

> Models

Continuous whirl mixer 1 to 3 t/h

Technical data:

Agitator 1500 mm
Pre-mixing screw / band conveyor variable from 2000 mm to 4500 mm



Continuous whirl mixer 3 to 10 t/h

Technical data:

Agitator 2000 mm
Pre-mixing screw / band conveyor variable from 2000 mm to 4500 mm



Continuous whirl mixer 8 to 30 t/h

Technical data:

Agitator 2300 mm
Pre-mixing screw / band conveyor variable from 2000 mm to 5500 mm



Continuous whirl mixer 20 to 50 t/h

Technical data:

Agitator 2500 / 3000 mm
Pre-mixing screw / band conveyor variable from 2000 mm to 8000 mm



Continuous whirl mixer 40 to 100 t/h

Technical data:

Agitator 3000 mm
Pre-mixing screw / band conveyor variable from 2000 mm to 8000 mm



AAGM Aalener
Gießereimaschinen GmbH

> Continuous whirl mixers
for cold-resin-bonded moulding sands

> Reclamation plants
> Moulding plants



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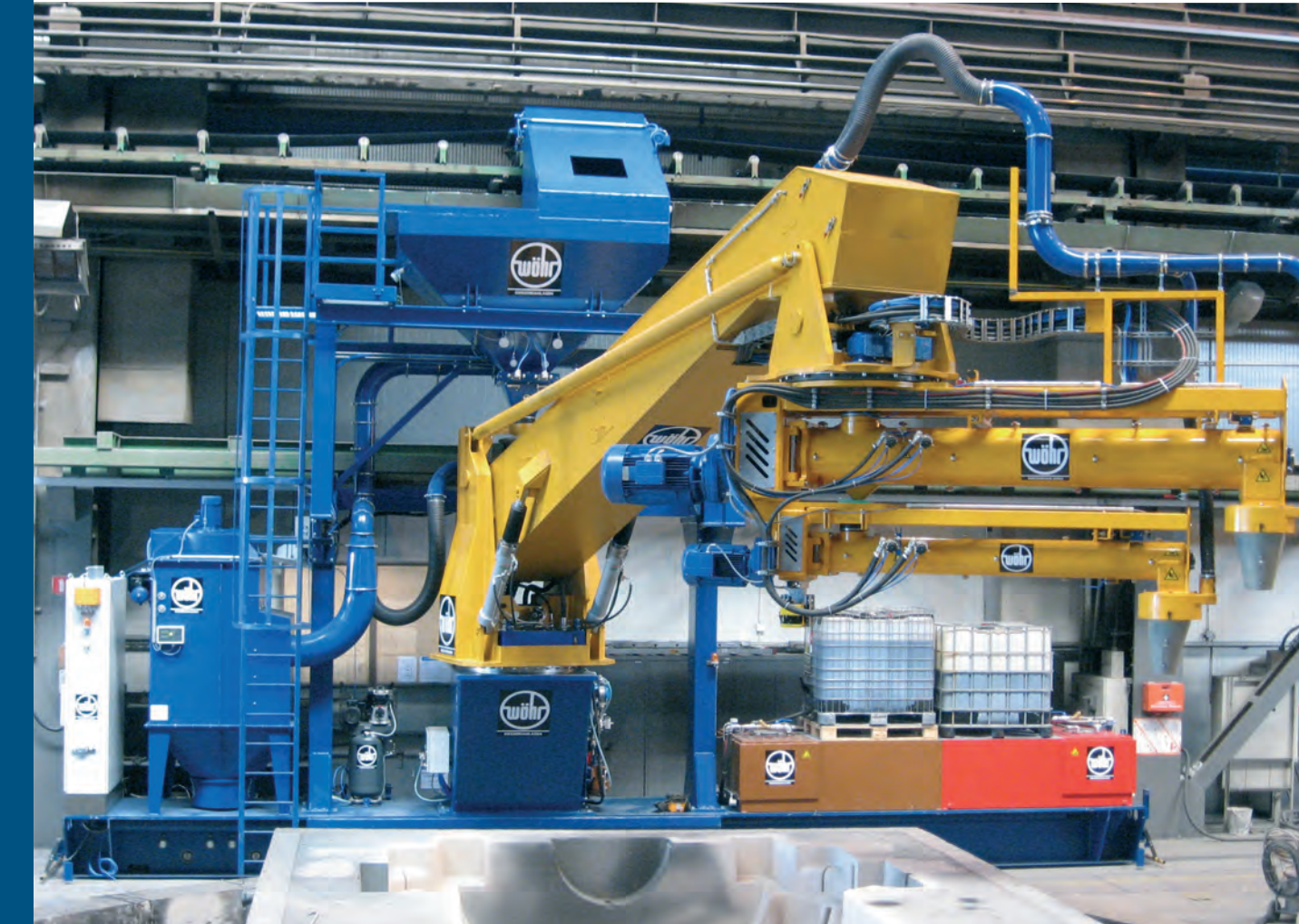
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> Continuous whirl mixers

> Moulding material production from 1 to 100 t/h

We plan, design, manufacture, and install continuous whirl mixers for the continuous production of moulding material with liquid organic or inorganic binders.

With almost 40 years of experience we have adapted our mixers to the requirements of the latest foundry technology and optimized them in every detail. They are characterized particularly by their robust design, user-friendliness, performance, durability, economic efficiency, and state-of-the-art technology. This manifests in particular in the mixing quality of the sand, the minimal consumption of binders and curing agents, the short throughput and mixing times, and simple operation and control. Our mixers are available with capacities ranging from 1t/h to 100 t/h and can be customized to individual requirements in various design variants.



> Sand transport system / pre-mixing screw / band conveyor

The working area of the continuous whirl mixer can be adjusted in surface area and height through various lengths and setting angles. For simpler operability, it is equipped with an electrical rotary drive.

The band conveyor is used for a quick, absolutely clean change of the sand type if using special sands such as chrome ore sand or zircon sand, and for height-adjustable rotary mixers.



> Binder dosing system

The binder dosing system consists of special dosing pumps, the feed and drain valves, and the binder injection valves.

The rotating displacement pumps consist of a special elastomer stator adapted for the binder and a rotor made of high-alloy stainless steel, driven by overhead frequency-controlled AC motors. Sealing is effected with a mechanical seal.

The feed valves of the pumps are equipped with a dirt filter and dry-running protection. The binder injection valves are cleaned automatically after each mixing process on a time-controlled basis.



> Sand dosing system

The sand dosing system ensures absolutely uniform input of the sand in the mixer and provides the option to precisely set the throughput (tons per hour).

The sand dosing system is available in various variants, for example:

- One-type-of-sand dosing slide for one fixedly set throughput
- One-type-of-sand dosing slide for two fixedly set throughputs
- Two-types-of-sand dosing slide with a continuously adjustable mixing ratio, expandable by one additional special sand type

The setting can be made either automatically, based on the formula specifications, or manually.



> Whirl mixer

The whirl mixer consists of a vertically divided trough in tube design with easily replaceable internal wearing shells, a mixer shaft with mixing paddles, and the binder dosing system.

In order to clean them, the trough shells can be opened sideways and the mixer shaft revealed completely. The internal wearing shells cover the entire length of the mixing trough so that the machine is protected against wear of the basic housing in the entire mixing area. The individual adjustable and replaceable mixing paddles protected against twisting in a form-fit manner are armed with tungsten carbides. Their distance to the internal wearing shells and their angle to the shaft axis can be adjusted.

It is also possible to equip the whirl mixer with an electrical rotary drive.



> Electrical and pneumatic control

The electrical control is designed with Simatic S7, built in a massive switch cabinet, and wired and tested in accordance with VDE (German Association for Electrical, Electronic & Information Technologies).

As standard, the control is available in a compact version or in a comfort version, with which all optional accessories can be integrated. The comfort version provides the option to store up to 255 formulas as well as the archiving and visualisation of operating data on a graphical operator interface.

To protect the operating personnel, the mixing trough is locked, monitored, and secured electrically. The sand dosing slide and the binder injection valves are controlled pneumatically. The modularly expandable control unit is mounted centrally in a housing.



> The successful model series

WEH single joint, suspended



WES single joint, standing



WDH double joint, suspended



> The successful model series

WDS double joint, standing optional height-adjustable



WFDP double joint, portal design, mobile



WFDS double joint, rail-bound, mobile



> Special accessories

- Temperature-dependent curing agent dosing
- Automatic temperature-dependent change of formula
- Fully automatic flow control for binder
- Dosing pressure monitoring
- Binder supply day tank / exchange tank
- Sand throughput weighing and measurement
- Large digital display
- Radio remote control
- Filter systems and exhaust equipment
- Remote maintenance

