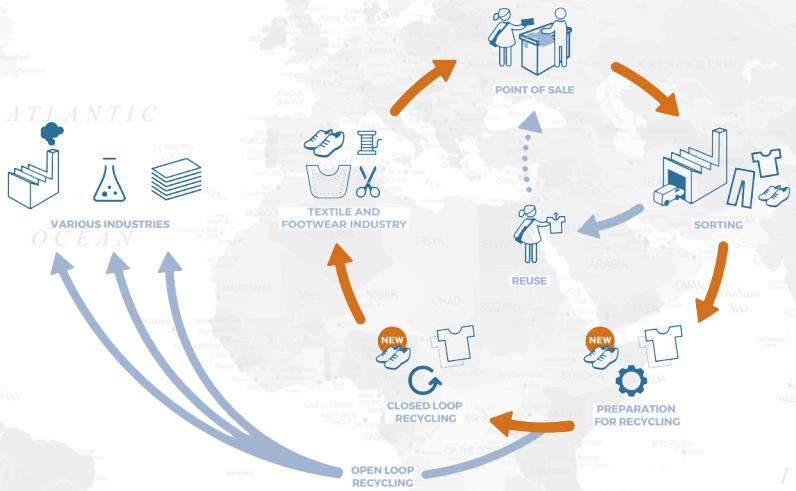
Textile Recycle Factory

what is textile recycle factory?

Textile recycling is the process of recovering fibers and reprocessing the material into new and useful products. Cloth waste is divided into pre-waste, use and after use. Almost 100%. of fabric is recyclable



What is the purpose of textile recycling?

- **Reduce the need for raw materials, such as cloth, wool and polyester**
- **Conservation of water, energy and chemicals used in textile production**
- **Reduce the amount of waste sent to landfills and incinerators**
- **Reducing the emission of harmful pollutants into the environment**

Types of recycling in the textile industry

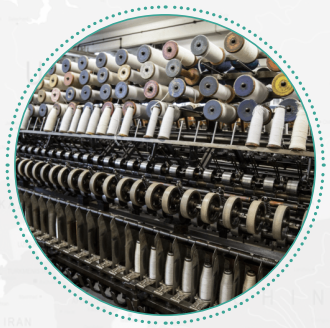
Chemical process

2.It is a newer type of fabric recycling that uses chemicals to break fibers into molycula. These materials are then used to create new fibers or oth- er materials.

Chemical process product

- fuel
- Plastic
- Solvent
- Lubricant

Mechanical process



1.This is the most common type of recycling. In this process, the cloth is torn apart while the bitters are still preserved. These fibers can be recycled to create new fabrics.

Mechanical process product

New clothes .
Rayakh
Azal
Mobility cover
Towels
1000000000000
P.S.A.

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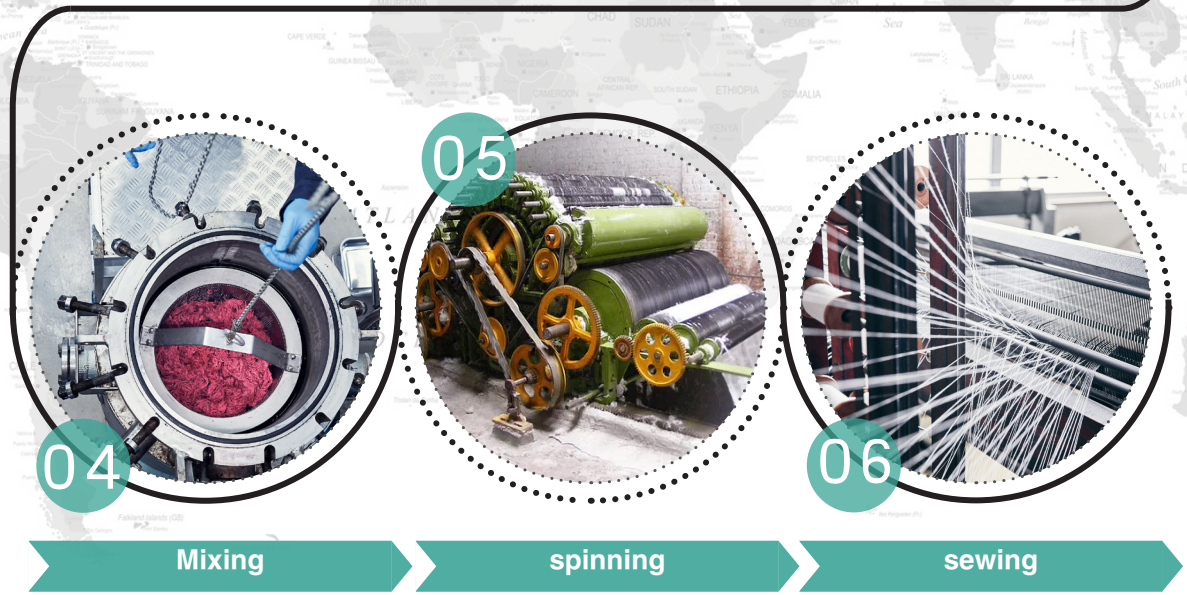
1. The mechanical process of re_use of fabric



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2.The (chemical) process of recycling fabrics

1.Thermal decomposition
(Thermolysis)

2.Solvent extraction
(Solvent extraction)

3. Water decomposition
(Hydrolysis)

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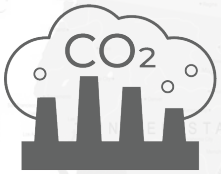
The importance of recycling textiles

14,000 **kWh of power**



Prevents emissions of up to 3.6 **tonnes of carbon dioxide**

Prevents the release of up to 1,700 **pounds of contaminants into the environment**

For every 1 **ton of fabric that a business reuses, what can it save ?**

7,600 **gallons water**

Creating more jobs

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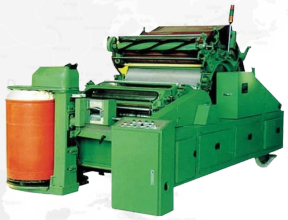
Equipment required for textile recycling

3.Combing equipment

Price: $35,0
Width: 3 m
Height: 4 m
Depth: 2 m



2. washing machine

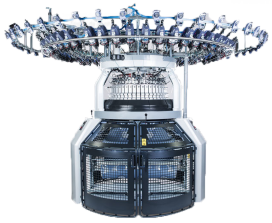
Price: $30,0
Width: 2 m
Height: 1.5 m
Depth: 1.5 m

3.shredding machines

Price: $6,5
Width: 0.6–1.2 m
Height: 0.9–1.5 m
Depth: 0.6–1.2 m

4. Sewing Machine

Price: $100,0
Width: 3 m
Height: 4 m
Depth: 2 m



5. Spinning machines

Price: $40,0
Width: 4 m
Height: 5 m
Depth: 3 m

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