

CONTINUOUS PROCESS

ACP CONTIHRT

ASPHALT-MIXING PLANT
PREMIUM

150



**Years of
Innovation**
Since 1869

AMMANN

A CONTINUOUS RECYCLER

PREMIUM PLANTS OFFER MANY OPTIONS

The Ammann ACP ContiHRT meets the needs of customers who want a continuous asphalt-mixing plant with advanced recycling capabilities. The plant features a RAP dryer for the addition of warm recycled materials and a separate cold recycling feed. This enables the plant to develop mix consisting of up to 60% RAP – a rate unrivaled by other North American continuous plants.

HIGHLIGHTS

- Utilizes high percentages of RAP
- Delivers the productivity associated with continuous plants
- Provides high-quality mix, even when developing recipes with RAP
- Separates drying and mixing processes for development of complex designs
- Minimizes emissions through reduced fuel consumption

ACP CONTIHRT



ACP 300 CONTIHRT

CAPACITY: 330 tons/h 300 metric tons/h
MIXER SIZE: 4.4 tons 4 metric tons



ACP 400 CONTIHRT

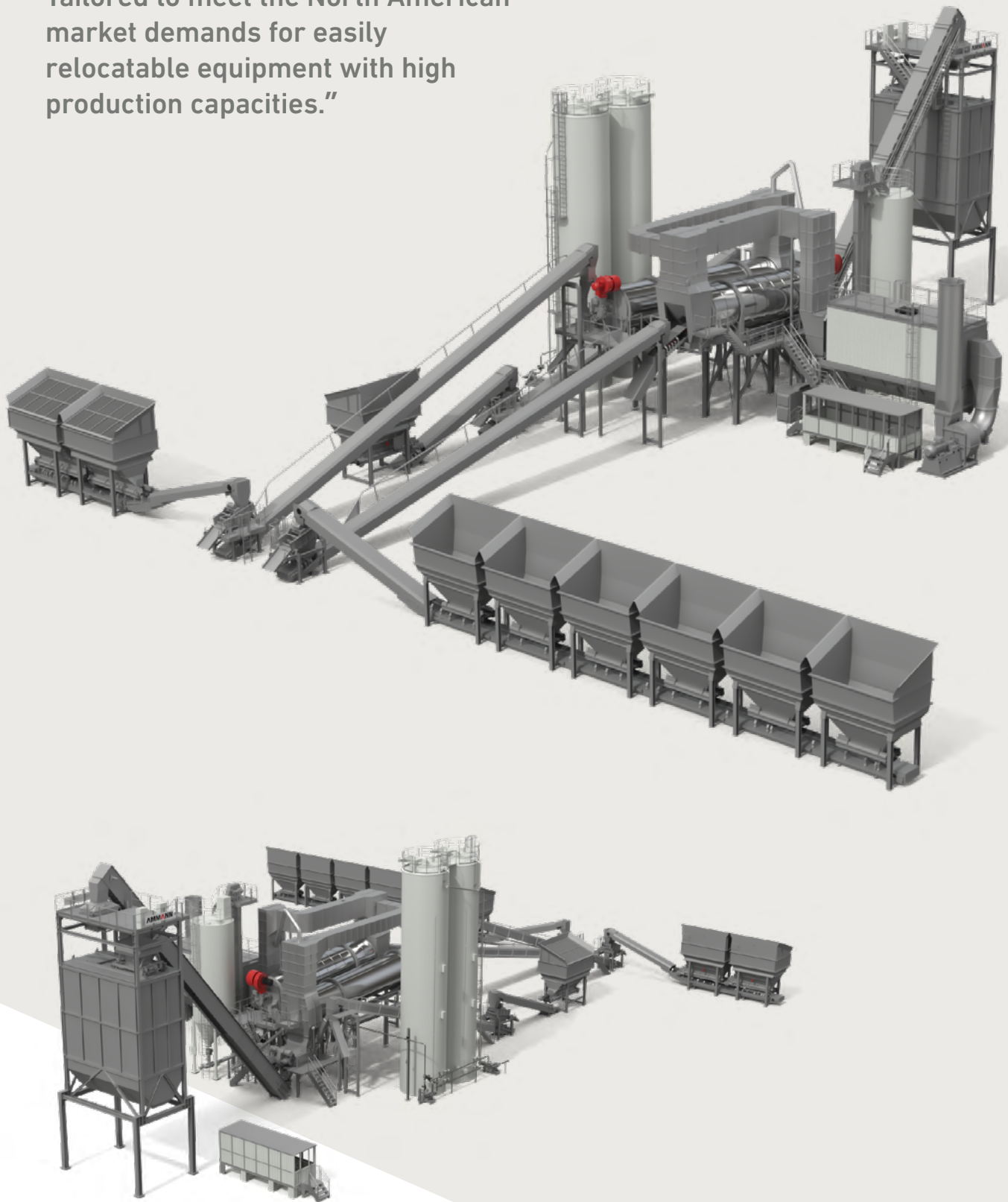
CAPACITY: 440 tons/h 400 metric tons/h
MIXER SIZE: 5.5 tons 5 metric tons



ACP 500 CONTIHRT

CAPACITY: 550 tons/h 500 Metric tons/h
MIXER SIZE: 6.6 tons 6 metric tons

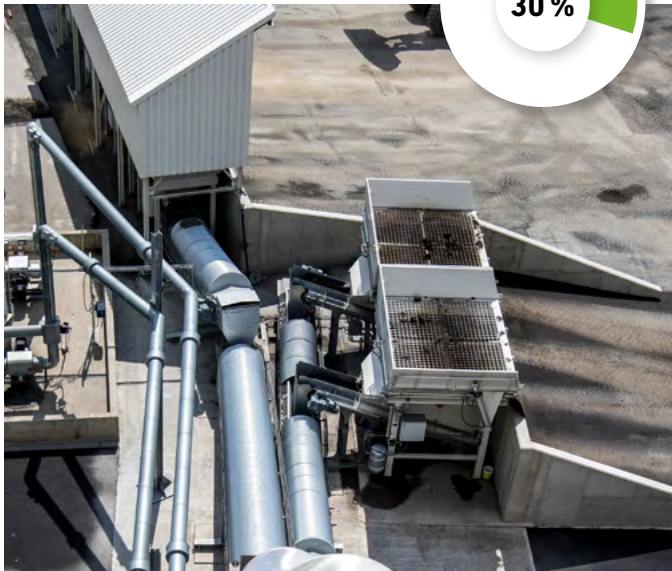
“ Tailored to meet the North American market demands for easily relocatable equipment with high production capacities.”



CUSTOM-MADE RECYCLING SOLUTIONS

The use of recycled asphalt (RAP) is a necessity today. Ammann offers custom-made recycling solutions that provide quality and productivity. The Ammann ACP ContiHRT utilizes a parallel RAH60 warm recycling system to develop mix with up to 60 % RAP. The plant has a separate cold recycling system for mixes with 30 % RAP. The systems can be operated simultaneously for maximum flexibility.

30 % COLD FEED INTO THE MIXER



BENEFITS

- Efficient evaporation of steam connected to the bag house
- Independent from rest of process

60 % HOT FEED IN RAH60 RECYCLING DRUM



BENEFITS

- High feed ratio
- Gentle heating
- Combinable with cold feed system

HIGHLIGHTS

- The HRT concept provides vertical delivery into the mixer to minimize conveying, sticking and wearing
- The plant delivers cost savings by using high percentages of a “waste material” instead of expensive aggregate
- The bitumen that coats the RAP is reused as well
- Transport costs of aggregate and bitumen are reduced
- Natural resources are preserved
- The need for expensive storage facilities is reduced or eliminated
- The heating process greatly minimises CO₂ emissions



MAINTAINING HIGH QUALITY

Utilizing RAP is only part of the equation. Your plant also must maintain the highest quality standards to ensure your customers are happy and their projects meet all specifications. The Ammann ACP ContiHRT provides that quality and productivity too. It does all this while providing sustainability benefits such as recycling and reduced emissions.

QUALITY AND LOW EMISSIONS

- Highest flexibility and performance with virgin aggregates and RAP additions of 30 % to 60 %
- Mixed in a twin-shaft Ammann Amix mixer for the highest quality
- Separate drying and mixing processes to ensure the highest quality and versatility – even with complex designs utilizing RAP and additives
- Minimal emissions because RAP, binder and additives do not face excessive dryer temperatures
- Optimized baghouse that features Ammann Heatpackage to minimize temperature loss and emissions
- Use of superheated aggregates prevents thermal stress on bitumen (RAH60).

PRODUCTION AND TRANSPORT

- Horizontal plant design ensures fast, easy assembly and disassembly
- Optional quick cabling and steel foundations allow even faster relocation
- Continuous production capacities of 330 tons, 440 or 550 tons (300, 400 or 500 metric tons) per hour deliver maximum performance for large projects

WIDE RANGE OF OPTIONS



The Ammann ACP ContiHRT 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.

- Cold feed system options, such as additional feeders, gravimetric dosing, vibrators and more
- Burner available for light oil, natural gas and LPG
- Addition of shingles, liquid additives, fiber granulate and foam bitumen
- Ready-mix silo: 330 tons (300 metric tons) in two compartments or 660 tons (600 metric tons) in four compartments, with or without long-term storage (other silo configurations upon request)
- Wide range of dust silos and associated options including gravimetric filler feed
- Bitumen (AC) tanks with additional insulation, filling pump and tank-to-tank pumping

SPECIFICATIONS

ACP CONTIHRT



PLANT TYPE *	300	400	500
CONTINUAL PLANT CAPACITY AT 5 % MOISTURE	330 tons/h 300 metric tons/h	440 tons/h 400 metric tons/h	550 tons/h 500 metric tons/h
RECYCLING SYSTEM	RAH60 (parallel flow)		
MAX. RECYCLING ADDITION	60 %		
NUMBER OF RECYCLING FEEDERS	As desired		
CONTENT RECYCLING FEEDERS	706 ft³ 20 m³		
TYPE RECYCLING DRYING DRUM	RT 25140	RT 29140	RT 32140
MAX. RECYCLING CAPACITY AT 3 % MOISTURE	198 tons/h 180 metric tons/h	264 tons/h 240 metric tons/h	330 tons/h 300 metric tons/h
BURNER RECYCLING DRUM POWER OUTPUT	40.9 million Btu/h 12 MW	54.6 million Btu/h 16 MW	68.2 million Btu/h 20 MW
FUELS	Natural gas, fuel oil extra light, liquid propane gas (LPG)		
BAGHOUSE CAPACITY	56,075 SCFM 90 000 Nm³/h	62,305 SCFM 100 000 Nm³/h	87,227 SCFM 140 000 Nm³/h
NUMBER OF COLD FEEDERS	As desired		
CONTENT COLD FEEDERS	706 ft³ 20 m³		
TYPE DRYING DRUM	T 27110	T 29120	T 32140
MAX. AGGREGATE DRYING CAPACITY AT 5 % MOISTURE	318 tons/h 289 metric tons/h	398 tons/h 361 metric tons/h	585 tons/h 532 metric tons/h
BURNER POWER OUTPUT	88.7 million Btu/h 26 MW	109 million Btu/h 32 MW	136.49 million Btu/h 40 MW
FUELS	Natural gas, fuel oil extra light, liquid propane gas (LPG)		
AGGREGATE SCALE	Weighing belt		
FILLER SCALE	Weighing screws (optional)		
BITUMEN SCALE	Coriolis massflow system		
TYPE MIXER	Amix twin-shaft paddle mixer with mix dwell time control for filling level		
MIXER SIZE / CONTENT	4.4 tons 4 metric tons	5.5 tons 5 metric tons	6.6 tons 6 metric tons
MAXIMUM MIXING CAPACITY	352 tons/h 320 metric tons/h	463 tons/h 420 metric tons/h	550 tons/h 500 metric tons/h
COLD RECYCLING ADDITION AT 3 % MOISTURE	Up to 30 % RAC addition directly into the mixer		
COLD RECYCLING SCALE	Weighing belt		
BINDING AGENT SUPPLY	E-Bit, vertical configurations, 26,420 U.S. gal, 30,380 U.S. gal, 39,630 U.S. gal, also divided tanks available. E-Bit, vertical configurations, 100 m³, 115 m³, 150 m³, also divided tanks available.		
FILLER SUPPLY	According to customer's wishes: filler silos in different desired configurations		
* Hot mix production capacity based on following conditions: 10 % bitumen and filler addition, input moisture of virgin aggregates 5 %, aggregate temperature increase 347 °F (175 K) and 0/2 fraction share max. 40 %.			

AMMANN CORE ELEMENTS

EVERYTHING FROM ONE SOURCE

Ammann premium asphalt-mixing plants utilize complex process engineering that requires perfect interaction between all individual components. So essential is this integration that Ammann engineers all core components, including drums, burners, filters, screens, controls and mixers in house. Doing so is the only way to guarantee that our plants will meet the demanding requirements and standards of the modern market environment. Ammann is currently the only manufacturer of asphalt-mixing plants to offer this single-source approach, establishing us as a professional partner to handle every aspect of your asphalt-mixing plant. We provide answers when you need them and keep an open mind in order to fully understand your needs.



BURNERS

Ammann burners feature proven technology and are highly reliable and productive. Robust, compact and energy-efficient burner designs minimise maintenance requirements and lessen fuel burn. The burners are electronically controlled, which enables self-diagnosis and, when required, triggers a default. A wide range of options is available.



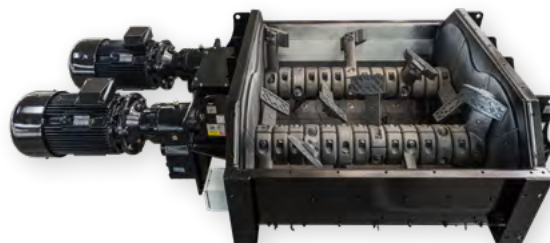
DRYERS

Ammann dryers have a very high combustion efficiency and reduced fuel consumption thanks to optimised internal architecture and outer Rockwool insulation. Four adjustable drives assure a smooth rotation. The dryer technology reduces wear and makes maintenance easy.



FILTERS

Flow is optimized through a highly technical analysis. The filters perform well from top to bottom and minimize service time. Ammatex filter bags offer high temperature resistance and eliminate the need for a fresh air damper. PTFE coating and seams create exceptional resistance and longer life. Improved thermal insulation contributes to the plant's efficiency.



MIXERS

Mixers are highly reliable with short mixing times. Maintenance is minimal and all components work seamlessly and efficiently because of Ammann's quality engineering. The operator-friendly mixers are an integral part of Ammann plants.

AS1 CONTROL SYSTEM

POWERFUL, RELIABLE AND PROVEN WORLDWIDE

The powerful and future-oriented as1 system concept combines proven Ammann software with specially matched industrial hardware. The as1 computing environment has been designed and tested for use in tough environments. Its networking capability also has been optimized. Customers profit from the flexible workstation configuration, networking and administration.

THE FIELD BUS SYSTEM

GUARANTEED FOR RELIABLE SIGNAL TRANSFER

The proven field bus system is robust and reliable under tough operation. Faults can be detected efficiently and rectified by means of the diagnostic tools, even via remote support.



THE POWER CABINET'S COMPONENTS DESIGNED FOR TOUGH, ROUND-THE-CLOCK OPERATION

The power cabinet's components have to withstand extreme stress 24 hours a day, which is why Ammann only uses tried-and-tested, globally available quality components from renowned manufacturers.

HIGHLIGHTS

- Comprehensive system functionality
- Quick and easy to learn
- Safe to operate
- Proven, reliable field bus and load-sharing
- Professional hotline and support organisations ready for service worldwide

HOTLINE AND SUPPORT PLANT AVAILABILITY ASSURED

Electromechanical faults can be quickly resolved by the customer's own personnel with the help of the electrical circuit diagrams and the as1 diagnostic tools. Ammann's knowledgeable customer service team staffs the hotline, which can be called for fault diagnosis or maintenance at any time. Modern telecommunications media increase the availability of the plant and reduce the need for costly on-site servicing.



AFTER SALES



COVERING ALL NEEDS

Contracted maintenance services and technician training provided by Ammann help protect your investment, while operator training ensures your team is able to utilise all the features and benefits built into your plant. When your needs change, Ammann offers retrofit options that can provide you with a good-as-new plant at a low cost.

PUT AMMANN EXPERTISE TO WORK

Ammann offers service packages that ensure all maintenance is current, making your plant efficient and also protecting it from premature wear that can result from poor service practices. A variety of technical service packages are available. Or, if you prefer, an Ammann representative can visit your plant and together you can develop a plan that perfectly fits your needs.

VALUE AND AVAILABILITY

Ammann parts provide the best value over the life of your plant. The parts are built to last and have a longer life than low-cost products on the market. Ammann parts also are a perfect fit for your plant, enabling other components to run more efficiently and last longer. Availability is another key Ammann focus. The Ammann logistics team recently overhauled stocking centres and processes to ensure the most essential parts are always nearby.

READY WHEN YOU ARE

Ammann experts are ready to assist you in emergency situations 24 hours a day, seven days a week. The customer hotline team is highly trained and experienced. Representatives can talk you through the challenges – in many different languages – with a remote connection to your system that will minimize the troubleshooting time.

TRAINING



FULFILL YOUR PLANT'S POTENTIAL WITH TRAINING

Your plant features components engineered for productivity and technology that can deliver benefits unheard of just a few years ago. Yet those components and that technology are only as good as the operator using them. How can you help operators make the most of the tools at their disposal? The answer is training.

WORLDWIDE TRAINING CENTRES

Ammann has more than 10 regional training centre locations around the world. Key teaching themes connect them all.

- A good balance. The centres combine a traditional classroom setting with hands-on experience, including the availability of plant components for maintenance lessons.
- Experiment without consequences. The as1 control system simulator provides operators with realistic scenarios without running the risk of wasting material or causing plant downtime. Operators can experiment and learn from their mistakes – without costly consequences to your operations.
- Learn from peers. Operators from other facilities attend the training. Participants say the conversations with their peers – and learning how they overcome challenges – is another key benefit.
- Learn in your language. Lessons are taught in many languages, ensuring your team understands key terms and lessons and makes the most of your investment.

In addition, Ammann experts can customize a curriculum for your needs and work with operators and managers at your facility. The advantages include hands-on experience with your equipment and the ability to involve more of your staff than would likely be sent to a regional training centre. Choose from the Ammann training modules.

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For additional product information
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