

Prime 140 t/h

Flexible, pure and simple: The continuous mixing plant

Top mobility guaranteed

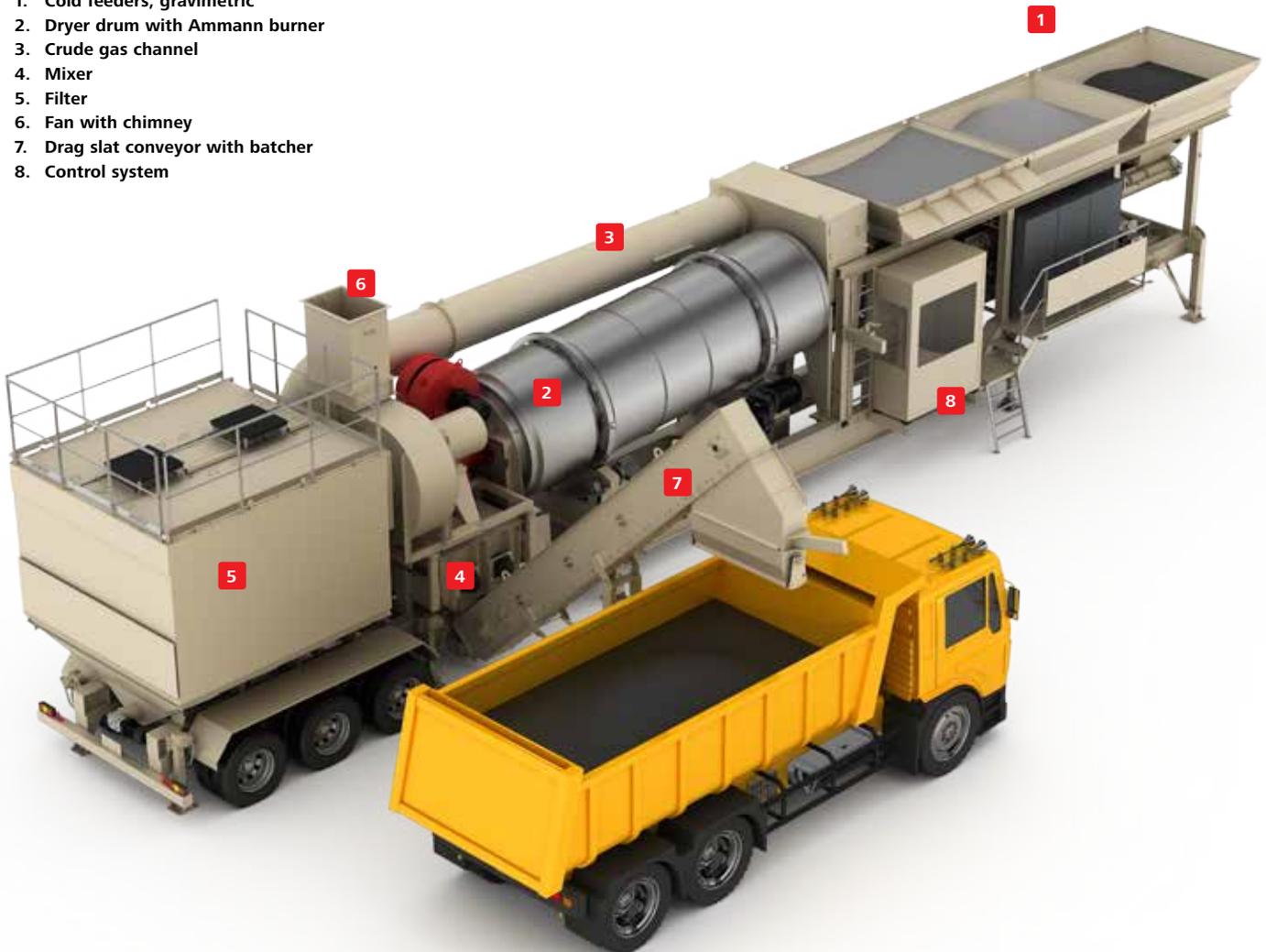
Prime 140 is the highly mobile version of Ammann's very successful continuous asphalt mixing plants. It was developed specifically for markets where high mobility is in demand. All continuous asphalt mixing plants from Ammann are equipped with a continuously running two-shaft paddle mixer, and the Prime 140 is no exception. One of its special features is a controllable outlet gate that enables the filling height and therefore the mixing time to be set depending on recipe and output. The outlet gate also drastically reduces losses during start-up and shut-down of production.

Benefits at a glance

- Highly mobile, compact continuous asphalt mixing plant
- Produces high-quality asphalt thanks to the clear separation of the drying and mixing processes
- Additives, fibres, Ammann Foam etc., can be added optional far away from the heat source
- Adjustable mixing time according to recipe and capacity

Legend

1. Cold feeders, gravimetric
2. Dryer drum with Ammann burner
3. Crude gas channel
4. Mixer
5. Filter
6. Fan with chimney
7. Drag slat conveyor with batcher
8. Control system



“The Prime continuously produces up to 140 t/h. This is a super compact asphalt plant. Installed on just one trailer, it offers maximum flexibility.”

Process-optimised

Clearly separating the drying and mixing processes leads to significant advantages with regard to mixing quality and emission behaviour. There is no risk of bitumen vapours or filler material contaminating the exhaust air as the dryer is fully self-contained.

The mixer is detached from the thermal process; it is therefore possible to adapt the mixing process to a specific mixing task and to feed additives such as fibres into the mix far away from where the heating process takes place. The result is an uncompromised process with optimum and independent control of each process step.

Latest technology included

Ammann is the only provider to control the entire value-adding chain and to consequentially guarantee the quality of the asphalt conditioning process from start to finish. Numerous upgrade options and accessories can be added to the Prime 140 at any time, making it the best choice to get the most out of your investment in the long term.



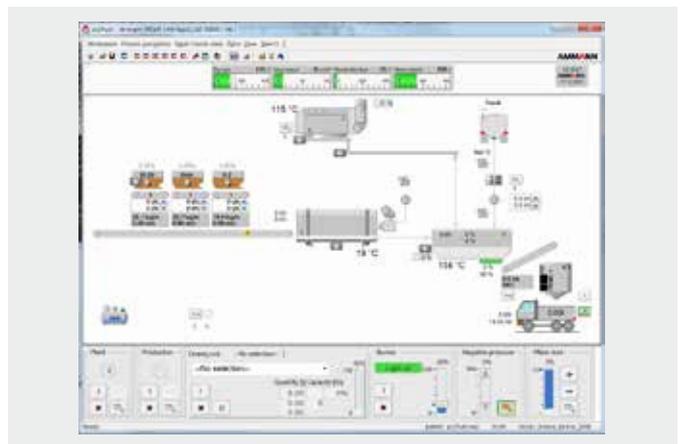
Amix twin-shaft compulsory mixer with adjustable mixing duration and a wivel-mounted drag slat conveyor with batcher.



Drying drum: Four drives: easily accessible and individual adjustable.



Cold feeders: Individual component feeding via belt scale.



Modern control system guarantees safe production.

Advanced technology in asphalt mixing from Ammann

Ammann has now been successfully constructing asphalt mixing plants for over 100 years. At the present time, over 4000 Ammann mixing plants are in use around the world, delivering top quality mix for road construction right around the clock.

The process of manufacturing in an Ammann asphalt mixing plant is based on proven principles, which have been consistently optimised over the years. From the smallest to the largest plant, be it continuous or batch: In every mixing plant proven Ammann core components (dryer, burner, filter, screen, mixer, control system) work to ensure that every process stage is as efficient as possible.

Components

A dense aggregate curtain guarantees an optimum aggregate drying process, after which it is heated to the required temperature in the well-insulated heating zone. Process efficiency depends primarily on the design and arrangement of the lifts furthermore, smartly arranged dryer internals significantly reduce emissions as well as wear and tear.

Burners form a part of Ammann's core business; all Ammann burners are optimised for fuel efficiency and low-emissions combustion. They are also harmonised with the drying/heating process and are available for any required fuel combination.

The exhaust system is optional equipped with a filler strainer that significantly reduces the burden on the fabric filter. The system works in accordance with the "Reverse Air Principle" and has a large filter surface area coupled with a low filter fabric burden. Good dedusting rates and great durability are therefore guaranteed.

Standard plants have three cold feeders, whereby each bin has its own gravimetric device to enable precise dosing of each aggregate component.

Feeding components such as bitumen, filler and other solids into the mix can be accurately adjusted to the aggregate's "actual values" to guarantee high dosing accuracy. A high-quality flow counter, for instance, controls bitumen feed to the exact quantity required by the recipe.



Cold feeder with gravimetric device.



Drying drum with optimized efficiency high performance burner and the Amix twin-shaft compulsory mixer with adjustable mixing duration.



Filter: easily accessible filter discharge screw and heat resistant Ammann filter bags.