

### **Case Study**

#### **HUBER Technology upgrades the inlet works at Duncrue Street, Belfast.**

HUBER Technology have recently completed a large £1.2 million project at gy collaborated extremely closely with the main contractor GRAHAM Construction and Northern Ireland Water to ensure the project

The upgrade of Duncrue Street, Belfast, was an example of the considerable

t importance. The elevated works, which occupy a compact footprint, fed by 5-off large screw pumps presented its challenges, and any failure in the fundamental design could have caused extensive damage to

HUBER Technology were tasked to take into account the very specific site

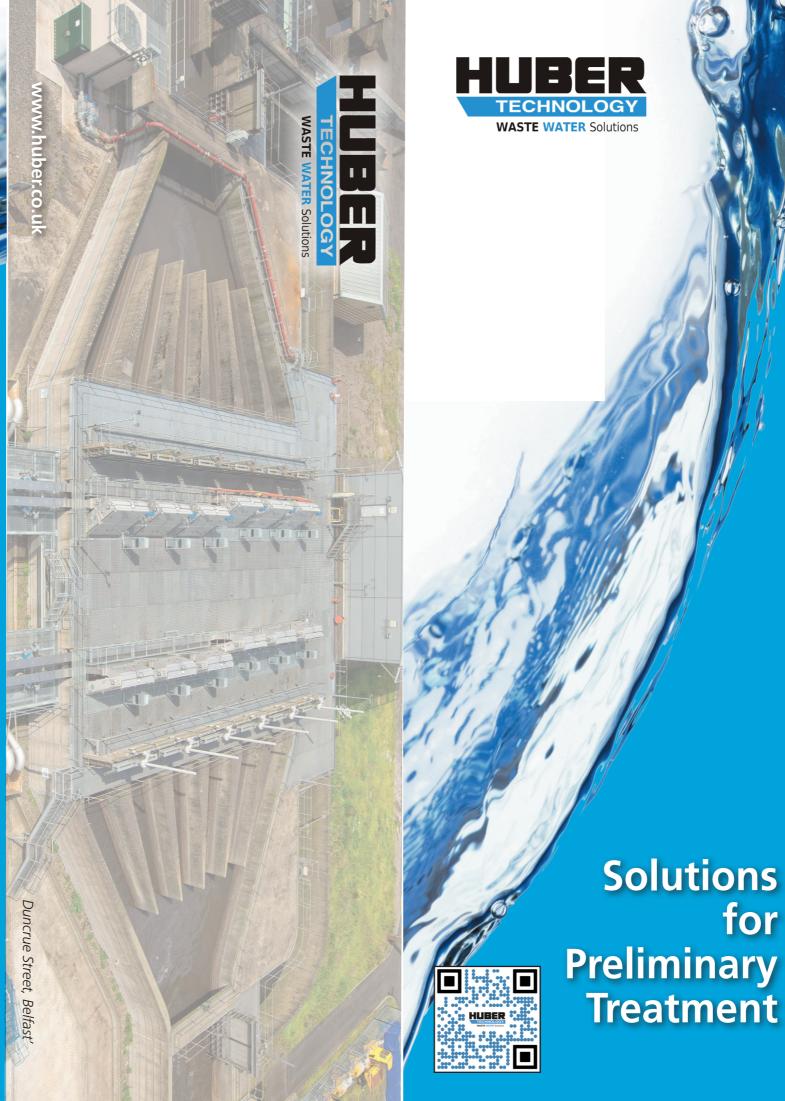
As with all projects of this scale, good communication was essential, and regular projects meetings at all stages of the contract, ensured that all re informed and agreements about the most important decision

- 6 x EscaMax® Screen 5000 x 2252 with 6mm perforated plate
- 6 x RakeMax® Screen 4300 x 2250 with 50mm bar spacing

office, based in Portadown, took over the mechanical installation October 2013, the equipment was successfully commissioned after a 28 day

Peter Neeson, Operations Manager from Northern Ireland Water explained how well he felt the project was carried out and the

"The reliability of the HUBER equipment has been excellent. The screening capture rate, by both the coarse and fine sets of screens is excellent, evident now by how quickly the skips fill, and the significant reduction in sewage related debris downstream of the screens. Screen handling has been vastly improved by the installation of the HUBER WAPS and launder trough system.



**HUBER Technology** was incorporated in the UK in 1993 (Registered name Rotamat Ltd.) as a wholly owned subsidiary of HUBER SE, the manufacturers of the ROTAMAT range of waste water treatment equipment.

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Our mission is to protect the environment with wastewater solutions. HUBER Technology's UK head office is based in Chippenham, Wiltshire with regional centres in Rotherham, Dundee and Portadown providing dedicated installation and a full aftersales service programme to customers in these areas.

HUBER equipment is designed and manufactured in Germany where we have state of the art manufacturing facilities and incorporate the very latest production techniques. Machines are customised to meet individual customers' requirements at our workshop facility in Chippenham.

We design and build bespoke control panels to ensure efficient and cost effective operation of our equipment. We also offer an extensive range of plant for hire and trials to meet customers' short term needs and help with on site development work.

### **HUBER Solutions for Preliminary Treatment**

- ➤ Coarse / Fine Screening
- ➤ Combined Screening
- > Screenings Handling
- ➤ Packaged Inlet Works

# **HUBER Technology – Lowest WLC Preliminary Treatment**

## **Coarse & Fine Screening**

#### **Solutions**

- ➤ HUBER Muti-Rake Bar Screen RakeMax®
- ➤ HUBER Belt Screen EscaMax® Perforated plate escalator fine screen



### RakeMax® coarse screen

#### Features & benefits:

- Easy retrofit into existing 500 mm wide channels up to 4 m wide & 20 m deep
- High screenings discharge capacity
- > Low headloss
- No washwater required
- Numerous bar spacing & installation angles available
- **RakeMax**® **Hi-Flow** screen available with a higher hydraulic throughput



HUBER EscaMax® fine screen installation at Hull WwTW

#### EscaMax® fine screen

#### Features & benefits:

- > World class screening efficiency 84% average solids capture ratio
- Unique sealing design ensures continued efficiency with minimal maintenance
- No requirement for self adjusting brush due to clever
- ➤ Different perforation sizes & screen installation angles
- > 300+ installations in UK & Ireland

Range of launder systems, screenings handling plant & control panels available to compliment the screens

Telephone: 01249 765000

## **Combined Screening**

#### Solutions

#### ► HUBER Micro Strainer ROTAMAT® Ro9

Combined Fine Screen

The original 'spiral sieve' screen - Screenings removal, washing, transportation, dewatering & compaction with a single low kW drive



stallation at Michaelwood STW



nstallation at Bishop Middleham WwTW. ank also incorporates a central handraked bypass screen

#### **HUBER Ro9 combined screen**

#### Features & benefits:

- ldeal for new or existing works above or below ground
- > Safe, easy & guick to maintain in situ
- > 1500+ installed in UK & Ireland
- Complete range of versatile solutions 500 P.E. to 10,000+ inhabitants

#### DfMA (built off site) tank solutions include:

- ☐ Duty only **HUBER Ro9 combined screen**
- As above but also incorporating a handraked screen bypass.
- Duty/Standby or Duty/Duty HUBER Ro9 combined **screens** with or without a handraked bypass screen.

#### Design features include:

- Out of the flow, intermediate auger support bearing to
- avoid unnecessary auger wear Wear sensor for above bearing
- Optimised washwater control for reduced consumption. 6 mm 2D screening as standard – Smaller apertures
- available upstream of sensitive processes

Range of solutions includes screenings conveyors & control panels available to compliment the screens

Email: sales@huber.co.uk

### **Screenings Handling**

- ➤ HUBER Screenings Wash Press WAP® Screw Compactor
- ➤ HUBER Screenings Wash Press WAP®L Washer Compactor
- ► HUBER Screenings Wash Press WAP®SL Intensive Washer Compactor



UBER WAP<sup>®</sup>L Wash Press installation at Plymouth Centi STW serving coarse & fine screens



HUBER WAP®SL Wash Press installation at Hull WwTW serving 3 No. HUBER RakeMax® screens

#### HUBER WAP® range of screenings handling plant Features & benefits:

- Wet screenings throughput up to 24 m3/hour
- > Volume, weight & disposal cost reduction up to 85%
- Low power & washwater consumption
- > 600+ installed in UK & Ireland

### Typical applications:

- **WAP®** Direct coupling to an inlet screen, screenings screw or belt convevor
- **WAP®L** Screenings from launder systems or direct from screens where screen washwater rate is high
- **WAP®SL** Screenings from launder systems where odour is likely to cause a nuisance to neighbouring

Range of launder systems & control panels to compliment the screens & wash presses

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

### **Packaged Inlet Works**

- **➤ HUBER ROTAMAT® Ro5 Complete Plant** Screenings removal, washing, dewatering & compaction, grit removal & treatment with optional FOG/grease removal
- ► HUBER ROTAMAT® Ro6 Longitudinal Aerated Grit Trap with upstream HUBER inlet screen package. Grit removal & treatment with optional FOG/grease removal in a single box



HUBER Ro5 Complete Plant installed at Invergordon STW



PD representation of HUBER Ro6 Longitudinal Aerated Grit Trap with upstream HUBER Rotamat® Ro9 fine screen

#### **HUBER Ro5 & Ro6**

#### Features & benefits:

- > **Ro5** the original packaged inlet works
- > Can be installed above or below ground
- > Excellent hydraulic throughput versus footprint
- > Any HUBER screen can be located in the **Ro5**
- Lower CAPEX & operating costs than competing grit treatment technologies
- > No level control, grit pumps or separate classifier required
- > Optional grit washing & automatic grease removal available
- > 100+ UK & Ireland installations

Control panels available

