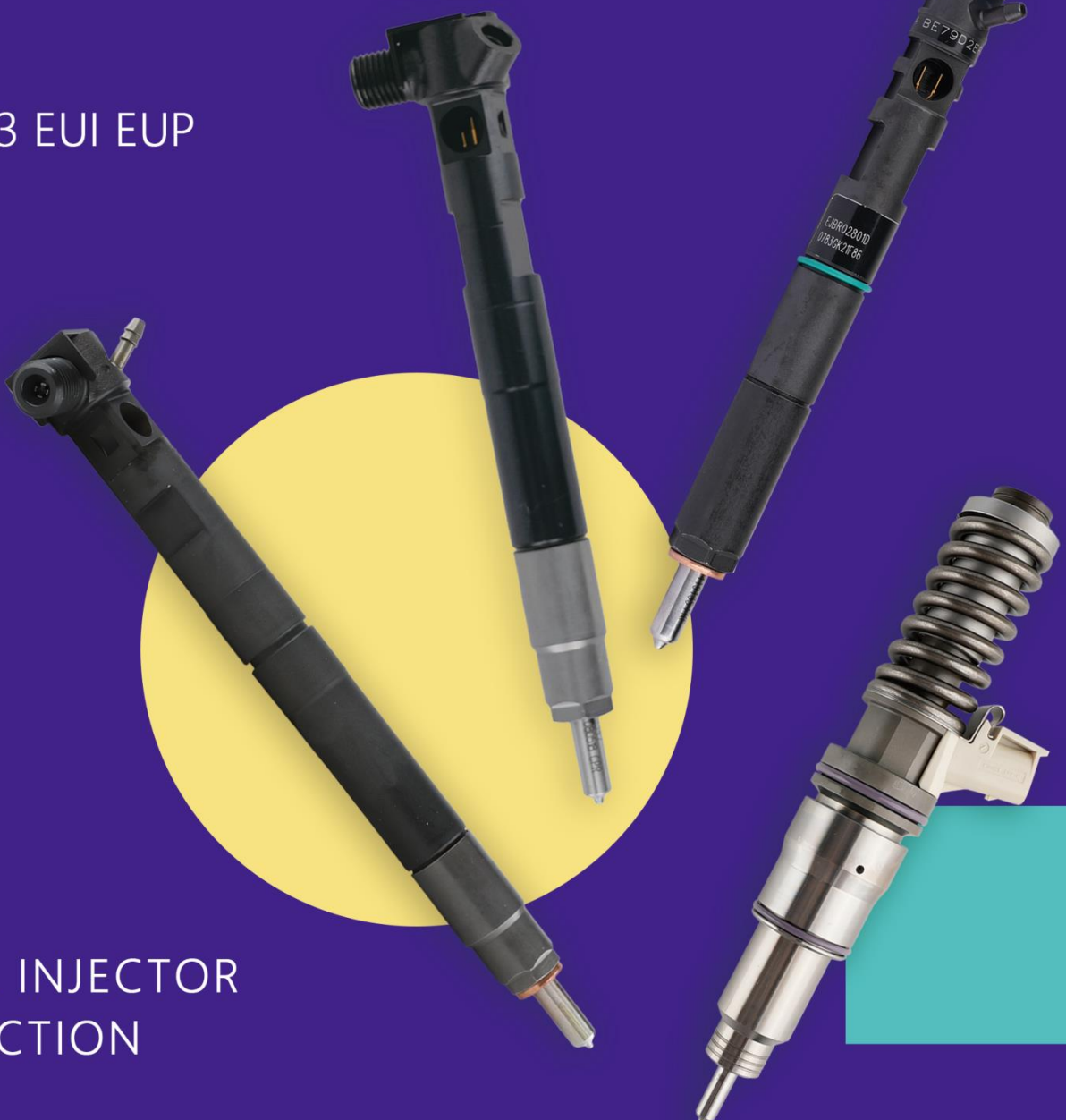


28231014 CRDI Injector CR Series Technical File

SKU: G2Z180028231014

# CRDI INJECTOR

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CR E1 E3 EUI EUP



DIESEL INJECTOR  
COLLECTION

## 28231014 CRDI Injector CR Series Technical File

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## 28231014 CRDI Injector CR Series Technical File

### 1. 28231014 CRDI Injector Introduction

#### 1.1. 28231014 CRDI Injector Basic Information

Title	28231014 CRDI Injector CR Series China Made New
SKU	G2Z180028231014

#### 1.2. 28231014 CRDI Injector Common Part Number

##### (1) CRDI Injector Application Information

CRDI Injector Part Number	Great Wall Car Model
28231014	1100100-ED01

##### (2) CRDI Injector Matching Information

Vehicle brand	Series
GREAT WALL MOTORS	GWM 4D20

##### (3) CRDI Injector Part Number Common Writing

28231014, 1100100-ED01

#### 1.3. 28231014 CRDI Injector Parameter

CRDI Injector Adaptation System: DFI1.5

CRDI Injector Series: CR Series

CRDI Injector Type: Electromagnetic CRDI Injector

CRDI Injector Vehicle Configuration Information: GREAT WALL

#### 1.4. 28231014 CRDI Injector Specifications and Dimensions

CRDI Injector Size: 23cm\*4 cm \*4 cm= 368cm<sup>3</sup>(L\*W\*H=V)

CRDI Injector Net Weight: 0.5kg

CRDI Injector Gross Weight: 0.7kg

CRDI Injector Package Size: 26cm\*6 cm \*6 cm=936cm<sup>3</sup>

CRDI Injector Type: China Made New

CRDI Injector MOQ: 4 Pieces

#### 1.5. 28231014 CRDI Injector Customized Service

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



CRDI Injector Nozzle Engraving	CRDI Injector House Lettering And QR Code	CRDI Injector Solenoid Valve Engraving	CRDI Injector Box And Label
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## (2) CRDI Injector Customized Service Requirements:

The purchase of customized [CRDI injectors](#) are not less than **10 pieces**.

The purchase of customized [CRDI injector packages](#) are no less than **1000 pieces**.

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

**▲ Once the customized CRDI injector is sold, it cannot be returned or exchanged if there is no quality problems.**

## 1.6. 28231014 CRDI Injector Quality Control

### (1) CRDI Injector Testing

All CRDI injectors are tested for electrical characteristics, accuracy, high temperature, low temperature, withstand voltage, leakage, durability, and various working conditions.

### (2) CRDI Injector Assembling

For quality control during the production and installation process of injectors, our company strictly follows the standard product installation data and product installation steps for installation and testing, such as injector stroke test, injector solenoid valve tightening torque test, injector nozzle tightening torque test, etc.

### (3) CRDI Injector Inspection






The factory inspection of the CRDI injector is undergone full inspection, random inspection, and batch inspection three inspections. Different brands of test benches are used to test the same CRDI injector for more than three times for factory inspection. CRDI injector installation and test environment are progressed in dust-free workshop.

## 1.7. 28231014 CRDI Injector Packing List and Package Size

### (1) CRDI Injector Spare Parts List

No.	Image	Name	Description
1		CRDI injector	CRDI injector part number: 28231014
2		O-ring	Ensure to meet the standard of the sealing performance between the CRDI injector and the engine
3		Nozzle protective cover cap	Protect nozzle holes from being polluted and blocked



4		CRDI injector house protective cover cap	Protect oil inlet from being polluted and blocked
5		Solenoid valve protective cap	Protect the solenoid valve body and terminals from being damaged by external forces
6		VCI anti-rust bag	Prevent CRDI injector from rusting
7		Bubble bag	Prevent the CRDI injector from being damaged by external forces
8		CRDI injector packing box	Place CRDI injector and CRDI injector accessories

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

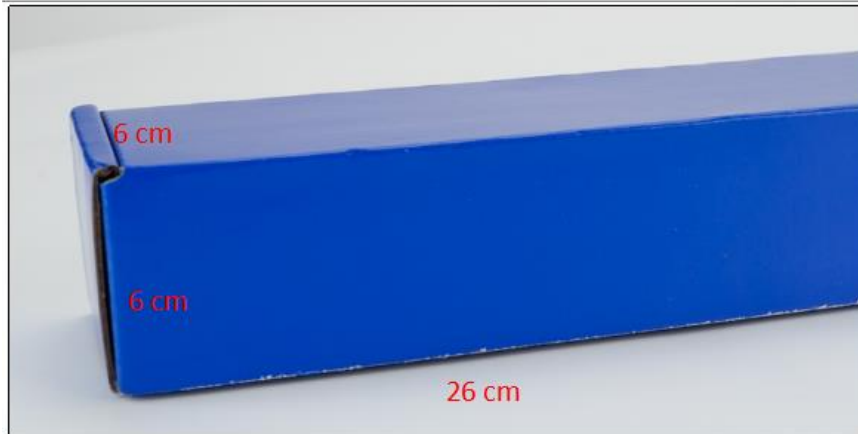
⚠ O-ring and gasket are disposable installation accessories, when install the CRDI injector again, they are needed to be replaced.

⚠ The nozzle protective cover, the CRDI 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 CRDI injector and the installation parts should be coated with appropriate sealing oil during installation.

## (2) CRDI Injector Box Size



Pic No.1

No.	Name	CRDI Injector Package Size (cm)
1	CRDI Injector Box	26*6*6

## 1.8. 28231014 CRDI Injector Testing Standard and Certificate

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

<b>BOTEN</b>		<b>测试报告</b>		4.05.2019 10:42:09	
承辦企业: _____					
电话: _____		地址: _____			
传真: _____		检测人: _____			
客户信息:					
电话: _____		送检单位: _____			
传真: _____		客户姓名: _____			
检测描述: _____					
加村名称:      康寧路					
型号-零件号: _____					
配置向: _____					
<b>检测结果</b>					
仪器编号: C9E00D-GS11					
	标准值范围	测量值范围	实际值(测值)	标准限制值	
EGAR TEST:	38	— 5 —	6.5	20.0 ± 1.0	✓
Back:	38	— 4 —	75.0	45.0 ± 2.0	✓
WARM:	38	127.3 ± 10.5	C3	.....0.....	✗
Mass:	291.5	218.9 ± 14.4	C3	.....0.....	✓
TL:	28.4	24.6 ± 1.5	C3	.....0.....	✓
EL:	14.1	10.0 ± 4.8	C3	.....0.....	✓
VE:	67	4.5 ± 0.6	C3	.....0.....	✓

ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	检测序列号:
<input type="checkbox"/> 挂屏前	<input type="checkbox"/> 挂屏后							

Pic No.2

## 1.9. 28231014 CRDI Injector Warranty Instructions

## (1) Product Warranty Conditions and Instructions

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

## (2) CRDI Injector Warranty Coverage

Within 15 days after customer receives the 28231014 CRDI 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 [28231014](#) CRDI 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 CRDI 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.

**⚠ Tips:** For products not covered by warranty, Shumatt can provide paid maintenance services. For products after paid repaired, the same performance problem will have a free warranty period within 3 months from the date of repairing.

### (3) CRDI Injector Out of Warranty Coverage

- ① The warranty period has expired.

- ② CRDI injector failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.
- ③ Customer disassembles or repairs the CRDI injector personally resulting in damage to the CRDI injector.
- ④ CRDI injector damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).
- ⑤ CRDI injector failure or CRDI injector damage caused by non-CRDI injector design, technology, manufacturing, quality and other issues.
- ⑥ CRDI injector failure due to system pressure exceeding system approved pressure.
- ⑦ CRDI injector failure caused by system voltage exceeding approved voltage.
- ⑧ CRDI injector failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceeding the standard requirements.
- ⑨ CRDI injector 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).
- ⑩ CRDI injector failure caused by not following the installation angle specified in the vehicle engine maintenance manual.
- 11 CRDI injector failure caused by not following the cleaning requirements specified in the vehicle engine maintenance manual.
- 12 CRDI injector failure caused by failure to replace consumable parts as specified in the vehicle engine maintenance manual.
- 13 CRDI 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.
- 14 Failure to replace the consumable parts and the fitting clearance of the oil inlet system pipeline and the CRDI injector connection in accordance with the fuel intake system specified in the vehicle engine maintenance manual.

#### 1.10. **28231014** CRDI Injector Manufacturer

**CRDI Injector Manufacturer:** Shenzhen Shumatt Technology Co., Ltd

### 2. **28231014** CRDI Injector Technical Support

#### 2.1. **28231014** CRDI Injector Part Number Location

E.g.: See the CRDI injector part number as follows:

No.	Name
A	brand, logo, part number, series number
B	nozzle part number

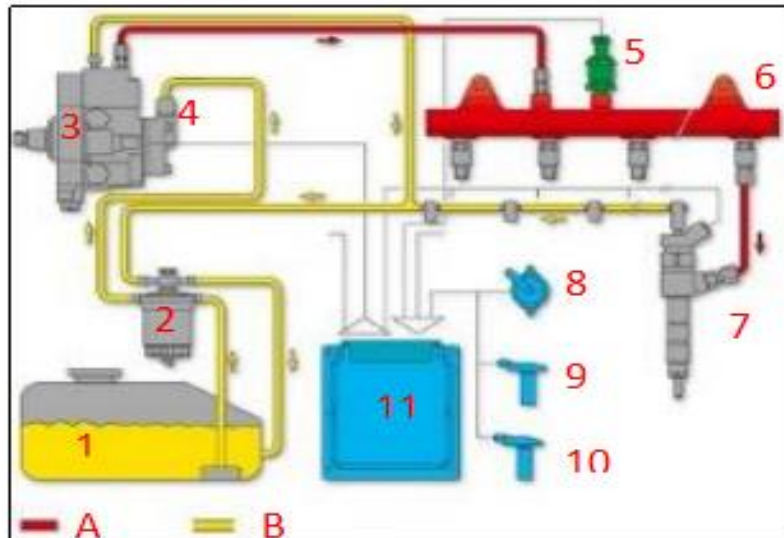




Pic No.3

## 2.2. 28231014 CRDI Injector 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 CRDI 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.



Pic No. 4

No.	Name	No.	Name	No.	Name
1	Tank	6	Common Rail Pipe	11	ECU Electronic Control Unit
2	Diesel Filter	7	CRDI Injector	A	High Pressure Oil Circuit
3	High-Pressure Pump	8	Accelerator Pedal	B	Low Pressure Oil Circuit
4	Fuel Gear Pump	9	Engine Crankshaft Sensor	/	/
5	Common Rail Pressure Sensor	10	Camshaft Sensor	/	/

## 2.3. 28231014 CRDI Injector Installation Precautions

- (1) The replacement of the CRDI 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,
- (2) Replacement of wearing parts of the fuel system, cleaning requirements for the connection between the

fuel system and the CRDI injector, the fitting clearance of the CRDI injector connection, the installation angle and tightening torque of the CRDI 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 CRDI injector.

- (3) When installing the CRDI injector on the engine, it is necessary to clean the engine block, cylinder head and other parts connected to the CRDI injector, and ensure that there is no dust, carbon deposits, water, rust spots, etc.
- (4) Before installing, check whether the CRDI injector nozzle gasket has been replaced and installed on the CRDI injector.
- (5) When installing the CRDI injector, apply lubricant between the CRDI injector, fuel nozzle sealing gasket and O-ring.
- (6) Without replacing new gasket can lead to: deformation of the tight cap of nozzle, deformation of nozzle, deformation of nozzle orifice, oil leakage and air leakage, which will cause serious damage to the CRDI injector and nozzle to break and cause damage to the engine.
- (7) When installing the CRDI injector on the engine, please carefully check the components related to the installation of the CRDI injector, such as the CRDI injector pressure plate, screw, CRDI injector rod and other accessories are not deformed, and install it in strict accordance with the operation steps of the engine maintenance manual.
- (8) It is forbidden to operate the bare CRDI injector for a long time in an environment with serious dust pollution and corrosion to iron products.
- (9) It is forbidden to operate the bare CRDI injector for a long time in a strong magnetic field environment.

#### 2.4. Reasons for 28231014 CRDI Injector 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 is damaged.
- (4) There is a short circuit, cutting out and poor contact in the wiring harness connected to the CRDI injector of the vehicle.
- (5) The long-term placement of the CRDI injector causes the anti-rust oil to solidify, and the internal components are stuck or the oil holes are blocked.

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

#### 2.5. Causes of 28231014 CRDI Injector's Damage

- (1) Failure to operate correctly according to the engine maintenance manual during disassembly and assembly may result in damage to the CRDI injector.
- (2) The fuel oil used for the vehicle does not meet the standard cause damage to the CRDI 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 CRDI injector.

- (4) The abrasion of the oil pump produces iron powder and aluminum powder enter the CRDI injector and cause damage to the CRDI injector.
- (5) The deformation and abrasion of fuel tank result in iron powder or aluminum powder entering the CRDI injector and causing damage to the CRDI injector.
- (6) The CRDI injector is damaged due to replacement or adjustment of the relevant parts of the CRDI 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 CRDI injector fails to meet the original standard.
- (7) The engine is overheated and overloaded for a long time working results in damage to the CRDI injector.
- (8) The CRDI injector will be damaged naturally at the end of its working life.
- (9) The CRDI injector is magnetized (CRDI injector parts' magnetic exceeded) causing the CRDI injector to not work properly.

**⚠ Before replacing the CRDI injector, please check the engine parts carefully according to the engine maintenance manual to avoid the CRDI injector being damaged again after replacement.**

## 2.6. 28231014 CRDI Injector Storage Standard

### (1) Choose a Suitable Storage Place

The warehouse and cargo yard where the CRDI 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 CRDI 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 CRDI injectors must be protected from damage.

### (3) Keep The Warehouse Dry And Preventing Moisture

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

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

If the CRDI 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 CRDI injector exposed in the air for a long time.**

**⚠ It is forbidden to store acid, alkali, salt and other substances together with the CRDI injector.**



**⚠ The unpacked CRDI injector must be rust-proof during secondary storage.**

## 2.7. **28231014** CRDI Injector Technical Support Obtaining Methods

- (1) CRDI Injector Technical Data: <https://www.crdiinjector.com/download/>
- (2) CRDI Injector Videos: <https://www.crdiinjector.com/videos/>
- (3) CRDI Injector Encyclopedia: <https://www.crdiinjector.com/category/news/encyclopedia/>
- (4) CRDI Injector 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.

## 3. **28231014** CRDI Injector Purchase and Delivery

### 3.1. **28231014** CRDI Injector Purchase Payment Term

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

**⚠ Please contact our salesmen for specific payment information.**

### 3.2. **28231014** CRDI Injector Main Sales Markets

CRDI Injector Main Sales Markets: Asia, Europe, North America, South America, Africa etc.

### 3.3. **28231014** CRDI Injector 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. **28231014** CRDI Injector 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. **28231014** CRDI Injector Lead time

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

### 3.6. **28231014** CRDI Injector 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
Japan	3 Days	UK	5-7Days



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

⚠ The logistics time is for reference only and is subject to the actual arrival.

### 3.7. 28231014 CRDI Injector Packing

**Domestic Express Packaging:** Usually wrapped in waterproof scotch tape.




**International Express Packaging:** Wrapped with waterproof yellow tape After wrapping the black protective film.

**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. The products can also 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.

No.	Image	Name	Description
1		Domestic express packaging	Wrapped with Transparent tape
2		International express packaging	Wrapped with yellow tape after wrapping black protective film
3		Pallet Shipping	Use pallet that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties

#### 4. Company Information



Pic No. 5

#### 4.1. 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.com](http://www.shumatt.com)

 **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:** Exit C, Qiao Touxu Metro Station, NO. 66 Chongqing Road, Fuhai Avenue, Bao'an District, Shenzhen, China 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: [1.9. 28231014 CRDI Injector Warranty Instructions](#) )

#### 4.2. Contact Information

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

## 5. Copyright Statement

All content and materials appearing in “**28231014** CRDI Injector CR Series Technical File” are the personal property of Shenzhen Shumatt Technology Co. and protected by copyright law, property rights law and relevant laws. This website([www.crdiinjector.com](http://www.crdiinjector.com)) has been authorized to use it. Any media, company, or individual who has not gained the authorization from Shenzhen Shumatt Technology Co. are not permitted to modify, print, duplicate, republish, transmit the content in “**28231014** CRDI Injector CR Series Technical File”. Otherwise Shumatt reserves the right to pursue economic and legal responsibility for those who do not comply with this statement or use the content illegally or maliciously.

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