# A world first – The new ECO asphalt mixing plant from BENNINGHOVEN

Made in Germany, in use worldwide: ECO – the globetrotting asphalt mixing plant. Cost-efficient and effective transport, quick and easy to relocate, installed in next to no time.

Benninghoven presents the new ECO system concept at bauma for the first time. The type ECO asphalt mixing plant in capacity sizes from 100-320 t/h combines state-of-the-art, innovative BENNINGHOVEN technologies and a high standard of manufacturing in compact container sizes. This ensures maximum mobility and flexibility: Type ECO systems can be operated as stationary systems, but can also handle rapid location changes without problems.

**Flexibility thanks to container design**

The modular design of the ECO series also allows various high-tech components to be integrated afterwards. In this way, operating companies can then also react to future customer and market requirements – particularly when it comes to solutions for asphalt recycling. The flexibility of the ECO series is down to its systematic approach – these asphalt mixing plants are transportable and have a container design. All of the main components are designed for simple transportation in standard container dimensions. This type of plant can produce up to 320 t/h of asphalt. This is sufficient for supplying the road pavers with a constant flow of material – even in major projects such as motorway construction. An integrated mixed material loading silo in dimensions of 10 to 325 t ensures a sufficient buffer whilst also providing storage capacity for up to seven different asphalt types (recipes). Thanks to the modular system, this can be expanded or retrofitted at any time with one or two secondary towers.

**Maximum mobility**

Because all main components are designed in ISO standard container dimensions, transport by lorry, ship or rail is easy. The strength of the plants is their ability to be transported worldwide and that they can be designed as simply, cost-efficiently and effectively as possible. The powerful plants with fixed options ensure optimum mixture quality.

The advantages of the container design of the type ECO asphalt mixing plant from BENNINGHOVEN already became apparent during installation and commissioning, with both being completed in just five weeks. On conventional plants, four to six months can pass before the first vehicles carrying the asphaltic mixture leave for the construction site. The type ECO plant also offers operating companies the highest levels of flexibility: the location can be changed quickly at any time, while logistics costs are low. Dismantling and installation can be carried out easily. ECO plants are quickly ready for operation at new locations, not least thanks to the “Plug & Work” principle seen in the plant electrics.

**Clever concept: how BENNINGHOVEN focuses on ease of operation**

* Type ECO plants incorporate the new BENNINGHOVEN weighing and mixing section. During the development phase, the engineers placed particular emphasis on ease of operation through measures such as:
* Pre-configured interfaces for feeding recycling material, bags, foam bitumen, granulate, powder, fibre and adhesive
* Very good accessibility in all areas thanks to surrounding access/working platform width of 800 mm
* Plug & Work connection for quick installation
* Optimum illumination of the work and maintenance areas through LED technology
* Large service openings ensure ergonomic access to the mixer for service and maintenance work
* Central compressed air maintenance unit for oiler and separator, plus filter
* Intuitive lubrication plan with colour coding
* Power and compressed air connection for tools and maintenance work
* Modular expansion of functions through bus system
* Key transfer system for increased safety

Photos:

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|  | Transportable asphalt mixing plant in container design – type ECO Plant with a 2 t mixer, a mixing capacity of up to 160 t/h and a loading silo of 60 t. Transportable asphalt mixing plant in container design – type ECO Plant with a 2 t mixer, a mixing capacity of up to 160 t/h and a loading silo of 60 t.  Transportable asphalt mixing plant in container design – type ECO Plant with a 3 t mixer, a mixing capacity of up to 240 t/h and a loading silo of 110 t. |

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