HUBER TECHNOLOGY
WASTE WATER Solutions

HUBER SE at IFAT 2022

After four years of waiting, the time has come again: IFAT, the world's most important trade fair in the field of environmental technologies, will take place at Messe München from 30 May to 3 June. HUBER will be presenting around 50 products in Hall A2 at Stand 351, including numerous new and further developments. An exciting focus topic: digitalisation.

Innovative solutions to increase water and energy efficiency

HUBER will be presenting many exciting products and solutions for drinking water supply, wastewater treatment and sludge treatment at IFAT 2022 from 30 May to 3 June 2022. On a stand area of 1,100 m2 (Hall A2, Stand 351/550) HUBER will be exhibiting numerous technology highlights in the form of machines and plants, complemented by vivid videos and animations. Many of the company's experienced specialists will be available to advise national and international visitors and customers.

One of HUBER's focal points is the **digitalisation**. The company will therefore demonstrate the possibilities of digitalisation in the field of wastewater and sludge treatment and the enormous potential for future developments towards **Water 4.0** by providing very concrete practical examples from the fields of screening systems, sludge treatment and after-sales service. HUBER will present its new IoT platform here for the first time and showcase the benefits of comprehensive real data analysis.

Sludge Treatment

The **HUBER Screw Press Q-PRESS®** is successfully in use worldwide and will be presented at IFAT in various sizes. The machines are continuously optimised by HUBER and offer best dewatering performance at highest energy efficiency. The simplicity of operation, ease of maintenance and the small footprint are further plus points of this machine. Special highlight: the interaction of an operating HUBER Screw Press Q-PRESS® and the new HUBER IoT platform will be presented live.

Both nationally and internationally, HUBER has implemented numerous projects in the field of ***thermal sewage sludge treatment***.

For all solar sewage sludge drying plants, HUBER relies on the **HUBER Sludge Turner SOLSTICE®** in combination with the innovative **HUBER climate control system**. As a result of continuous development, HUBER solar sewage sludge drying systems are characterised by trouble-free operation, best energy efficiency as well as simplest operation and highest safety. Interested visitors can find out about the current status of the **HUBER solar sewage sludge drying project at the Bahr El-Baqar plant** (Egypt) at IFAT. This water treatment plant has been awarded the title of the world's largest plant of its kind by Guinness World Records in 2021. More than two billion cubic meters of water are to be treated here annually on an area of about 650,000 square meters. HUBER supplied, among others, 128 Sludge Turners SOLSTICE® for the large-scale project, so that a total of approx. 490,000 tons of dewatered sludge per year can be dried from 24 % to approx. 75 % dry residue.

As an alternative to solar sewage sludge drying, the **HUBER Belt Dryer BT** is the ideal solution. Due to its modular design, the belt dryer can be adapted to on-site conditions both in terms of energy and construction. Innovative concepts for heat extraction from the drying process also enable maximum energy recovery. This can be fed into a local heating network, for example, or used at the sewage treatment plant to heat the digester. Interesting videos as well as operating data and operating experiences from numerous nationally and internationally executed dryer projects await the visitors.

The new **HUBER Disc Dryer RotaDry®** completes the HUBER product portfolio with contact drying. The disc dryer can, for example, dry the sewage sludge of a mono-incineration plant to the ideal dry residue content. Thus, the incineration can be operated in a self-

sustaining and energy-efficient way. The excess steam from the electricity production is used as heating medium. A reliable condensate removal system, innovative control and optimised feeding make the HUBER Disc Dryer RotaDry® the perfect sewage sludge dryer for subsequent incineration.

The final step of thermal sludge utilisation is provided by the **sludge2energy process** of sludge2energy GmbH. sludge2energy GmbH, a joint venture of HUBER SE and WTE Wassertechnik GmbH, will also present its solutions for mono-incineration of sewage sludge at the HUBER stand. The first operating experiences of the **sewage sludge mono-incineration plant in Halle-Lochau** , which was planned and built by slude2energy GmbH, are likely to meet with particular interest among trade visitors. In addition, other current projects of sludge2energy GmbH for the mono-incineration of sewage sludge will be presented.

Mechanical Wastewater Treatment

As the global market leader in mechanical wastewater treatment, HUBER will of course also show the latest developments in the field of ***screening systems***.

In addition to the latest version of the world-renowned **HUBER Multi-Rake Bar Screen RakeMax®**, which will be on show in the different versions RakeMax® HF, RakeMax® J and RakeMax® Hybrid, other proven HUBER screens will be exhibited: the **HUBER Belt Screen EscaMax®**, **HUBER Coarse Screen TrashMax®**, **HUBER Band Screen CenterMax®** and the **HUBER Rotary Drum Fine Screen ROTAMAT®** systems.

For the first time, HUBER will showcase its newly developed **HUBER Multi-Rake Bar Screen RakeMax® CF** at IFAT 2022. This innovative screen opens up completely new possibilities in the field of mechanical wastewater treatment as it features a worldwide unique U-shaped bar rack through which the wastewater flows from inside to outside.

As another highlight, HUBER will present the worldwide unique **HUBER Safety Vision** system in live operation at IFAT. This is an innovative system of contaminant detection for screens. High-tech sensors continuously measure the form and size of the coarse material transported by the screen rake. Whenever the system detects that any critical coarse material is present, the screen will be stopped and a corresponding warning message sent to the plant operator. This reliably prevents an unintentional blockage or damage to the screen or downstream units. Furthermore, the system is able to record the amounts of screenings separated and discharged in real time.

HUBER also offers comprehensive solutions for screenings treatment. At the heart of this is the **HUBER Wash Press WAP®**, which has been tried and tested thousands of times and will be on show in various versions at IFAT. As a novelty, HUBER will show the innovative **WAP® wear detection**. The wear common to washing presses is reliably monitored and an unplanned and expensive machine breakdown can be replaced by planned maintenance.

As a specialist for solids-liquid separation, HUBER has been dealing with **grit separation**, among other technologies, for decades. With the newly developed **HUBER Grit Trap GritWolf®** HUBER is now setting new standards in the field of grit separation: Due to optimised inflow conditions combined with the advantages of a lamella separator, the HUBER GritWolf® is able to separate up to 90 % of grit with a grain size ≥ 75 µm on a reduced footprint. The new GritWolf® grit trap is available in several sizes for flow rates from 160 m³/h (1 MGD) to 3,150 m³/h (20 MGD).

With the **HUBER CarbonWin® System**, HUBER offers an interesting option to convert sewage treatment plants to change from an aerobic to an anaerobic sludge stabilisation. The first step of the HUBER CarbonWin® System is a mechanical treatment stage followed by a grit and grease trap. A **HUBER Drum Screen LIQUID** is installed downstream of this assembly. The wastewater cleaned by the drum screen is fed to the subsequent aerobic treatment facility, while the separated fines are thickened and fed to the digester for anaerobic treatment.

Filtration and Fourth Treatment Stage

For the removal of trace substances such as pharmaceuticals, chemicals and hormones, which are increasingly discussed in public, HUBER offers the adsorptive removal process using granulated activated carbon for the **fourth treatment stage**. At the heart of this process is the **HUBER Active Carbon Filter CONTIFLOW® GAC**. It's efficiency can be further increased by combining it with upstream ozonisation.

The **HUBER Disc Filter RoDisc®**, which has been successfully used for many years, has been enlarged in diameter, increasing the capacity per filter unit to up to 2,000 m³/h.

The machine technology for advanced wastewater treatment is complemented by the newly developed **HUBER Pile Cloth Media Filter RotaFilt®**, which will be shown for the first time at IFAT 2022. The screening medium here is not a mesh fabric but a special pile fabric. This filtration machine is used in reliable phosphorus elimination and carbon retention in the third treatment stage as well as in processes of the fourth treatment stage.

Industrial Solutions

In another focus area, HUBER will show the public its competence and experience in the field of ***industrial wastewater treatment*** for numerous industry sectors. At IFAT 2022, HUBER will focus primarily on solutions for the **disposal** and ***paper industry*** and the **dairy** and **meat processing industry**.

Furthermore, HUBER will for the first time present **solutions for sea and river water intake** , which are important for power plants,

desalination plants or the chemical industry, for example. The water is usually treated in a multi-stage process and HUBER has developed several new screen types to meet the special intake requirements, including the **HUBER Grab Screen TrashLift**.

Drinking Water Safety

The ***safety of drinking water*** is a matter close to HUBER's heart. At IFAT 2022, HUBER will therefore present various practical solutions for burglary prevention for objects requiring protection in the drinking water and wastewater sector. Numerous exhibits will be there to illustrate HUBER's various further developments in the field of **attack-proof doors** and **manhole covers** certified to resistance class RC3 according to DIN EN 1627.

After-Sales Service

A comprehensive and globally available **after-sales service** has long been an indispensable part of HUBER's service portfolio. IFAT 2022 offers all operators of HUBER machines an excellent opportunity to get comprehensive information from the HUBER service specialists about **original HUBER spare parts**, **HUBER repairs** and **HUBER maintenance contract** options.

Another step towards optimised support for HUBER machinery customers and operators is the **newly developed IoT platform**: state-of-the-art technology captures defined machine data and stores it in a cloud. The data is automatically analysed in real time and, if necessary, measures are derived. At IFAT 2022, interested visitors can see for themselves the performance and benefits of this innovative technology, which of course also takes into account IT security requirements.

IFAT 2022 offers you the chance to take a close look at numerous HUBER products, solutions, applications and innovations. Over 50 products await you on 1,100 m² of stand space. Our technical specialists look forward to interesting questions and stimulating discussions.

Organiser Messe München is confident

After IFAT had to be cancelled in 2020 due to the Covid pandemic, organiser Messe München is confident at present that the world's leading trade fair for environmental technologies can take place in 2022 – naturally in compliance with all applicable hygiene regulations and measures to protect against Covid.

3,305 exhibitors and 142,472 visitors: the last IFAT 2018 at a glance

IFAT is the world's leading trade fair for environmental technologies and is held every two years at the Messe München Trade Fair Centre. In the fields of water, sewage, waste and raw materials management, companies exhibit their products, solutions and

innovations and enter into dialogue with the numerous visitors from all over the world. At last IFAT in 2018, 3,305 exhibitors from 58 countries and regions presented themselves to the 142,472 visitors from 162 countries and regions on a total of 260,000 square metres of exhibition space.

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