





### 产品基本规格 Product Specification

#### 1. 基本信息 Basic Information

1.1 设备名称 Equipment Name: 多功能除碳机 Multi-function Carbon Cleaning Machine

1.2 颜色 Color: 红色/绿色 Red/Green

1.3 主要功能 Main Function:

1.3.1 Fuel system cleaning

1.3.2 Air intake system cleaning

1.3.3. Three way catalytic converter cleaning (oil-based)

1.3.4 Three-way catalytic converter cleaning (water-based)

1.3.5 Combustion chamber foam carbon cleaning

#### 2. 产品特点 Product Feature

2.1 高效快捷，彻底清除积碳，效果可视化

Efficient and fast, eliminate carbon deposits completely, effect is visualized through endoscope

2.2 除碳后提速顺畅，发动动力可增强 10%（不同车型会有所不同）

Speeding up smoothly with enhancing 10% engine power after carbon cleaning (effects vary from different car models)

2.3 除碳后降低油耗（经研究测试表明，油耗会降低 11%~28%，不同车型会有所不同）

Reducing fuel consumption after carbon cleaning (The researches show fuel consumption reduced by 11%~28%, effects vary from different car models)

2.4 除碳后尾气中有害成分减少 50%~70%，100%安全环保

Reducing the harmful ingredients in the exhaust gas by 50% ~ 70% after carbon cleaning, 100% safe and environmental

2.5 适用于所有汽油车，能清洗所有汽车发动机系统相关部件

Applicable to all gasoline vehicle and all related car engine system components

#### 3. 详细参数/配置 Specific Parameter/Configuration

##### 3.1 性能指标 Electrical Characteristics

3.1.1 额定电压 Rated Voltage:	DC 12V
3.1.2 最大功率 Max Power:	150W
3.1.3 显示屏分辨率 Screen Resolution:	2 million pixels
3.1.4 内窥镜分辨率 Endoscope Resolution:	1.3million pixels
3.1.5 压力表 Pressure gauge :	0-1.6Mpa
3.1.6 水箱容量 Water Tank Capacity:	15L
3.1.6 工作噪音 Noise:	<70dB
3.1.7 使用环境 Working Ambient:	5°C~45°C

#### 4. 外形以及包装尺寸 Mechanical Characteristics

4.1 单台净重 Net Weight:	29KG (Approx 29Kg)
4.2 单台毛重 Gross Weight:	41KG (Approx 41Kg)
4.3 设备尺寸 Product Dimension:	400×430×880mm
4.4 包装尺寸 Packaging Dimension:	450×480×1120mm

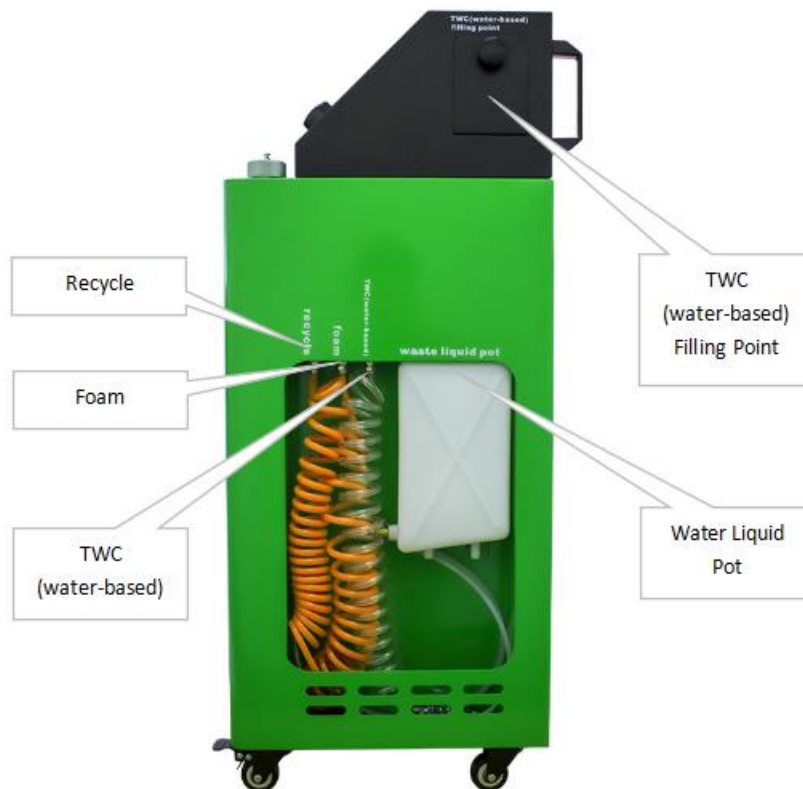
4.5 标识 Marks/Label :

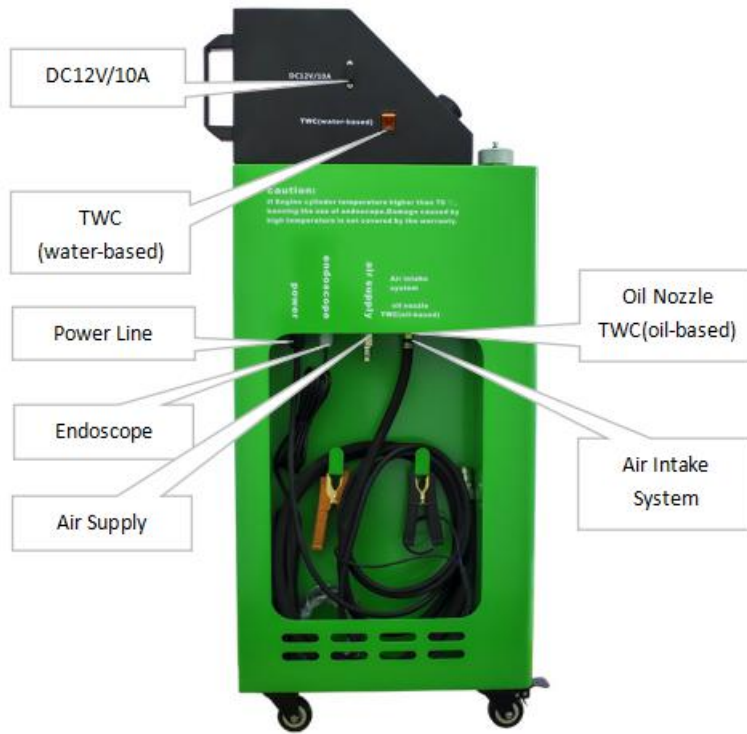
多功能除碳机 Multi-function Carbon Cleaning Machine

4.6 包装 Packing:

木箱包装 Wooden Package

### 5. 设备外观 Product Show





## 6. 使用方法 Operation Instruction

### 6.1 节气门清洗 Clean the throttle

材料 **Material:** 进气清洗剂棉布 **air intake cleaner cotton**

工具 **Tool:** 匹配电脑 **Matching computer**

注意 **Tip:** 防火 **Fireproof**

#### 1. 拆进气管

Remove the intake pipe

#### 2. 钥匙拧到位，但不点火，油门踩到底，促使节气门打开

Screw the key into place but do not ignite. Push the accelerator pedal to the end to force the

throttle to open

3. 使用清洗剂喷洗，等待 30s 后用棉布擦干净  
Spray with detergent, wipe with cotton cloth after 30s
4. 用匹配电脑匹配节气门  
Match the throttle with a matching computer
5. 拔钥匙  
Remove the key

## 6.2 燃烧室泡沫清洗 Combustion chamber foam cleaning

材料 **Material:** 燃烧室泡沫清洗剂 **Combustion Chamber foam cleaner (Zeayeto 2000)**

注意 **Note:** (1) 请不要反复强行点火超过 4 次。

**please do not repeatedly forcibly ignite more than 4 times**

(2) 如果无法启动，需拆卸进气歧管和火花塞，并用化清剂清洗火花塞、气门、进气歧管等部位。

**If it cannot be started, remove the intake manifold and spark plug, and clean the spark plug, valve, intake manifold, etc. with the chemical**

1. 启动车辆，把水温升到 90 度后熄拆下火花塞  
Start the vehicle and remove the spark plug after the water temperature rises to 90 degrees
2. 将清洗剂倒入设备容器口（设备右侧），留 50ml 浸泡火花塞  
Pour the cleaning agent (Zeayeto 2000) into the combustion chamber tank (on the right side of the device), leaving 50ml soaking spark plug
3. 把发泡管插入燃烧室，打开阀门 5 秒左右关闭，使泡沫填满气缸，浸泡 5 分钟  
Insert the foam tube into the combustion chamber, close the valve after about 5 seconds, when the foam full fill the cylinder, then soak for 5 minutes
4. 打开回抽阀，然后将缸体里面的液体抽干，再用气枪吹  
Open the suction valve, then draw the liquid inside the cylinder and blow it with air gun
5. 打开内窥镜，查看缸体里的液体有没过多的残留，以防顶缸  
Open the endoscope and ensure that the liquid in the cylinder has not much left to prevent the piston against the cylinder
6. 安装火花塞，然后着车，因缸体有少许残留液体，着车会有点困难  
Install the spark plug, then start the vehicle, it will be a little difficult to start because the cylinder has a little residual liquid,
7. 打着车后，急轰油门至 3000-4000 转 10 下左右  
After starting the car, step on the accelerator pedal to 3000-4000 rpm for about 10 times

## 6.3 清洗喷油嘴 Clean the nozzle

材料 **Material:** 喷油嘴清洗剂 **Injector cleaner (Zeayeto 3700)**

工具 **Tool:** 油管拆装接头套装 **Tubing disassembly fitting set**

注意 **Tip:** 防火 **Fireproof**

1. 拆开油管接头（如有回油管，需堵住）  
Disassemble the oil pipe joint (if there is a oil return pipe, it needs to be blocked)
2. 使用对应接头，将设备与进油歧管连接  
Connect the machine to the oil inlet manifold using a suitable connector
3. 断开油泵继电器（找不到继电器，可用接头堵住油管）  
Disconnect the oil pump relay (if the relay is not found, the oil pipe can be blocked by the joint)
4. 将清洗剂倒入燃油系统容器口（设备左侧），拧紧盖口  
Pour the cleaning agent (Zeayeto 3700) into the fuel system tank (on the left side of the machine) and tighten the cap
5. 打开气压开关，气压调至 2bar 检查是否漏油

Turn on the air pressure switch and adjust the air pressure to 2 bar to check for oil leakage

6. 打开设备油管上的阀门，并启动车辆

Open the valve of the pipe of the machine, and start the vehicle

7. 约 6 分钟（大排量车）-10 分钟（小排量车）后，发动机出现轻微抖动时关闭钥匙

After about 6 minutes (large displacement vehicle) -10 minutes (small displacement vehicle), when the engine is slightly shaken, turn off the vehicle

8. 关闭设备开关，按气压保险泄压

Turn off the device switch and press the pressure insurance to release pressure

9. 复原油路、电路

Recover oil pipeline、electric circuit

#### 6.4 进气系统清洗 Air intake system cleaning

材料 **Material:** 进气系统清洗剂 Intake system cleaner (Zeayeto 3500)

注意 **Note:** (1) 防火 **Fireproof**

(2) 不要损坏空气流量计 **Do not damage the air flow meter**

(3) 防止清洗途中熄火 **Prevent flame-out during cleaning**

(4) 如发生熄火，请不要反复强行点火超过 4 次。如果无法启动，需拆卸进气歧管和火花塞，并用化清剂清洗火花塞、气门、进气歧管等部位。 **If a flame-out occurs, please do not repeatedly forcibly ignite more than 4 times. If it cannot be started, remove the intake manifold and spark plug, and clean the spark plug, valve, intake manifold, etc. with the chemicals.**

1. 设备油管接上雾化接头，并插入进气管（绕开空气流量计）

Connect the machine oil pipe to the atomizing joint and insert the air inlet pipe (circumvent the air flow meter)

2. 将清洗剂倒入容器口（设备左侧），拧紧盖口

Pour the cleaning agent (Zeayeto 3500) into the Air intake tank (on the left side of the device) and tighten the cover

3. 打开气压开关，气压调至 2bar

Open the air pressure switch and adjust the air pressure to 2bar

4. 启动车辆，保持 1500 转（防止熄火）

Start the vehicle and keep it at 1500 rpm (to prevent flame-out)

5. 打开雾化接头上的阀门开关

Open the switch of the the atomizing joint

6. 约 5 分钟后，关闭设备开关，取出雾化头

Turn off the device switch after about 5 minutes and remove the atomizer

7. 多次急轰油门至 4000-5000 转，直至排气管无白烟冒出钟

Step on the accelerator pedal several times to 4000-5000 rpm until there is no white smoke out from exhaust pipe

8. 关闭钥匙

Remove the key

9. 拆掉雾化头，排出设备里的残留清洗剂

Remove the atomizing head and drain the residual cleaning agent in the machine

#### 6.5 三元催化（油性）清洗 Ternary catalytic (oil-based) cleaning

材料 **Material:** 三元催化清洗剂 Ternary catalytic cleaner (Zeayeto 5700)

注意 **Note:** 防火 **Fireproof**

1、启动车辆，把水温升到 90 度，关闭发动机

Start the car and turn off the engine when the water temperature rises to 90 degrees

2、断开发动机真空管

Disconnect the engine vacuum tube

3、连接设备（使用配套接头）

Connecting machine (using matching connectors)

4、将清洗剂倒入容器口（设备左侧），拧紧盖口

Pour the cleaning agent into the tank (on the left side of the machine) and tighten the cap

5、启动车辆（保持在 2000~3500r/m）

Start-up vehicle (maintained at 2000-3500r/m)

6、打开控制阀、清洗约 10~15min

Open the control valve on the top of tube and clean for about 10-15 minutes.

6、关闭发动机,清洗结束

Turn off the engine and finish cleaning

### 6.6 三元催化（水性）清洗 Ternary catalysis (water-based) cleaning

材料 **Material:** 三元催化清洗剂 Ternary catalysis cleaner (Zeayeto 5100+5200)

注意 **Note:** (1) 使用匹配电脑清除故障码，无故障码则无需此步骤

**Use the matching computer to clear the fault code, no fault code does not need this step**

(2) 防止清洗途中熄火 **Prevent flame-out during cleaning**

1. 拆开前氧传感器，接三元催化专用接头

Dismantle the oxygen sensor and connect it with ternary catalytic converter special connector

2. 设备管道与接头连接,接通电源

Connect the machine pipe to the connector, connect the power supply

3. 将清洗剂（ZEAYETO-5100）倒入清洗机,并加入 1L 水

Pour the cleaning agent (ZEAYETO-5100) into the corresponding tank (Filling port on the side of the machine) and add 1L water

4. 启动车辆，保持怠速

Start the vehicle and maintain idle speed

5. 打开电源开关，输送液体

Turn on the power switch and deliver the liquid

6. 液体加完后，关闭电源，浸泡 5min

Turn off the power after the liquid is added, and soak for five minutes

7. 将清洗剂 ZEAYETO-5200 倒入清洗机（加液口在机器侧面），再加入 1L 水

Pour the cleaning agent (ZEAYETO-5200) into the same tank(Filling port on the side of the machine), and add 1L of water

8. 打开电源开关，输送液体

Turn on the power switch and deliver the liquid

9. 液体加完后，关闭电源

Turn off the power after the liquid is added

10. 急轰油门至 3000-4000 r/m，直至排气管没水出来

Step on the throttle to 3000-4000 r/m until there is no water out from exhaust pipe

11. 关闭发动机，装回氧传感器

Turn off the vehicle, assemble the oxygen sensor

### 6.7 燃油综合清洗 Fuel oil cleaning

材料 **Material:** 燃油系统综合清洗剂 Fuel system cleaner (Zeayeto 3800)

注意 **Note:** (1) 防火 **Fireproof**

(2) 油箱至少应有半箱油 **The tank should have at least half tank oil**

1. 以上 6 项完成后，直接倒入油箱使用

Pour it into the fuel tank directly, after the above 6 items are completed



## 7. 质保时间 Warranty Period: 一年 One Year

### 质保说明 Limited Warranty

自购买之日起，征逸机器及组成该机器的各种零部件的材料和工艺缺陷保证一年。如果征逸特发现任何由征逸特制造的零部件存在缺陷，则征逸特将自行选择修复或更换该等缺陷零部件。

本保证不包括正常磨损、疏忽、热损伤、任何部件的研磨或更改，或滥用。如果产品的使用目的与产品的预期目的不同，或者其使用方式与产品的使用说明不一致，则产品也不包括在此范围内。此外，本保修不包括任何电池或电机以及除征逸特外由其他公司制造的零件，均由各自的制造商单独担保。

这是精简版的征逸特保修说明。如需完整版本，请直接与征逸特联系。

Zeayeto Machine and the various parts and components which comprise them are warranted against defects in materials and workmanship for one full year from the date of purchase. If any part or component manufactured by Zeayeto is found by Zeayeto, in its sole judgment to be defective, Zeayeto will, at its option, either repair or replace such defective part or component.

This warranty does not cover normal wear, neglect, heat damage, the grinding or alteration of any part whatsoever, or abuse in general. Nor does it cover the product if it is used for a purpose other than that for which it was intended, or if it is used in a manner inconsistent with any instructions regarding its use. Also, this warranty does not cover any batteries or electric motors that are sold with it. All electric motors, as well as parts manufactured by companies other than Zeayeto, are separately warranted by their respective manufacturers.

This is a condensed version. For a complete copy, contact ["service@zeayeto.com"](mailto:service@zeayeto.com) directly.

### 使用一般注意事项 General Instructions For Users

- (1) 上述 6.5 和 6.6 项关于三元催化清洗，选择其中 1 种方式即可，不要重复进行

For 6.5 and 6.6 items, select one of them, Please do not repeat

- (2) 全程严禁烟火

Fireworks are strictly prohibited during the entire operation

- (3) 对于小排量车（2.4L 及以下），喷油嘴清洗和进气系统清洗可同时进行

For small displacement vehicles (2.4L and below), injector cleaning and air intake system cleaning can be performed simultaneously

- (4) 完成所有工序后，检查车辆所有管路是否安装到位，并清除故障码（包含隐藏故障）最后路试

Check that all the pipelines of the vehicle is installed in place and clear the fault code (including hidden faults), after completing all the procedures, take the road test at last

- (5) 施工过程，注意防护眼睛。如清洗剂溅入眼中，请用大量清水冲洗

Pay attention to eye protection during the process. If the cleaning agent splashes into your eyes, rinse with plenty of water immediately.

- (6) 清洗完喷油嘴后，短期油耗上升现象正常

It is normal that the short-term fuel consumption rises after cleaning the injector

#### 小技巧 TIP:

出现以下任何情况之一，建议进行发动机除碳：

If any of the following occurs, it is recommended to proceed engine decarbonization:

- 1、发动机怠速 solvent 速不稳、抖动、收油熄火 The engine idles unsteadily, dither and flameout

出现这种故障的主要原因是怠速马达和怠速通道受到积碳污染。怠速通道积碳污染后，气流通过数量受到了限制，需要怠速马达和节气门不断进行调整以维持发动机的正常工作。一方面由于怠速马达和节气门自身的积碳污染使调节功能受到了限制。另一方面，随着积碳污染的不断加重，怠速系统的调节功能也会达到临界值从而导致无法进行调节。此时的 ECU 会认为是怠速马达或节气门出现了故障，实际上是由于怠速系统中有了积碳。



The main cause of this fault is the carbon accumulation of idling motor and idling channel. The amount of airflow through the idling channel is limited by carbon accumulation, which needs to constantly adjust the idling motor and throttle valve to maintain the normal operation of the engine. On the one hand, the regulation function is restrained by the carbon accumulation of idle motor and throttle valve. On the other hand, the regulation function of the idle system will reach the critical value with the continuous increase of carbon accumulation, and thus lead to function failure eventually. The ECU will deem that the idle motor or throttle is malfunctioning, It's actually due to carbon accumulation in the idle system.

2、动力下降、加速不良 Engine power diminishing, poor acceleration

这种故障的主要表现形式是发动机急加速时反应迟钝，响应滞后，全动力行驶时，动力不充沛。

The main manifestation of this fault is the engine response lag upon rapid acceleration, power is not abundant while full power driving

3、冷车启动困难、喘振、噪音增大、尾气排放超标

Cold start difficulty, surge, increased noise, excessive exhaust emission

4、为了预防积碳对车辆的损伤，建议每行驶 20,000 公里后进行一次发动机除碳

In order to prevent the damage of carbon accumulation to vehicles, it is recommended to proceed engine decarbonization after every 20,000 kilometers mileage

以上事项，使用中请充分注意，如遇到不能确认的其它问题，请直接与技术人员联络确认。

**Please pay fully attention to the items mentioned above. If other issues during application, please kindly contact ["service@zeayeto.com"](mailto:service@zeayeto.com) for further information.**