

Witnal

Circular Economy

ENGLISH ver.



Every cloth is not to be thrown away but to be collected and reborn.

A new type of recycling called the Circular Economy of Textiles
which circulates collected clothing.

Withal is a resource recycling project that tackle global environmental issues.

Today, about 1 million tons (about 3.3 billion garments) of clothing are discarded annually in Japan. Most of the discarded clothes are disposed of daily by landfill or incineration. The greenhouse gases emitted in this process is a heavy burden on the global environment.

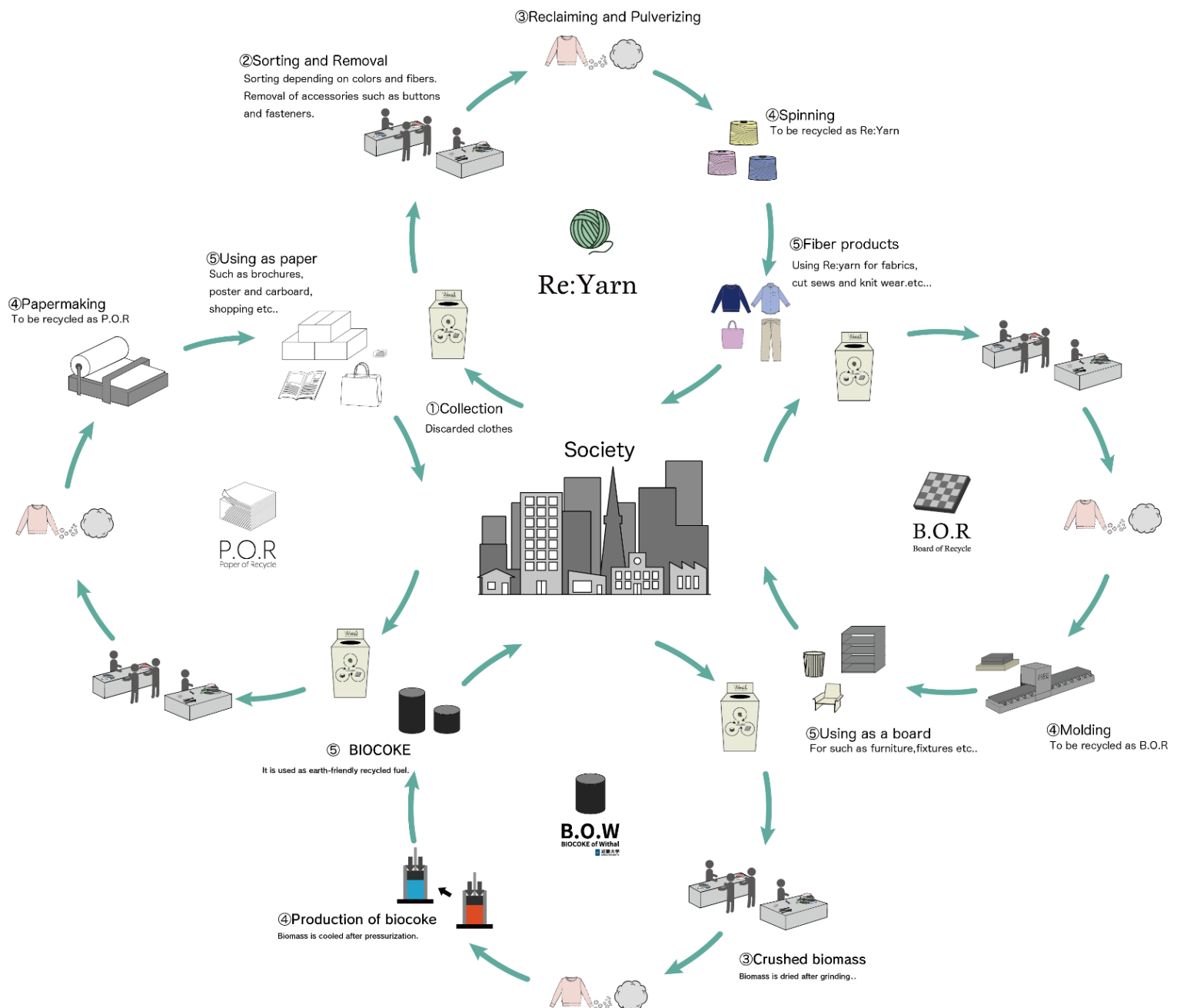
Climate change caused by global warming is changing the way we live, and the impact is enormous.

Our wish is to create the livable earth and pass on to the future.
We have started a sustainable project called Withal which contribute to solving environmental problems through the power of fashion.

It is usually said that clothes collected for recycling are difficult to recycle depending on materials. Even when collection boxes are set up, they are only for garments made of a limited kind of materials. Materials that are not eligible for collection cannot be placed in boxes in most cases. Reality is that it is difficult to take an action even if you try to support environmental project.

Withal

Circular Economy



What is Withal Circular Economy ?

At first glance, usual circular economy may seem like a waste-free, but the reality of the textile industry is that, due to the wide variety of composition and blended materials, some can be used as part of the circular economy and some cannot.

Withal's circular economy is "to be able to recycle collected fibers without any waste," and which leads to effective use of resources and reduction of greenhouse gas emissions and is environmentally friendly..

Withal is an environment project that everyone can think familiar about the future of the earth.



- **Re:Yarn**

During the process of the garment collection and sorting, all garments made of a single material such as 100% cotton, 100% linen, 100% wool, 100% rayon, 100% silk, 100% cashmere, etc. will be distinguished as Re:Yarn. Re:Yarn will be used for woven fabrics, cut and sewn fabrics and sweaters. This is an integrated approach from garment collection to textile production.



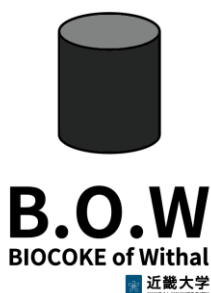
- **B.O.R Board of Recycle**

This is fiber recycled board made of discarded clothes which are reclaimed and mixed with specific material and compressed. It is characterized by different colors and textures depending on the fibers used, and has similar strength and workability as wood, and can be recycled and reused as new board. As a material which realizes a recycling-oriented production model. It can be used for furniture, interior decorations, and display fixtures in a variety of spaces.



- **P.O.R Paper of Recycle**

This paper is blended with pulverized discarded clothes. The paper can be many uses such as brochures, posters and cardboard, shopping bags, business cards, and documentations.



- **B.O.W BIO COKE of Withal**

Bio coke is a new recycled fuel alternative to fossil fuels. It is made by grinding and processing recycled clothing as raw material.

There are 2 major benefits of Bio-Coke.

The first is high recyclability. It is an environmentally friendly recycled fuel that leads to a recycling-oriented society.

The second is that the Bio-Coke is a substitute for conventional fossil fuel which leads to a reduction of global warming gases.

【Clothing Collection Fee Structures】

International Partners

We prepare containers for international partners at representative ports in Europe, North America and Asia.

The transportation company is called CMA CGM and the ships carrying the containers are operated on biofuel and it can reduce Co2 by 84% compared to normal transportation.

▪ Europe

Ⓐ + Ⓑ = Annual Fee €3825

※ in case of 1 shop/1 container

Ⓐ Biofuel Container (€3645 x times)

Ⓑ Monthly fee per shop (€15 x number of shops x 12months)

▪ North America

Ⓐ + Ⓑ = Annual Fee USD4272

※ in case of 1 shop/1 container

Ⓐ Biofuel Container (USD4080 x times)

Ⓑ Monthly fee per shop (USD16 x number of shops x 12months)

▪ Asia

Ⓐ + Ⓑ = Annual Fee USD3792

※ in case of 1 shop/1 container

Ⓐ Biofuel Container (USD3600 x times)

Ⓑ Monthly fee per shop (USD16 x number of shops x 12months)

▪ The fees can change in case of drastic currency exchange rate fluctuation.

▪ Additional containers available with extra sur charge.

▪ In case the customer is not a shop, such as factory and warehouse etc, the fees can differ from the indicated above and we discuss each time.

How tackle your carbon footprint

REDUCE



Use of
alternative energy



BIOFUEL +

-84%
GHG

- BioFuel used is UCOME, a 2nd generation biofuel derived from waste vegetable cooking oil, or Brown Grease, issued from fat waste, and can be assimilated to UCOME.

MIX-BIOFUEL

-10%
GHG

- Product is based on a mix of VLSFO fossil fuel and 2nd generation BioFuel.



MIX-BIOMETHANE

-10%
GHG

-90%
Other air
pollutants

- Product is based on fossil fuel LNG and Bio-Methane with Guarantee of Origin

OFFSET



Offset remaining
emissions



CARBON OFFSET

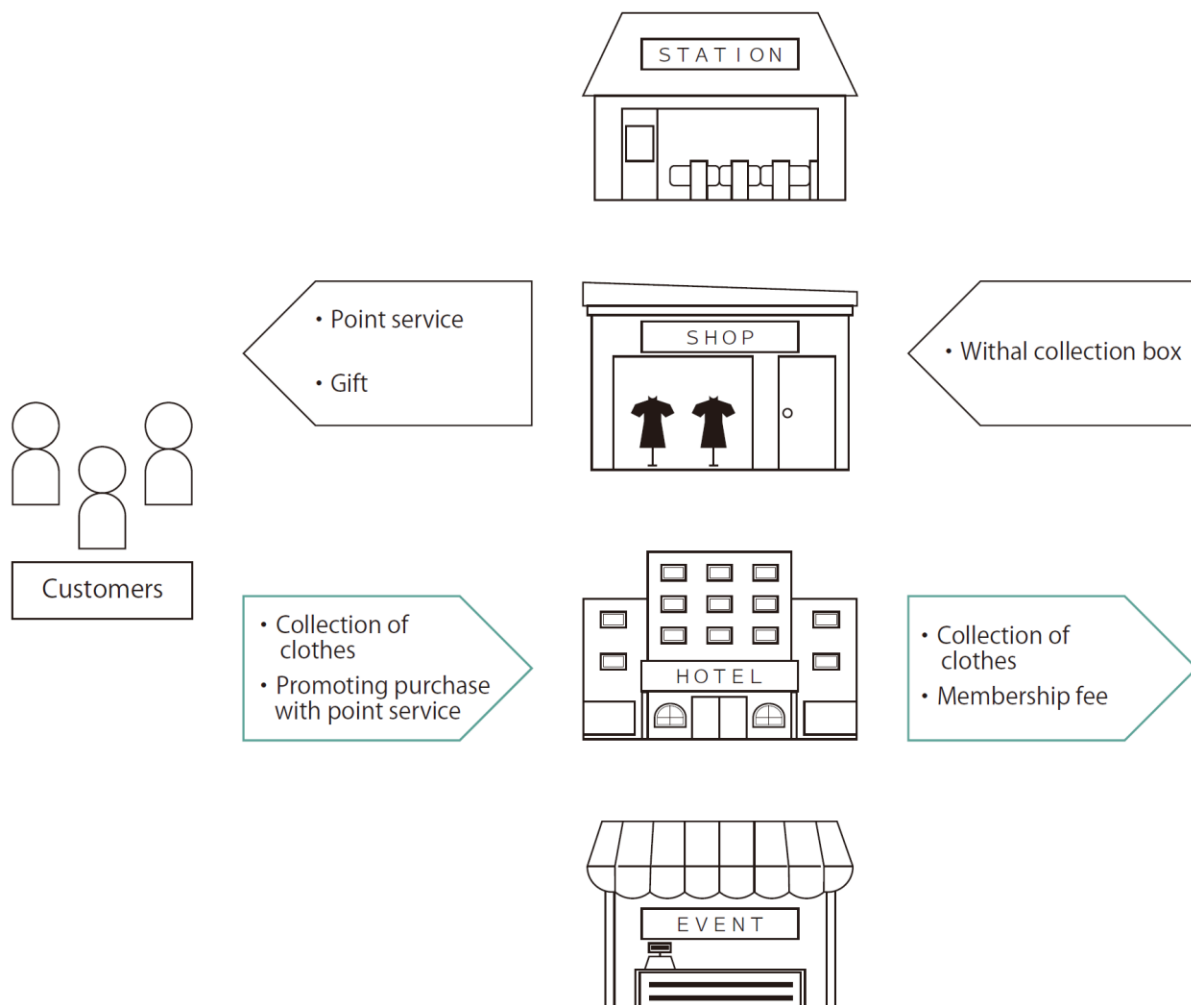
Projects that offset 100% of your remaining emissions

1. Clothing Collection

Withal collection box or POP is available for the collection of clothes.
Condition on price and sizes etc available upon request.

There is no limitation of composition or materials. Any cloth can be put into the box.

For the shipment of the collected clothes, please use any boxes you have



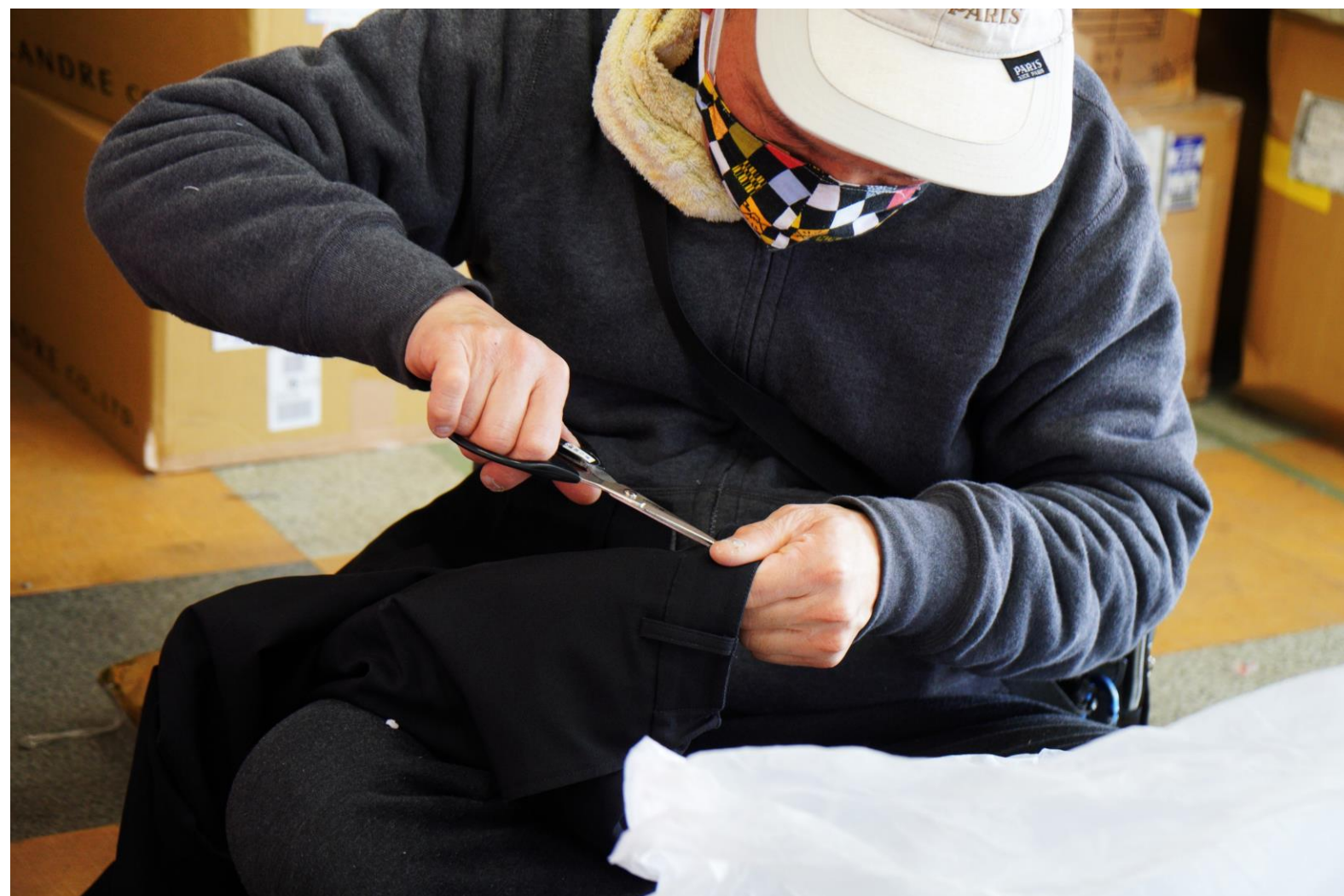
2. Sorting

Sorting collected clothes depending on colors and compositions.

And accessories such as buttons and zippers will be taken away by hands.

For the garments made of a single material such as 100% cotton, 100% linen, 100% wool, 100% rayon, 100% silk, 100% cashmere, etc. will be distinguished as Re:Yarn.





3. Reclaiming • Pulverizing

After removing contaminations from clothes, they are to be reclaimed and pulverized into fibers and will be used as a fiber raw material.





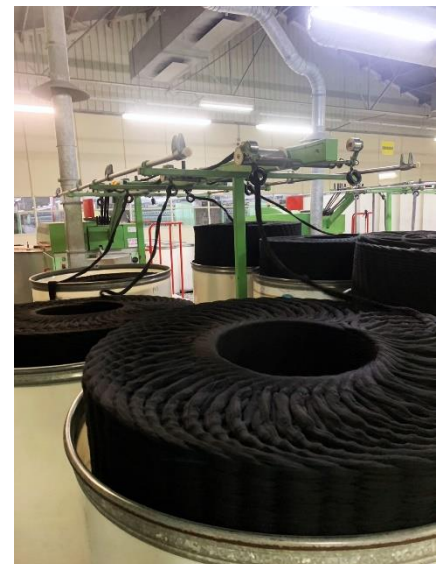
4. Spinning



Re:Yarn

Re:Yarn Spinning and dyeing of reclaimed fibers

RE:Yarn is colored with mixing pigments before spinning and there is almost no water is used during the process.



B.O.R Molding the reclaimed and pulverized fiber



B.O.R
Board of Recycle



1. Blend special material with fiber



2. Make them felted and pour into a compressor



3. Apply a pressure to cool after heating.



4. The board is made.



Re:Yarn



Re:Yarn

原料となる回収した繊維衣料品を再び羊毛を経て紡績し、リサイクルヤーンをつくりあげました。そのリサイクルヤーンから有機生地、カットソー生地、セーター用の表材にし、繊維製品にします。衣料品回収から繊維製品化まで一貫した取り組みです。



B.O.R.

原料となる繊維衣料品（布、皮革、縫製くずなど）を羊毛と混合し圧縮成形した固形リサイクルボードです。使用する繊維（原料）によって色や風合いが異なるのが特徴で、木材に近い強度と加工性もあり、応用性は新たなボードとして再生が可能です。環境型生産モデルを構築する素材として、家具をはじめ、さまざまな分野の内装やディスプレイ用途に使用可能です。



P.O.R.

原料となる繊維衣料品を粉碎し配合した紙です。自然な風合いで手触りやらかな紙質になります。パンフレットやガスターなどの短版物やダンボール、ショッピングバッグ、名刺や資料作成などさまざまな用途に使用可能です。



すべての服は捨てるものは無く、すべて回収するもの。
そして、生まれ変わるもの。

回収した衣類を循環するサーキュラーエコノミーという新しいリサイクルを実現。
withall（ウィズオール）は地球環境問題に取り組む繊維環境プロジェクトです。

今、日本では年間約 100 万トン（約 33 億着）もの服が捨てられています。
廃棄された服のほとんどは、埋め立てや焼却によって日々処分され、
その燃焼される温室効果ガスは、地球環境に多くの負担をかけています。
地球の温暖化ペースは、地球環境に多くの負担をかけています。
地球の温暖化による気候変動が私たちの暮らしを変化させ、与える影響は最大です。

住みやすい地球を、この先、未来へずっとつなげたい。
ファッションの中で環境問題が前面に課題したい。
Withall という「持続可能」な取り組みを始めました。



amiaz

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Re:Yarn

Re:CO

Re:COPO

Re:CO

Re:COPO



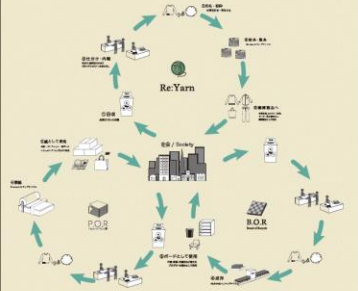
Re:Yarn



Re:CO



Re:COPO



繊維環境
推進委員会

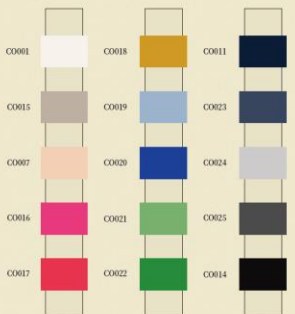


Re:CO

RYC-28

NM 1/48 NE 28/1

Re:Yarn cotton 40%
cotton 60%



Re:CO

RYC-16

NM 1/26.4 NE 16/1

Re:Yarn cotton 60%
cotton 40%



Re:COPO

RYCP-16

NM 1/26.4 NE 16/1

Re:Yarn cotton 50%
recycle polyester 30%
polyester 20%

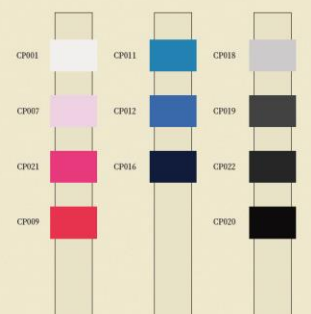


Re:COPO

RYCP-30

NM 1/50 NE 30/1

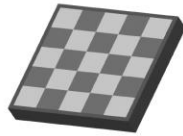
Re:Yarn cotton 45%
recycle polyester 30%
polyester 25%





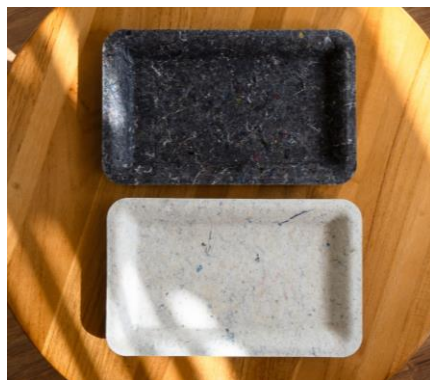
Re:Yarn

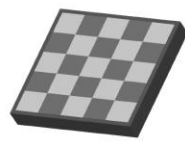




B.O.R

Board of Recycle





B.O.R
Board of Recycle



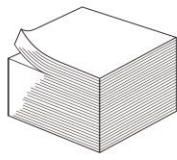
Book racks in a waiting room in front of the CEO room of TSI Holding Co., Ltd



And wander POPUP SHOP



Floor and desks at Atsu-Labo factory owned by AMIAZ



P.O.R
Paper of Recycle





B.O.W
BIOCOKE of Withal
 近畿大学
KINDAI UNIVERSITY



JUTE 70%
COFFEE 30%

POYESTER 100%

COTTON 50%
COFFEE 50%

COTTON 100%

JUTE 100%



Sustainable booth at the Fashion World Tokyo Spring 2023.





At Nakatsugawa THE SOLAR BUDOUKAN 2023 held solely on solar power



Who's Next, Impact, Bijorhca, Traffic & Neonyt Paris.2-3 September 2023



We have a small factory called Atsu-Labo in Shibuya Tokyo. We have specialized sewing machines that can sew woven and cut-and-sew fabrics, and WHOLEGARMENT that can make knitwear. We are confident in the careful workmanship and high quality workmanship by our highly skilled and experienced staff. We are also flexible to meet detailed specifications and accept custom-made products to meet customers' needs. We would be happy to share your idea at our factory which is committed to reliability and quality. Clothes made in Atsu-Labo can be commercialized as MADE IN TOKYO/MADE IN SHIBUYA.



SAMPLE LABO
MADE IN SHIBUYA
MADE IN TOKYO

Knit/Wholegarment
Cut&sew
Fabric clothes
Leather etc...





KNIT

WHOLEGARMENT

MACH2®S 8S/12S/14S/16S/18S
MACH2XS 8G/12G/15L/18L
SWG-X 8G/12G/15G
SWG-061N2

FABRIC

SEWING MACHINE

DDL-9000BS E52-133M
DLN-9010A-SS VC2700-156M YB-5
DU-141H-7-0B LBH-1790AN HY-10W



Atsu-Labo is a factory located in Shibuya Tokyo, the central city of Japan. We have various sewing machines and WHOLEGARMENT machines to create cut and sewn, woven, and knit fabrics.

1.Business

- Sample production
- Production for small quantity.
- Wholegarment. Design data creation.
- Custom made for shops
- Sawing etc



2.Items

Atsu-Labo is a small factory but it can do many things.
The factory is equipped with wholegarment knitting machines and various sawing machines.

We can produce various items such as the followings.

- knitwear
- cut and sawing
- skirt
- leather items
- accessories
- and more



3.How to order

Please contact us by email

atsu-labo@amiarz.tokyo

If you provide us with specifications, etc., we will confirm and contact you.

We can also ship products overseas via OCS or DHL or designated forwarder by customers.

4.Production

Since Atsu-Labo is a small factory there is no minimum order quantity.

We produce even when an order is 1 piece.

When the quantity of the order excess our capacity we use our satellite factories all over the world.

Knit/Wholegarment

Atsu-Labo is equipped with 3 units of wholegarment knitting machines of 18L, 15Lxs, 12S, and the small wholegarment in 15G.

We can produce the final sample from the 1st sample at Atsu-Lab and mass production can be done by wholegarments in Japan, Italy, and China by using the data.

MACH2®S



MACH2®XS



SWG® 061N2



Cut&sew,Fabric clothes,Leather,etc...

Atsulabo has a variety of sewing machines, enabling integrated production from cutting to sewing. We also have press machines and needle-inspection machines, so we can handle mass production shipments.

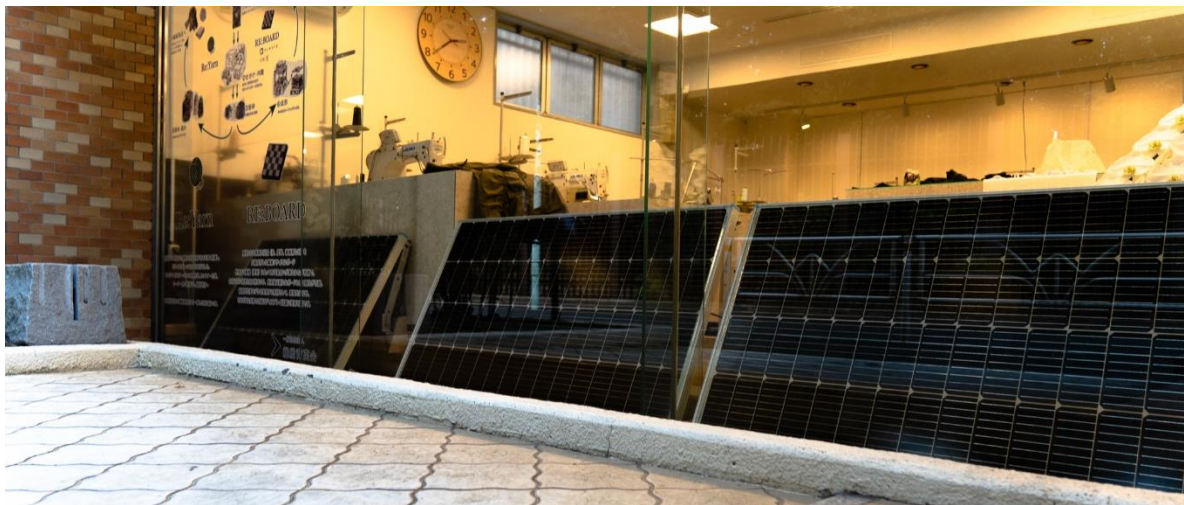


B.O.R (Bord Of Recycle) used in Atsu-Labo

B.O.R Board Of Recycle, a board made of fiber, is used on the floor, some walls, sewing machines, desks and shelves in the Atsu-Labo



Some of sewing machines are powered by solar electricity.



Individual live viewing of WHOLEGARMENT production

You can see how the wholegarment operating via live viewing from anywhere in the world.



Access



5 minutes walk from Yoyogi Station
8 minutes walk from Sendagaya Station

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