Media Release Ammann Group

Ammann Green Days Welcomes Crowd
Hydrogen Burner, Regenerating Filter Intrigue Visitors

LANGENTHAL, Switzerland – Sustainable asphalt-mixing plant technologies, including a new hydrogen burner and a self-cleaning VOC filter, caught the attention on of the 350 visitors who attended Ammann Green Days in Verona, Italy, from 23-27 October.

“It was apparent to all our guests that Ammann is committed to environmentally friendly asphalt production,” said Marzio Ferrini, Head of product marketing. “Ammann wanted to put the customers at the center of this event and show them the solutions we have developed.”

The occasion included the announcement of three significant emissions abatement efforts: the H2 hydrogen burner, VOC Reduction Device (VRD) and Blue Smoke Treatment (BST).

“The customers responded very positively to these eco-conscious advancements,” Ferrini said. “They were very impressed by what they saw.”

Several new asphalt-mixing plant models that utilize these innovations were also introduced.

Ammann has been committed to green mix production for decades, but the event represented a new sense of urgency on the sustainability front.

“We recognize that more needs to be done, and we are addressing emissions issues at every step of production,” Ferrini said. “We are transparent about that.”

H2 Hydrogen Burner
The Ammann H2 is the first asphalt-mixing plant burner on the market capable of utilizing up to 100% hydrogen. It eliminates all CO2 emissions associated with the burner.

“There were many questions about the hydrogen burner,” Ferrini said. “Customers were keenly interested in this technology and the plants that utilize it.”

The performance of the Ammann H2 is comparable to a fossil-fuel powered burner. Yet the H2 is easier to regulate, with better heat exchange in the dryer and an overall cleaner process.

The H2 is capable of burning other fuels if desired.

VOC Reduction Device
A new, advanced filtration system from Ammann is able to remove a significant level of emissions during asphalt production – and clean itself, too.

VRD reduces volatile organic compounds (VOCs), odors and other organic carbon emissions. It is the first technology on the market able to self-clean; no filter replacements are needed.

With VRD, neither time nor money is spent on filter replacements. Plant uptime is optimized as well.

VRD is a modular, stand-alone solution compatible with virtually every type of asphalt-mixing plant – whether provided by Ammann or another manufacturer. It lowers total organic carbon (TOC), which contains VOCs, by as much as 70% under common working conditions.

“All were impressed by this cutting-edge filtration system,” Ferrini said. “It improves plants without having to dismantle them.”

Many customers said they will incorporate VRD in their existing plants, Ferrini said. “Doing so will help keep their plants in compliance with tightening emissions standards,” he said.

Blue Smoke Treatment
BST dramatically decreases the emissions that result while loading asphalt mix to trucks. It doesn’t require costly confinement equipment and is inexpensive to operate, too.

BST captures fumes that previously would have escaped during loading and redirects them to a multi-stage filtration system. The filters remove the oily particles, and the remaining gases are routed to the combustion chamber. This lowers costs because the captured air is already heated.

BST can be specified during the purchase of a new plant or added as a retrofit. It is compatible with all asphalt plants on the market, regardless of the manufacturer.

UPDATED ASPHALT-MIXING PLANTS
Ammann also announced it has expanded its line of asphalt-mixing plants. The plants will be able to leverage the new green technologies.

Ammann ABA UniBatch Plant
This is an advanced plant with two new capacities: 140 ton/hour and 400 ton/hour.

The Ammann ABA UniBatch offers many levels of recycling. It can use 30% RAP through cold recycling – and up to 100% RAP through the RAH100 dryer and its highly advanced technology.

Energy efficiency and sound and odour reductions are additional sustainable features of the plant.

Ammann ACP ContiMix 2.0 Plant
This premium continuous plant utilizes separate drying and mixing processes. That approach offers big advantages in terms of dosing quality, production flexibility and lowered emissions.

The plant’s patented Zero Waste System prevents tons of mix from being scrapped at the start and end of each shift.

The Ammann ACP ContiMix 2.0 is equipped with the second generation of the RAH50 dryer/drum. The RAH50 is the most advanced dryer in the world, and Ammann owns three patents associated with it.

Ammann ABC SolidBatch Plant
This product line includes three new towers with capacities of 100 ton/hour, 260 ton/hour, and 340 ton/hour. These classic batch plants have a cold recycling system that can handle up to 40% RAP.

The strength of the Ammann ABC SolidBatch series is its low initial cost combined with high standard proposition, always with the high Ammann product quality and performances, ensuring customers get the best value proposal plant their business needs.

Retrofits
Ammann showcased its ability to retrofit technologies on plants provided by both Ammann and its competitors. Also highlighted at the show was the as1 Control System, which continues to maintain its stature as an industry leader for asphalt, concrete, and gravel plants.

While the announcements represent great strides, they are not Ammann's first green undertakings. And certainly not the last.

"These new solutions are big steps, but we strive each and every day to provide our customers with sustainability that improves the world around us – and profitability that makes their businesses viable," Ferrini said.

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About Ammann

Ammann is a sixth generation, family-owned business that produces asphalt and concrete mixing plants, compactors and asphalt pavers at nine production sites in Europe, China, India and Brazil. Its core expertise is roadbuilding and transportation infrastructure. Visit ammann.com for company-related information.