



TITECH autosort4



PRODUCT DETAILS

english



A global leader in sensor-based sorting



- 2 Spectrometer scanner
- 3 Separation chamber

TITECH autosort4

The TITECH autosort 4 is a multifunctional sorting system to recover a wide range of pieces of material from different waste streams, single stream, packaging, paper, household waste and other sorting tasks looking for enhanced material information and color in combination.

TECHNOLOGY

Continued improvements to the TITECH autosort 4 with FLYING BEAM® technology makes for a significant simplification of the system as a whole. This way the TITECH autosort 4 sorts extremely reliable and can be maintained very easily. High speed, high precision NIR sensors take in the specific infrared spectra of various objects with a very high optical resolution. Innovative FLYING BEAM® lighting technology focuses only on the area of the conveyor belt that is being scanned. The result: Up to 70 % energy savings. In addition the TITECH autosort 4 technology covers a broader temperature range. Passive cooling replaces active cooling equipment for temperatures of up to 50°C.

- Energy savings of up to 70% with FLYING BEAM[®]
- Real time calibration even more stable sorting
- less components simplified cleaning
- expanded temperature range (5–50°C)

See launch flyer for more information. Resolution // In order to sort different material grain sizes, our machines are available in a number of resolution stages. The highest resolution is approx. 2.5 mm.

Alongside its superior sorting quality, the TITECH autosort 4 provides a full range of features, including the statistical determination of the input material, real time calibration of each scan line, built-in control functions of the lamp and valve units and the option of controlling and monitoring the sorting unit from a control room.

BENEFITS

- Extremely reliable
- Stable and precise sorting performance regarding purity and throughput

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- Low operating costs (energy and maintenance)
- Switchable between a wide range of sorting tasks
- Easily adaptable to your process
- Emergency service hotline



FLYING BEAM[®] technology increases reliability and saves energy.

EXAMPLE // SORTING PAPER

Large quantities of waste paper are recycled to manufacture high quality paper. The material often contains large proportions of brown and grey cardboard packaging, pigmented paper or plastics. These foreign particles and impurities impair the production process or diminish the quality of the final product, but are difficult to separate from the rest of the waste paper.

TITECH autosort 4 is capable of reliably detecting and eliminating these foreign particles without having to make contact with them. With its unique combination of NIR and VIS sensors, it facilitates extraction from a mixture of newspapers and printed magazines – a so-called deinking fraction – which is extensively free of impurities.



TITECH offers a variety of configurations for different sorting tasks and conditions. You are welcome to check your individual material in our test facility. E-mail: info@titech.com

SENSOR CONFIGURATIONS

- A // Our advanced near infrared (NIR) spectrometry sensor recognizes materials based on their specific and unique spectral properties – NIR1
- B // A second NIR sensor delivers additional spectral information and thus offers a broader spectrum – NIR1-NIR2
- **C** // The combination of a NIR sensor and a visual (VIS) spectrometry sensor delivers information for sorting materials by type and color **NIR1-VIS**
- D // The most flexible model collects information by means of two NIR and one VIS sensors for additional and special applications NIR1-NIR2-VIS

SELECTION OF STANDARD APPLICATION PACKAGES			в	С	D	
POLYMER sorting	Sorting of e.g. beverage cartons, PE, PP, PS, PVC, PET, EPS, ABS by type of material	•	•	•	•	
MIXED PAPER removal	Removing paper from a mixed input stream	•	•	•	•	
RDF	Producing an RDF fraction, with additional stone/timber distinction		•		•	
C&D sorting	Organic/non-organic sorting		•		•	
PET/PE sorting	Sorting of PET/PE by color, e.g. light blue, clear,			•	•	
WOOD cleaning	Producing a clean timber/chipboard fraction by removing painted and coated wood			•	•	
PAPER PLUS	Producing a clean deinking fraction			•	•	
METAL removal	Removing all metals	Option: electromagnetic (EM) sensor				
MULTI FUNCTIONAL	Up to FIVE packages in ONE	• •		•	•	
SPECIAL APPLICATION	On request	•	•	•	•	

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MODE<u>LS</u>



Installation example

TITECH autosort 4



	autosort 4 600	autosort 4 1000 H	autosort 4 1400 H	autosort 4 2000 H	autosort 4 2800 H
A //	600 mm	1,000 mm	1,400 mm	2,000 mm	2,800 mm
B //	1,400 mm	1,800 mm	2,200 mm	2,800 mm	3,600 mm
C //	4,000 mm	4,000 mm	4,000 mm	4,000 mm	4,000 mm
D //	6,400 mm	6,400 mm	6,400 mm	6,400 mm	6,400 mm
E1 //	1,980 mm	2,280 mm	2,880 mm	2,280 mm	2,880 mm
E2 //	2,400 mm	2,400 mm	2,400 mm	2,400 mm	2,400 mm

exact dimensions on request

Valve block model, nozzle distance	autosort4	autosort4	autosort 4	autosort 4	autosort 4
	600	1000	1400	2000	2800
TS200 37.5 mm (standard)	16 valves	27 valves	38 valves	54 valves	74 valves
TS200 25 mm	24 valves	40 valves	56 valves	80 valves	112 valves
TS200 12.5 mm	48 valves	80 valves	112 valves	160 valves	224 valves
TS400 37.5 mm	16 valves	27 valves	38 valves	54 valves	74 valves
TS400 25 mm	24 valves	40 valves	56 valves	80 valves	112 valves
TS400 12.5 mm	48 valves	80 valves	112 valves	160 valves	224 valves
Weight*	135 kg	180 kg	190 kg	235 kg	305 kg
Power consumption*	1.3 kW	1.5 kW	1.6 kW	1.7 kW	1.9 kW

This information is applicable for the standard valve block without conveyor belt and separation chamber and may vary depending on configuration and design.

OPTIONS

VBPS included

(Valve Block Positioning System) Tilt the valve block away from the conveyor belt to make cleaning and maintaining easier

EM-Sensor A metal sensor allows metal pollutants to be cleaned off

Valve Block Upgrade Choose the valve block which fits best to your application

Satellite

One operating panel for the control of two detection units

Double Track Parallel sorting of two tasks with one detection unit

Remote access Safe network connection for quick and easy service reaction

PRODUCT RANGE

TITECH autosort Mixed packaging waste, RDF, Sorting paper, PET/PE recycling

TITECH finder Metal recovery and removal of impure metal

TITECH combisense E-scrap recycling, nonferrous metal processing, cable recycling

TITECH x-tract Automobile recycling, CRT glass, industrial/domestic waste, RDF production

Innovation in Global Recycling

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