

Email: <u>ruby@shumatt.com</u> © 2022 深圳市舒马特科技有限公司

# DLLA148P2232 Injector Nozzle Technical File

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# Shenzhen Shumatt Technology Co., Ltd DLLA148P2232 Injector Nozzle Technical File

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## 1. DLLA148P2232 Injector Nozzle Introduction

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## 1.1. DLLA148P2232 Injector Nozzle's Basic Information

Title	at and a state of the second	Commo	n Rail Inject	or Nozzle DLLA made new	\148P2232 C	hina A	Branc	1	st <sup>el</sup>
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and the second second	-19 C	. 68 <sup>20</sup> 68	P		8	- 30 <sup>00</sup>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a di tanàna	

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### 1.2. DLLA148P2232 Injector Nozzle's Common Written Part Number

0/33172232	Injector Nozzle Order Number	Injector Nozzle Engraved Number	17.50
0/33172232	21 20. 20. 20. 20. 20.	247. 247 241. 220. 250. 250.	- 9
0400172202 DLLA14072202	0433172232	DLLA148P2232	
The	The The The The The	The The The The Line	1998

# 1.3. DLLA148P2232 Injector Nozzle's Application Information for Injectors (1) DLLA148P2232 Injector Nozzle's Application for Injectors Part Number

Injector Part Number	Series	System Pressure	Re-manufactured Part Number	System Pressure	PERSONAL SPE
0 414 701	BB-ZP SC DL				
051	E3/E4 TB	The second second	all all all	100 M	. 65°
0 414 701	N2 BB-ZP SC DL	36 - 36	Stor Stor Stor	214 - 214 - 2	19 - Sto
072	ТВ				
0 414 701	N2 BB-ZP SC DL	and a start	with with a start	1.70 M 1.70 M	all all
073	<sup>94°</sup> TB <sup>94°</sup>		an san san	SAT SAT S	N 24.
0 414 701	N2 BB-ZP SC	N. N. N	A A A	1 1	
077	DL/DP	and all the	all all all all	and the addition	ant all
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086	TB-	Da Da D	and and and	25. Co.	100
0 414 701		at an at a state of the second	and and and and	ant at the s	fi <sup>nn</sup> st
088					
0 414 701 094	PDE 100 S 2043	C	AND THE ADDRESS AND ADDRESS	all	25 M
0 414 701	- 51° - 51°	54." 51" ·	ar 577 577	141 155° - 1	N - 571
930	N2 SC 6PK 086	The The T	and and and	San San	-55
(2) DLLA14	8P2232 Injector No	zzle's Car Model M	atching Information	Stor Stor 3	dan da

(2) DLLA148P2232 Injector Nozzle's Car Model Matching Information

Injector Part Number	Car Number	OE Number	OE Number	OE Number	STATT SHERATT SHERATT SHE
0 414 701 051	OPEL	1943974	Q. I	Cr. Cr.	on on on
all all all all all a	SCANIA	1943974	The state	and the second	STATE STREAM STREAM STR
0 414 701 072	OPEL	1943974	-9a	80. 30	. 947 947 947
and and and	SCANIA	1943974	and a series	and the second	SALL SHOULD SHOULD BE
0 414 701 073	1999 - S. C.		3200	57 - 57 57	an aign, aign, aig
0 414 701 077	Real Property	and the	Tan Tan	17. Con	and a strength and the

0 414 701 086	VW (VOLKSWA GEN)	2 599 428	anti <sub>att</sub> anti	anterna di	STATT SHARN'T SHARN'T SH
0 414 701 088			-		
0 414 701 094	STATE STATE	and the second	and water	al Martin	STATE STREET, STRE
0 414 701 930	OPEL	2599429	5	90°, 30°,	30. 37. 37.

(3) DLLA148P2232 Injector Nozzle Part Number Common Writing 0433172232, DLLA148P2232, 0433172232, DLLA148P2232, 0433172232, DLLA148P2232, 0433172 232, DLLA148P 2232, 0 433 172322, DLLA148 P2232, 0 433172322, DLLA 148P2232, 0 433172 232,DLLA 148P 2232

#### 1.4. DLLA148P2232 Injector Nozzle'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

#### 1.5. DLLA148P2232 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 41.00<sup>16</sup> are progressed in dust-free workshop.  $\mathrm{sp}^{0,0^{(j)}}$ 

(3) Injector Nozzle Installation

When matching the valve cap and valve steam, 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.

#### 1.6. DLLA148P2232 Injector Nozzle's Customized Service

(1) Injector 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 The file the the file file the

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3	DULA 19 Aba	3 579-57977		NUMPT -		all <sup>a</sup>
- 57	4	32	4	Nor 9		9 <sup>86</sup>
	tor Nozzle Shell Le		or Nozzle Without	lettering Ir	ijector Nozzle Ti	ube
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Injector Nozzle Packaging Box Customized	and a start a start a start a start	E and and and a
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### (2) Injector Nozzle's Customized Service Quantity Requirements:

The purchased of Customized injector nozzle's shell lettering or without lettering are no less than 100 pieces. The purchased of Customized injector nozzle tubes are no less than 2000-3000 pieces.

The purchased of customized injector 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.

A Once the customized injector nozzle is sold, it can't be returned or exchanged if there is no quality problems. 1.7. DLLA148P2232 Injector Nozzle's Packing List problems.

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

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an' an' Sh <sup>a</sup> lmage Sh		54 5 <sup>4</sup>	, 13 1	大轨喷油嘴 Common Rail Injector Nozde
all the all	the star star start		3.50	Star an an an
Name	Injector Nozzle Assy	Nozzle Tube	1917	Injector Nozzle Box
Description	Injector Nozzle Part Number DLLA148P2232	Prevent Nozzle Rustir Damaging from Coll		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.

## 1.8. DLLA148P2232 Injector Nozzle's Warranty Instructions

# (1) . Injector Nozzle's Warranty Conditions and Instructions

It is necessary to provide pictures, videos, or test reports detected by the injector nozzle inspection equipment when the injector 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) . Injector Nozzle Warranty Coverage

and the The The The The Within 15 days after customer receives the DLLA148P2232 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 DLLA148P2232 injector nozzle has performance problems during the warranty period (6-12 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 Nozzle Out of Warranty Coverage

The warranty period has expired.

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

Injector nozzle damage caused by man-made reasons (throwing, strong magnetic field magnetization,

#### set fire).

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

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

Injector nozzle failure caused by system voltage exceeding approved voltage.

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

Injector 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).

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

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

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

#### 1.9. DLLA148P2232 Injector Nozzle's Manufacturer

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

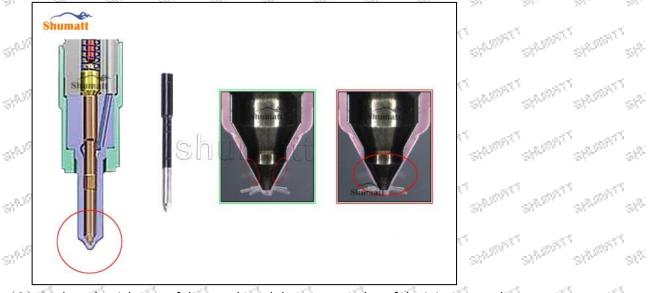
### 2. DLLA148P2232 Injector Nozzle's Technical Support

### 2.1. DLLA148P2232 Injector Nozzle's Installation Precautions

- (1) Clean the injector 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 injector nozzle fall off.
- (2) Use compressed air to clean the cleaning fluid attached to the surface of the injector nozzle after cleaning, and clean it up to the standard of use.

#### 2.2. DLLA148P2232 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. DLLA148P2232 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 stroke of the nozzle needle valve is within the range (<mark>15-</mark> .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. DLLA148P2232 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 and a second second

2.5. DLLA148P2232 Injector Nozzle Testing After Maintenance
(1) After installation, it needs to be tested on the test bench.



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### 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. Injector 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. DLLA148P2232 Injector Nozzle List of Tools Used During Measurement and Installation

SHUMATI SI Image	shure fatterner		
SKU	CRT084	CRT220	CRT079
Strand St	Torque wrench: 19-110nm 1/2	Fuel injector stroke measuring tool:	ALEANT SHEEPIT'S HEEPIT'SHE
Description	It is used to control tightening	is used to measure buffer	Micrometer: is used to
A STORE S	force and angle during	stroke of fuel injector,	measure gasket thickness
SI	installation	armature stroke and	1. St. St. St.
		remaining air gap	
-55	The The The The	The The The The	Then Then Then

Allmage of			HARDONT SHARDONT SHE
SKU	Star Star Star	CRT281	Star Star Star
Description	Ultrasonic cleaning machine: is used for cleaning fuel injector and parts	Common rail injector test bench: check the injector working condition	NATION STREET, STREET, STR

2.7. DLLA148P2232 Injector Nozzle Causes of Damage

(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 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 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't work properly when serious.

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

# 2.8. DLLA148P2232 Injector Nozzle Technical Support Obtaining Methods

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

100

(2) Injector Technical Videos

Facebook:Visit <a href="https://www.facebook.com/hison.li">https://www.facebook.com/hison.li</a> constantly follow can get more information.YouTube:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.facebook.com/hison.li</a> constantly follow can get more information.YouTube:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a> mAfxh</a> Hu-aw to get the technical videos, and can learn more information if you follow .Shumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">http://www.youtube.com/channel/UCByvYBx7VjV</a>Mumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a>Shumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a>Mumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a>Mumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a>Mumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a>Mumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a>Mumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a>Mumatt:Visit</a><a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a>

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(3) Injector Nozzle Information Query Software

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

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

3. DLLA148P2232 Injector Nozzle's Purchase and Delivery.

# 3.1. DLLA148P2232 Injector Nozzle's Purchase Payment Methods

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

Please contact our salesmen for specific payment information.

## 3.2. DLLA148P2232 Injector Nozzle's Main Sales Market.

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

#### 3.3. DLLA148P2232 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. DLLA148P2232 Injector Nozzle's Shipping Ways

Sec. ant i anti. 1997 T 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. DLLA148P2232 Injector Nozzle's Lead Time

7 Days

A.S.

China's Mainland

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

#### 3.6. DLLA148P2232 Injector Nozzle's Logistics Time for Destination Out of China's Areas

7 Days

 $e^{2\beta}$ 

DHL Logistics Time:	an star		and the states where	9°''''''''''''''''''''''''''''''''''''		- 13 <sup>96</sup> - 1	36
Country or Region of Departure	Hong Kong, China	Other Countries or Regions of Asia	Australia and New Zealand	Europe	America	Other Countries	

8 Days

#### LIPS Logistics Time. Country or Pegion of Departure. China's Mainland

Country of Destination	Estimated Arrival Time	Country of Destination		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	Sin Sin S		31 31 31	30

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

#### 3.7. DLLA148P2232 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,

8-12 Days

7-10 Days

8 Days

Also, the products can be packaged according to customers' requirements.

The packing tray is made of plastic and can be recycled. A Transparent tape, yellow tape, black wrapping protective film, white wrapping protective film are non-degradable materials, please dispose of them properly. and C an C Minors are prohibited from using transparent tape, yellow tape, black wrapping protective film, and white wrapping protective film to avoid personal injury. est C st<sup>hijst</sup>  $\mathcal{D}^{(0)}$ 58<sup>0,50</sup>  $\phi^{(2)}$ sr<sup>h fi</sup> Pic No.2 Pic No.3 Domestic express packaging: International express packaging: Wrapped by Transparent tape Wrapped with yellow tape after wrapping black protective film  $\otimes^{\mathbb{N}^{1/2}}$  $S^{0,0}$ sahih 9<sup>63</sup> st<sup>hij</sup>  $\varphi^{(i)}$ 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. DLLA148P2232 Injector Nozzle's Storage Standard

#### (1) Choose a suitable storage place

The warehouse and cargo yard where the injector nozzles are 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 injector nozzles 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 nozzles must be protected from damage.

#### (3) Keep the warehouse dry and preventing moisture

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

Injector nozzles must be stored in the warehouse, and they are forbidden to store in the same - All Star -all St warehouse with commodities with high water content. stër

#### (4) Stack Properly

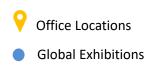
After the injector nozzle is exposed to rain, the corrosion rate will increase significantly. The purpose of sealing is to isolate the injector from rainwater and humid air, so the warehouse window should be checked in time to avoid rainwater entering the warehouse

If the injector nozzle 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.

A It is forbidden to leave the injector nozzle exposed in the air for a long time. A It is forbidden to store acid, alkali, salt and other substances together with the injector nozzle.

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

5.Company Information



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all and a second 5.1. Company Introduction Chinese Name: 深圳市舒马特科技有限公司

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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. DLLA148P2232 Injector Warranty Instructions)

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)	Eric Wayne aquín en español ) Sylvia	Eric         +86 18319033618           Wayne         +86-13316959821           aquín en español )         +86 18312499884           Sylvia         +86 18312499884           Visit         http://shumatt.com	Eric       +86 18319033618       sales3@shumatt.com         Wayne       +86-13316959821       wayne@shumatt.com         aquin en español )       +86 18312499884       sales6@shumatt.com         Sylvia       +86 18312499884       sales6@shumatt.com         Visit <a href="http://shumatt.com">http://shumatt.com</a>	Eric     +86 18319033618     sales3@shumatt.com       Wayne     +86-13316959821     wayne@shumatt.com     shumattwayne       aquín en español )

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