



DEEP LEARNING BOTTLE SORTER TORONG™ LP SERIES

Deep Learning Bottle Sorter ToronG™ LP Series uses neural network technology to analyze, learn, and optimize sorting processes in real time—ensuring accurate, high-speed separation for a wide range of plastic bottles in complex recycling environments.

APPLICATIONS

Deep Learning Bottle Sorter ToronG-LP Series

Main Applications

Designed to sort plastic beverage bottles and household chemical containers by color, material, shape, and aging. Suitable for washed or unwashed, labeled or unlabeled round bottles, mixed plastic bottles in bale form, loose bottles, and bottles of various shapes.

Optimized for separating light-colored PET bottles such as light blue, light green, light white, and others.

Supports sorting of non-PET bottle materials, including PP, PE, PC, PS, ABS, PVC, PA, and more.

Detects and removes non-PE bottles with high precision.

Flexible Configuration

Deep Learning Technology + Visible Light Sorting Technology **(Color sorting of plastic bottles)**

Deep Learning Technology + Infrared Technology **(Material sorting of plastic bottles)**

Deep Learning + Visible Light + Infrared Technology (**Color & material sorting of bottles**)

Deep Learning Technology + Dual Vision Ultraviolet Technology (**Separation of aged plastic bottles**)

FEATURES

AI Self-Learning Technology

The ToronG™ LP utilizes deep learning to simulate the neural network of the human brain—automatically capturing large volumes of material characteristics, analyzing and learning from them, and optimizing algorithms to tackle increasingly complex sorting and recycling challenges.

Dome-shaped Uniform Light Scanning

The dot matrix scanning principle delivers more uniform and stable light distribution, making it suitable for complex working conditions. Ensures high sorting purity and consistent performance.

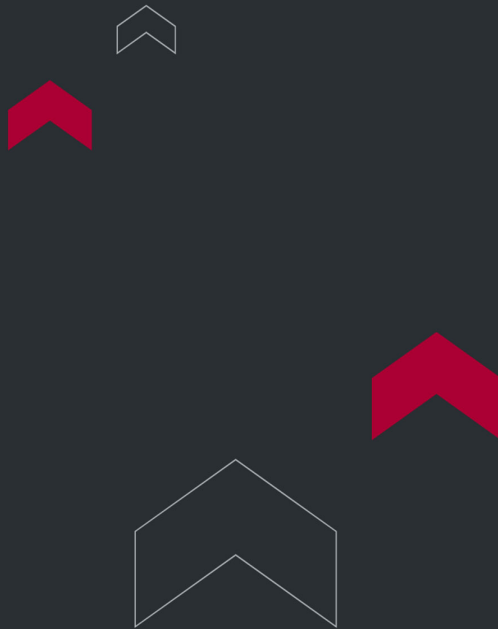
High Accuracy

High-speed sensors, advanced chips, and a “missile guidance” system ensure sorting accuracy rates as high as 99%.

TECHNICAL SPECIFICATIONS

Model	ToronG™ LP2	ToronG™ LPI2	ToronG™ LP4	ToronG™ LPI4	ToronG™ LP6	ToronG™ LPI6
Accuracy (%)	>99%	>99%	>99%	>99%	>99%	>99%
Throughput (T/H)	1.5-2.0	1.5-2.0	4.5-6	4.5-6	5.5-7	5.5-7
Air Consumption (m³/min)	<3.5	<3.5	<6.5	<6.5	<9	<9
Power (kW)	7	10	7.5	14	12	19.5
Voltage/Frequency	AC380V/50HZ					
Air Pressure (MPa)	0.6~0.8	0.6~0.8	0.6~0.8	0.6~0.8	0.6~0.8	0.6~0.8
Weight (kg)	3400	3400	4600	4600	5600	5600
Dimension (mm) (L x W x H)	7360 x 1870 x 2660	7360 x 1870 x 2660	7360 x 2770 x 2550	7360 x 2770 x 2550	7330 x 3570 x 2550	7330 x 3570 x 2550

Note: Parameters listed are for reference only and may vary depending on the application and feed conditions.



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