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## Press Release

# IFAT 2018: Environmental technologies for the construction industry

- Premiere: special area for sustainability in road construction
- VDMA demonstration days now also for mineral processing
- Modern machinery for crushing and screening construction waste

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**The construction sector is an industry with a high relevance to the environment. With an annual volume of 200 million tons, mineral construction and demolition waste, roadway rubble and soil is by far the largest waste stream in Germany. According to the Central Association of the German Construction Industry up to 90 percent of this waste stream is kept in circulation. The required recycling and treatment solutions have always been an important segment of IFAT. The World's Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management will take place at Munich's exhibition center from May 14 to 18.**

## IFAT premieres for the construction industry

This year, several program premieres will pay due attention to the recycling economy's significance in the construction industry. IFAT 2018 will for the first time feature an area devoted to "Sustainability in road construction", covering the entire process chain from road demolition to reinstallation. Apart from sustainable procedures and materials, the focus will be on the digitization's influence on all process steps. A top-class conference program organized by the German Association of the Building Industry, and Environmental and Mechanical Engineering (VDBUM) will accompany the special area's joint booth and individual company presentations.

The demonstration days of the German Engineering Federation (VDMA) also offer an innovation. Until last year, they had included live outdoor demonstrations

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of the state of the art in biomass size reduction and treatment. This year, VDMA will also show mobile machines for treating mineral waste.

### **Recycling starts during demolition**

In road construction, efficient and environmentally friendly recycling already begins during demolition. Wirtgen GmbH will, for example, bring a cold milling machine to IFAT which is used to quickly and precisely remove asphalt and concrete pavements. Milling the surface, binder and base in layers additionally enables the material to be reclaimed in a selective process and separated into the different mix types. Furthermore, the milling machine creates a true-to-profile and even base for the construction of new surface courses of uniform thickness.

To prepare building waste and roadway rubble for a new product life, it often needs to be crushed. At the new special area in Hall C5, IFAT 2018 gathers a broad spectrum of special machines, such as the stone and asphalt crusher SRC+ of the company Crush + Size Technology. After a primary crushing stage, the double-roll crusher consumes relatively little energy to gently grind the old asphalt to 32 mm, while barely destroying the original grain structure with the adhering bitumen. Combined with the secondary crusher DRC+, only insignificant amounts of the unwanted sand fraction are produced.

Many custom-fit recycling procedures require construction waste to be screened. The machines used for this purpose need to meet high demands: they have to be mobile for them to carry out their work in different locations. In addition, they must handle materials of different weight. For the drum screens of Komptech this means that they have to be equipped with a stable frame, a robust discharge conveyor and a drum that is resistant to falling stones. Additionally, the screens need to be constructed so that sticky or clayey feedstock does not clog the drum or cake between drum and side wall. In the past, Komptech fulfilled these demands with its drum screener Nemus 2700. At this year's IFAT, the company will introduce a new development based on this machine: Nemus 3000. The fine and oversize fraction discharge belt is much longer now. Maintenance intervals,

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for example for the DRUMGRIP drive, have been doubled thanks to the newly designed lift kinematics.

### **Eco-friendly screening of construction waste**

According to own statements, Kormann Rockster Recycler GmbH wants to screen construction waste as environmentally friendly as possible – for example by efficient dust suppression, sound-proofing and state-of-the-art drive motors. At IFAT, the company will present the mobile screen RTS514. The track-mounted three-deck screening plant has a feed hopper volume of 7.7 m<sup>3</sup> and is equipped with belts for sand, coarse and medium fractions – the latter is again divided into coarse and fine structures.

In addition to demolishing, crushing and screening mineral construction waste, there are many other aspects in the construction industry that require environmental technologies and recycling products. The machine manufacturer Doppstadt, for example, addresses mixed construction waste. At IFAT, the company will show a machine combination of drum screener, wind sifter and density separator. This procedure chain separates mixed construction waste into the fractions stones, sand and wood. And plastic films are screened out as well.

### **Preservation of existing roads**

One of the most important tasks in road construction is to preserve existing roads. Cracks, for example, can be an enormous problem as they may appear again on renewed asphalt layers. S&P Clever Reinforcement GmbH tackles this problem with glass-fiber and carbon-fiber reinforcement meshes. These are installed directly beneath the surface or binder course. The high-strength pre-bituminized mesh exhibits excellent adhesion to the ground. If the road needs to be demolished later, the meshes can be easily milled and recycled. According to current knowledge, milled material containing reinforcement residue of S&P Glasphalt/Carbophalt can also be used in higher-grade layers such as surface or binder courses.

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One of the recycling construction materials presented at IFAT will be the aggregate Granugrip of the German manufacturer Nadler Straßentechnik. It is highly resistant to abrasion and blends into or adheres to the asphalt emulsion. And as it is lighter, it always floats on top.

### **Solution platform for the construction industry**

The above-mentioned solutions only reflect a small part of the extensive world of environmental technology demonstrated by more than 3,100 exhibitors at IFAT 2018.

**More information on IFAT is available at [www.ifat.de](http://www.ifat.de).**

#### **IFAT**

IFAT is the world's leading trade event for environmental technology. A total of 3,097 exhibitors from 59 countries, and 136,885 visitors from 168 countries took part in the last event. IFAT is held every two years; the next edition takes place from May 14 to 18, 2018 in Munich.

#### **IFAT worldwide**

Messe München's competence in organizing environmental-technology events is demonstrated not only in the world's leading trade fair for the sector, IFAT, but also in a range of other international trade exhibitions around the world. The spectrum encompasses IFAT Africa in Johannesburg, IFAT Eurasia in Istanbul, IFAT India in Mumbai, and IE expo in Shanghai. With IE expo Guangzhou there is now also a regional edition of the trade fair, focusing on the market in South China.

#### **Messe München**

Messe München is one of the leading exhibition organizers worldwide with more than 50 of its own trade shows for capital goods, consumer goods and new technologies. Every year, a total of over 50,000 exhibitors and around three million visitors take part in more than 200 events at the exhibition center in Munich, at the ICM – Internationales Congress Center München and the MOC Veranstaltungszentrum München as well as abroad. Together with its subsidiary companies, Messe München organizes trade shows in China, India, Brazil, Russia, Turkey, South Africa, Nigeria, Vietnam and Iran. With a network of associated companies in Europe, Asia, Africa and South America as well as around 70 representations abroad for over 100 countries, Messe München has a global presence.