

Media Release Ammann Group

AMMANN UNVEILS EMISSIONS BREAKTHROUGHS

LANGENTHAL, Switzerland – Ammann is connecting previous sustainability successes to the next generation with its Green Plant initiative.

“It’s a renewed commitment, with an added sense of urgency, to make asphalt production more environmentally friendly,” Andreas Aeberhard (Executive Vice President) said.

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

“Together, the three minimise or eliminate emissions at every stage of asphalt production,” Mr. Aeberhard said. “Unveiling one of these technologies would be a significant event. Unveiling three represents enormous progress.”

The Green Plant initiative incorporates past sustainable cornerstones, such as the company’s industry-leading recycling processes.

H2 Hydrogen Burner

The Ammann H2 is the first asphalt-mixing plant burner on the market capable of utilising 100% hydrogen. “Burning 100% hydrogen eliminates *all* CO₂ emissions associated with the burner,” Matthias Halter (Head of Sales) said.

Asphalt burners heat the aggregates needed to produce asphalt mix. Creating this heat previously required the use of fossil fuels – and resulted in emissions, including both CO₂ and odours.

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.

Many Ammann burners currently on the market can use a combination of hydrogen and natural gas, but those configurations still lead to emissions. The H2 is capable of utilising 100% hydrogen – and burning other fuels if desired. No adjustments are needed.

VOC Reduction Device (VRD)

A new, advanced filtration system from Ammann is able to remove a significant level of emissions – and clean itself, too.

The VRD reduces volatile organic compounds (VOCs), odours 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 are spent on filter replacements. Plant uptime is optimised 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.

Blue Smoke Treatment (BST)

BST dramatically decreases the emissions that result while loading asphalt mix to trucks. It doesn't require expensive 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.

"In addition to sustainable benefits, we expect it to simplify the process for obtaining permits and improve relations with neighbors," Marzio Ferrini (Head of Product Marketing) said. "It's important to remember that BST removes fumes that are *visible*. The air won't just *be* cleaner. It will *look* cleaner and *smell* cleaner."

UPDATED ASPHALT-MIXING PLANTS

Ammann also announced it has expanded its asphalt-plant product offerings. The plants will be able to leverage the new green technologies.

Ammann ABA UniBatch Plant

This is an advanced plant with two new capacities: optimized new proposal for 140 tons per hour and 400 tons per hour.

The Ammann ABA UniBatch offers many levels of recycling. It can benefit from the highly advanced recycling technologies developed in the AMMANN world, up to even 100% RAP of the RAH100.

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

Ammann ACP ContiMix 2.0 Plant

The premium continuous plant utilises 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 technologically advanced dryer in the world, and Ammann owns three patents associated with it.

Ammann ABC SolidBatch Plant

The product line includes three new towers with capacities of 100 tons per hour, 260 tons per hour, and 340 tons per hour. These classic batch plants have a cold recycling system that can utilise up to 40% RAP.

The strength of the Ammann ABC SolidBatch series is its low initial cost and the large number of modules to choose from, ensuring customers get the exact AMMANN quality asphalt plant their business needs.

AMMANN GREEN DAYS

Ammann featured all the new products at Ammann Green Days, held in Verona, Italy, in October.

“We stood in front of customers and reinforced our commitment to invest in new technologies, anticipate market needs and navigate future environmental challenges,” Mario Carlotto (General Manager) said.

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.

CONNECTING PAST AND PRESENT

While the announcements represent great strides, they are not Ammann’s first green undertakings.

Ammann can trace its sustainable roots to 1908, when it was granted a patent for a macadam machine. The machine used a revolutionary technology to eliminate an emerging health hazard – dust kicked up by automobiles.

The environmental efforts continue across all Ammann plants and machines.

- ☐ Light equipment is powered by electric drives and results in Zero Emissions.
- ☐ Compaction equipment is built to reach targets in the fewest possible passes, thereby minimising fuel burn and machine wear.
- ☐ eMissions, an environmentally friendly solution integrated into new Ammann machines, lowers emissions and incorporates efficiency, productivity and fewer maintenance demands.
- ☐ Pavers feature automation to optimise material usage.
- ☐ Ammann asphalt-and concrete-mixing plants leverage technology to enable production with extremely high percentages of recycled materials.

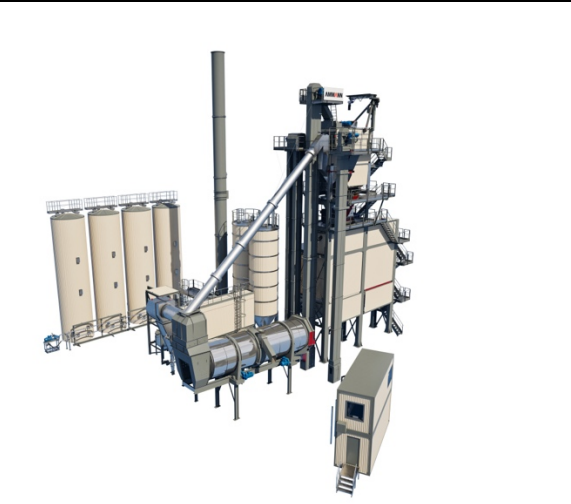
“There are many more past successes – and many more to come in the future,” said Andreas Aeberhard (Executive Vice President). “A common theme throughout Ammann’s history is the use of technology to improve the world around us. We have made significant progress but feel an urgency to accelerate our efforts in the interest of the global community.”



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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.