

# PRODUCT CATALOG



[www.lifebreath.it](http://www.lifebreath.it)

Environmental thinking  
**Life Breath**





# Welcome

Life Breath is an innovative start-up funded by a group of professionals focused on renewable energy. We built our expertise over 50 years of studies, R&D and collaborations with leading companies in various industries and universities.

We pride ourselves in having created and patented new green technologies. The most recent and most disruptive one is an electrical and thermal energy production plant. It fuels on a wide range of waste materials. Our system does not produce any harmful emissions into the environment, be it liquid, solid or gas.

Our aim is to improve the quality of life and to protect and safeguard the environment in which we live.



Massimo Gazzetta  
Founder





# Environmental thinking





# Why a shredder?

The Shark Suite idea was born in late 2020 in the middle of the Covid-19 pandemic. Our main concern was to help the world tackle the increasing amount of waste caused by changing habits of its population.

We are motivated by waking up in the morning and developing solutions that help Mother Earth to heal and give our children a healthier future. Our moto is: We did our part! Taking the iniative to save and reuse resources is one of the best things we can do to protect the environment and it's easier than we think. There are many projects to eliminate plastic as a material for single-use products and packaging. Plastic is omnipresent and used in many ways, but unfortunately it is difficult to dispose of. Paper is certainly more

sustainable than plastic, but it comes at a big price: a tree has to live at least 40 years to absorb one tonne of carbon dioxide, which is a long time, considering the polluted air we breathe every day.

We need to give our trees the right amount of time to grow and keep our use of paper and plastic under control.

Sharky suite shreds different types of material and collects it in a container/drawer at the base of the device. It reduces the volume of waste introduced by 80% , as a consequence the collection frequency is reduced. This process contributes to decreasing the CO<sub>2</sub> emissions and the costs sustained by companies for waste collection and management.

Sharky



Sharky-K



Shark



Tarrabah



Shark Med



# Sharky

Designed to be placed in your home or office, it's a substitute for standard recycle bins. Sharky takes up little space and can be elegantly incorporated into your kitchen. It compresses the waste up-to 80% of the original volume so you will do less trips to your recycling center (saving CO<sub>2</sub>). It is simple, clean and safe.



## In&Out

Sharky can be adapted to every need, space and environment. It can be customized for outdoor and indoor usage.



## Size

Small and portable, it easily fits into the smallest spaces. Measuring only 40x23x65 centimeters, it is the right device for every home or office.



## Design

Simple and essential design that can be customized. Different materials, textures and colors can be used to satisfy every one's taste.



## CO2

The aim of the European Union is to cut local CO<sub>2</sub> emissions by 55% by 2030. Efficient and effective handling of municipal waste is key to curb climate change.





Sharky

# Make it yours

Sharky is intended for domestic use. It can be placed at home and replaces the usual waste or recycle bins. Sharky shreds the waste materials reducing its volume by 80%. The resulting material is then collected in the container/drawer at the base of the device. This process contributes to decrease the CO2 emissions and cost due to waste collection and management.

Sharky can be customized to appeal to every need or taste. The machine can be built out

of recyclable materials as aluminium, recycled plastic, or wood. It's simple design can be enhanced with shapes, textures and colours in order to fit all environments.

The device can be securely managed by an App (customizable) and it will be IoT enabled to connect to the most used home system devices.



## Characteristics

Weight	25 Kg
Power supply voltage	230V/24V
Frequency	50 Hz
Dimensions	400(w) 230(d) 653 (h) mm
Loading bowl dimensions	300(w) 160(h) mm
Blade group length	122,5 mm
Blade thickness	5 mm
Number of cutting sectors	1
Productivity	10 Kg/h
Volume reduction	80 %
Blade diameter	70 mm
Number of blades	30
Output granulometry	15-25 mm
Rpm motor	3000
Rpm blade group	15
Load capacity	25 l
Energy consumption working	4 A
Waste materials handled	PLA/PAP/ALU

## Accessories

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Unit for transforming HDPE into 3D printer wire.

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Microturbine for connection under the sink to recharge the battery using running water.

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Solar panel for terrace or outdoor applications.

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Separation unit for PET and HDPE.

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Removable battery with charger.

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App for control and management.

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Home automation interface.

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# Sharky Kitchen

The best solution for your home. Sharky-K is designed to be placed inside your kitchen, integrated in your furniture for maximum elegance and confort. It's a substitute for standard recycle bins. It compresses the waste up-to 80% of the original volume by compressing different types of materials. It is simple, clean and safe.



## Kitchen

An appliance for every kitchen. It's design makes it easy to integrate with existing kitchen standards and materials.



## Size

Discreet and elegant, measuring only 40x60x 65,3 centimeters, it is the right device to be integrated in your kitchen.



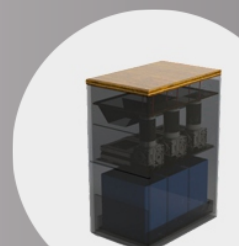
## Battery

It offers the possibility to use a micro under-sink water turbine to power the unit, making it even more green.



## Material

The basic model is intended to include the recycle mechanism for 3 different types of waste: plastic, paper and aluminium





Sharky-K

# Customize it

Sharky-K is a solution that best adapts to domestic needs. It takes up little space and is designed to be elegantly incorporated into your kitchen. It operates in a clean manner, works simply and with the highest safety measures.

The device operation is guaranteed by a system that manages the opening/closing of the doors/drawers and activation of the cutting engines. The incorporated safety prevents accidents. In case of intentional or unintentional wrong manipulation,

the power supply to the engines that operate the blades is immediately excluded.

It is the perfect upgrade for any modern kitchen, its measures are standard and can be easily customized (colours and materials) together with the kitchen manufacturer.



## Characteristics

Weight	70 Kg
Power supply voltage	230V/24V
Frequency	50 Hz
Dimensions	400(w) 600(d) 653(h) mm
Loading bowl dimensions	300(w) 160(h) mm
Blade group length	122,5 mm x3
Blade thickness	5 mm
Number of cutting sectors	3
Productivity	10 Kg/h
Volume reduction	80 %
Blade diameter	70 mm
Number of blades	30
Output granulometry	15-25 mm
Rpm motor	3000
Rpm blade group	15
Load capacity	7 l x3
Energy consumption working	12 A
Waste materials handled	PLA/PAP/ALU

## Accessories

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Unit for transforming HDPE into 3D printer wire.

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Microturbine for connection under the sink to recharge the battery using running water.

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Solar panel for terrace or outdoor applications.

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Separation unit for PET and HDPE.

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Removable battery with charger.

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App for control and management.

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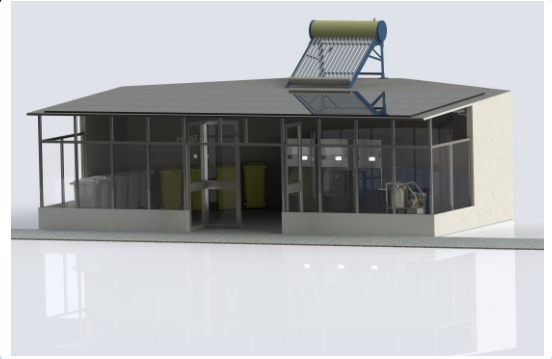
Home automation interface.

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# Shark

Shark is the perfect solution for waste collection centers in residential and commercial areas. These can handle large quantities of waste (paper, plastic, aluminum) and use standard collector bins for disposal. It reduces the volume by 80% and generates significant reduction of CO<sub>2</sub> for the environment.



## Outdoor

Eco-friendly solution to be placed outside residential or commercial areas. Ideal for condos, universities, restaurants or any location with large amount of waste.



## Commercial

Shark is the solution for social responsible corporations that want to help the environment and save on CO<sub>2</sub> emissions.



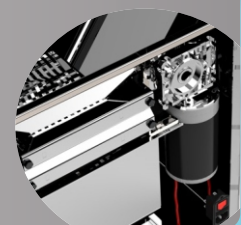
## Design

Shark is made of recyclable materials (recycled plastic, wood, aluminum) and its simple and functional design is intended to be integrated with the surroundings.



## Supply

The engine has a low energy consumption (550w). It can be powered by a direct connection or using solar panels.



Shark

# Saving CO<sub>2</sub>

Shark is a product designed for companies, supermarkets, restaurants, shops, apartment blocks and ecological centres. Due to its simple design, it is easy to insert any of the designated waste materials (plastic/aluminum/paper) into it. The waste material is then directly shredded into the internal container which can be easily disposed of later on. This process reduces the waste volume by 80% . This reduction guarantees a substantial decrease in the number of trips to collect the waste and therefore generates CO<sub>2</sub> emissions savings.

Shark Intelligent System (S.I.S.) can send information on the container's filing status to a collection agency or caretaker of the condominium/commercial premises via WIFI or SMS; creating a virtuous interactive network to optimize garbage collection.

Shark also stores the CO<sub>2</sub> emissions savings into a blockchain to then account for them securely, contributing to sustainable goals set by the EU or any company.



## Characteristics

Weight	187 Kg
Power supply voltage	400V/230V
Frequency	50 Hz
Dimensions	715 (w) 870(d) 1700(h) mm
Loading bowl dimensions	450(w) 220(h) mm
Blade group length	205 mm
Blade thickness	5 mm
Number of cutting sectors	1
Productivity	50 Kg/h
Volume reduction	80 %
Blade diameter	100 mm
Number of blades	38
Output granulometry	20/30 mm
Rpm motor	1740
Rpm blade group	15
Load capacity	65 l
Energy consumption working	3,6A
Waste materials handled	PLA/PAP/ALU

## Accessories

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Shark Intelligent System (S.I.S)

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Solar panel for terrace or outdoor applications.

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App for control and management.

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# Tarrabah

In Tasmania, local Indigenous language, "Tarrabah" is another name for the Tasmanian devil. Our Tarrabah is suitable for events, fairs, concerts, supermarkets and shopping centers. Its design makes it ideal for sponsoring and branding marketing campaigns. It treats specifcly ALU/PET/HDPE.



## Events

Ideal solution to promote products during all types of events, fairs or concerts. Gamification and design can be customized for marketing initiatives.



## Digital

Interactive interface via bar code reader and dedicated App that can be customized for statistics and marketing purposes.



## Design

Eye catching design in the shape of a cylinder to promote the recycle of disposable beverages.



## Recycle

Designed to shred ALU and PET/HDPE it promotes the proper separation of these materials to then be 100% reusable



Tarrabah

# Green marketing

Tarrabah is suitable for events, fairs, concerts, supermarkets and shopping centers. The idea is to give marketeers a tool to promote and educate about proper recycling. Its shell is fully customizable with colours, images, slogans and any type of advertising material. It is reusable and its appearance can be renewed at each event. Tarrabah does not want to be merely a shredder and separator of materials. With its integrated

communication technology, it is capable of transmitting the user's progress on recycling (easy account creation) to a corporate cloud, which will manage them for the benefit of either the user himself (like a supermarket card), or transforming the data into a reward or a donation (i.e. pro-environmental organization) thanks to the CO<sub>2</sub> savings accumulation.



## Characteristics

Weight	156 Kg
Power supply voltage	400V/230V
Frequency	50 Hz
Dimensions	700 Ø 1500(h) mm
Loading bowl dimensions	120 Ø 80 Ø 120 Ø
Blade group length	110, 45, 100 mm
Blade thickness	5
Number of cutting sectors	3
Productivity	AL-10,8 PET-31,2 HDPE-0,6 Kg/h
Volume reduction	80 %
Blade diameter	100 mm
Number of blades	16, 8, 22
Output granulometry	20/30 mm
Rpm motor	1740
Rpm blade group	15
Energy consumption working	3,6A
Waste materials handled	ALU PET HDPE

## Accessories

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Solar panel for terrace or outdoor applications.

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Bar code reader

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App for control and management.

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# Shark Med

A multifunctional shredder designed to separate and reduce the medical waste with high standards of security and sterilization. This device is intended for hospitals, clinics, dentists any other medical facility. It reduces the volume by 80% and separates the materials automatically.



## Sterelize

Sterilization of the medical waste with a powerful stream of steam at 2 bar with 135° C. of temperature.



## Safety

Access to the device guaranteed by safety measures and magnetic card, bar code or NFC reader. Proper segregation of collected materials.



## Separation

Improved waste management with built in separation system based on air/magnetic/conveyers solution. All materials once separated are shredded.



## Savings

Economic saving due to 80% volume reduction and waste separation. Cost efficient waste management.



Shark Med

# Secure and clean

Shark-Med reduces all kinds of medical waste. Every single phase of the treatment process is compliant with European Union and Italian regulations.

Every operational phase is completely automated and directly controlled by a computerized process. The cutting unit, at each cycle, will be sprayed with steam for a predefined period of time to ensure the sterilization and the operator's safety.

Shark-Med separates the waste and compresses the volume by 80% generating high savings for the medical institutions that are faced with high disposal costs.

Europe aims to reduce its local CO<sub>2</sub> emissions by 50% by 2030 through better management of waste. Life Breath products directly contribute to this goal.

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## Characteristics

Weight kg	215 Kg
Power supply voltage	400V/230V
Frequency	50 Hz
Dimensions	700 (w) 500(d) 1200(h) mm
Steam pressure	2 Bar
Steam temperature	135°C
Density	1098 kg/m <sup>3</sup>
N° blade	38
Output granulometry	20/30 mm
Rpm motor	1740
Rpm to blade group	15
Load capacity	65 l
Energy consumption working	3,6A
Materials	Medical Waste

## Steam sterilization

Steam sterilization is a proven, economical and rapid process for killing microorganisms, which occurs through the use elevated heat or saturated steam at low pressure.







*We might not consider ourselves responsible for the condition of our planet  
but if we don't act, we will become accountable.*

*We'd like to do our part*

Life Breath Team

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