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Welcome to the latest Huber Technology Newsletter.

Many people know Huber for our well renowned Rotamat range of screens, which have been successfully installed in the UK for over 20 years. These are often associated with small and medium size works. However, not everyone realises that HUBER are manufacturers of a much wider range of products which have been supplied to some very large schemes in both the UK and throughout the world. In this edition we describe some of these larger schemes as well as highlight some of our other recent installations.

We also include details of recent performance tests completed on the new HUBER escalator screen. The tests showed an exceptional screenings capture ratio, and places the screen as a market leader.

I hope you enjoy reading this newsletter and welcome any feedback you may have. If you would like to know more about any of these stories or any information about Huber products, please don't hesitate to contact us.

Best Wishes

Steve Morris
Managing Director

New website for Huber Technology

Huber Technology has been working hard to develop a quicker, more efficient and responsive website with the most up to date product information, photos and videos. The website uses the latest technology so that you can view it using a smart phone, tablet or computer.

Please have a look and let us know your thoughts:

www.huber.co.uk

The Newsletter of
Huber Technology UK

www.huber.co.uk

Blackburn Meadows WwTW

– 2 Years Later.

Huber Technology worked in conjunction with Yorkshire Water and one of its framework contractors ETM,

Large complex engineering projects typically evolve over a number of years, during which time information is gathered and ideas are developed and checked to enable all areas of risk to be assessed. In late 2009 Huber Technology UK, a major framework supplier of storm screens to Yorkshire Water, was approached together with an alternative supplier to look at potential options for the largest storm screen overflow application in the UK at Blackburn Meadows WwTW. Over the following 12 months Huber Technology worked in conjunction with Yorkshire Water and one of its framework contractors ETM, (a joint venture between Earthtech and Morrison Utilities, part of the Galliford Try Group) to design a viable and cost effective solution for this large and complicated project.

Normally storm screens are required to screen the flow whilst depositing the screenings back into the flow to allow for treatment at the main works. However at this site it was an end of line application as the screenings had to be removed at this point since there was no other avenue for them to be transported and treated. With this large and non-standard application a wide range of design options were explored by the group, to not only allow the normal storm screening to take place, but also for the effective removal of screenings from the flow.

Through strong collaboration with ETM and Yorkshire Water a solution was agreed and it was then Huber Technology's task to fully develop a solution to meet the demanding requirements of this site. This included a novel and unique solution (at this time) to direct screenings into dewatering conveyors which would then feed into the screenings handling units. All equipment contained within this solution was of Huber design and manufacture.

Once the final design had been selected and agreed, ETM then employed a hydraulic modelling consultant to construct a full scale model of the installation. This allowed them to not only evaluate the settlement characteristics, flow patterns and likely performance of the plant at different flow rates, but to also simulate conditions when the River Don itself is in flood at the same time as a storm. This innovative thinking helped provide confidence in the proposed solution and as such saved time and money during the design and construction phase.

The two pictures below show the model from either end, one without flow and one with flow sediment flow markers present.



Blackburn Meadows WwTW

– 2 Years Later - continued

“excellent example of the collaborative approach”

Installation Images show the large scale of this project and size of units involved.

In December 2010 Huber was awarded the contract to supply storm screens and screenings handling units and the equipment supplied comprised of the following Huber products;

- 5 off RoK1/1000/6mm Storm Screens, each 10,625mm long
- 5 off Ro8/355mm Screw Conveyors, each 11,500mm long
- 3 off WAP-L BG12 Screenings Handling units
- 1 off sealing plate for future unit

The 5 screens in total can handle up to 33,000 l/sec, and provision has been made to add a sixth storm screen and conveyor at a later date to screen even higher flows up to 40,000 l/sec should this be required in the future. This is equivalent to the emptying of an Olympic sized swimming pool every 90 seconds.

Teamwork within the group on this project right from the initial enquiry ensured that the best technical solution was chosen whilst also providing the customer with confidence to proceed.

“This was an excellent example of the collaborative approach that is required to deliver a solution of this magnitude. This project has proved itself to be robust and reliable and we at Huber are very proud of this successful project” commented Dale Foster Huber’s Area Sales Manager



Huber’s Contracts Engineer Ben Shore explained;

“The Blackburn Meadows project was challenging right from the start but very interesting and rewarding. The advantage of being involved right from the outset of the project allowed us to not only give a very cost effective solution to the client but to also further enhance the already very strong relationship with the end user and contractor”.

For a period of a year after the plant was commissioned, litter surveys were undertaken with excellent results. In the 2 years since installation a large number of storm events have occurred and the equipment has performed as designed and ensured that flooding and subsequent contamination of the site, seen previously, has now been eliminated. Sewage related debris is now being effectively screened out and removed from the flow before discharge to the river and is therefore improving the River Don’s conditions downstream of the works. This is of particular benefit to the local wildlife with the subsequent improvement in the quality of water discharging into the river during a storm event.

Blackburn Meadows WwTW

– 2 Years Later - continued



WAP-L BG12 units

*Ed Brush,
project manager
from Yorkshire
Water Services
explained;*

"From the start of the project to its final completion and successful operation, Huber Technology formed an integral part of the 6 off storm channel solution design. Huber was challenged to find an effective and innovative solution to screen storm water litter and significantly reduce pollution from entering the River Don. The storm water channel scheme is the largest of its kind in the country. It was delivered on time and within budget. It has already shown to exceed the original design criteria of processing 30,000 l/sec, by successfully handing a number of significant storms and preventing storm water pollution entering the River Don."

The scheme was runner up in the 2013 RICS Pro Yorkshire Awards in the Infrastructure category. The Awards showcase the most inspirational regional initiatives and developments in land, property, construction and the environment.

For Huber, it brings the total number of storm screens of this type, supplied in the UK, to over 1,200.

For more information please visit www.huber.co.uk

or Rachael Harvey rh@huber.co.uk

Improved Performance from New Huber Inlet Screen

Chester Le Street

Huber Technology's new EscaMax inlet screen has achieved exceptional results following recent tests at the National Screen Evaluation Facility (NSEF) at Chester Le Street. The average Screenings Capture Ratio was 84% which puts it as a leader in its class.

The tests were conducted following an extensive redesign to the already successful EscaMax fine screen. The modifications to the screen not only improve the Screenings Capture Ratio but also help reduce maintenance costs by extending the period between servicing and reducing routine maintenance.

As Nick Hunt, Huber UK's Sales Director explained "the EscaMax has been an incredibly successful screen with over 420 installed worldwide and over 50 in the UK alone. However, we are always looking at ways to improve performance and after listening to our customers' needs the decision was taken to further redesign certain mechanical features of the screen".

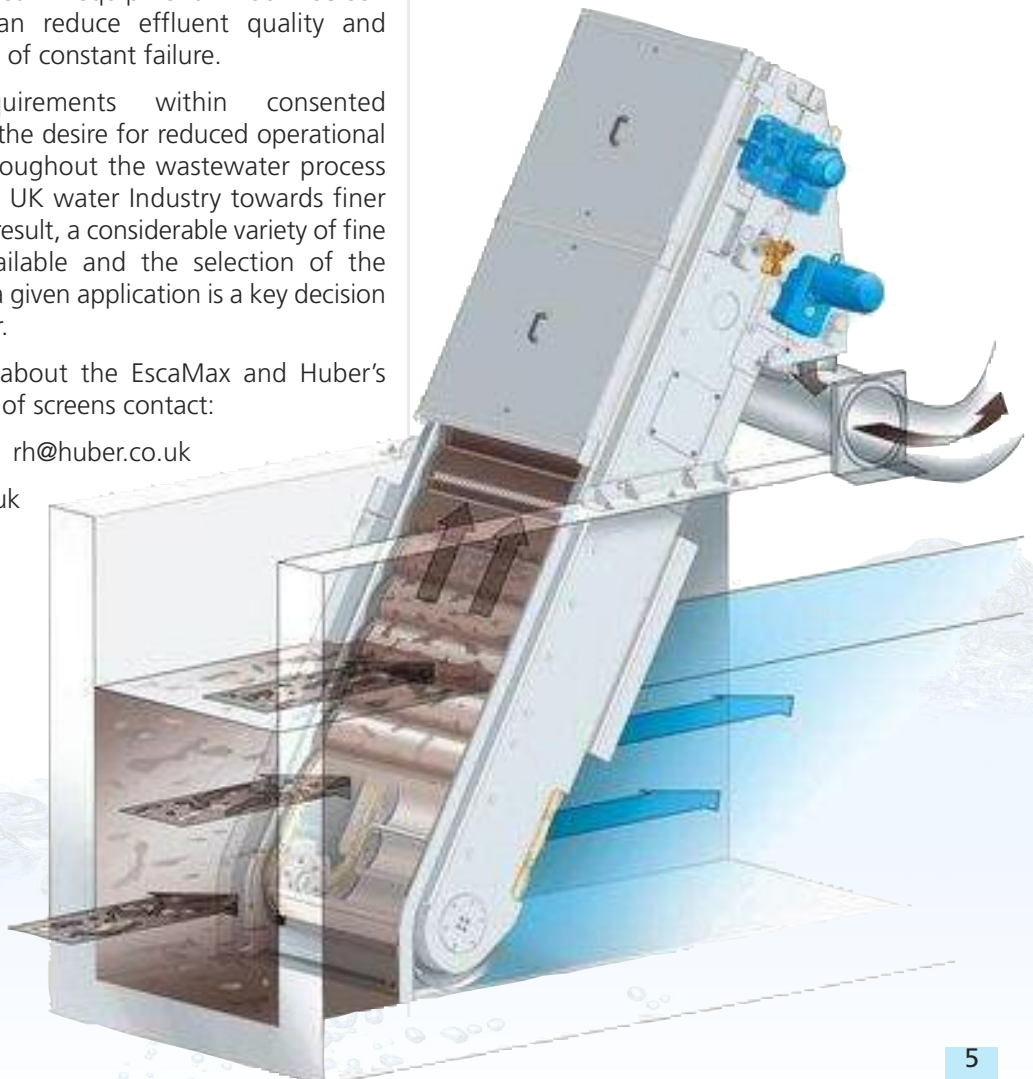
Inlet screens purchased for WwTWs that do not function efficiently increase operational expenditure due to a variety of reasons. Poor reliability increases screen maintenance costs and solids material which passes through a screen can block downstream equipment. Poor screen performance can reduce effluent quality and increase the risk of constant failure.

Aesthetic requirements within consented discharges and the desire for reduced operational expenditure throughout the wastewater process have driven the UK water Industry towards finer screening. As a result, a considerable variety of fine screens are available and the selection of the correct one for a given application is a key decision for any operator.

To learn more about the EscaMax and Huber's extensive range of screens contact:

Rachael Harvey rh@huber.co.uk

www.huber.co.uk



Large Projects

- I didn't know Huber did those?

It's amazing how people and companies in life get labelled into specific areas or boxes and it is more than likely based on the contact with that individual or company. We seem to be regarded as a screen manufacturer of the world famous Rotamat products and few people seem to know that we have a lot more products to offer.

When the Huber range was first introduced into the UK in 1985, it comprised of the Rotamat Ro1 Bar Screen for the traditional inlet works together with the Rotamat Ro3 Sludge Acceptance Plant for sludge. As the products developed and the need for finer screening emerged the Rotamat Ro9 Microstrainer appeared between 1989 /1990 to satisfy that need. The Ro9 has gone from strength to strength with over 1,100 units now installed in the UK and approx. 3,000 worldwide.

Working with such solid and reliable products at that time was of great benefit to Huber Technology and the Rotamat brand and this has helped prove its success over the last 20 years.

Despite numerous presentations and conferences, the full product range available from Huber is still not appreciated by the industry as a whole. In practical terms Huber can provide products ranging from a simple step iron to help personnel out of a chamber to a full blown multiple sludge dryer and all that lies in between in any treatment plant, be it dirty water applications or clean water. Our entire product range can be viewed on our website www.huber.co.uk or visit our Parent Company's stand at the forthcoming IFAT Exhibition which is the worlds largest exhibition dedicated to the water and wastewater industry today and is taking place in Munich between 5th and 9th of May 2014.



resources. innovations. solutions.

Meet us at IFAT 2014 !

May 5 - 9, Messe Munich, Hall A2, Stand 333

There is also one further area where we think that people may have a misconception of Huber Technology in that we are limited to the small to medium size of plant and this could not be further from the truth.

For example our Parent Company has supplied the largest membrane plant in China using the Huber VRM (MBR) processing 400 tonnes of sludge per day and 41 Rotamat Screens supplied for China. Huber has also supplied the RakeMax and Step Screens for the world's largest STW in Mexico

together with other items from the Huber product portfolio. Closer to home it has also supplied a large amount of equipment to Cyprus at Larnaca STW which involves inlet screens, grit removal and treatment equipment, sludge thickening, solar drying and also Huber VRM (MBR) equipment. Huber has also just announced that it has secured an order for 37 RakeMax screens for India again proving that it has the products available for the largest treatment plants in the world. Details of all these projects and products supplied on them are available upon request.



In the UK, Huber Technology have been working hard at changing the initial market perception of its capabilities from the small to medium end to one that proves Huber Technology can handle every size of project that is out there.

From its initial success in the small to medium areas and well documented track record over the past 20 years the interest in Huber Technology now providing solutions for the larger sites is gathering momentum. There is an ever increasing enquiry interest and orders for the larger products within our portfolio.

*1,100 Ro9 units
now installed in
the UK*

IFAT Exhibition

*Huber
Technology can
handle every size
of project that is
out there*

HUBER
TECHNOLOGY
WASTE WATER Solutions

Sludge Thickening and Dewatering applications in Ireland

4,400+ reference units in the UK

market leaders in the supply of products for the UK waste water treatment industry

For example we have large Sludge Thickening and Dewatering applications in Ireland, Coarse and Fine Inlet screens and Screenings Handling Equipment at the largest treatment plants in both Northern and Southern Ireland, large Disc Filter applications in England, and the largest Storm Screens and associate Screenings Handling units working on the UK's largest Storm Overflow at Blackburn Meadows handling 33,000 l/sec.



With these large projects already secured and others pending as well as the 4,400+ reference units in the UK Huber Technology feels it is now one of the market leaders in the supply of products for the UK waste water treatment industry.

Nick Hunt
Sales Director

Adpar and Crynant - RoDisc® Installations

Huber Technology were pleased to be awarded two contracts to supply the RoDisc® for tertiary treatment applications in Dwr Cymru Welsh Water (DCWW). Both sites were supplied along with other items of Huber equipment as part of a large batch of schemes involving 30 sites in total where specific site improvements and upgrades were identified and necessary.

part of tertiary treatment and thus enables stringent wastewater discharge consents to be met. It is suitable for both gravity and pumped applications and has a large filtration area.

Both sites were completed and commissioned in 2013 and handed over to the client and have proved to be a great success.



Huber supplied and installed 1 off 4 disc RoDisc® unit to a small site in South Wales and the second larger project which was also located in South Wales was for 2 off 10 disc RoDisc® units.

The Huber RoDisc® is a compact and robust unit supplied in its own stainless steel tank or can be installed in a separate chamber supplied by others and is used for the polishing of Final Effluent as

"Huber won this order against stiff competition to help Dwr Cymru Welsh Water (DCWW) to improve the discharge consents of both sites" commented Adrian Heneghan, Area Sales Manager for Huber.

For further information please contact Huber.

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www.huber.co.uk