

A large number of clear plastic bottles with blue caps are scattered across the background, creating a dense, textured pattern.

THE NEW GENERATION

ECOPACK

Optical sorting equipment
for a wide range of material sorting

PICVISA

We can sort it out.

www.picvisa.com

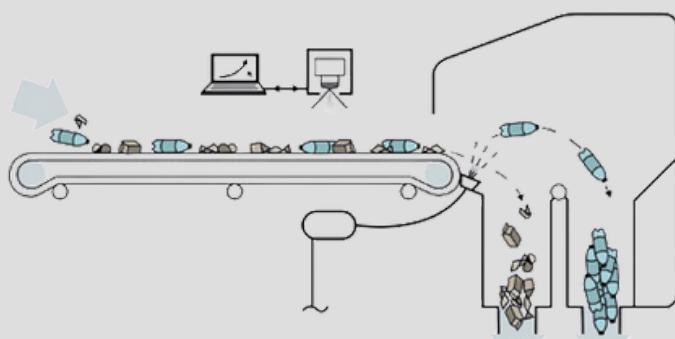


Hyperspectral machine vision technology and fast data processing.

High resolution for:

Machine vision and/or sensor identification.

Ejection separation with compressed air.



- ① Feeding conveyor
- ② Machine-vision camera and sensors
- ③ Separation with compressed air
- ④ Separation chamber

Sorting of:

Plastic packaging



Plastic film (PEBD, PP,...)



PET/PE recycling



Wood recycling



Textile



Construction and Demolition waste (C&D)



Paper & Cardboard (P&C)



Metal recycling



Refuse-Derived Fuel (RDF)



Other applications



Wide variety of equipment configurations depending on separation objectives and materials to be processed

| APPLICATIONS | Technologies | | | | |
|---|--|-----|----|----|---|
| | NIR | VIS | EM | AI | |
| Plastic packaging | Polymer separation (PET, HDPE, HDPE, PP, PS, PVC, EPS, ABS) and beverage cartons | X | X | | X |
| PET/PE recycling | Colour sorting | X | X | | X |
| Plastic film (PEBD, PP,...) | Sorting by material type & color | X | X | | X |
| Paper & Cardboard (P&C) | P&C recovery from a mixed stream | X | X | | X |
| Refuse-Derived Fuel (RDF) | PVC and other impurities removal | X | | | |
| Construction and Demolition waste (C&D) | Recovery of wood and polymers | X | X | X | X |
| Wood recycling | Removal of impurities (polymers, P&C) | X | | X | X |
| Metal recycling | Removal of impurities & sorting by color | X | X | X | X |
| Textile | Sorting by composition &/or color, removal of empurities | X | X | | X |

(*)Technologies applied individually or in combination: NIR = Near-Infrared spectrometry ; VIS = Visual light and colours ; EM = Electromagnetic sensors / induction; AI = Artificial intelligence.

For other applications please get in contact at info@picvisa.com

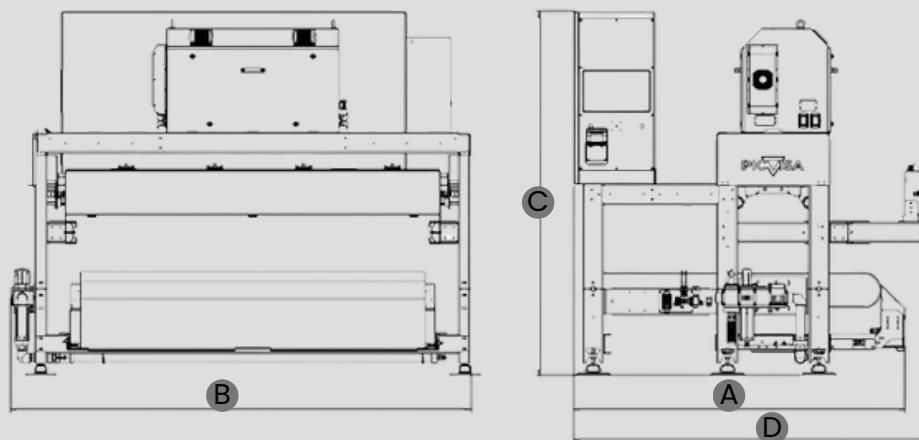
Features of ECOPACK include:

| | | | | |
|---|--|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ |
| Brain "add on": artificial intelligence based on deep learning algorithms | High production capacity and availability under demanding industrial conditions. | High recovery (efficiency) and purity rates of targeted materials. | Versatility and flexibility when separating different materials with the same optical sorter. | Computer-aided calibration for high reliability and production stability. |
| Easy maintenance and standard off the shelf parts | Direct online customer support service with remote connection. | Real-time access to sorted material statistics (dedicated interface, online accessibility). | Testing capacity with Customer materials at PICVISA's own test centre.** | Short payback period. |

(**) PICVISA provides its Customers, in Calaf (Barcelona, Spain), with 800 sqm test centre, fully equipped with mechanical and machine vision means, for a wide range of material sorting.

Industry 5.0:

Computer-aided calibration and control. Local and remote connectivity.



Aprox dimensions and total weight of equipment

| Optical sorter | Width | A | B | C | D | Approx. weight |
|----------------|----------|----------|----------|----------|----------|----------------|
| EP 1000 | 1.000 mm | 1.923 mm | 1.660 mm | 2.110 mm | 2.055 mm | 1.000 Kg |
| EP 1500 | 1.500 mm | 1.923 mm | 2.175 mm | 2.110 mm | 2.055 mm | 1.080 Kg |
| EP 2000 | 2.000 mm | 1.923 mm | 2.660 mm | 2.110 mm | 2.055 mm | 1.166 Kg |
| EP 2500 | 2.500 mm | 1.923 mm | 3.175 mm | 2.380 mm | 2.055 mm | 1.260 Kg |
| EP 3000 | 3.000 mm | 1.923 mm | 3.660 mm | 2.540 mm | 2.055mm | 1.360 Kg |

High-resolution valve-block for pneumatic ejection

| Table of possible valve-block solutions | | |
|---|---------------|--------------------------------|
| Valve-block resolution | Air jet pitch | Electro-valves / Air jets |
| Low Resolution - 1:2 | 16.7 mm | 1 electro-valve for 2 air jets |
| High resolution - 1:1 | 8.3 mm | 1 electro-valve for 1 air jet |

Options

One or more NIR, VIS machine vision cameras or artificial intelligence.

High-resolution camera for small-sized elements.

Inductive sensors for metals.

High or very high blowing resolution valve-block.

Multi-channel: double or triple-track for simultaneous sorting of two or three material streams on a same optical sorter.

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



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Test Center

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