

# Lubo PaperMagnet



## The new dimension in separating 2D and 3D flows

The Lubo PaperMagnet separates paper, cardboard, film and other 2D material from 3D materials, such as bottles and cans, and achieves recovery rates of up to 98 percent.

The separation principle is simple but effective - the conveyor in the PaperMagnet is positioned at a steep angle, making maximum use of gravity. Furthermore, the conveyor applies a vacuum to the surface. Consequently 2D materials are taken to the top of the conveyor, whilst the heavier 3D materials falls/rolls down. An extremely effective process.

Parameters, such as the speed of the conveyor or the pressure of the airflow (vacuum), can be adjusted to the nature of the infeed. This ensures optimum separation for every type of material composition.

The separation unit will be delivered with the following fittings

- 100% cleaning of the process air by filter units
- A jet cleaning unit is incorporated in the filter installation
- All the air ducting required to install the filter units within a radius of 10 metres from the PaperMagnet

Options as per your request

- For higher purity in a flow with paper > A4 we strongly recommend a ruffler device. The ruffler device cleans up bottles that are trapped under a bigger piece of paper that is caught by the vacuum conveyor

Motor ruffler 1 x 0.55 kW - SEW R37

Motor lifting device approx. 0.5 kW

- For proper cleaning and maintenance, we strongly recommend adding service platforms around the PaperMagnet

#### Note

The Jet cleaning requires a compressed-air connection to the pressure tank of the filter unit. The requirements for this connection, which is not included, are:

- Consumption: approx. 1,000 normal litres per minute
- Pressure: 6.0 bar
- Connection: 1" pipe with shut-off, filter and water separator.
- Air quality: absolutely dust-free and oil-free
- For a proper operation of the PaperMagnet and to avoid excessive wear of the machine, the infeed material flow should not contain abrasive materials such as glass

#### SPECIFICATIONS

PaperMagnet	Type 1200	Type 1600	Type 2000
Capacity *	4 tonnes/hr	5.5 tonnes/hr	7 tonnes/hr
Drive infeed conveyor	4 kW - SEW	4 kW - SEW	4 kW - SEW
Drive Vacuum conveyor	4 kW - SEW	4 kW - SEW	4 kW - SEW
Drive air fans	2 x 7.5 kW	2 x 11 kW	2 x 15 kW, speed variable by frequency control
Pulsjet filter cleaning	2 x 1A power supply	2 x 1A power supply	2 x 1A power supply
Infeed conveyor speed	105-180 m/min, variable by frequency control	105-180 m/min, variable by frequency control	105-180 m/min, variable by frequency control
Vacuum conveyor speed	105-180 m/min, variable by frequency control	105-180 m/min, variable by frequency control	105-180 m/min, variable by frequency control
Vacuum conveyor cleaning	Multiple access doors for cleaning vacuum chamber	Multiple access doors for cleaning vacuum chamber	Multiple access hatch for cleaning vacuum chamber
Degree of protection	IP-65	IP-65	IP-65
Colour	RAL 6024 (Reseda green)	RAL 6024 (Reseda green)	RAL 6024 (Reseda green)

\* With a mix of 80% containers and 20% fibres the capacity depends on the size and the composition of the material infeed.