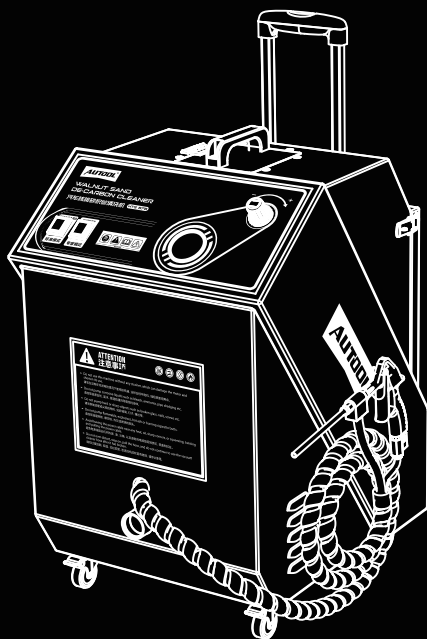


# **AUTOOL HTS678**

Walnut Sand De-Carbon Cleaner

**User Manual**

用户手册







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## CAUTIONS

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### Warning



Before using the instrument, please read this manual carefully for proper operation.

- ▶ Keep the power cord away from heat, oil and sharp corners, and avoid the power cord from being damaged by stretching, squeezing or twisting.
- ▶ Please don't use it in areas where flammable, explosive or toxic objects are stored.
- ▶ Please don't vacuum up flammable, explosive, hot ashes, burning cigarette butts, etc.
- ▶ Please don't vacuum up corrosive liquids, e.g. bleach, ammonia water, drain cleaner, etc.
- ▶ Please don't vacuum up hard or sharp objects, e.g. broken glass, nails, screws, etc., to avoid damaging the hose.
- ▶ Please avoid malfunctions such as filter clogged and motor burnout caused by vacuum up tiny particles such as gypsum powder, wall powder, and cement. If the machine vacuums up the above particles, please clean the filter in time.
- ▶ Please do not use this product without any filter screen, which will damage the motor and shorten the service life of the product.
- ▶ Please do not excessively twist, step on or pull the hose and do not continue to use after the hose of the carbon deposition cleaner is broken.
- ▶ The use of accessories and spare parts must meet the requirements of the manufacturer, and the product maintenance shall be replaced and repaired by the manufacturer or professionals in the maintenance department.
- ▶ The products and cables shall be placed out of the reach of children. People (including children) who are physically or mentally unsound or have no relevant experience and knowledge must use them under the supervision and guidance of their guardians.
- ▶ If the power cord, plug or other parts are damaged, the use of this product must be stopped to avoid danger. Please contact the manufacturer immediately for replacement and maintenance.



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# PRODUCT INTRODUCTION

## Overview

AUTOOL HTS678 is a newly designed automotive de-carbon cleaner, it adopts an integrated design and is fully optimized to the corresponding product design modified by vacuum cleaners on the market. It can solve the problem of carbon deposition in the intake and exhaust systems of automobile engines in an environmentally friendly, safe and efficient manner.

The working principle of automotive walnut sand de-carbon cleaner is that the high-pressure air flow is sprayed into the engine intake pipe, and the sand particles at high-pressure and high-speed will roll and collide in the closed intake pipe, so as to impact the carbon deposits on the intake valve and cylinder wall, and then the walnut sand and the carbon deposit mixture are recovered into the sand storage bucket through a special joint.

## Main functions

- **Intake manifold cleaning:** Clean the intake manifold of the engine by sandblasting in sequence.
- **Intake/Exhaust valve cleaning:** The valves can be cleaned by sandblasting in sequence without dismantling.

## Main features

- 1800W high-power motor is adopted, with strong suction.
- Walnut sand is used for physically harmless cleaning.
- Filter screen is used to separate carbon and sand particles for reuse.
- External air compressor gas-supply, powerful sandblasting, better cleaning effect.

## Specifications

Power Supply	AC 220V±10% 50Hz AC 110V±10% 60Hz
Main Power	1800W
Sand Volume	10L
Machine Weight	52kg

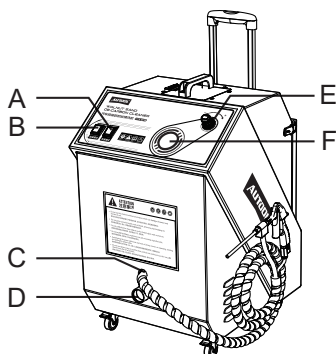


Environment Temperature	<b>-10°C~+40°C</b>
Relative Moisture	<b>&lt;85%</b>
Product Size	<b>490*552*780mm</b>
Package Size	<b>610*630*820mm</b>

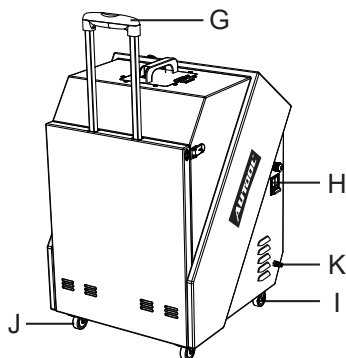


# PRODUCT STRUCTURE

## Structure diagram



<b>A</b>	Expert mode switch	<b>B</b>	Standard mode switch
<b>C</b>	Sand blasting pipe	<b>D</b>	Recovery-hose interface
<b>E</b>	Pressure adjusting mode	<b>F</b>	Pressure gauge



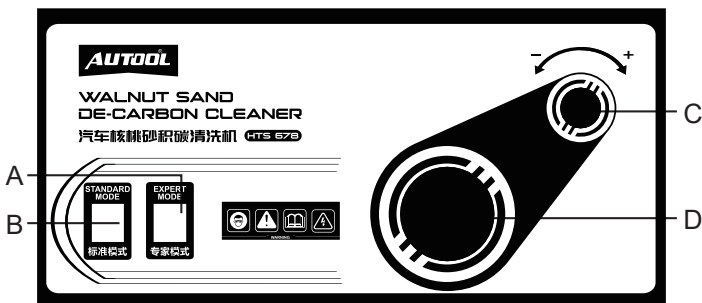
<b>G</b>	Trolley rod	<b>H</b>	Power switch
<b>I</b>	Mobile front wheels	<b>J</b>	Fixed rear wheels
<b>K</b>	Air source interface		



### ⚠ NOTE

- ▶ When switching between expert mode and standard mode, please turn off the two sets of switches first, and then turn on the corresponding mode switch. Otherwise, the power switch will trip for protection, at this time, it is necessary to turn off all switches and then re-close.

### About control panel



<b>A</b>	Expert mode switch	Providing more professional cleaning effect.
<b>B</b>	Standard mode switch	Preferred mode for common use.
<b>C</b>	Pressure adjusting knob	Which can adjust the output of the intake pressure according to the needs to reach better cleaning adaptation pressure.
<b>D</b>	Pressure gauge	Showing intake pressure value and pressure change.



# **OPERATIONS INSTRUCTION**

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## **Operation method**

- Open the outer package and check whether any parts are damaged.
  - Pull the rod upwards, then open the metal latches on both sides of the main unit, and open the accessory box outwards. Take out the accessories and lock the accessories box. Install the components according to the following steps.
- (1) Connect the end of the recovery particle hose with tendon sheath to the main unit, clamp the tendon sheath and confirm that it is locked.
  - (2) Determine the fitting connector (metal connector or yellow silicone connector) of the engine air intake.
  - (3) Connect the other end of the recovery pipe to the black transit-bend. Use a large bend when a metal model adapter is required, and a small bend when a yellow silicone model adapter is required.
  - (4) Open the top cover of the main unit, rotate the handle of the filter cartridge counterclockwise, take out the filter cartridge, and check whether the filter screen at the bottom is flat and does not roll over.
  - (5) The walnut sand is added into the sand storage bucket from the middle of the filler, generally 3-5kg.
  - (6) Reset the filter cartridge and turn it clockwise until it is locked.
  - (7) Reset the top cover of the main unit and cover it.
  - (8) After moving the main unit to the using site, connect an external compressed air source of not less than 0.7MPa to the main unit.
  - (9) Wear goggles to prevent splashes from hurting eyes.
  - (10) Connect the power cord to the external power supply (110V 50-60Hz voltage is connected to the US standard plug, and 220V 50-60Hz voltage is connected to the European standard or national standard plug). For detailed requirements, please check the identification at the connector.
  - (11) Connect the engine adapter to the black silicone hose elbow and align it with the vehicle parts to be cleaned.



- (12) Turn on the standard mode switch of the host, and the device starts to run. Professionals can turn on the expert mode. One of the two sets of switches needs to be turned off to turn on the other, otherwise the air switch will be protected.
- (13) Insert the sandblasting gun from the injection port of the black silicone bend on the recovery pipe, and pull the switch of the sandblasting gun to start the carbon removal procedure. To clean different work pieces in different occasions, please adjust the throttle valve at the bottom of the sandblasting gun according to the actual situation to ensure that the spraying speed is in the best state.



## Q & A

- Before commissioning the maintenance department of the company, please check the following points:

Problems	Possible causes	Solutions
Motor does not run	Check that the power cord is plugged in correctly.	Properly plug in the power plug.
	Check whether the power socket is powered.	Check the fuse circuit breaker to ensure that the socket is powered.
	Check whether the main unit is powered on.	Turn on the main unit, power supply and air switch.
Dust comes out of the machine during work	Check whether the filter cartridge assembly is installed.	Install the filter cartridge assembly correctly.
	Check the filter cartridge assembly for defects.	Replace the filter cartridge assembly.
	Check whether the filter cartridge is firmly installed without looseness, and whether the metal plate is deformed and leaking sand.	Correctly install the filter cartridge assembly or restore the metal plate.
	Check whether the internal suction pipe is damaged.	Repair or replace the adhesive tape.
Reduced suction	Check whether the hose and connecting pipe are blocked or bent too much.	Clear the blockage and straighten the hose in time.
	Check whether the filter cartridge is blocked.	Clean up the dust adsorbed on the filter cartridge in time or replace the filter cartridge.
	Check whether the motor speed is abnormal.	Check the input voltage.



Problems	Possible causes	Solutions
The gun fails in sand blasting	Check whether the filter screen in the sand storage bucket is displaced and overturned.	Empty the box before returning the filter screen to check whether there are large particles of foreign objects.
	Check whether the gun head is jammed by foreign objects.	Unscrew the gun head parts to remove foreign objects.
	Check whether the air pipe is damaged.	Replace if damaged.
	Check whether the sand media is wet and caked.	Change the sand media.
	Check whether the sand feeding pipe is damaged.	Replace if damaged.


**Note**

- In case of no sand blasting, the sand outlet can be blocked with cotton cloth, and the blocked foreign objects in the pipe can be blown back into the sand storage bucket by opening the air supply switch of the sandblasting gun.



## DESCRIPTION OF ACCESSORIES

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Name	Quantity	Name	Quantity
Aluminum filter screen	1	Filter cartridge	1
Sand blasting gun	1	Barrel	2
Goggle	1	Sand suction hose	1
Sand suction hose-transit bend	2	Yellow silicone adapter	5
Aluminium alloy adapter	6	User manual	1
Certificate	1		



## MAINTENANCE SERVICE

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Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.

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**Maintenance** To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully:

- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
- Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
- Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable.
- Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time.
- Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
- When not in use, please store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places.



## WARRANTY

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From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

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### Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

### These conditions below shall not be in warranty range

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

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### Disclaimer

All information, illustrations, and specifications contained in this manual, AUTOOL reserves the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.



## RETURN & EXCHANGE SERVICE

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### Return & Exchange

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

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## 注意事项

### 警告

⚠ 在使用核桃砂积碳清洗机前，请注意以下操作：

- ▶ 避免电源线靠近热、油类及尖锐的边角部位，避免用力拉长、挤压或扭曲等方式而造成电源线破损。
- ▶ 请勿在存放易燃易爆或者有毒物体的区域内使用。
- ▶ 请勿抽吸易燃易爆、热的灰烬、燃烧的烟头等。
- ▶ 请勿抽吸腐蚀性液体，如漂白剂、氨水、管道疏通液等。
- ▶ 请勿抽吸坚硬或者锋利的物件，如碎玻璃、钉子、螺丝等，以免损坏软管。
- ▶ 请避免吸入石膏粉、墙粉、水泥等微小颗粒而引起的过滤器堵塞、电机烧坏等故障。如吸入上述颗粒，请及时清理过滤器。
- ▶ 请勿在没有任何滤网的情况下使用本产品，这会损坏马达并缩短产品的使用寿命。
- ▶ 请勿过度扭曲、踩踏、拉拽软管，积碳清洗机软管破裂后，请勿继续使用。
- ▶ 附件及零配件的使用必须符合厂家要求，产品维修由制造厂家或维修部门专业人员进行更换与维修。
- ▶ 将产品及线缆放在儿童接触不到的地方，肢体不健全、精神有障碍、缺乏相关经验和知识的人（包括儿童）不建议使用。
- ▶ 若电源线、插头或其他部件损坏时，为避免危险，必须停止使用本产品，请立即联系厂家进行更换和维修。



## 产品简介

### 概述

AUTOOL HTS678 是一款全新设计的汽车积碳清洗设备，采用一体化造型设计，全面优化于市场上由吸尘器改装的相应产品设计，能够环保、安全、高效地清理汽车发动机进气和排气系统的积碳问题。汽车核桃砂积碳清洗机是通过高压气流将核桃砂喷进发动机进气管道内，高压高速的砂粒会在封闭的进气管道内翻滚和撞击，从而把进气门及缸壁上的积碳冲击下来，然后通过专门的接口把核桃砂及积碳混合物回收收到设备的存储桶中。

### 主要功能

- **进气歧管清洗：**分别对发动机进气歧管依次喷砂清洗。
- **进/排气门清洗：**可在免拆情况下，依次对气门喷砂清洗。

### 主要特点

- 采用1800W大功率电机，吸力强劲。
- 采用核桃砂粒，物理无害清洗。
- 采用滤网分离积碳与砂粒，重复使用。
- 外接空压机气源，喷砂强劲有力，清洗效果更好。

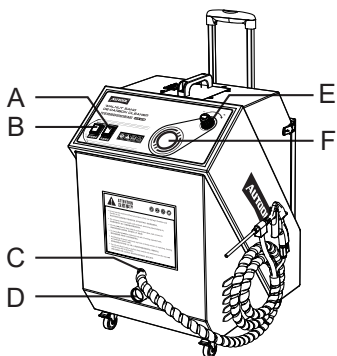
### 工作环境及技术指标

供电电源	AC 220V±10% 50Hz AC 110V±10% 60Hz
主要功率	1800W
砂粒容积	10L
整机重量	52kg
环境温度	-10°C~+40°C
相对湿度	<85%
产品尺寸	490*552*780mm
包装尺寸	610*630*820mm

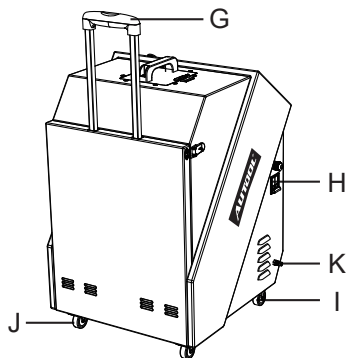


## 产品结构

### 结构图



<b>A</b>	专家模式开关	<b>B</b>	标准模式开关
<b>C</b>	喷砂管	<b>D</b>	回收软管接口
<b>E</b>	压力调节旋钮	<b>F</b>	压力表



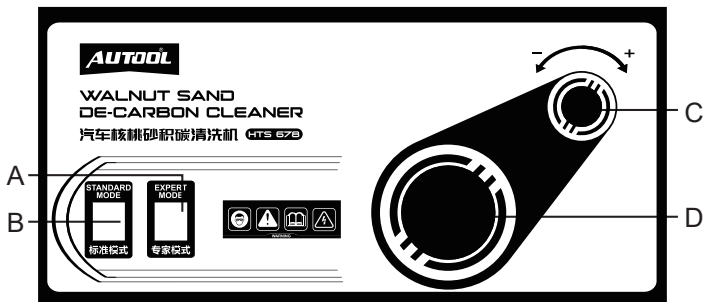
<b>G</b>	推拉杆	<b>H</b>	电源开关
<b>I</b>	方向前轮	<b>J</b>	固定后轮
<b>K</b>	气源接口		



### ⚠ 注意

- ▶ 专家模式和标准模式切换时请先关闭两组开关，再打开对应模式开关。否则电源开关会保护跳闸，此时需关闭所有开关后再重新合闸。

## 控制面板说明



<b>A</b>	专家模式开关	适用清洗条件更规范的要求，提供更专业的清洗效果。
<b>B</b>	标准模式开关	正常使用的首选模式。
<b>C</b>	压力调节旋钮	根据需要可调节进气压力的输出大小，以达到更佳的清洗适配压力。
<b>D</b>	压力表	显示进气压力值及压力变化。



## 操作说明

### 操作方法

- 打开外包装，检查各部位是否有破损。
  - 向上拉出拉杆，然后打开主机两侧的金属锁扣，向外打开配件箱。将配件取出，并将配件箱锁好后，各部件按下面步骤安装。
- (1) 将回收颗粒软管的带腱鞘的一端同主机连接，卡住腱鞘并确认已锁紧。
  - (2) 确定发动机进气口适配的接头（金属接头或黄色硅胶接头）。
  - (3) 将回收管的另一端连接黑色转接弯头，需要使用金属车型适配接头时采用大弯头，需要使用黄色硅胶车型适配接头时采用小弯头。
  - (4) 打开主机顶盖，逆时针旋转滤芯手柄，将滤芯取出，检查底部滤网是否平整无侧翻。
  - (5) 将核桃砂从加注口中间注入储砂桶，一般加3~5kg。
  - (6) 将滤芯复位，顺时针旋转到锁紧即可。
  - (7) 将主机顶盖复位盖好。
  - (8) 移动主机到使用场地后，将不低于0.7MPa的压缩空气外接气源接入主机。
  - (9) 带好护目镜，以防飞溅伤到眼睛。
  - (10) 将电源线接入的外接电源（美规接头接110V 50-60Hz 电压，欧规或国标插头接入220V 50-60Hz 电压），详细要求需查看接头处标识。
  - (11) 将发动机适配接头接入黑色硅胶软管弯头对准待清理汽车部件。
  - (12) 打开主机标准模式开关，设备开始运行。专业人员可开启专家模式，两组开关需关闭一组才能开启另外一组，否则空气开关会保护。
  - (13) 将喷砂枪从回收管上的黑色硅胶弯头的射入口插入，扣动喷砂枪开关，开始进入除碳程序。为配合不同场合清理不同工件，请结合实际情况调整喷砂枪底部节流阀，保证射速处于最佳状态。



## 疑问解答

- 在委托本产品公司维修部门之前，请先检测以下几点：

问题	可能原因	解决方法
电机不转	检查电源线插头是否正确插好	正确地插好电源插头
	检查电源线插座是否有电	检查保险丝断路器保证插座有电
	检查主机电源是否打开	打开主机电源空气开关
工作时灰尘从机器中跑出	检查滤芯组件是否有安装	正确安装滤芯组件
	检查滤芯组件是否有缺陷	更换滤芯组件
	检查滤芯是否安装稳固无松动，钣金是否变形漏沙	正确安装滤芯组件或钣金复原
	检查内部吸管是否破损	将胶布修复或更换
吸力减弱	检查软管和接管是否堵塞或折弯过大	及时将堵塞物清除理顺软管
	检查滤芯是否堵塞	及时清理滤芯上吸附的灰尘或更换滤芯
	检查电机转速是否异常	检查输入电压
枪头不喷砂	检查储砂桶内的滤网是否移位翻转	滤网归位前清空箱体检查是否有大颗粒异物
	检查枪头是否有异物卡死	拧开枪头位置取出异物
	检查气管是否有破损	有破损即更换
	检查砂粒是否潮湿结块	更换砂粒
	检查进砂管是否破损	有破损即更换

### ⚠ 注意

- 任何不出砂的情况均可用棉布堵住出砂口，通过打开喷砂枪气源开关将管道堵塞异物吹回储砂桶内。



## 产品配件

名称	数量	名称	数量
铝板筛网	1	滤芯	1
喷砂枪	1	枪管	2
护目镜	1	吸砂软管	1
吸砂软管转接弯头	2	黄色硅胶适配器	5
铝合金适配器	6	说明书	1
合格证	1		



## 维修保养服务

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您所拥有的AUTOOL产品选用持久耐用的材料，AUTOOL坚持精益求精的生产工艺，每一件产品出厂都经过35道工序及12次质检工作，从而确保每一件产品都拥有卓越的品质及性能。所以您的AUTOOL产品值得您定期维护保养，使其产品将能够长期稳定地工作。

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### 维修保养

维护保养是为了保持产品性能和外观，我们建议您仔细阅读以下产品保养指南：

- 注意不要将产品与粗糙表面摩擦或揉搓产品，特别是钣金外壳。
- 对产品中需要紧固和连接的部位经常进行检查，如发现松动应及时紧固，以保证产品的安全运行。对与各种化学介质接触的产品外部和内部零件要经常进行除锈、喷漆等防腐处理，以提高产品的抗腐蚀能力，延长产品的使用寿命。
- 遵守安全操作规程，不超负荷使用产品。产品的安全防护装置齐全可靠，及时消除不安全因素。电路部分彻底检查，老化电线要及时更换。
- 定期清洗和更换易耗部件；调整各部位配合间隙和更换磨损（已坏）部件清洁时，避免产品接触带腐蚀性的液态物品。
- 不使用时，请将产品存放于干燥的位置。不要将产品存放在高温、潮湿或不通风的地方。



## 保修服务

AUTOOL主机自客户签收日起享有3年保修期。其所含附件自客户签收日起享有1年保修期。

### 保养方式

- 根据具体的故障情况对产品进行免费修理或更换；
- 我方保证所有更换的部件、附件或产品都是全新；
- 在客户收到产品90天内出现故障同时提供视频和图片，我方承担运费并免费提供相应配件给客户更换。收到产品超过90天，客户承担相应的费用，我方免费提供配件给客户更换；

#### 以下情况不在免费保修范围：

- 非正规渠道购买AUTOOL的产品；
- 未按产品说明书要求使用和维护造成的损坏；

在AUTOOL，我们为精湛的设计和卓越的服务感到自豪。我们很乐意为您提供更多的支持或服务。

### 声明

偶然公司保留更改产品设计与规格的权利，届时恕不另行通知。实物外观与颜色可能与说明书中显示的有差别，请以实物为准。我们已尽最大努力力求使书中所有描述准确，但仍难免有不妥之处。如有疑问，请联系经销商或偶然售后服务中心。本公司对产品拥有最终解释权，不承担任何因误解而产生的后果。



## 退换货服务

### 退换货

- 如果您对从线上授权购物平台和线下授权经销商所购买的 AUTOOL 产品不满意, 根据《AUTOOL 全球销售条款》, 您可以自收到产品之日起七日内退货; 或者在产品交付之日起的 30 日内调换等值的其他产品。
- 退回及调换的产品必须处于完全可销售状态, 并附上相关销售单单据, 所有相关配件、纸质发票 (如有)。
- AUTOOL 将会对寄回退货的商品进行检查, 以确保其处于完好无损的状态并且符合条件, 相关条件详情请参阅《AUTOOL 全球销售条款》。任何未通过检查的商品将退还给您, 您将不会获得商品退款。
- 您可以通过客户服务中心或 AUTOOL 授权经销商调换产品; 退换货原则为从哪里购买, 就从哪里退换货。如果您退换货遇见困难或者阻碍, 请联系 AUTOOL 客户服务中心。通过客户服务中心退换货时, 我们建议您通过下面的方式进行:

中国区域致电	400-032-0988 / 18929303778
售后微信号	18929303778
海外区域致电	+86 0755 23304822
E-mail	aftersale@autooltech.com
Facebook	<a href="https://www.facebook.com/autool.vip">https://www.facebook.com/autool.vip</a>
YouTube	<a href="https://www.youtube.com/c/autooltech">https://www.youtube.com/c/autooltech</a>

- 如您的退换货得到确认, 您将收到确认信息和邮件。