

## Lubo Anti-Wrapping StarScreen (AWS)



The Lubo Anti-Wrapping StarScreen (AWS) is a uniquely designed equipment for material screening. The patented technology has been developed in-house at the Bollegraaf Group in the Netherlands.

Some keywords distinguishing the Lubo AWS design are modularity, efficiency, ease of maintenance, high level of automation, and flexibility to adjust settings. The uniqueness of the Lubo AWS relates to its reduced chance of winding materials.

The Lubo AWS is available in three models, AWS 330, AWS 550, and AWS 880. Thanks to the variety of configurations, the Lubo AWS is a suitable solution for many applications.



## FUNCTIONAL DESCRIPTION

- ∞ The 330, 550 and 880 Lubo AWS are developed to separate fraction sizes in windable material flow. Input material from Municipal Solid Waste contains for instance a lot of long plastics, ropes, textiles, etc. By using spacers with a larger diameter, winding is reduced to a minimum.
- ∞ The general working principle of the Lubo AWS is using the difference in size and rigidity of the material, in which case, the oversized fraction is pulled over the screen by the rotating stars and the undersized fraction falls between the stars. The aggressive agitation of the Lubo AWS prevents small fractions from sticking to larger ones.
- ∞ The Lubo AWS screening deck consists of various shafts on which rubber or PU stars are mounted, depending on the composition of the input material. The screening size is determined by the diameter of the spacers between the stars, the distance between the stars and the rotation speed of the star shafts. The rotation speed of the star shafts is adjustable by the use of frequency regulators. By changing this speed the screened fraction can be optimized. Each gearmotor has its own frequency regulator which can be adjusted individually.
- ∞ The following options are available:
  - Crane gantry with traveling crab to simplify replacing the star shafts;
  - Reversible rotation of the disc shafts;
  - Maintenance platforms;
  - Top cover;
  - Inside lighting;
  - Central lubrication of the bearings, manual or automatic;
  - Automatic chain lubrication;
  - PU stars or Hardox stars.



## THE ADVANTAGES

### ∞ Easy maintenance

The patented Lubo Quick Disconnect System's design makes quick replacing of star shafts possible, without dismantling bearings, drives, sprockets, and chains.

### ∞ Competitive TCO

Low energy consumption combined with the availability of wear and spare parts (less intervention, less downtime) guarantees a competitive Total Cost of Ownership.

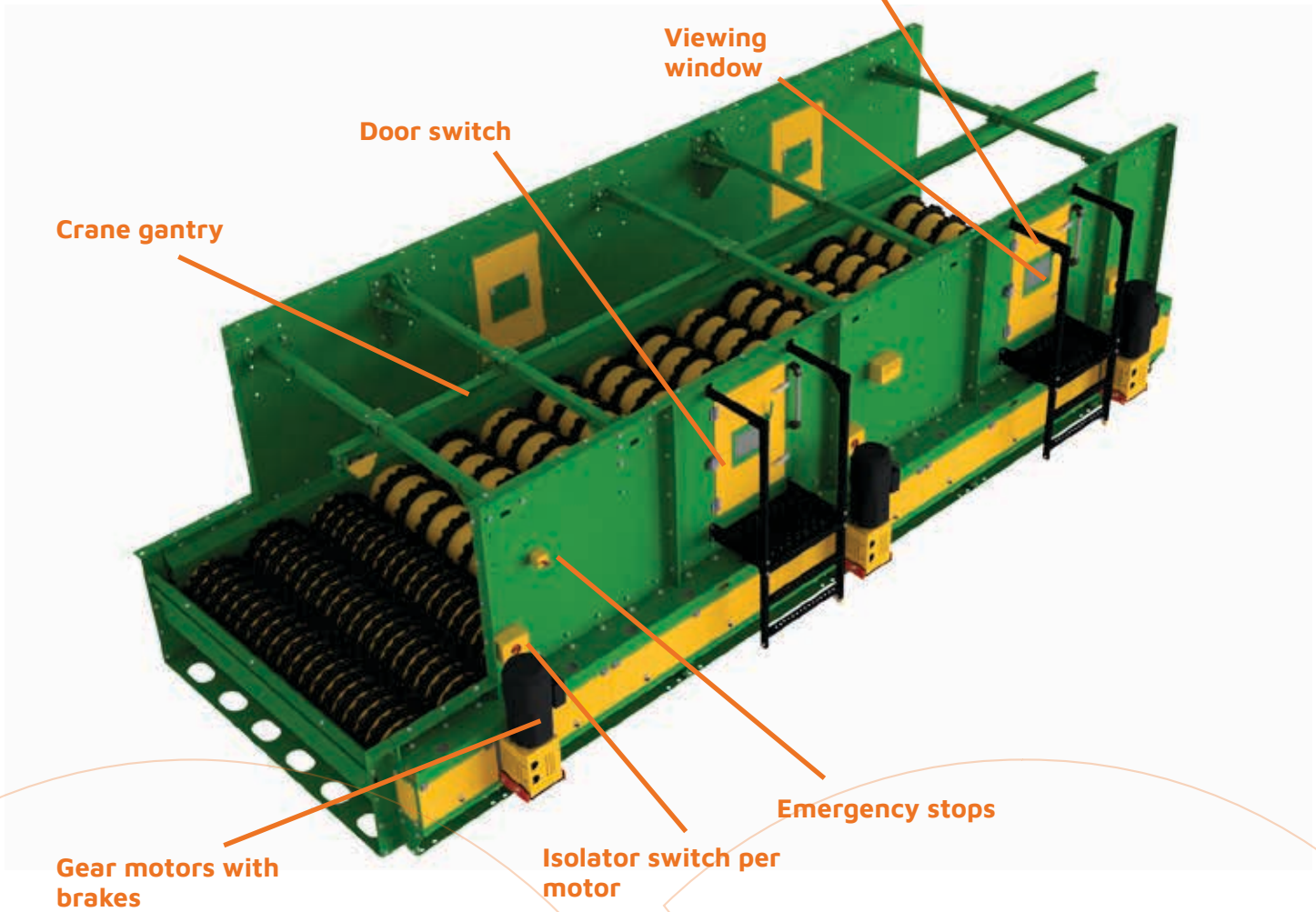
### ∞ Integrated and patented solution

The LUBO AWS has been fully developed in-house and integrates the latest innovations of our R&D team. We possess all the knowledge and capabilities for your technical support to maximize your performance.

### ∞ High-performance numbers

The Lubo AWS has a high throughput. Next to this, aggressive agitation ensures high purity numbers.





## TECHNICAL SPECIFICATIONS

LUBO AWS MODELS		AWS 330	AWS 550	AWS 880
Screened fraction size (mm)		0-30 0-40 0-50 0-90 0-100	0-50 0-75 0-100 0-125 0-150 0-175 0-200	0-200 0-250 0-300
Width (mm) screen deck / total machine		1240 / 2070 1640 / 2470 2040 / 2870 2540 / 3370	1240 / 2070 1640 / 2470 2040 / 2870 2540 / 3370	1640 / 2470 2040 / 2870 2540 / 3370
Length (mm) screen deck / total machine		4500 / 4765 6000 / 6265 7500 / 7765 9000 / 9265	6000 / 6390 7500 / 7890 9000 / 9390 10500 / 10890 12000 / 12390 13500 / 13890	6300 / 6460 8400 / 8560 10500 / 10660 12600 / 12760
Total machine height (mm)		2200	2300	3100
Star diameter (mm)		330	550	880
Drives	lengths / qty	4500, 6000 / 2 7500, 9000 / 3	6000 / 2 7500, 9000 / 3 10500, 12500 / 4 13500 / 5	6300 / 3 8400 / 4 10500 / 5 12600 / 6
	width / kW	1240, 1640 / 5,5 2040, 2540 / 7,5	1240, 1640 / 5,5 2040, 2540 / 7,5	1640, 2040, 2540 / 5,5
Speed control	Frequency regulator			
Side wall thickness (mm)	6			
Degree of protection	IP65			
Lubo Quick Disconnect System	Included			

\* All measurements are approximate

