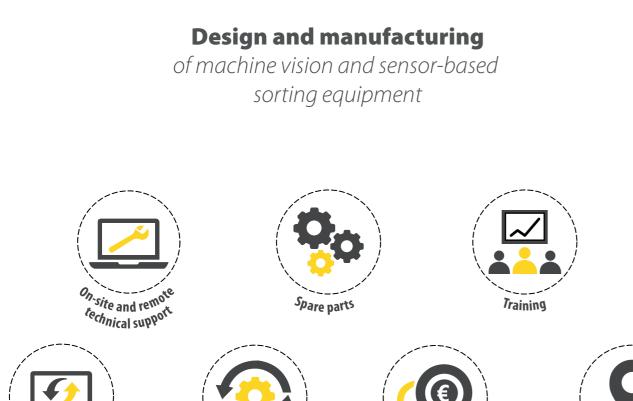
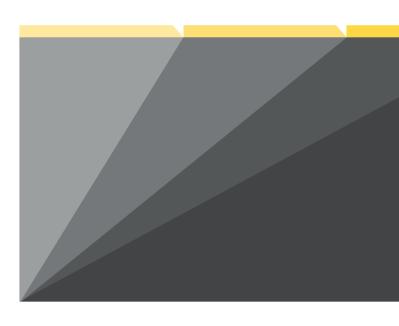
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CVISA Test Centr

C/lsaac Newton, 2 - 08280 Calaf Barcelona, Spain Tel. +34 93 801 76 10 info@picvisa .com www.picvisa.com



Versatility, speed and precision when identifying and separating materials according to their chemical composition, shapes and colours.





ECOPACK

Wide spectrum machine-vision.

Industry 4.0: self-monitoring and connectivity, data management and computer control.





Hyperspectral machine vision technology

and fast data processing.

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

High resolution for:

- Machine vision and/or sensor identification
- Ejection separation with compressed air.

(4) (1)3

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

Applications and materials		Technologies*		
Applications and materials			VIS	EM
Plastic packaging	Polymer separation (PET, HDPE, HDPE, PP, PS, PVC, EPS, ABS) and beverage cartons	\checkmark	\checkmark	
PET/PE recycling	Colour sorting	\checkmark		
Plastic film (PEBD, PP,)	Sorting by material type	\checkmark		
Paper & Cardboard (P&C)	P&C recovery from a mixed stream and sorting of cartons and boxes	\checkmark	\checkmark	
Refuse-Derived Fuel (RDF)	PVC and other impurities removal	\checkmark		
Construction and Demolition waste (C&D)	Recovery of wood and polymers	\checkmark		\checkmark
Wood recycling	Removal of impurities (polymers, P&C)	\checkmark		√
Metal recycling	Removal of impurities	\checkmark	\checkmark	\checkmark
Other applications	Please check with PICVISA	\checkmark	\checkmark	√

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

- High production capacity and availability under demanding industrial conditions.
- High recovery (efficiency) and purity rates of targeted materials.
- Short payback period.
- Versatility and flexibility when separating different materials with the same optical sorter. Easy programming and reprogramming.
- Computer-aided calibration for high reliability and production stability.
- Easy maintenance and cheap spare 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.**

(**) 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.

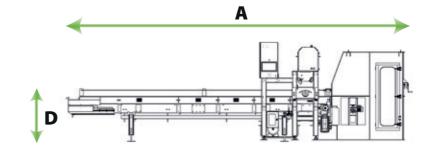


Industry 4.0:

Computer-aided calibration and control.

Local and remote connectivity.

Main features of the optical sorters



Dimensions and total weight of equipment						
Optical sorter	Width	А	В	с	D	Approx. weight
EP 1000	1 000 mm	7 530 mm	1 297 mm	2 458 mm	1 248 mm	2 650 Kg
EP 1500	1 500 mm	7 530 mm	1 797 mm	2 458 mm	1 248 mm	3 300 Kg
EP 2000	2 000 mm	7 530 mm	2 297 mm	2 458 mm	1 248 mm	3 900 Kg
EP 2500	2 500 mm	7 530 mm	2 797 mm	2 458 mm	1 248 mm	4 500 Kg
EP 3000	3 000 mm	7 530 mm	3 297 mm	2 458 mm	1 248 mm	5 100 Kg

High-resolution *valve-block* for pneumatic ejection

Table of possible valve-block solutions				
Valve-block resolution	Air jet pitch	Electro-valves / Air jets		
Standard - STD 1:2	15.6 mm	1 electro-valve for 2 air jets		
High resolution - HR 1:1	15.6 mm	1 electro-valve for 1 air jet		
High resolution - HR 1:2	7.8 mm	1 electro-valve for 2 air jets		
Very high resolution - VHR 1:1	7.8 mm	1 electro-valve for 1 air jet		

Air pressure : 6 to 8 bars

Compressed air consumption and power for the solution of a Standard STD valve-block

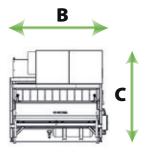
Optical sorter	Amount of air jets	Air jet pitch	Approx. airconsumption (STD case)	Power ⁽¹⁾	Power ⁽²⁾
EP1000	64	15.6 mm	1 000 lpm	2.65 kW	4.65 kW
EP1500	96	15.6 mm	1 500 lpm	3.45 kW	6.45 kW
EP2000	128	15.6 mm	2 000 lpm	4.25 kW	8.25 kW
EP2500	160	15.6 mm	2 500 lpm	5.05 kW	10.05 kW
EP3000	192	15.6 mm	3 000 lpm	5.85 kW	10.85 kW

⁽¹⁾ Power without feeding conveyor; ⁽²⁾ Power with feeding conveyor. Power supply 230 V - 50 Hz single-phase.

Options

- One or more NIR and/or VIS machine vision cameras.
- High-resolution camera for small-sized elements.
- Inductive sensors for metals.
- High or very high blowing resolution valve-block.
- (up to 9 sorting operations) on a same optical sorter.
- Different levels of ingress protection of control boards.

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Multi-channel: double or triple-track for simultaneous sorting of two or three material streams



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