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Green Innovation
JANDI'S™
INDUSTRIAL CO.LTD

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ECO CASSAVA BAG

PRODUCTION MACHINERIES

PEOPLE AND TECHNOLOGY
AT ITS BEST



ABOUT US

Avani was established in the year of 2014 in Bali, Indonesia. Spearheaded by individuals who strive to become a bridge in providing convenient solutions to the plastic epidemic that can easily be adopted by businesses and consumers.

First aimed to help rehabilitate the island by offering sustainable packaging solutions to local hospitality and retail industries, AVANI has now grown into a global one-stop shop.

Delivering various eco-friendly needs to businesses across sectors around the world, AVANI has served and collaborated with eco-warriors from more than 50+ countries. From small-scale businesses to worldwide names, AVANI has helped activate their desire to be environmentally conscious into real action fit for the future of the Earth.

Placing sustainability as the core of our business values, we are committed to exercising good corporate governance by combining business and advocacy.



WHY AVANI CASSAVA BAG IS THE BETTER ALTERNATIVE?

Avani Cassava Bag is the perfect alternative to combat the global plastic epidemic. Every year, an estimated 1 trillion plastic bags are consumed worldwide. Unlike conventional plastic bags, this bag, made from natural resources, will biodegrade within months and can be composted right at the convenience of your own backyard.

Utilizing industrial-grade cassava starch, derivatives of vegetable oil, and other renewable resources, Avani is proud to be able to serve the world with the technical support needed to contribute to a more sustainable future.



AVANI CASSAVA BAG

Avani Cassava Bags are mainly made from bio-based materials, utilizing industrial-grade cassava starch lacking in nutritional content and vegetable oil derivatives amongst other things. Take appropriate care after usage and dispose of using a simple home-composting method along with other organic waste.



High performance
underload of
dry weights



Biodegradable
& compostable
within months



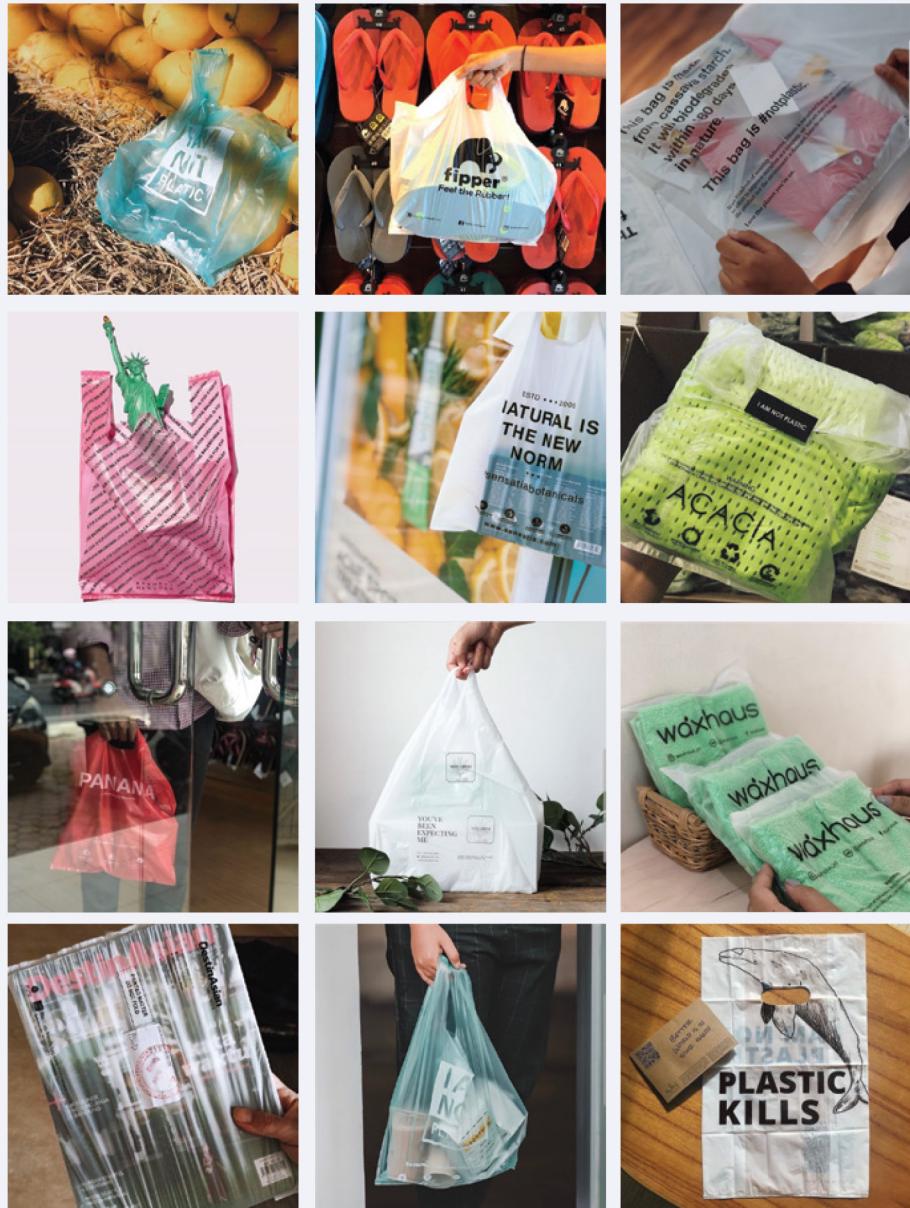
Contain no
petrochemicals



Good oxygen
barrier and
anti-static properties



Customizable
based on MOQ





ECO CASSAVA BAGS MACHINERIES

Previously, in the international market, we are focusing on exporting our cassava bags from our country, Indonesia.

However, due to the increasing demand for

eco-friendly bags, we understand the best way is to appoint an exclusive partner to produce the cassava bags locally in their country.

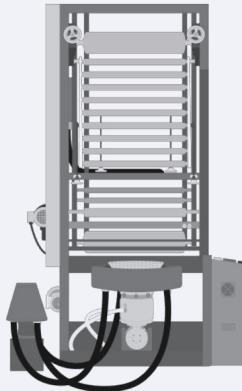
Since the end of 2019, we are offering our manufacturing license, where our partner can purchase from us the machinery and bio-polymer to produce the bags.

For exclusivity in a country, we require the partner to have the capacity of at least 3

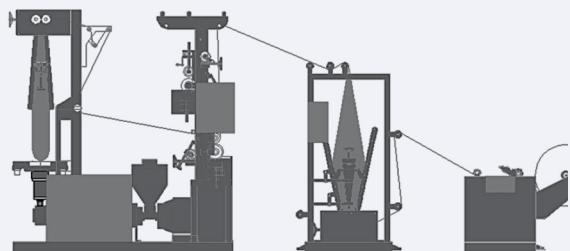
million medium bags monthly. It can be achieved by purchasing 3 machinery sets from us. Avani will assist with the installation and training for your technician able to produce the bags with the same standards as ours, and Avani brand can be used by exclusive partners for selling and reference.

At the moment, our partner in Dubai, Turkey, Mexico, and Singapore have been joining our family.





AVANI BLOW FILM MACHINE (BF)



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AVANI BLOW FILM MACHINE

One blow film machine is a component that forms a film bubble that is set accordingly as the planned dimension of the bags in production. This machine works by processing bio-polymers into film bubbles.

Carefully designed by integrating a printing system that is connected with the production system, the machine will create a seamless process. This is considerably much more efficient than the conventional blow film machine used in petroleum plastic bag production where the printing mechanism is usually detached from the production unit.

Avani Blow Film (BF) Machine is available in two options:

1. **35 mm Screw - BF Machine** with output sizes of small - medium bag
2. **45 mm Screw - BF Machine** with output sizes of large - extra large bag

With this machine, you will have several print options:

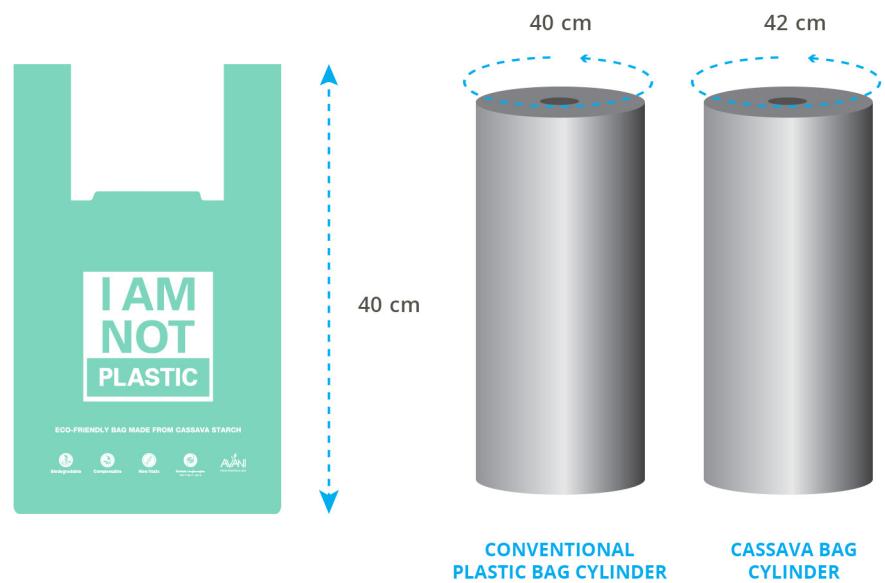
- **1 side 1 color**
- **2 side 1 color**
- **1 side 2 colors**

Avani Blow Film Machine saves a considerable amount of energy compared to conventional plastic blow film machines.

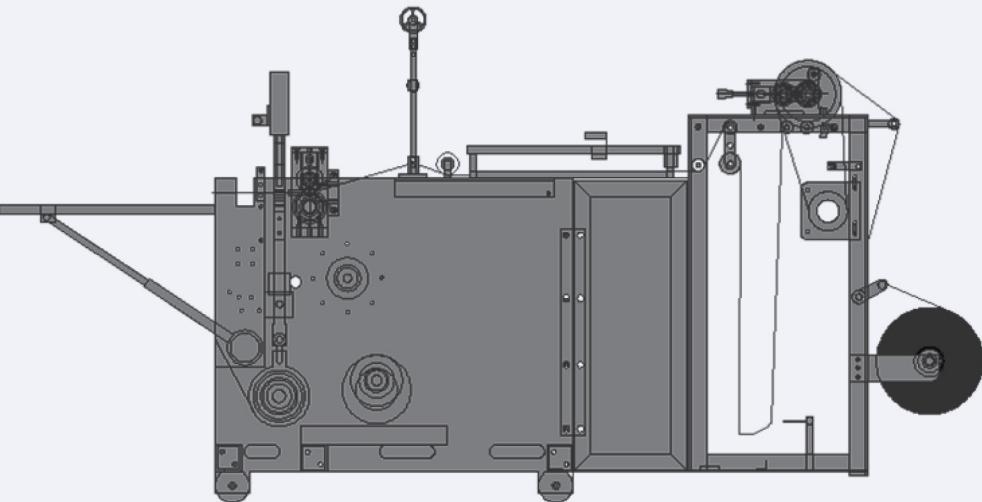
PRINTING CYLINDER

The printing cylinder is not a part of the blown film machine assembly. The printing cylinder should be supplied by a different vendor that specializes in printing cylinder productions. The ideal printing cylinder material to use on cassava bags should be made from stainless steel and copper, where the desired design/print will be engraved on the cylinders by the producer using an engraving machine (rotogravure cylinder engraving).

After engravement, the machine will go through a coating process using chrome around the surface area. Please ensure that there is a cylinder producer and engraver available in your country. If not, Avani will be able to supply you with the cylinders with the desired design from Indonesia.



Avani Cassava Bags are organic and can react to external natural stimulants such as temperature.



AVANI CUTTING & SEALING MACHINE (CS)

AVANI CUTTING & SEALING MACHINE

Avani Cutting & Sealing Machine works by cutting a piece of film from film rolls that will be formed further into bags. Equipped with an automatic counter, the counter alarm will go off (sound and blinks) when the amount has reached the desired setting. The machine can cut up to 60 cm in width and is adjustable in length.

A conventional method backed with technological advancement provided by Avani in striving for a cleaner and greener world.



BIO-CASSAVA POLYMERS WILL RESULT IN

eco-friendly products which are vibrant and, most importantly, compostable.

Our bio-polymer is made from industrial-grade cassava starch vegetable oil derivatives, and other renewable resources. With 11 colors available, this bio-polymer will be the perfect answer for brands seeking to strengthen their commitment to the environment by switching to compostable bags as their product packaging, laundry bags, shopping bags, etc.

POLYMERS COLOR



Red

Orange

Yellow

Pink



Black

Blue

Green

Tosca



Grey

White

Natural



FAQ CASSAVA BAG

1. What is it made from?

It is made from cassava starch and vegetable oil derivatives as an sustainable alternative to traditional plastic bag.

2. What is the printing ink made from?

The ink for the printing logo is alcohol based, heavy metal free, non-toxic and eco-friendly.

3. Will the bag dissolve in water?

The bag will soften and break easily in contact with normal temperature water and could dissolve in hot temperature water (above 90°C). This is due to its natural characteristic, as well as proof that it will not cause harm to any living beings should the bag accidentally ended up in our landfill or water. The best end-of-life scenario for the bag is to simply compost in the backyard should it is no longer usable.

4. Is the bag edible?

The main purpose of the bag is to carry stuff and/or as multifunction bag. The bag has passed Oral Toxicity Test but please note that this test can't be compared in any way to food regulatory test, thus this product is not considered as food or beverage.

5. How long is the shelf life?

The shelf life is up to 2 years if stored in its original-sealed protective PE packing. Once the PE packing is opened, the shelf life of cassava bags shortens to months (less than 1 year) when stored in ideal storage condition.

6. How to measure the bag?

Calculation will be based on bag's width x length x thickness.

Dimension : 40/28 cm x 45 cm x 40 micron

Total width : 40 cm (total width + gusset)
Width : 28 cm
Length : 45 cm
Thickness : 40 micron

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10. How many colors are available for the bags?

Up to 12 base colors are available, please see image below:



Avani White 101

Avani Orange 201

Pantone Black 3 C

Avani Black 301

Pantone 193 C

Avani Red 402

Pantone 1788 C

Avani Red 403

Pantone Cool Gray 9 C

Avani Grey 501



Avani Natural Transparent

Avani Pink 601

Avani Yellow 701

Avani Green 803

Avani Green 804

Pantone Cool Gray 9 C

Avani Blue 901

AVAILABLE PRINTING COLOR

PANTONE 301

PANTONE 2230C

PANTONE 3435C

PANTONE 1235C

PANTONE 166C

White

PANTONE 311

PANTONE 476C

PANTONE 488C

PANTONE 186C

PANTONE 261C

PANTONE 2300C

PANTONE 875C

PANTONE 214C

PANTONE 444C

Black



11. Is there any limitation for printing of the logo/design?

A Printing cylinder is needed for each ink color printed on each side of the bag (maximum 2 ink colors), example:

Two colors, one side : 2 cylinders needed

One color, two sides : 2 cylinders needed

One color, one side : 1 cylinder needed

12. What is a printing cylinder?

Printing cylinder is a chromed cylinder with final customized design on it and it is needed to print the logo/design onto the bag. Printing process will be done at the same time during bags production process. One cylinder can be used up to 70.000 - 100.000 pcs as long as the bags are of the same size and the same design.

13. How much is the cost of printing cylinder?

The cylinder pricing depends on width and length of the bag, our sales team will assist you for the cylinder cost information.

14. How about my brand consistency application on Avani Bio-cassava bag product?

Considering the raw materials used for the cassava bags are bio-based, the consistency of quality is a challenge that we continually improve at any time. For this reason, a deviation of 5-10% can occur in the results of bag colors and the printing colors.

15. What can be carried inside the cassava bag and what is the load capacity?

The cassava bag is most ideal to carry dry items. The load capacity depends on the bags specification / thickness. For our generic product, you can always check on our catalog product information.



7. What is the maximum width and length of bag with print?

The maximum width of bag (including gusset) is 60 cm, maximum length is 100 cm.

**We can accommodate production of bags with width up to 60cm and length up to 160cm. Please note that with lengths above 70cm, we can only accommodate bags with endless printings or without any printings.*

**Due to technicality during the making of printing cylinder, we are unable to accommodate bag with width ranging from 33 cm – 37 cm.*

8. What is the minimum and maximum micron thickness?

The minimum micron thickness is 40 micron, the maximum micron thickness for bag without gusset is 100 micron while the bag with gusset the maximum micron is 50.

9. Can we customize the Cassava bag and how about the price?

Yes, you can customize the size and design according to your needs. Measurement will be based on bag's width x length x micron thickness. For design, please attach desired logo in Adobe PDF, Adobe Illustrator or Vector file. The price will depend on the bag's specification.



16. Can the Cassava bag be re-used?

Yes, of course, please re-use it as many times as possible.

17. How should I store and handle the bag?

- Cassava bags that are already opened from it's PE packaging must be stored in clean room with good air circulation and natural ventilation and a humidity about 60% of tropical climate. As due to it's organic nature, there's a chance that the bag will get moldy or lose it's moisture and become crunchy – like dry leaves.
- Due to the organic materials used to make the cassava bags, humid condition or extreme weather should be avoided.
- Please avoid direct prolonged contact of cassava bags with water as it will alter the bag's texture and durability.

18. What about the end life of the used cassava bags?

We highly recommend you to compost the cassava bag after its usage. The cassava bag can be composted with home composting method even in your own backyard. The time needed to compost the bag depends on condition of the composting set up (i.e materials used in the composting mixture) and the treatment applied to it.

19. Can I buy a cassava sample kit first for trial?

Yes, we recommend you to purchase our cassava bag sample kit for you to have a trial on your own. Our sales team will assist you for the order process.



HOW TO ORDER

Please provide information as below in your query to us, it will help our team to proceed your order in a timely manner.

- Business name :
- Business category:
Company/Hotel/Restaurant/Retail/Other, please specify...
- Business website :
- Shipping address :
- Country:Postcode :
- Contact person full name :
- Contact person email :
- Contact person phone number & WhatsApp :
- Order :

CONTACT INFORMATION

- International Sales (Nadya) : international.sales@avanieco.com

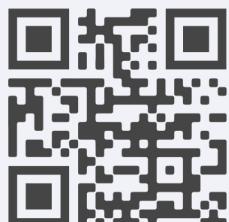
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