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## Excellent 84% separation results due to the consequent further development of the EscaMax® Belt Screen



*The basis for our EscaMax® success: convincing functionality, consequent further development, and high manufacturing quality*

The HUBER Belt Screen EscaMax® is a system that especially offers our customers excellent separation results. Its high separation efficiency has officially been proven in tests carried out under real conditions with a 6 mm perforation screen. The excellent separation result of 84% has been confirmed by an independent institute.

These above average results are on the one hand due to the two-dimensional design of our well-proven EscaMax® screen. On the other hand, such results can only be achieved on the basis of consequent further development and high manufacturing quality. Another positive aspect as to functionality and reliability is the sturdy design of the EscaMax®, particularly when huge amounts of grit and gravel need to be processed.

Each end of the filter belt of the HUBER EscaMax® screen is connected with a drive chain that is driven by chain wheels. Each chain wheel is driven by a sprocket on a common shaft and a flange mounted gear motor. When they have passed the upper turning point the screening elements are cleaned by an internal spray nozzle bar which operates against screening direction. A separately and continuously driven roller brush enhances the cleaning process additionally. The roller brush operates against the travel direction of the filter belt, this improves cleaning efficiency significantly.

Another advantage of this cleaning method is that a majority of the screenings, including abrasive material, are removed from the screening elements already in the first step of the cleaning process by the spray bar. It is obvious that the wear of both the screening elements and the roller brush is considerably reduced in this way.

Furthermore, we have risen to another technical challenge and developed a new concept for the critical area where the screening elements are cleaned subsequently. The results have exceeded all expectations: The constant spacing between the roller brush and the semicircular screening elements guarantees gentle yet highly effective cleaning, especially with extremely high screenings loads.

The innovation and reliability of the HUBER EscaMax® Belt Screen ensure increased separation efficiency, effectively eliminate pump

# ThompsonRPM

THIS IS TO CERTIFY THAT THE:

**HUBER ESCA-MAX**

WAS TESTED AT THE:

**NATIONAL SCREEN EVALUATION FACILITY  
CHESTER LE STREET STW  
NORTHUMBRIAN WATER  
JANUARY / FEBRUARY 2014**

**AVERAGE SCREENINGS CAPTURE RATIO = 84%**

FOR FURTHER DETAILS REFER TO:

**THOMPSON RPM REPORT REF- TRPM-REP281**



Barry Thompson  
Thompson RPM Ltd

*With an excellent 84% separation efficiency the EscaMax® with 6 mm perforation takes a leading position among the belt screens on the market*

blockage and wear, and minimise the formation of scum layers in digesters. The HUBER EscaMax® screen thus contributes to increasing the operating reliability of sewage treatment plants.

Customers who want to reduce disposal costs even with increased amounts of screenings should additionally use the HUBER WAP/SL screenings treatment system. The special feature of this system is that spray water can also be used as wash water for the WAP/SL. High-turbulence washing of screenings removes the contained organic matter most effectively. An integrated impeller creates high

turbulences so that a dry substance content in excess of 45% can be achieved. Residual material becomes valuable material in this way.

Furthermore, the carbon-rich WAP/SL wash water improves denitrification, and up to 40% of the wash water are washed out organics which settle as primary sludge and lead to an increase in gas yield.

With this innovative and intelligent technology HUBER proves how competence and expertise which have been gathered over many years can successfully be applied in practice. Our concept excels particularly due to its excellent separation efficiency and extraordinary stability and reliability. HUBER has sold hundreds of EscaMax® Belt Screen units and WAP/SL Wash Press units and is a market leader in this field.

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