
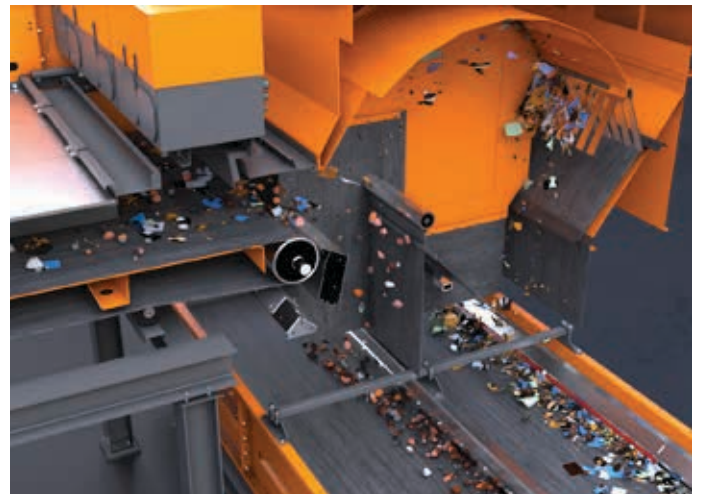




Lubo Opti-Sort

 The Lubo Opti-Sort is an integrated optical sorting unit with a patented design, especially suitable for processing lightweight materials such as flexible plastic packaging or single sheets of paper, but is also capable of the toughest tasks. Part of the Lubo Opti-Sort is the Lubo OSH (Optical Sorting Hood).

Some keywords distinguishing both the Lubo Opti-Sort and the Lubo OSH are modularity, efficiency, ease of maintenance, high level of automation, and flexibility to adjust settings.



 **Opti-Sort**



FUNCTIONAL DESCRIPTION

- ∞ The Lubo Opti-Sort is a solution that combines the synergic effects of the integrated speed-up conveyor with the newly patented ejection hood (OSH) that is based on a curved design, eliminating back pressure and smoothly guiding the materials by using air flows along the outline of the wall. This is key for maximizing the separation and recovery of lightweight packaging, such as plastic foils and paper sheet.
- ∞ Material is fed onto the speed-up conveyor which passes the material under a scanner and then shoots out the entered material through an air nozzle bar into the ejection hood over a rotating splitter-drum.
- ∞ Controlling the trajectory of those types of materials inside the ejection hood remains a challenge for the industry. The Lubo Opti-Sort is the perfect solution allowing precise material handling at a high-speed of up to 6,5 m/s with use of the AeroBooster option (speed depending on the maximum speed of the selected scanner).
- ∞ The following options are (among others) available:
 - AeroBooster (integrative as separate module);
 - Balanced drums;
 - Multitrack (up to 3 tracks);
 - Speed-up belt up to a length of 10 meters;
 - Maintenance platform scanners;
 - Maintenance platform in hood;
 - Disc spreader;
 - Metal detection;
 - Ejection valves Bottom/bottom vs Top/bottom;
 - Dual splitter drum (3 fractions, dual valve);
 - Scanner lift for easy maintenance (only applicable with a low mounted scanner);
 - Suction hood containers and plastics (film suction);
 - Suction hood paper and plastics (film suction).



THE ADVANTAGES

∞ **Minimized installation time**

The Lubo Opti-Sort is one integrated unit that can be delivered, assembled and commissioned in one go, allowing to minimize your installation time and guaranteeing a maximized performance of your optical unit.

∞ **Increased recovery rate**

Building on years of experience from previous designs, the newly patented ejection hood uses a curved design allowing perfect control of the trajectory of lightweight materials. As an example, this plays an indispensable role in the increase of the recovery rate of flexible plastic packaging from contaminated paper streams by 2%, improving the purity of the paper from de-inking installations. Optional integration of AeroBooster on a high-speed conveyor allows unique separation performance.

∞ **Tailor-made**

Flexibility and modularity have been put central in this design, allowing to fit universal brands of scanners and related options into the Lubo Opti-Sort, but also giving choice on the configuration of the ejection valves (Top/Bottom vs Bottom/Bottom), based on specific customer conditions and requirements.

∞ **Easy maintenance**

Thanks to the multiple cleaning hatches implemented into the design, maintenance of the Lubo Opti-Sort is very easy.

TECHNICAL SPECIFICATIONS

OPTI-SORT	
Width	1000 / 1400 / 1600 / 2000 / 2400 / 2800 mm
Height	1850 mm
Length	Belt length + 3050 mm
Weight (with 6 m conveyor)	4100 / 4600 / 5000 / 5740 / 6200 / 6980 kg. approx.
Protection	IP65
FEED CONVEYOR	
Belt speed conveyor	2.5 to 6.5 m/sec (depending on configuration)
Speed control	Frequency regulator
Motor capacity	7.5 kW (11 kW) (depending on configuration)
Belt type	Oil and grease-resistant rubber – Type EP400/3; 5.8 mm Oil and grease-resistant rubber – Type EP400/3; 7.8 mm PVC/PU 4.8 mm
LAMINAR AIR FLOW UNIT (AEROBOOSTER)	
Motor capacity	2* / 3* / 4* / 5* / 6* / 7* 1.18 kW
OSH	
Width (other widths upon request)	Belt width + 555 mm
Height	1850 mm
Length	2500 mm
Weight	1250 / 1350 / 1500 / 1690 kg. approx.
Motor capacity	0.18 kW
Protection	IP65



CREATING A WORLD OF DIFFERENCE