DischargePro.
THE INNOVATIVE DISCHARGE CONTROL.

CLEAN MELT. THE SMART WAY.

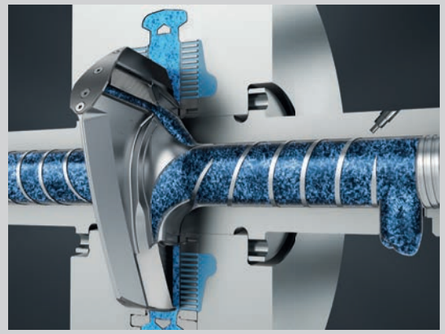
DischargePro. The new, particularly sophisticated control system of the EREMA Laserfilter gets more out of it for you. Continuously! Greater efficiency, more stable processes and increased operating convenience with reduced time and labour costs. Another plus: depending on the application and contamination, the new control system reduces melt loss during filtration by up to 50 %*) – for more recycled pellets and efficiency.

INNOVATION

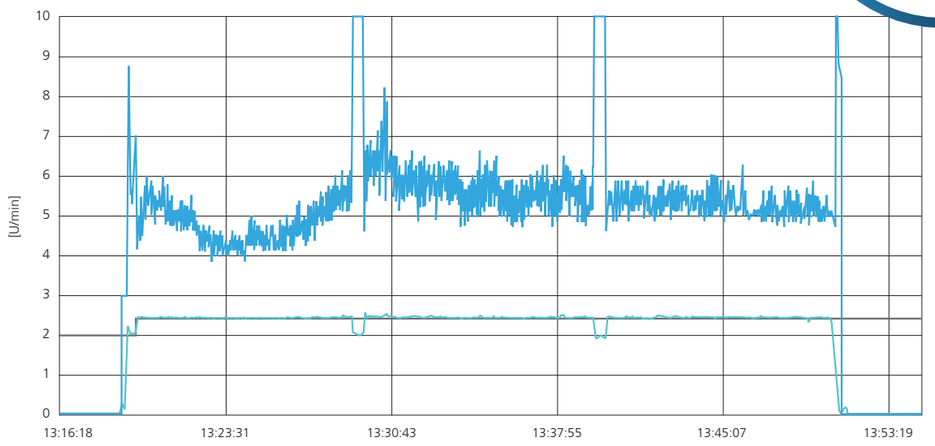
CONSISTENT THICKENING, CONSTANT PROCESS.

The new discharge control system reacts to fluctuations in contamination in the input material by constantly adjusting the rotation speed of the filter scraper disc and discharge screw as required. This smart innovation ensures consistent thickening during melt filtration - an important parameter for a constant and economical process.

*) compared to the previous EREMA Laserfilter control system, depending on application, material, degree and type of contamination, etc.



Trend curve Laserfilter control

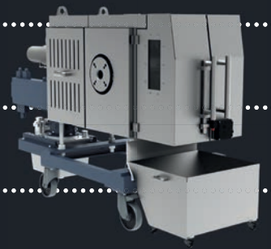


DischargePro Control.
Smart advantages:

- **EASIER OPERATION, MORE AUTOMATION:** significantly less adjustment and testing work for operators
- **COST SAVING:** less time and labour required, longer screen life
- **HIGHER PROCESS CONSISTENCY AND FILTRATION QUALITY:** control system recognises contamination fluctuations in the input material and compensates for these by adjusting the rotation speed as required – for constant thickening during melt filtration
- **OPTIMUM THICKENING RATIO** for a high proportion of filtered contaminants (paper, wood, aluminium, etc.) and low proportion of melt in the filter discharge
- **UP TO 50 % LOWER MELT LOSS*)** during filtration means more recycled pellets at the end of the process and therefore an additional economic advantage
- **MORE COST EFFECTIVENESS, MORE PRODUCTIVITY**

THE LASERFILTER – IN A CLASS OF ITS OWN IN EVERY RESPECT.

The diagram shows the superiority of the Laserfilter compared to other filter systems available on the market with regard to the two main parameters of process consistency (pressure constant) and filtration capacity (level of contamination of the melt).



PROCESS CONSISTENCY

HIGH

CONSTANT PRESSURE

HIGH PRESSURE FLUCTUATIONS

LOW

EREMA LASERFILTER

EREMA LASERFILTER 100 %

continuous ribbon filter

screen disc

screen disc with backflush

EREMA SW 12 RTF

separator heads

EREMA SW 8 RTF

EREMA SW 4 RTF

dual piston screen changer

EREMA SW 2 RTF

50 %

manual filter

dual piston screen changer with backflush

slide plate screen changer

single piston screen changer

discontinuous ribbon filter

VIRGIN/NEW MATERIAL

POST CONSUMER

LOW

DEGREE OF CONTAMINATION OF FILTERED MELT

HIGH

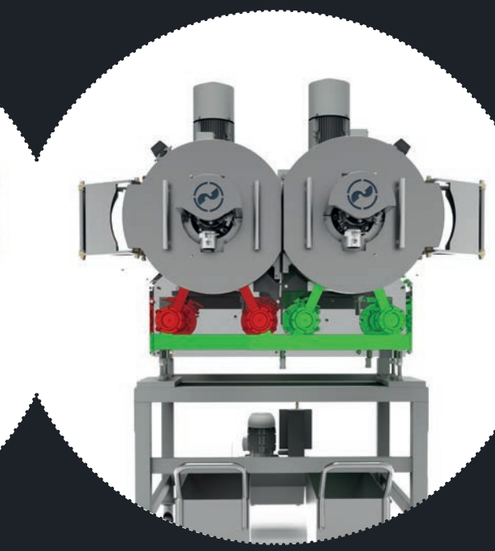
LOCK & CHANGE: FILTER CHANGE WITHOUT STOPPING MACHINE.

With the shut-off slider option (available starting with the TWIN model) the machine continues to produce when one of the screens has to be changed. Thanks to the shut-off slider, the melt flow is stopped via the left filter. The screens on this filter can be changed while the right filter continues to produce.

1

Both filters produce

2



Servicing during ongoing operation

TORQUE SCREWDRIVER

The torque screwdriver is always to hand for fast screen changeover.

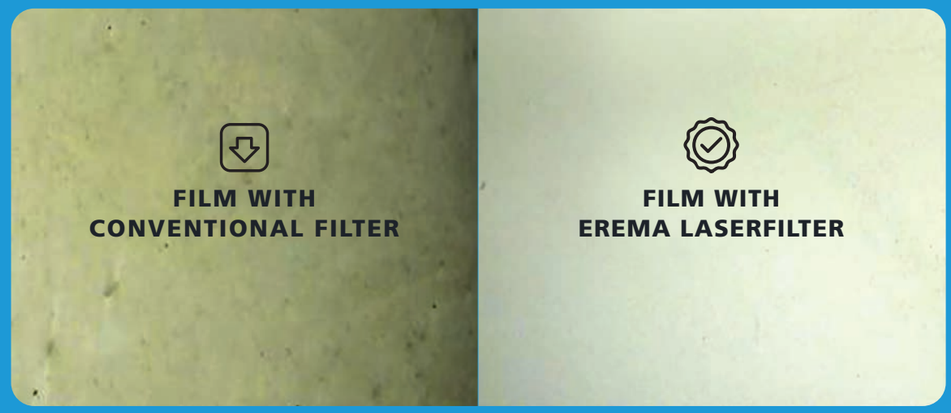
2.600 kg/h. With a filtration fineness of 90 µm.

The best practice example underpins the performance of the EREMA Laserfilter. The task: filtration of plastic melt with non-melting content such as paper, wood, aluminium, copper etc.

INPUT: PE washed shreds with 2 to 3 % residual contamination (PET, aluminium, paper, wood)

FILTRATION: Thickening 41 % – contamination removal with lowest melt loss!

OUTPUT: PE recyclate in film quality



INTAREMA® 2021 TVEplus® with LF 2/354 TRIPLE in parallel configuration (filtration 90 µm), throughput 2.600 kg/h