

DRUM MIX ASPHALT PLANTS

# ACC ALPINE

PERFORMANCE  
AND RELIABILITY



**READY FOR TODAY AND TOMORROW**  
EASY UPDATES THROUGH SMART DESIGN

**AMMANN**

# ALPINE SERIES 300 TO 600

PERFORMANCE AND RELIABILITY  
CONVERGE TO MAXIMIZE RESULTS.

The Alpine series enables HMA producers to maximize high total production of recycled asphalt pavement (RAP) content without sacrificing mix quality, utilizing Ammann's industry-leading controls and technologies. The Alpine series control system is extremely intuitive and allows tracking and analyzing plant operating data in real time to provide opportunities to gain further efficiencies over competitive equipment.

Our plants produce high-quality mix designs, including high recycled product (RAP) mix designs with typical rates of 50% standard and 60% via dual collar feed. The extended mix section of the drum allows for better heat transfer to the material and longer mixing time. The 60% RAP capabilities give the Ali market leading RAP content at the highest consistent quality.

The Alpine series plants core components are also capable of seamless integration into your existing asphalt facilities for retrofit and upgrade needs.





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# WIDE RANGE OF ASPHALT PLANTS













CONSISTENT FROM START TO FINISH.

All plant processes and components are carefully developed to ensure that feeding, heating, drying, screening and mixing seamlessly blend together. Helping integrate all the moving parts is the Alpine Control System, which provides leading technology with a user-friendly interface.

Ammann has had a presence in the asphalt plant industry for more than 100 years – before the advent of today’s technology. To this day all core components are engineered and manufactured to create a perfect fit and ultimately provide high quality, efficiency, and long life.

A century of industry expertise, ensures an understanding of your business and the development of plants for real-world solutions.

## CONTINUOUS PORTFOLIO

		T/H	60	90	100	120	140	180	200	210	260	300	400	500	600
<b>ALPINE</b>	60%														
<b>CONTIHRT</b>	60%														
<b>PRIME</b>	40%														
<b>COUNTERMIX</b>	30%														

## BATCH PORTFOLIO

		T/H	80	90	100	120	140	150	160	180	210	240	260	300	320	340	400
<b>HRT</b>	100%																
<b>UNIBATCH</b>	100%																
<b>SPEEDYBATCH</b>	60%																

# ALPINE PLANT PERFORMANCE



Learn more



TYPE

PLANT PRODUCTION  
AT 5% MOISTURE

DRYER DRUM  
[FT]

BURNER  
[MMBTU/HR]

BAGHOUSE  
[SCFM]

ASPHALT  
STORAGE SILOS  
[TON]

RAP ADDITION  
AT 3% MOISTURE

TYPE	PLANT PRODUCTION AT 5% MOISTURE	DRYER DRUM [FT]	BURNER [MMBTU/HR]	BAGHOUSE [SCFM]	ASPHALT STORAGE SILOS [TON]	RAP ADDITION AT 3% MOISTURE
<b>RELOCATABLE/ STATIONARY</b>	300	8.5 Ø × 50	100	65 000	150 – 300 with 2-6 ton batcher	UP TO 50% SINGLE COLLAR FEED  UP TO 60% DUAL COLLAR FEED fractionate RAP into both collars
	400	9.5 Ø × 50	125	75 000		
	500	10.5 Ø × 50	150	95 000		
	600	11.5 Ø × 50	175	110 000		
<b>PORTABLE</b>	300	8.5 Ø – 50	100	65 000	50 – 80 portable	
	400	9.5 Ø – 50	125	75 000		

# ALPINE: ADVANTAGE OVER ALL OTHERS

HIGH-CAPACITY PRODUCTION, EFFICIENT AND RELIABLE PERFORMANCE, QUALITY AND TRANSPARENCY ARE THE CORNERSTONES OF OUR CUSTOMER COMMITMENT.

## WHY AN ASPHALT PLANT FROM AMMANN?

- Tailored to customer needs
- Maximized RAP usage
- Single Drum design with extended mixing section
- Cutting-edge control systems to enhance plant operation
- Modular design allows for customized plant solutions
- Ongoing access to innovative technology improvements



**ENVIRONMENTAL  
PERFORMANCE**



**TRANSPORTATION  
& ERECTION**

- Designed with features to optimized transportation and erection cost
- Components are prewired in conduit at the factory for ease of field installation
- Packaging and shipping solutions to streamline jobsite management
- Easy erection procedures



## CUSTOMER EXPERIENCE

- Ongoing partnership with customers to continually improve product design and support
- Single point of contact with an Ammann Project Manager during project lifecycle.
- Detailed specifications and proposals



## INNOVATION & TECHNOLOGY

- Predictive Maintenance Solutions
- Advanced Automation and Control System
- Digital planning, control and documentation of construction project
- Focused on use of alternative fuels and reducing plant emissions

- Noise reduction solutions such as oil bath, silencers and direct drive motors
- VFDs are available for all motors to optimized operating efficiency cost
- Sealed transfer and slat conveyors
- Blue smoke capture systems
- Warm mix systems



## OPERATIONAL EFFICIENCY

- Full insulation of drums, baghouses, and storage silos
- Extensive use of direct drive motors and variable frequency drives
- Optimized thermal efficiency



## MAINTENANCE & SAFETY

- Arc flash compliant MCC
- Equipment compliant with latest OSHA, UL and CSA requirements
- Wear liners at heavy wear points
- Easy maintenance and serviceability
- Ammlube automated lubrication system

# THE AMMANN DIFFERENCE

## CUSTOMER EXPERIENCE

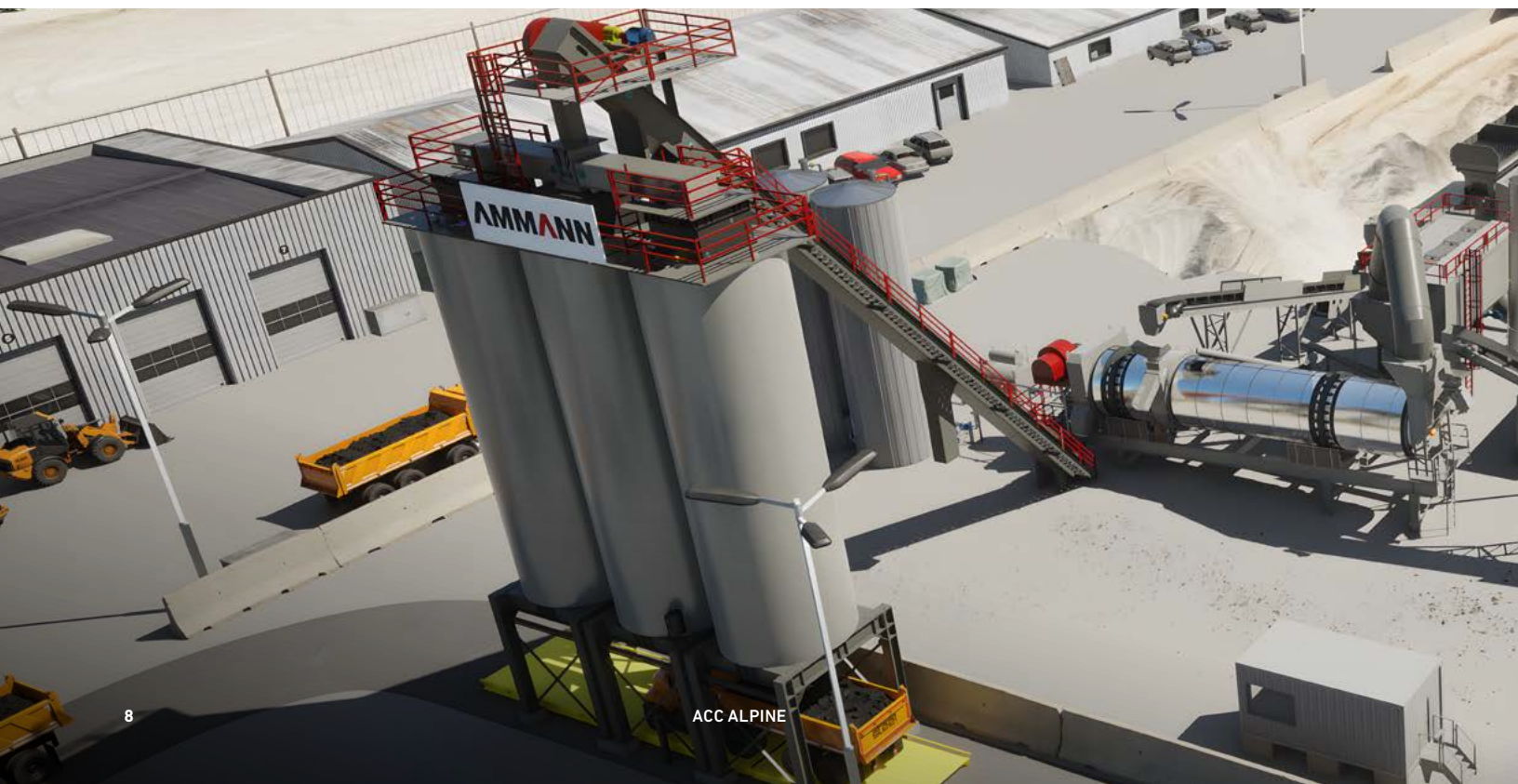
Ammann is highly focused on providing our customers with the best possible experience.

- Ammann strives to provide detailed, informative cost proposals and transparent, easy to understand contracts. We want our customers to know exactly what they are purchasing and what they can expect.
- Ammann assigns a Project Manager to every project. This individual is responsible for managing the project from inception through the sales cycle, engineering design, fabrication, delivery, installation, start-up, and operation through to completion of the warranty period.
- Ammann takes our customer partnerships very seriously. We work within these partnerships to continually improve the design and support of our products and the customer experience.

## INNOVATION

Innovation has been a core value at Ammann since the company founding in 1869. We firmly believe that innovation is a true market differentiator for Ammann. A few examples of our current generation of innovative customer solutions:

- Advanced automation and control systems that are continually evolving to meet the needs of our customers and to take advantage of the latest technology developments.
- Our software provides information on asphalt production energy efficiency for single or multi-plant operations and offers best-in-class digital planning, control, and documentation of construction projects. This software can manage digital product information from the point of sale through to confirming that the pavement meets end-user specifications.
- Ammann has robust internal research and development teams. Current areas of focus include advanced process automation, use of alternative fuels such as hydrogen, and reducing plant emissions.

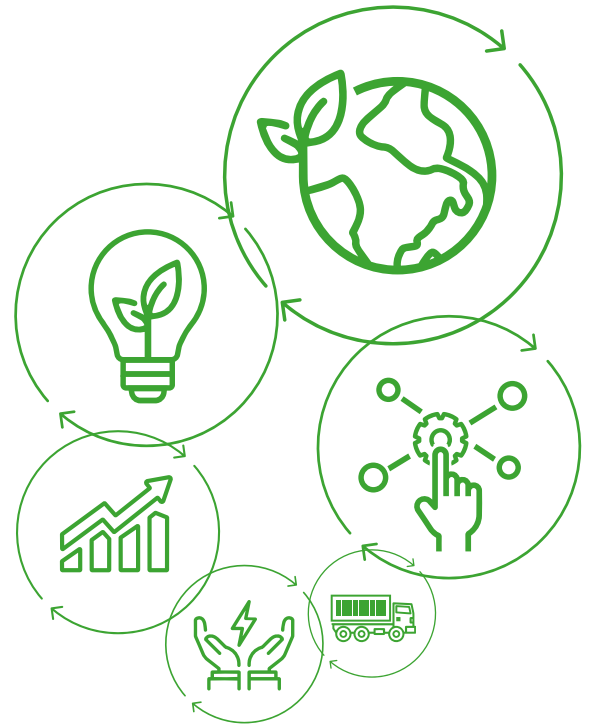




# ENVIRONMENTAL PERFORMANCE

Environmental performance and stewardship are becoming ever more important to the hot mix industry. Some of the elements we have integrated into the design of the Alpine plant include:

- Baghouse with built-in primary separator option designed to meet the most stringent particulate matter emission limits.
- Enclosed slat conveyor drive chain in oil bath to reduce noise and decrease wear.
- Sealed transfer slat and transfer conveyors to reduce air pollution.
- Blue smoke capture and control systems for material handling and storage systems (top and bottom of silo).
- Low NOX and Ultra-low NOX burner option.
- Wide range of fugitive dust reduction systems



▶▶ REDUCING YOUR  
TOTAL COST  
OF OWNERSHIP  
AND BOOSTING  
YOUR PROFIT. ▶▶

# FEED BINS & CONVEYOR SYSTEMS

- Aggregate and recycle feed bins are customizable, and easy to erect, maintain and calibrate. Steep sloped bin walls ensure consistent flow with no bridging of material.
- Bin extensions, bin dividers, and larger bin models available for increased capacity.
- Precise metering through volumetric control with variable frequency drive and direct drive motors.
- Troughed vulcanized feeder belts standard.
- Collector conveyor frame made from beam for increased support.
- Optional items include vibrators, walkways, bulkheads, level sensors, liners and grizzlies.
- Single or double deck vibrating screen available in various sizes to fit customer needs.
- Dual weigh idlers with wind guard and gravity take up system on all scale conveyors.
- Scale conveyor frame made from beam for increased support and accuracy.
- Optional items include walkways, covers, wear liners in screen hopper, bypass on screen, and vulcanized belting available.

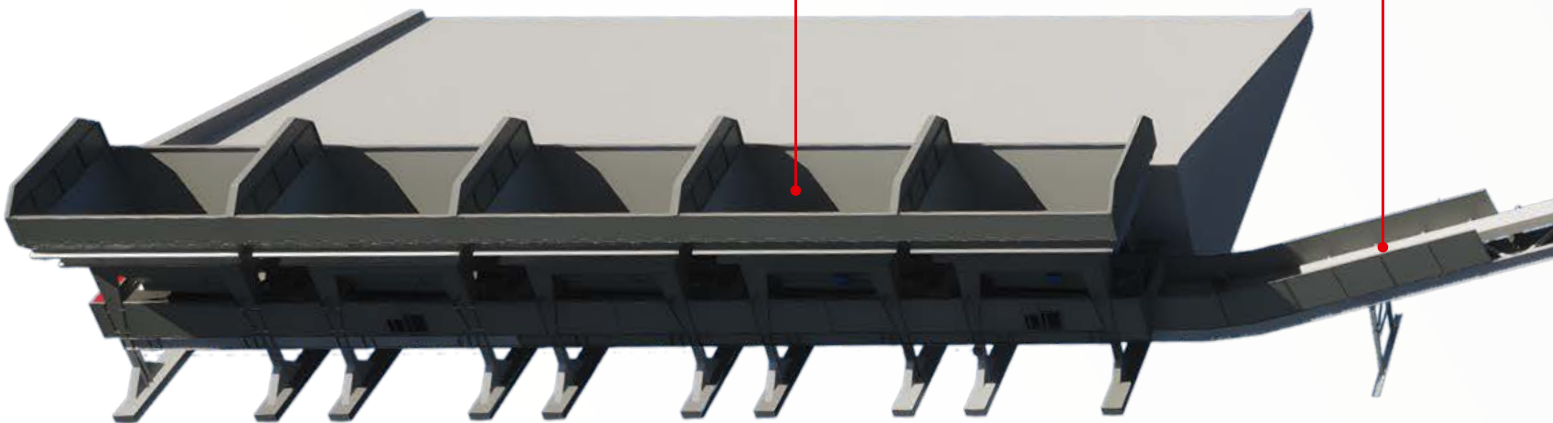
## COLD FEED BINS

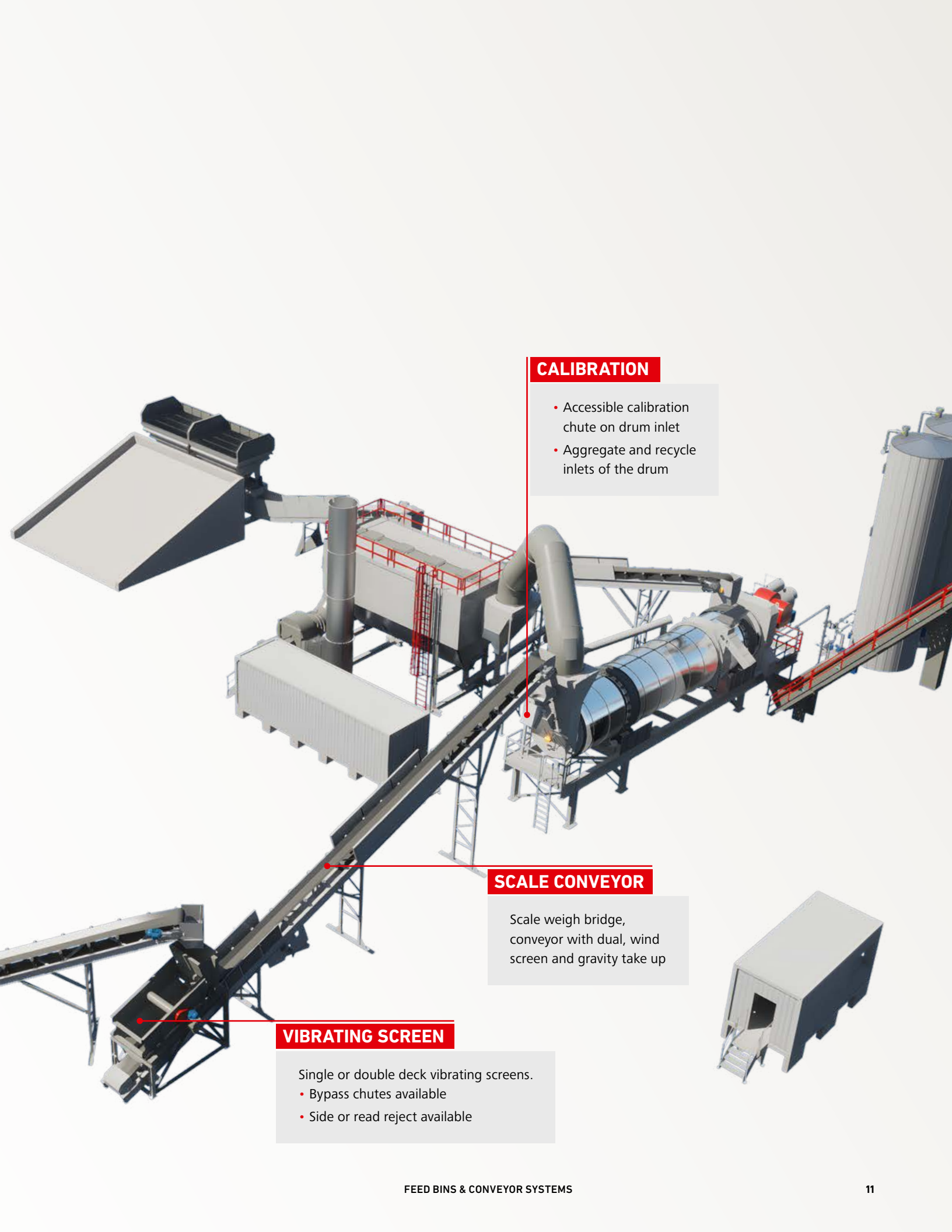
Modular bins with expandable capacity available add-ons:

- Vibrators
- Air cannon (RAP)
- Extensions
- Wear liners
- Bulkheads

## COLLECTOR CONVEYOR

- Modular to meet required discharge heights
- Conveyor coverage as option





### CALIBRATION

- Accessible calibration chute on drum inlet
- Aggregate and recycle inlets of the drum

### SCALE CONVEYOR

Scale weigh bridge, conveyor with dual, wind screen and gravity take up

### VIBRATING SCREEN

- Single or double deck vibrating screens.
- Bypass chutes available
  - Side or rear reject available

# DRUM MIXER & BURNER

THE AMMANN ALPINE SERIES COMBINES COUNTER-FLOW DRUM MIX DESIGN WITH AMMANN INNOVATIVE TECHNOLOGY TO ACHIEVE HIGH-QUALITY MIX.

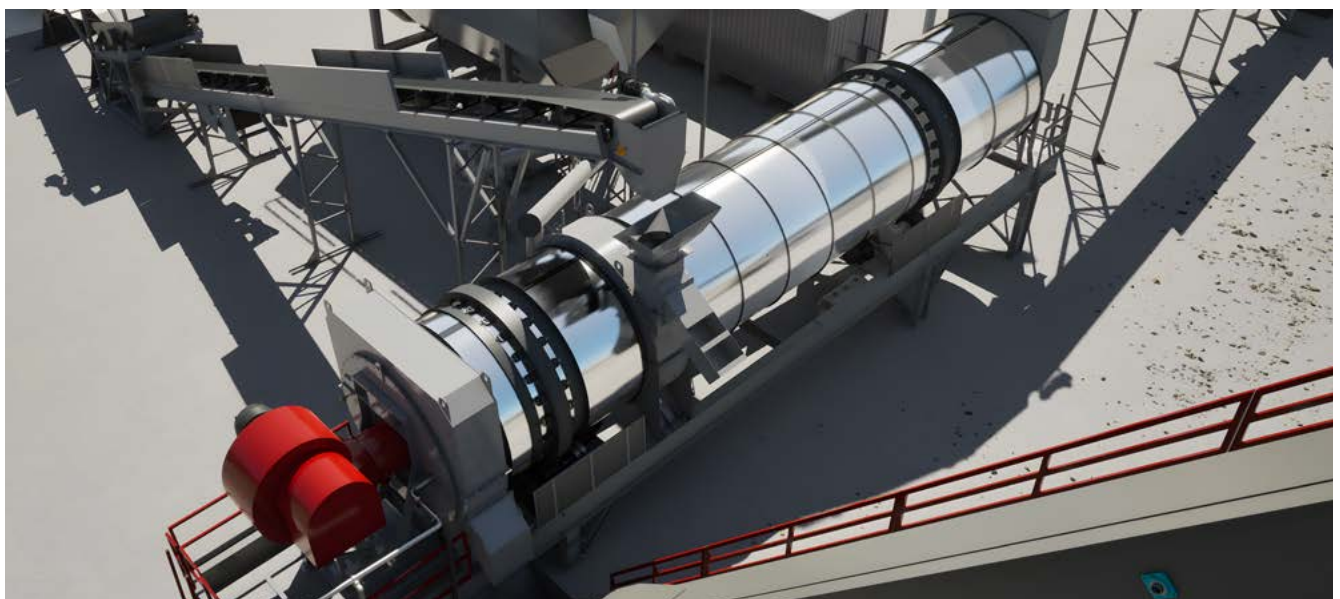
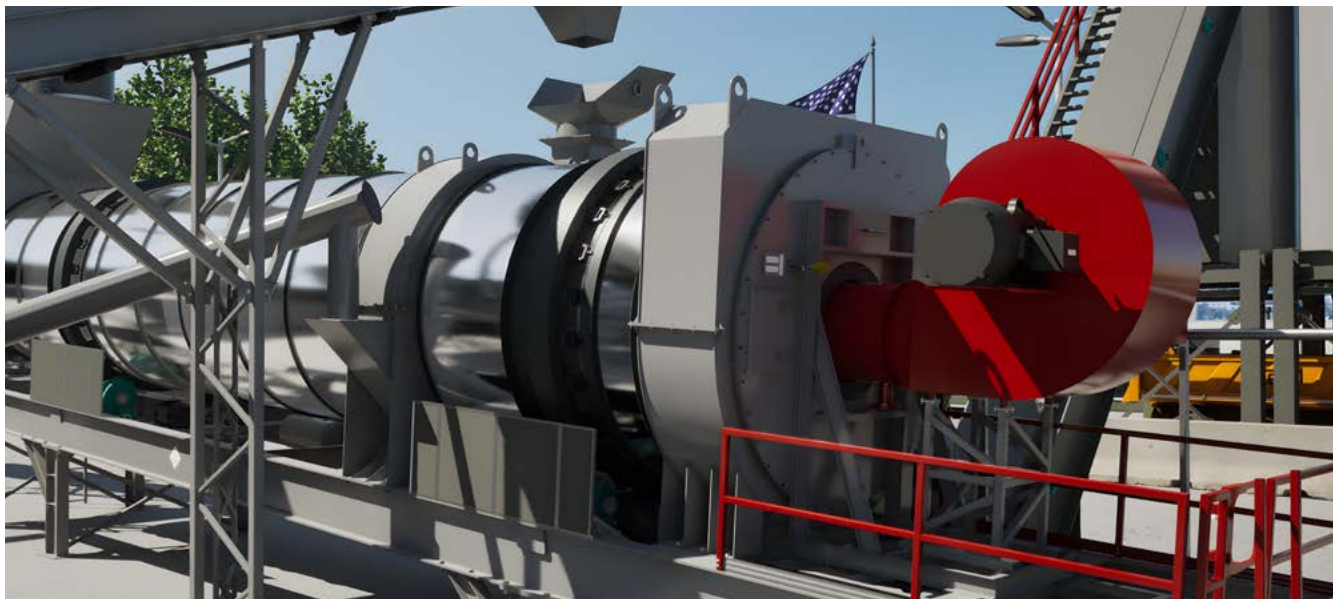
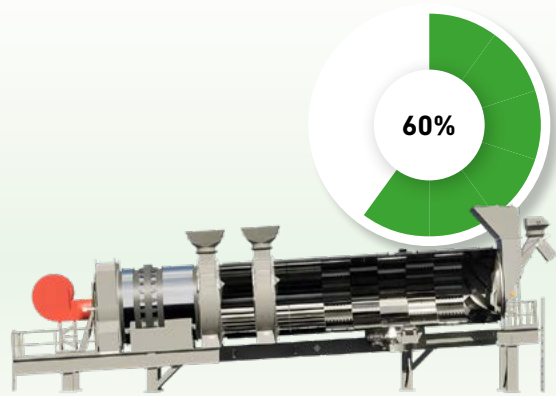
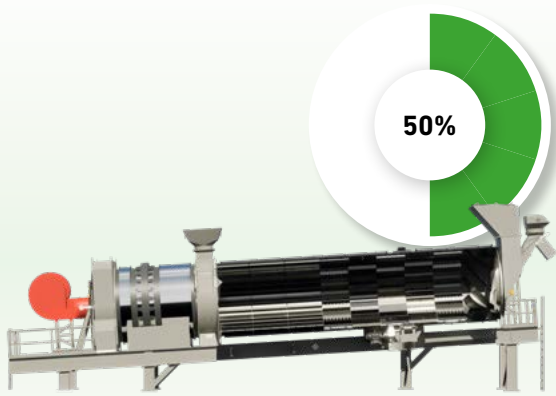
## AMMANN DRUM MIX & BURNER ADVANTAGES

- Counter-Flow drum design with four independent trunnion drives for new and retrofit applications.
- Large diameter shells, made of A572 grade 60 steel, to reduce air and particulate carry out.
- Insulated drum to reduce heat loss and fuel consumption.
- Optimized flight packages combined with 14 ft wet mixing section for uniform mix design. 2nd collar offers 20ft of total mix section.
- Mechanical sealed breaching and collar(s), eliminating the need for rubber seals.
- Amdurit lined inlet and discharge chutes for maximum wear resistance.
- Optional items such as flight wear liner package, VFD's, railroad bearings, increased shell thickness, water injection system and 2nd RAP collar for extended mixing.
- Ammann Foam® integrated to produce WMA.

## ALPINE INDUSTRIAL BURNERS

- Total air burners with Multi-fuel firing with up to three fuel types for maximum flexibility.
- Low NOx and Ultra Low NOx burners available.
- Variable Frequency Drive standard. Dampers optional.
- Safety systems meet regulations in all US States and Canada. UL/CSA Compliant.

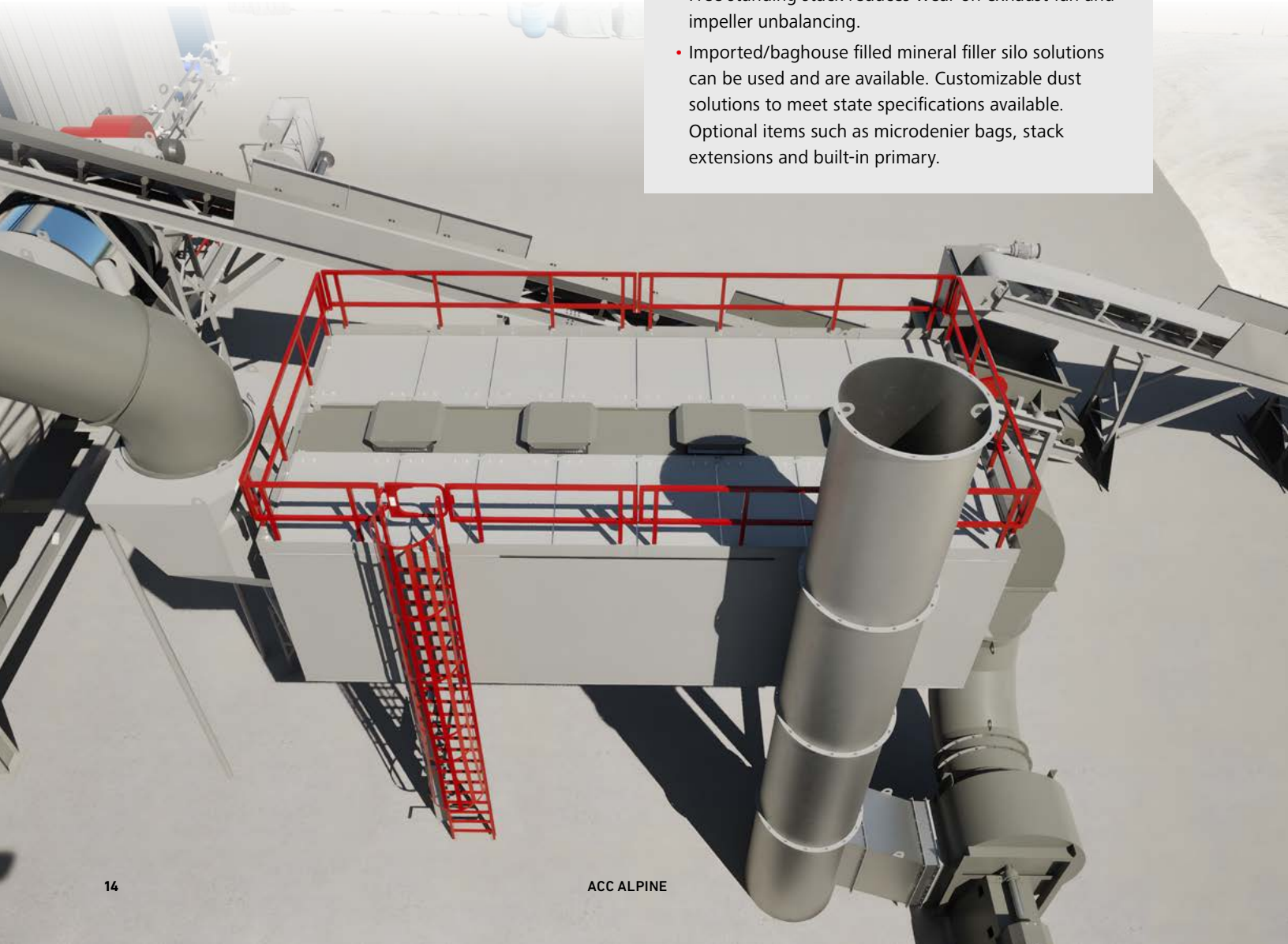




# BAGHOUSE- DUST RETURN SYSTEM

## BAGHOUSE FILTER

- Reverse air baghouse design that gently cleans the filter bags, greatly reducing wear when compared to pulse jet systems.
- Filtration Efficiency of 99.9% ensures compliance even with the strictest emissions standards.
- Direct drive exhaust fan reduces moving parts, power consumption, and eliminates slippage of belts and unbalancing of the fan. VFD standard with damper optional.
- Bag section and hopper section fully insulated.
- Clean air section made of corrosion resistant COR-TEN and stainless-steel material.
- The baghouse and built-in primary designs have undergone rigorous simulation analysis to reduce temperature and pressure losses and maximizing capabilities and minimizing operational costs.
- Coarse and fine dust are separated via optional built in pre-separating primary ensuring high percentage return of heavy (+200 mesh) dust.
- Free standing stack reduces wear on exhaust fan and impeller unbalancing.
- Imported/baghouse filled mineral filler silo solutions can be used and are available. Customizable dust solutions to meet state specifications available. Optional items such as microdenier bags, stack extensions and built-in primary.



# ASPHALT STORAGE SILO

- Efficient and cost-effective asphalt storage solutions with capacities ranging from 200 to 300 tons, enabling a continuous high production process without time-consuming and costly starts and stops.
- Steep 60-degree silo cone for effective material flow, cone made from AR-225 with various wear liner options.
- Radar level indicators, and electrically heated cone and gate, standard.
- Modular split feed anti-segregation batcher makes the silo easy to adapt to customer needs.
- Drag-Slat constructed with cambered beam, OSHA access platform to head-shaft and stairs on one or both sides available. Chain driven head shaft with oil bath standard to reduce noise.
- Top of Silo Transfer conveyors are customized to lengths and angles to fit customer needs.
- Transfer and slat conveyors are lined, electrically heated and insulated, standard.
- Optional items such as long-term storage silo upgrades, walkways, top and bottom blue

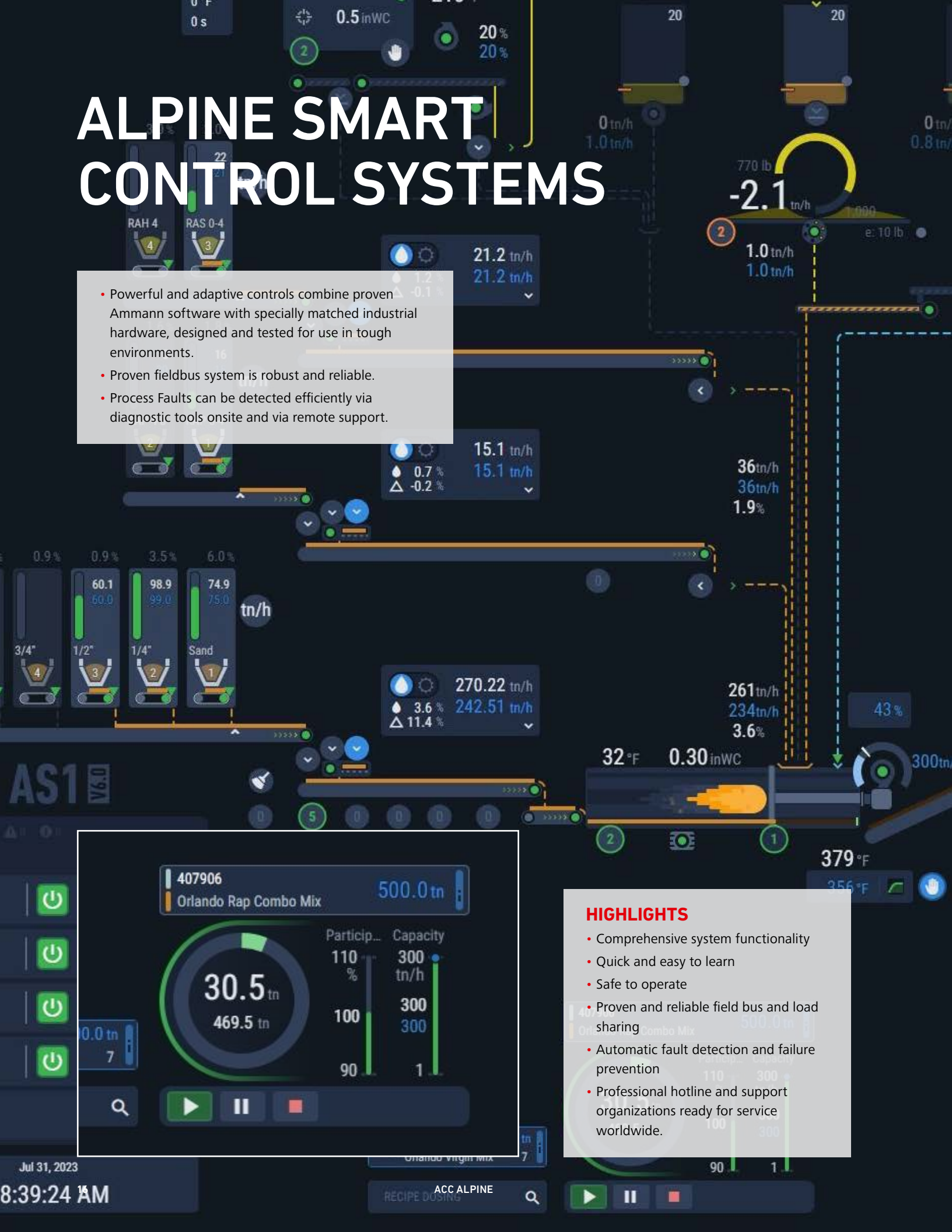


# ALPINE SMART CONTROL SYSTEMS

- Powerful and adaptive controls combine proven Ammann software with specially matched industrial hardware, designed and tested for use in tough environments.
- Proven fieldbus system is robust and reliable.
- Process Faults can be detected efficiently via diagnostic tools onsite and via remote support.

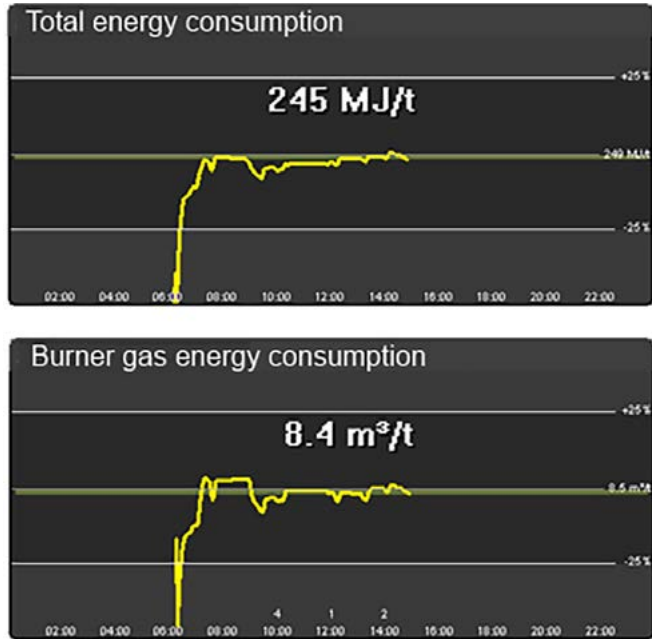
## HIGHLIGHTS

- Comprehensive system functionality
- Quick and easy to learn
- Safe to operate
- Proven and reliable field bus and load sharing
- Automatic fault detection and failure prevention
- Professional hotline and support organizations ready for service worldwide.





# ECOVIEW



## ENERGY EFFICIENCY MADE VISIBLE

The additional module EcoView shows how efficiently your operators are running the plant. The operating data is continuously recorded and presented in condensed form to the operator.

The EcoView module informs in a simple way about the energy consumption and the according CO<sub>2</sub> emission values related to ton of produced mixed material. With the display compared with historical data or with explicitly defined target values, trends and actions may be recognized.

EcoView sensitizes and promotes an energy optimised operation of the mixing plant and helps to discover and eliminate energy waste.

### HIGHLIGHTS

- Intuitive operator display showing how efficient the plant runs
- Displays key values and enables comparison to reference values and previous periods
- Determines the emitted CO<sub>2</sub> values
- Determines the resulting energy costs

# PLANT INFORMATION POINT (PIP)



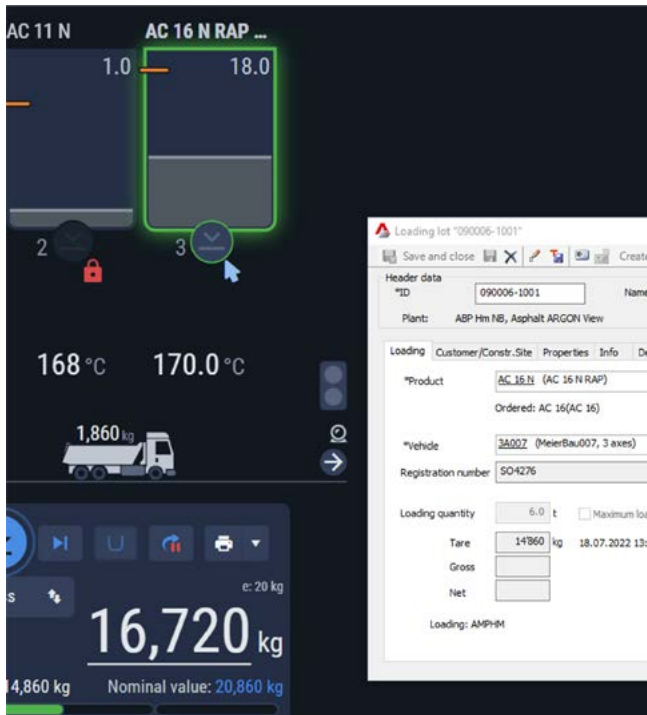
## STAY IN TOUCH WITH YOUR PLANT

With the as1 PIP you are always having the latest status from the plant on your mobile device, without calling your staff or going to the plant. It gives you access to the production protocols right at the construction site.

### HIGHLIGHTS

- Accessible via browser on desktop, tablet and smartphone
- See important status information
- Access to the production protocols

# LOADOUT SYSTEM



## AUTOMATIC DELIVERY NOTE GENERATION

The as1 truck weighing system can be used to create weighing orders, weigh vehicles, and create delivery notes. The delivery note data can be transferred electronically into the invoicing system by means of data transfer, which reduces the amount of administrative work considerably. The truck weighing system can be operated as a stand-alone system or it can be combined with the as1 loadout system and integrated into an as1 process control system. This enables valuable synergies to be utilised.

### HIGHLIGHTS

- Integrated master data handling
- Direct delivery note creation
- Integrated delivery statistics
- Fully integrated with as1 control system
- Reduction of administration costs thanks to electronic data transfer into the invoicing system
- Overload protection in combination with as1 loadout system





AMMANN

# AMMANN AFTER PLANT SALES

AMMANN IS COMMITTED TO SUPPORTING OUR CUSTOMERS THROUGH THE ENTIRE LIFECYCLE OF THE EQUIPMENT WE SELL, FROM PROJECT INCEPTION THROUGH TO FINAL DECOMMISSIONING OF THE EQUIPMENT MANY YEARS IN THE FUTURE.

We sell original parts, we support plant retrofits, and we provide on-going technical support and training as needed by our customers to ensure sustained, optimal system performance.

## **PARTS**

We can provide our customers with individual parts or parts “kits” so that, if a system component fails, a replacement is already available at the plant site.

## **RETROFIT AND REPLACEMENTS**

Ammann can provide customers with system additions or replacements such as replacement drum shells, replacement baghouses, replacement slat or transfer conveyors, and additional storage silos.

## **TECHNICAL SUPPORT TRAINING**

Ammann provides online, telephone and in-person technical support to our customers. Support is provided by Ammann America personnel based in the United States.

Ammann’s experts can provide operator training designed to meet the needs of individual customers. This training can be conducted at the customer site or at Ammann’s Technical Center.

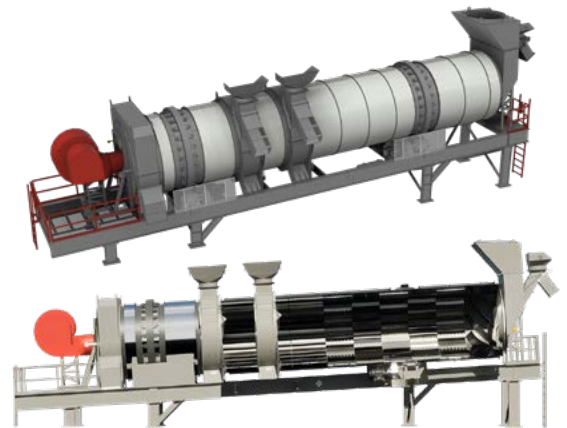


# WIDE RANGE OF OPTIONS

THE ALPINE SERIES PROVIDES THE FOUNDATION YOU NEED FOR QUALITY AND PRODUCTIVITY.

The plant can be further customized to ensure it is a perfect match for your specific needs:

- Addition of Shingles, Liquid Additives, Fiber Granulate and Foam bitumen
- Wide range of dust silos and association options including gravimetric filler feed
- Bitumen AD Tanks with Additional insulation, Unloading Pump and Tank to Tank pumping
- Catwalk, platforms, ladders, and stair OSHA approved and according to customer needs.
- Blue Smoke Systems adapted to specific customer requirements at jobsite
- Different RAP Additional solutions to fulfill customer needs.
- Wide range of RAP Solutions for Drum Mix Plants:
  - Drum-mix, single collar
  - Drum-mix, dual collar
  - Rotary mixer or Pugmill additions



## ALPINE AC TANK FARM

- Horizontal | Vertical
- Portable | Stationary
- Electrical | Thermal oil
- Fast Assembly of pre-planned pipe modules
- Safe filling with unloading station
- Low heat Loss due to professional insulation and heat system



## ADDITIVE SYSTEM

An Almost infinite variety of additives in use today for special hot, warm and cold mixes that enhance the performance, appearance and ecological footprint of asphalt mixes. Ammann plants come with a wide range of optional systems and Amman has a standardized and customized solution to handle any type of additive – whether in liquid, granular or powder form.

- Fibers (Loose or granular)
- Pigments (Loose, granular, bag addition)
- Rejuvenators (liquids of all viscosities and chemical properties)
- Waxes (granular or melted in the asphalt Cement)
- Process oils, Adhesives, Flux



# AMMANN WORLD PRESENCE

AN INNOVATIVE,  
SUSTAINABLE  
BUSINESS

Ammann is a world-leading supplier of hot mix asphalt plants, asphalt pavers, compaction equipment, concrete plants and equipment, automation and software solutions, parts, and services for the construction industry with core expertise in roadbuilding and transportation infrastructure. Founded in 1869, Ammann is a sixth generation, family-owned and family-run business.

Since our founding, we have been a leader in the paving industry thanks to countless innovations and solutions that are as competitive as they are dependable. True to our motto, "Productivity Partnership for a Lifetime," we are fully focused on the business needs of our customers around the globe. Over the past 150 years, Ammann has not only survived many extremely challenging geopolitical and economic events, but we have grown to be one of the world's largest suppliers of construction equipment for the roadbuilding industry through continued commitment to innovation, industry leadership and providing our customers with best-in class product and services.



**200+** AGENCIES & SALES PARTNERS

**20** REGIONAL SALES OFFICES & SUBSIDIARIES

**13** TRAINING CENTRES

**11** WAREHOUSES

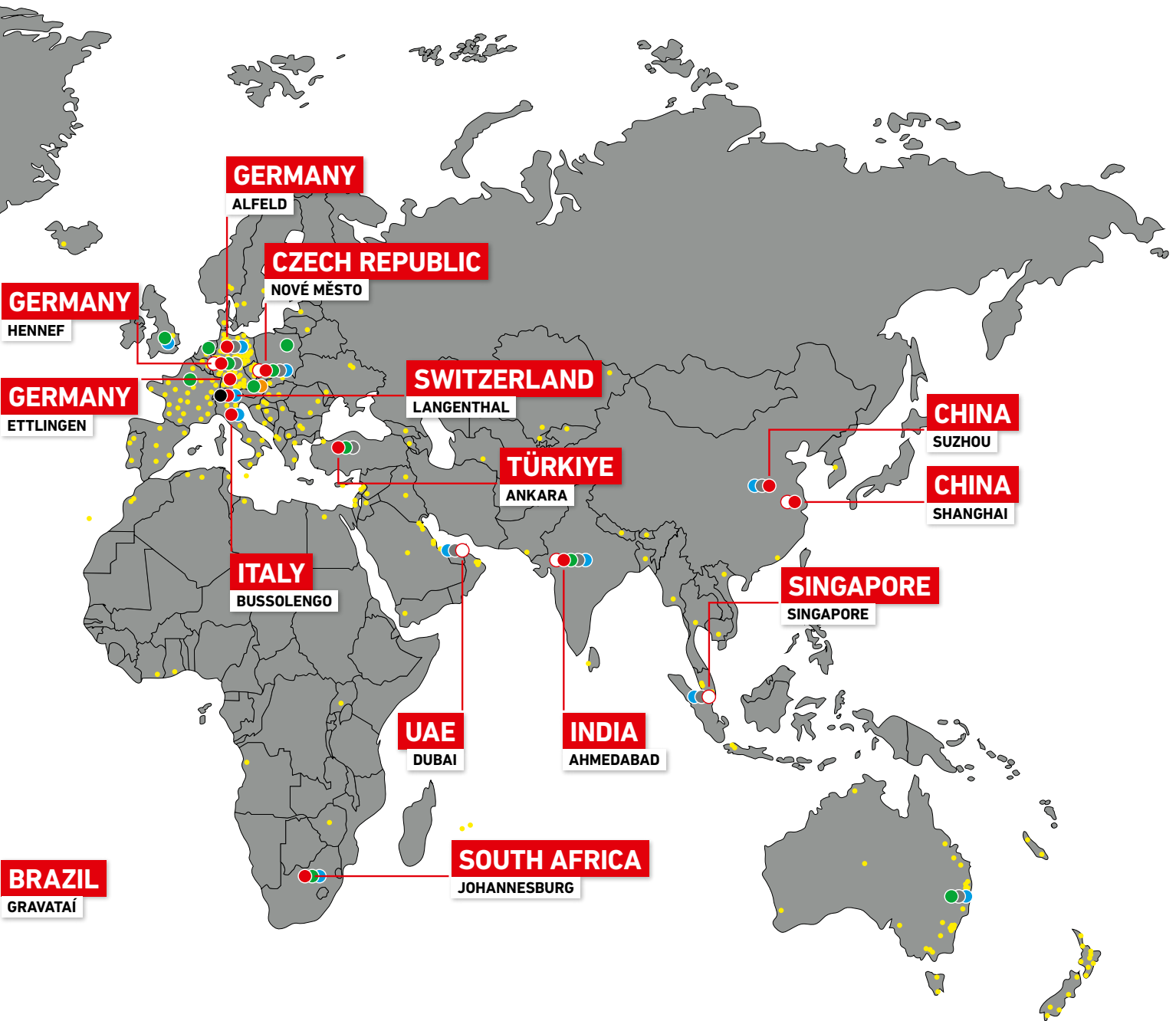
**12** MANUFACTURING FACILITIES & CENTRE OF COMPETENCE



**PLANTS**

ASPHALT-MIXING PLANTS

CONCRETE-MIXING PLANTS



**MACHINES**

- LIGHT COMPACTION
- SOIL & ASPHALT COMPACTION
- ASPHALT PAVERS
- ASPHALT RECYCLING

**GLOBAL DISTRIBUTION & SERVICE NETWORK**

- HEADQUARTERS
- REGIONAL SALES OFFICES
- SUBSIDIARIES
- AGENCIES & SALES PARTNERS
- MANUFACTURING FACILITIES & CENTER OF COMPETENCE
- GLOBAL RETROFIT CENTER
- WAREHOUSES
- TRAINING CENTER

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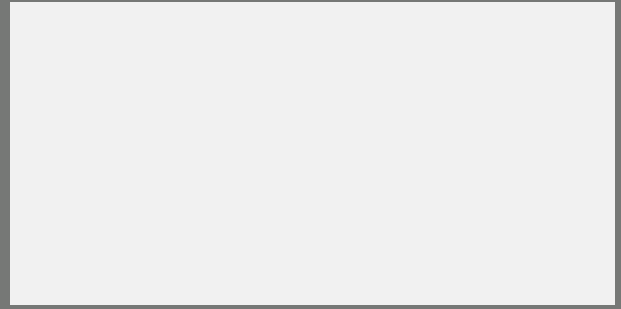
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For additional product information  
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**[www.ammann.com](http://www.ammann.com)**

