AUTOMATIC GARMENT & CLIPPING SORTING

ECOCLIP

Precision Categorization for Enhanced Textile and Fashion Circularity

PICVISA

We can sort it out.

ECO**CLIP**

The real revolution of the textile industry

We make textile and fashion circularity possible granting proper and accurate clippings automatic sorting in textile recycling centers worldwide.

- Sorting of textile based on fiber compositions and colors
- Quality control of pre-sorted fractions
- Hard points detection and automatic sorting
- Metal detection
- 100% surface analysis
- clipping textile size starting from 25mm
- 2.5 tons/hour

Operation scheme:
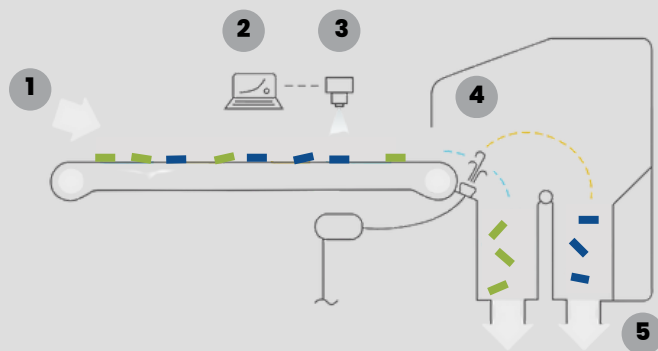
The materials are deposited on the feeder conveyor [1], when passing through the lightning area the materials reflect the light [3] and one or more cameras capture the spectra and/or images [3]. Once the software and hardware of the processing phase [2] determine that an object at the precise moment it passes over the ejection nozzles are activated [4]. The target product [5] is separated from the main flow.

Fiber sorting

Surface detection of pure fibers and blends of fibers

Color sorting

Wide color chart detection including different shades of each color and dark colors (royal navy, black etc)
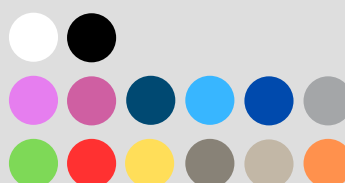

Hard points sorting

Detection of clippings with buttons, zippers , seams and metal pieces

Composition		Colors	Hard Points	
Cotton	Polyamide		Trims	Metal Pieces
Cotton-Polyester	Acetate		Zippers	Bottons
Polyester	Pu		Seams	
Wool	Silk			
Wool - Pa/Po	Others	and more		
Acrylic				
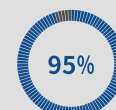
95% **Accuracy on target recognition material**

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Applications and technologies used:

APPLICATION		TECHNOLOGY			
		NIR	VIS	EM	IA
Color sorting	sorting by color		X		X
Fiber sorting	sorting by fiber (or blend of fibers)	X			X
Color & Fiber sorting	sorting by color and fiber combined	X	X		X
Hard points sorting	trims, buttons, zippers, etc. sorting	X	X	X	X
Textile defect sorting	textile defects detection & sorting	X	X		X
Garment Sorting	whole pieces sorting	X	X		X
Combination of the above application		X	X	X	X

General figures:
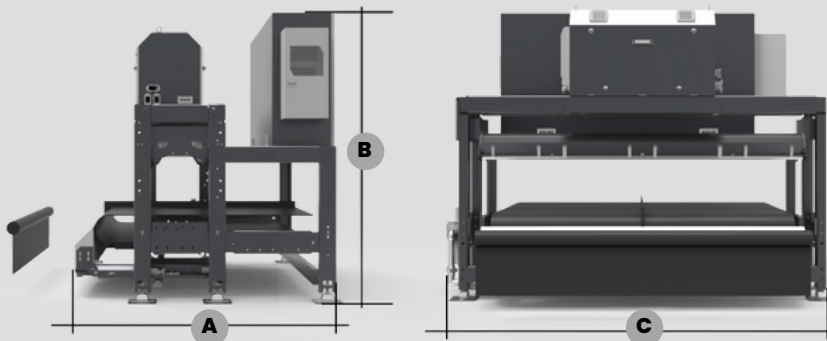
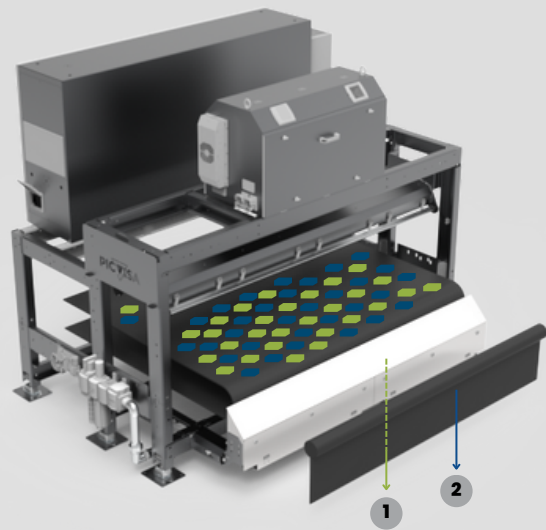| Data Sheet	
EP 2000	*
Width	2.000 mm
A	1.923 mm
B	2.110 mm
C	2.660 mm
Air Consumption	4.000/8.000 lpm

* Other sizes available

Available configuration:
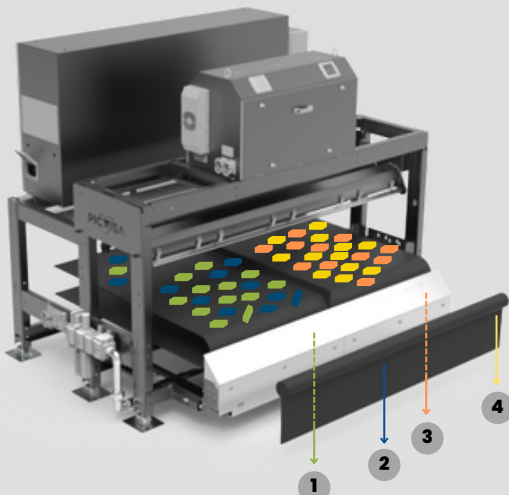
Fiber &/or Color sorting

Color sorting

Throughput ~2,5 tn/h

2-5 Outputs

NIR / VIS

Hard points sorting

Hard points sorting

Throughput ~2,5 tn/h

2 Outputs

NIR / VIS / AI / EM

Design and manufacture of sensor-based sorting equipment incorporating vision and artificial intelligence technologies.

On-site and remote technical support

Spare parts

Training

Equipment and software updates / upgrades

Second-hand equipment

Renting / leasing service

PICVISA Test Center

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