

# **EZ-Blust**<sup>TM</sup>

*Powered By Magic Powder.*



Innovative  
**EZ Blust**



EZ Blust is a powerful cleaning & polishing tool that blows the baking soda onto the object together with compressed air and water. Baking soda has a high cleaning performance. The effect would be like between the high-pressure washer and sandblasting.

## What is different from the previous blasting method?



### Baking soda media is environmentally friendly

Baking soda media after use has no environmental impact even if it disposes into sewage as it is. It is possible to work directly near gratings as there is no need to recover the media. Also, it is applicable for materials that touch the skin as less impact on the human body.

※For the condition of mixing with heavy oil stains or paint film, please go through a separation tank or grease trap.

Merit: No need to recover the media



# Easy Cleaning Quick Cleanup

## Baking soda dissolves in water

Since the previous blast media was not water soluble, it was not suitable for objects which are not good with even a small amount of residue after work. For example, undercarriages and overhauls of the internal combustion engine which contain ball joints and bearings took a lot of time to prepare for work (removing and curing) as well as removing the media.

Water-soluble baking soda media is easy to wash away with water. Also, as it is low Mohs hardness, it minimizes damage to the object even remains some residue.

※We recommend to wash away with hot water to ensure there is no remaining residue on the object for precision parts such as carburetors. It instantly dissolves in water if the water temperature exceeds 60 °C /140 °F.

※Ph value may get affected by the flow rate. Also, please be aware that it may effect animals and plants depending on the working environment such as small ponds and flower beds.



## **Mohs hardness of baking soda media is 2.5 (same hardness as nails)**

In the case of using the method of rubbing and/or polishing, it is difficult to clean the places where tools and fingers can barely enter. This spraying method works better in such places. There is no need to worry about getting a scratch as it does not rub. Baking soda foams carbon dioxide in the process of dissolution. Effectively this helps stains float up and makes the cleaning effect increase.

※There are some different effects depending on materials. Surface of metal plating such as chrome, unichrome, and nickel can be cleaned only with dirt, stains, and rust. Aluminum, brass and copper may be damaged. Stainless steel does not become foggy even with a polish, and It becomes semi-gloss.

※The effect of the paint film varies depending on the type of paint. If coating film is thin or low hardness, it peels off instantly. Two-component polyurethane paint on the car body can be also peeled off. For a thick film coating and high hardness powder coating, it is possible to remove only dirt/ stain without causing damage, however, please understand that generally it may damage the painted surface.

※Plastic and wood also varies hardness. Please make sure to take the measure of each material properly and apply the cleaning work as necessary.

**As the baking soda media is slightly alkaline, it suppresses the occurrence of corrosion.**

Corrosion usually proceeds when it is acidic. Since the baking soda media is slightly alkaline, the objects after application will also be slightly alkaline. The period of the anticorrosion effect to the next time can be longer than other general methods.

※Period of rust prevention varies depending on dry/wet setting, water temperature, and a work process. Cast products and some materials, which easily get rusted, may not get cleaning effect much.



## Demonstration 1



Back side of the aluminum head cover. Heavy oil stain was cleaned without damaging the material as much as possible.

Application time: about 5 min

Media amount used: about 1.5 kg (3.3 lb)

## Demonstration 2

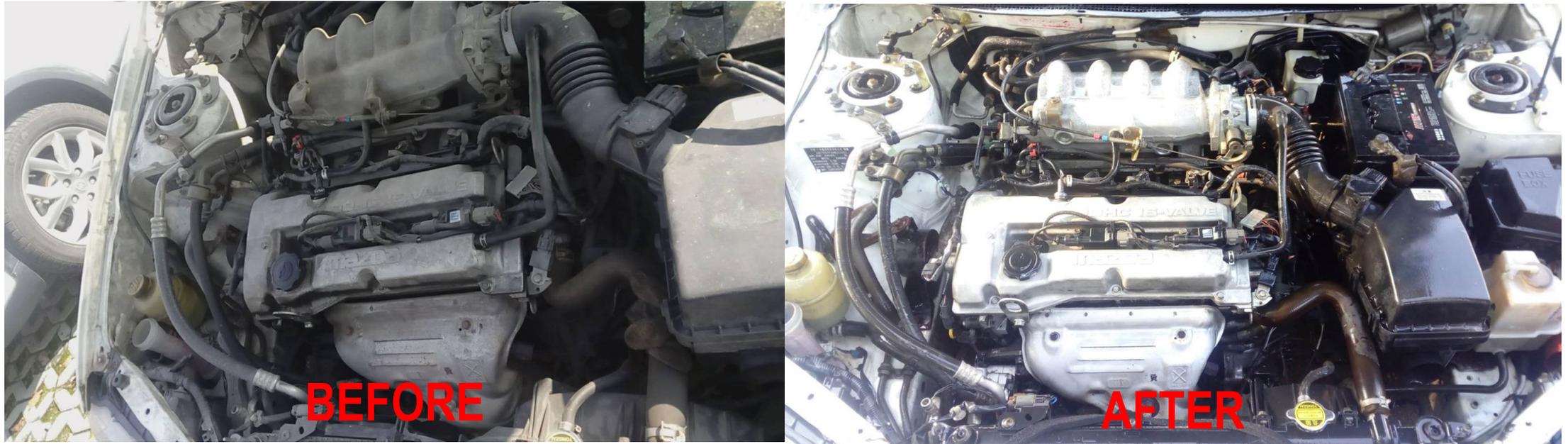


Chrome-plated wire wheel. It is a very time-consuming to polish that shape by hand, but it can be done very quickly with EZ Blust.

Application time: about 8 min for both sides

Media amount used: about 1 kg (2.2 lb)

## Demonstration3



Cleaning the engine room. Compared to the previous method, the time saving and the quality improvement can be expected.

Application time: about 15 min

Media amount used: about 4.5 kg (9.9 lb)

## Demonstration4



Car interior parts (ceiling lining). It was very dirty by tobacco and hand oil. By properly setting the distance between the nozzle and the object, it became clean without damaging, and the smell disappeared.

Application time: about 5 min

Media amount used: about 1.5 kg (3.3 lb)

## Demonstration5



Removing carbon sludge of a piston. Cleaned instantly without damaging the material.

Application time: about 1 min

Media amount used: about 300 g (0.6 lb)

# About EZ WET Startset



The image shows a blue EZ-Blust EZ40-SX air blower on the left, which is a cylindrical tank with a handle and a hose. To its right is a smaller, black and white wet upgrade kit. A red arrow points from the text 'switch' to the upgrade kit, indicating it can be used to convert the blower from dry to wet mode.

Product name: EZ40-SX  
Dimension:  
Approximately 78.8 x 40.3 x 34.4 cm  
Body weight:  
Approximately 13kg  
Air pressure range: 0.4 - 0.6Mpa  
Air consumption:  
8.5CFM@90PSI (0.26 m<sup>3</sup> /min)  
Air injection port:  
G1/4" Tank capacity: 26L

Product name: Wet upgrade kit  
Dimension:  
Approximately 14 x 3.3 x 4.2 cm  
Body weight: Approximately 0.3 kg  
Air pressure range: 35-90PSI

Media consumption  
330g/1 min  
Water consumption(approximate)  
4l/1 min

## Required environment

Air supply: air pressure 35-90PSI, air compressor with minimum 3 horsepower is recommended (effects to duration)

Water supply: faucet 2.0- 3.5Kgf/cm<sup>2</sup> pressure is recommended



Packaging

The main unit and accessories have a warranty for one year. There is a warranty field in the enclosed manual.

Products, packaging and components might be improved or minor changes being made without prior notice. We will inform in advance in case of major changes.

# Recommended blast media

✘We discourage to use other blast media than recommended media which may cause troubles.



**Ave. particle size 0.2-0.3mm**

Small particle size soda is not suitable for blasting. In addition, if the particle size is large, it will clog the machine. Use baking soda media with an average particle size of 0.2-0.3mm. The soda in the image is just an example.

# Major applications and purposes of EZ Blust

- Automobiles and construction machines
- To wash a car body (dirt, rust, oil component) and to clean vehicle suspensions, around engines, paint peeling and parts in maintenance repair
- To wash boats and boat hulls (dirt, rust, oil component), decks, machine rooms, engine parts, paint peeling and to remove barnacles
- To clean buildings, interior and exterior walls, bricks, to remove paint film and graffiti (ink, paint and oil) as well as for concrete surface roughening and painting groundwork processing
- To remove deterioration and stains from concrete surfaces, rust on reinforcing steel, signboards, tents, parking lots and as well as for the last cleaning of construction areas
- To clean memorial monuments, outdoor monuments, filters and ducts of air conditioner units
- To clean inside and outside of bathtubs, floors and walls of bathrooms, gravestones and to remove oil stains from asphalt and concrete

In the automobile and motorcycle industries, there are various applications performed in parts manufacturers, car dealers, car maintenance shops, Gas stations, and dismantling & recycling shops.

Example 1 For cleaning molds by tire manufacturers

Example 2 For overhaul of an internal combustion engine

Example 3 For cleaning the engine room and under the car

Example 4 For cleaning recycling parts for export

Example 5 For cleaning before painting

The possibilities of usage are limitless and increasing day by day with user's imagination.

# Preparation

Let's get started. Please refer to the attached manual and assemble the main unit.



Prepare a cutter, adjustable wrench, plus driver and nipper. The assembly can be completed in about 10 minutes.

Once it is assembled, remove the media regulator at the top of the tank, and put 10 kg (22 lb) of soda media into the tank.



First, take off the media regulator at the top of the tank.



**Put media powder into the tank by using a funnel.**

Three quarters of the tank as a guide, up to about 20kg (44lb) of media can be put in.

When tightening the media regulator at the top of the tank after putting the media in, please ensure to insert the shaft vertically into the center of the tank and carefully tighten the screw.

If it is not injected stably, one of the causes can be the media shortage in the tank.



**Connect the supplied hose to a water faucet.**

Connect the supplied water hose to the faucet and open it. We cannot articulate exactly how much faucet should be opened because water pressure and discharge amount are different depending on location and environment. However, we assume that it will be fine to open the faucet fully since it is still adjustable with the valve at the hand nozzle during operation. Water does not get mixed into the tank. The media will be dissolved due to water solubility. We prepared a setting to switch dry and wet at hand.



Use the air hose to connect air chuck and the compressor.  
A compressor with 3 horsepower or higher is recommended.

Connect the air hose from the compressor and fill the tank with air. It is usually set around 0.6 MPa, but please adjust according to the material you will apply to.

The ability of the compressor is equivalent to power of work. We recommend a compressor with at least 3 horsepower or above. Even with 3 horsepower, sometimes it is necessary to operate with interval breaks/ pause depending on the discharge amount.

A simple type of water separator is attached to the supplied air regulator. When baking soda contains moisture, it will get hard and worse flowability. If the media gets clumps in the tank, it will cause hindering stable injection.

It is necessary to add an air dryer or a water separator if the media is mixed with much moisture. Moisture is the worst for all air tools.



Please always wear safety glasses, masks and gloves before you start.

## How to use





**Dry blast: Open the valve in the media regulator at the top of the tank**



**Wet blast: Open the water valve at the time of dry blast**



**Water release: Please use it when rinsing off the baking soda media**

**If hot water is available, it is also effective for cleaning up dirty oil stains.**

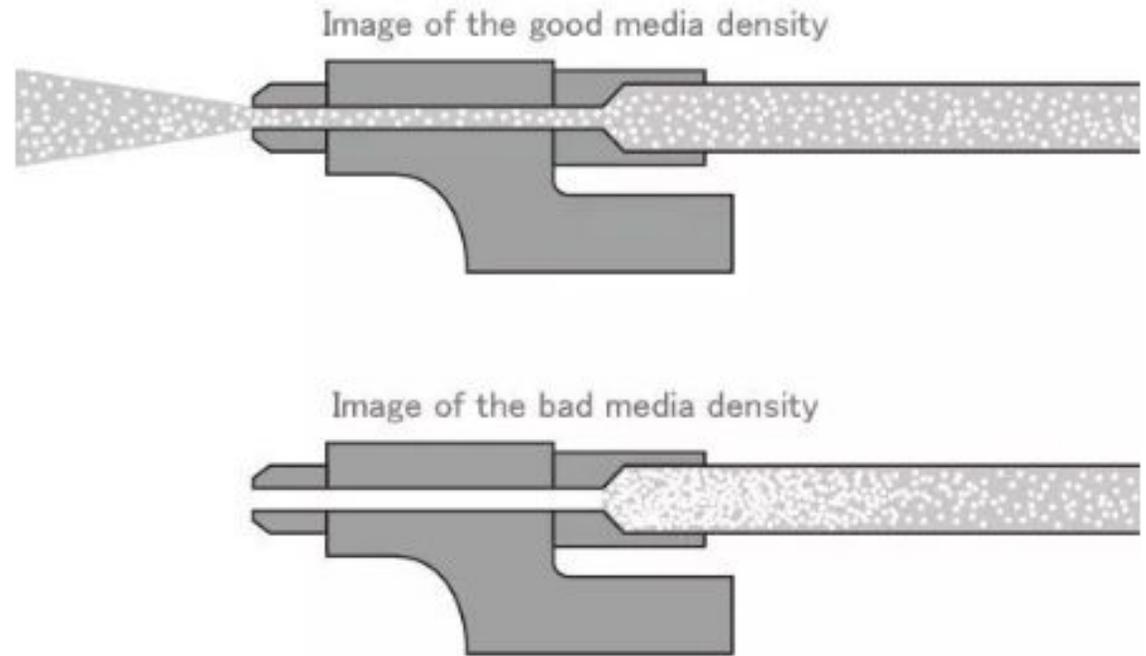
Adjust the media density with the gold media control valve.



Tighten clockwise is to thicker, and the opposite side is to thinner.

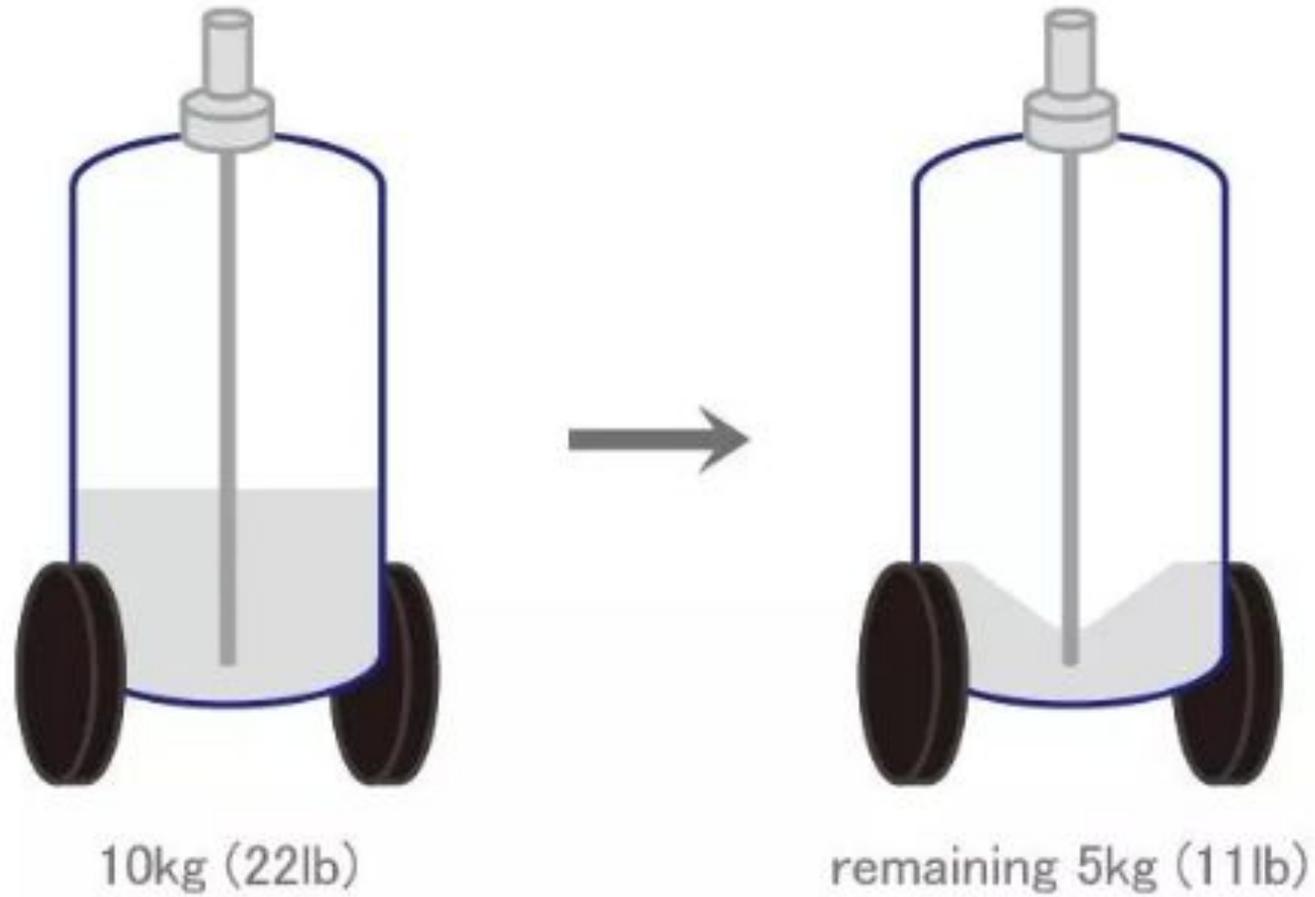
The pathway gets narrow when entering the inner nozzle from the hose. If the media density is too thick, it does not go through smoothly, it accumulates and comes out a lot at once, or it suddenly becomes thinner.

Please adjust the media density accordingly for smooth flow.



Approximately 330g (11.6oz) per minute is average usage, and adjustable range is about 100g to 1,000g (3.52oz to 35.2oz). Please apply appropriately to the material and its condition. Also please control the speed of the adjustment knob according to the condition of the media and remaining amount in the tank.

**As baking soda media is easy to absorb moisture, the supply to the media suction port of the shaft in the tank will not be smooth depending on the environment and the shortage of the media.**



※A frequency of shaking the tank to collapse the media will increase when remaining amount goes low.

Please understand these matters and use them optimally.

# How to apply



You may waste media a lot for the first time using it. The result will be naturally different depending on the angle of the nozzle, the distance to the object, and the adjustment condition. Please try and practice with 10 kg (22 lb) at first.

Please move the nozzle uniformly in order to avoid the media being wasted or being uneven. Please try with various shapes and materials.

It is possible to peel off the paint film / coating of the car, however, it is not efficient to work on such a big surface. We recommend to use EZ Blust in combination with a paint remover. It is easier for EZ Blust to wash away softened coating.

※After application, please wash away the remaining media on the material (air blow for dry use). If there is media left depending on the material may cause stains.



Please make sure that no media remains in the nozzle after operation. If the media is left in the nozzle after water release setting, it may become hardened. If it became hardened, soak it in a water-filled bucket for dissolution. If it does not work, remove it with a wire of 2 mm or less.

If you leave the media in the tank as it is, it may become hardened. If not using it for a long time, please take the media out and store it with the dehumidifying agent.

If it is less than one month not using it, shut off the valve and shut from the outside air would be good enough. In a next time of use, if the media seems to be hardened when pulling the shaft out, please break clumps down.

Lastly, please keep the tank clean and store in a cool and dark space.

## FAQ

**Q.1** How much specification is necessary for the air compressor?

**A.1** A compressor with at least 3 horsepower or above is recommended for a certain degree of continuous work. 5 horsepower or above is highly recommended for professional users and heavy users.

**Q.2** Does water flow back to the media ejection line by the switching nozzle of dry and wet?

**A.2** Only the case, which you open the valve of the media regulator with no pressure in the tank and close the outlet of the nozzle, will be causing flow backwards.

**Q.3** Is it possible to remove dirt on the surface of wood?

**A.3** Yes, it can also be used cleaning the surface of wood. But it may roughen the surface. If you use dry and wet switching properly, subsequent process may be easier. Baking soda due to low Mohs hardness makes this possible.

**Q.4** How much MPa is preferred?

**A.4** Around 0.6 MPa is recommended. It is possible to work at around 0.4 MPa if you use it well. Please note that safety valve opens when exceeding 1 MPa.

**Q.5** How much the baking soda media should be put in the tank?

**A.5** You can fill up to three quarters (about 20kg/ 44lb) if you are working continuously. Ideally 10kg (22lb) should be added each time the media runs out.

**Q.6** Should I use it in a closed room/space when using it with the dry setting?

**A.6** It is not necessary, but please consider the surrounding environment since powder dust scatters.

## FAQ

**Q.7** Is it possible to use the baking soda media once again which is used?

**A.7** It is not possible to use again in case of Wet blow because of water-soluble media. It can be reused in case of Dry blow inside of a cabinet, however, capability of cleaning will be dropped.

**Q.8** How to solve when the media does not come out stably?

**A.8** Please try adjusting the machine setting for flow rate of the media and air. Turn fully the gold knob at the top of the tank clockwise to the maximum flow. And gradually turn back the knob to a point where the media injects cleanly and continuously. If it does not work, probably the media in the tank becomes less, or the media is hardened by moisture.

**Q.9** How much baking soda to be used?

**A.9** Approximately 330g (11.6oz) per minute is average usage, and adjustable range is about 100g to 1,000g (3.52oz to 35.2oz). Please apply appropriately to the material and its condition. Also please control the speed of the adjustment knob according to the condition of the media and remaining amount in the tank.

**Q.10** Is it possible to purchase parts in case of product trouble?

**A.10** We supply all parts. please contact us. See attached manual for warranty. 1 year warranty except for consumables (blade hose, nozzle, air regulator filter).

## FAQ

**Q.11** Is it possible to remove paint or coating film on car body?

**A.11** It is possible to peel off the paint film of the car, however, it is not suitable to remove a thick coating film or hard surface efficiently. It is because the hardness of the media for EZ Blust is kind of low. Applying to one hood as an example is not realistic in terms of cost, time, and the media consumption. In such a case, we recommend use EZ Blust in combination with a paint remover. Once the coating becomes softer by the remover, spray to the surface to peel it off.

**Q.12** Is it possible to work without damaging the base material when removing sticky gaskets or carbon from combustion chamber of the disassembled engine?

**A.12** It is the best use for especially inside of the engine and carburetor, and there is the low risk of change in volume since the base material will not be damaged. Also, there is no concern on residue because of water-soluble media. Alumina or glass beads even a small amount of residue may scratch the inside of the engine, however, a small amount of baking soda will eventually melt even mixed with oil and gasoline. Please note that removal of gaskets may be difficult depending on the material and condition.

# About EZ booster upgrade kit



**EZ-Blust EZ Booster Kit**  
*Powered By Magic Powder* Upgrade kit for the EZ40-SX

**EZブースター**

**EZ Booster Upgrade Kit**  
Kit for the EZ40-SX

Price without tax **345USD**

**Ejecting media powerful and stable**  
**Not necessary to shake or tilt the tank**

**EZ BOOSTER UP GRADE KIT**



Fluidity of the media in the tank significantly affects "EZ Blust" on the workability, efficiencies, and results. Naturally, surroundings to be collapsed is preferable even in the situation of digging down into media as shown on the left. As baking soda media is sensitive to humidity, it does not collapse naturally depending on the atmospheric conditions. Particularly fine-grained MPST (ave. particle size 0.2mm) does not easily and naturally collapse. Therefore, it used to be necessary to shake and tilt the tank.



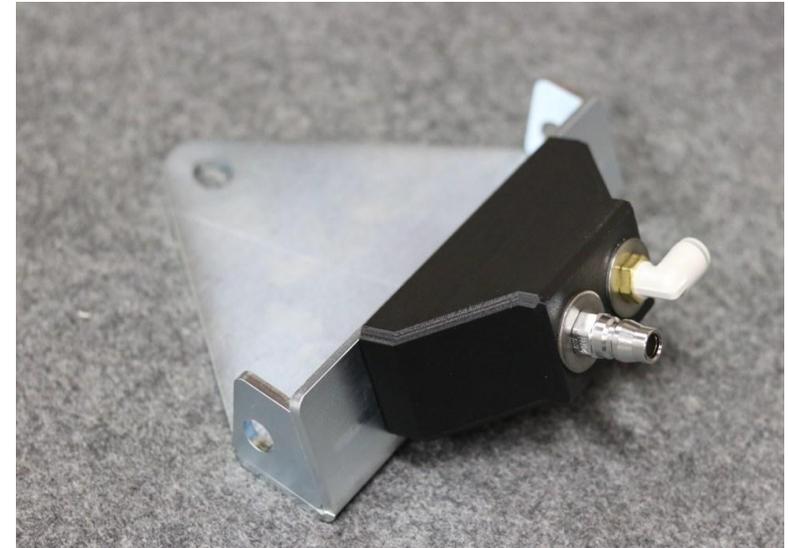
When using the EZ booster, media begins convection and then the media will be staying in a supply port of the tip of a shaft. No longer is shaking and tilting the tank needed and your hand will be free for a better workability.

The stable supply helps to reduce media consumption and improve quality of the finish.



### Spec

- Air pressure range: 35-90 PSI
- Max air pressure: 90 PSI
- Air injection port: G1/4"



### Components

- EZ booster kit main unit
- Base plate
- 8mm urethane hose
- Hose fitting elbow
- Long drain bolt

### Product targeted for upgrade

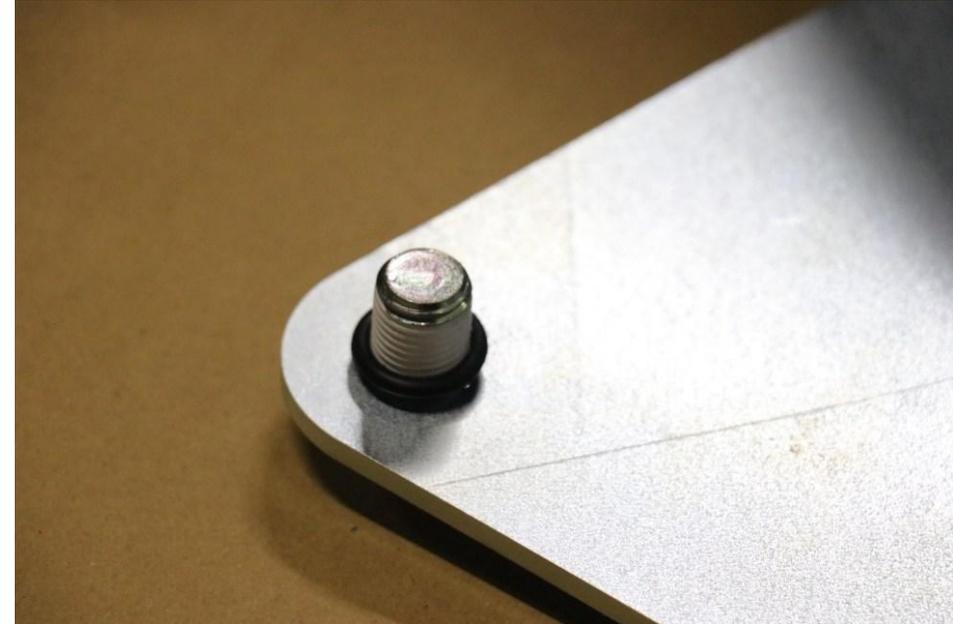
EZ40-SX

Please do not use for other products.

## How to install and use



① Remove the split pin and take out the tires, axles and axle sleeves. And remove the drain bolt on the bottom of the tank.



② Remove the O-ring attached to the existing drain bolt, and nip and attach the base plate to the drain bolt which came with the booster kit. Please use sealing tape and sealing material for the drain bolt to prevent air leaks.



③ Lightly tighten the drain bolt and attach the axles, tires and axle sleeves. After put all together, tighten the drain bolt.

※ The axle may slightly deviate from the hole of the EZ40-SX main unit. In that case, please insert by tapping with a tool like plastic hammer.



④ Remove the air chuck from the air regulator of EZ40-SX main unit and attach the supplied hose fitting elbow. Insert the supplied 8 mm urethane hose all the way.

※ It is a one-touch structure that does not slip out if it is inserted all the way. When pulling out, pull the hose while pushing the outer ring of the hose.



⑤ Insert the urethane hose to the EZ booster side. Then installation is completed.

Attach the air hose to the newly installed air chuck. EZ40-SX is now ready to use.

It will vibrate when air starts filling into the tank and stops when it collects. Vibration starts when you start work. If the EZ40-SX main unit moves due to vibration, please try to lay a towel underneath.

**THANK  
YOU**

