



THE INTELLIGENT CHOICE

Dry Mix Mortar Production Plants



Dry mix mortar production plants

For generations, clients all over the world trust in Wehrhahn as a reliable partner keeping traditions and launching innovations.

Wehrhahn dry mix mortar plants comprise several individual sections prepared for the investor in a growing market. The batchers and the mixer are installed inside the building whilst raw material silos stand on their own legs beside the building. This makes the plant compact, easy to install or to relocate to other markets.

Investment in dry mix mortar plants means:

- Profitable production of a wide range of products, which means individual adaption of mortars to market conditions
- Cost saving, clean and wasteless production process
- Sustainable production: supporting safety, health and environment
- Quick and easy switch-over (exchange) to various marketable dry mix mortar products of consistently high quality

Capacities of dry mix mortar production (for glue, plaster and stucco):

Standard plant:	capacity	10 – 50 t/h
Mini plant:	capacity	5 t/h

Wehrhahn offers:

- State-of-the-art dry mix mortar plant technology
- Packaging bulk and/or bag
- Professional know-how and marketing tools
- Highly qualified staff for installation, commissioning and plant start-up
- Laboratory and research services including development of mix formulae
- Staff training
- Comprehensive services covering all aspects of plant and process operation



Sand – the main component



Wehrhahn's "dose and blow" system for all additives: directly on the floor for easy access

Wehrhahn: What is special?

Cooperate with Wehrhahn and benefit from a unique concept!

1. Know-how by Wehrhahn R&D in cooperation with experienced producers and universities

→ *Well proven results*

2. Dosing and mixing station

The steel structure just houses the main balance and the mixing unit.

→ *Low factory height for minimum investment*

3. Main silos for basic components and extra silos for special components placed on the ground floor on their own legs

→ *Easy access*

→ *Flexible number and location of silos*

4. Numerous additives and pigments, directly dosed by Wehrhahn's "dose and blow" system (charging from paper bags, big bags or from mini-silos) on the floor for easy access.

→ *Fast and easy installation and adaption to new formulations*

→ *Repacking of spilled material from broken bags*

→ *Minimum dust formation*

→ *Maximum safety*

5. Wehrhahn Automation designs and builds "in-house" all controls.

→ *All from one supplier*

6. Packaging bulk truck / site silos or bagging

→ *Customized to the buyer's requirements*

→ *Reducing labour costs*

7. Further Wehrhahn set-up:

- Machine technology for plastering machines, pumps or other accessories
- Crushing and milling of limestone CaCO_3
- Lime slaking to make hydrated lime
- Upgrade of existing plants

8. The Wehrhahn modular plant system allows starting with low capacity and upgrade later-on.

→ *Utmost flexibility according to market conditions*



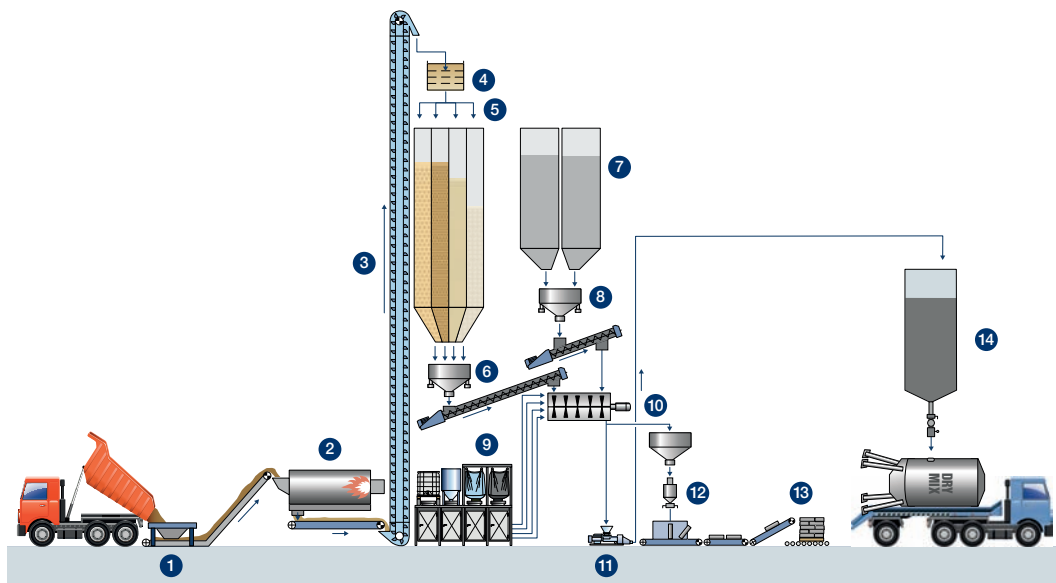
Heated sand dryer guarantees reliable dryness



"WECOMIX", Wehrhahn's well proven dosing and mixing system, brain of the plant

Production of dry mix mortar

The easiest and safest way to ensure consistently high quality is a prefabricated dry mix, generated with highly developed machines and control systems.



- | | | |
|------------------------------------|-----------------------------|--------------------------|
| 1 Sand feeding | 5 4-chamber sand silo | 10 High turbulence mixer |
| 2 Sand dryer | 6 Sand batcher | 11 Dry mix mortar pump |
| 3 Bucket elevator | 7 Binder silo | 12 Bag filling |
| 4 Sieve for several particle sizes | 8 Binder batcher | 13 Palletizing |
| | 9 Additives "dose and blow" | 14 Bulk shipping |



Dry mix mortar shipped in "tilt-up site" silos



Site silos cater for larger construction site



Well bagged AAC glue mortar



All silos stand on the ground next to the dosing and mixing station



DRY MIX MORTAR IS THE ANSWER TO TODAY'S CHALLENGE TO CONTROL AND GUARANTEE CONSISTENT HIGH QUALITY OF PACKAGED MORTAR AND WALL CONSTRUCTION.

Practicable.
Reliable.
Clean.
Quick.
Easy.



Perfect glue for wall tiles



Dry mix bags are emptied into the plastering machine

Dry mix mortar for universal application

A wide range of products as a result of simply mixing it with water. Dry mix mortar is part of today's job sites and appreciated by users all over the world.

Dry mix mortar is a well-mixed blend of various raw materials and is supplied as a ready mix in suitable packs avoiding unused remainders.

Wehrhahn has developed dry mortar plants suitable for practically all demands, such as:

- proprietary adhesive and mortars for aerated concrete
- glue mortar for ceramic wall tiles
- masonry mortar
- skim coat
- inside plaster
- outside stucco
- concrete
- floor screed

Benefits for the builder

- Usage for many kinds of construction material, such as autoclaved aerated concrete (AAC), rock, calcium silicate bricks, masonry blocks, tiles, joints, etc.
- Application manually or with rendering/plastering machines
- Available in paper bags or in bulk

Main components

Dry sand preferred with wide particle size distribution (silt < 5 %), limestone powder (fine crushed limestone CaCO_3), AAC hard scrap

Binders

Cement (Portland cement, various qualities), white cement, hydrated lime, gypsum (requires separate handling)

Additives

- methyl-cellulose
- air-entraining additives
- synthetic resin
- hydrophobing agents

improve adhesion, workability, abrasion strength, water retention, bending tension strength, frost resistance, etc.



Quality stucco, the decorative weather protection, applied with plastering machine



Floor screed pumped over floor heater

EFFICIENT. FEASIBLE AND CUSTOM MADE.
WE BUILD FOR YOUR SUCCESS.

Wehrhahn production plants made in Germany.

High quality, economic and flexible. Characterised outstanding precision, productivity and reliability.

For over 125 years, Wehrhahn has been designing, building and installing cost-efficient machinery and complete plants to produce construction materials, such as production plants for:

- Dry mix mortar
- AAC – autoclaved aerated concrete blocks and panels
- FC – fibre cement sheets
- lime burning and hydrating
- limestone CaCO_3 crushing and pulverizing

We also offer upgrading of existing plants from other suppliers to meet today's latest technical standards.

As the global market leader to build plants for cement based building materials, we also set standards in cost effectiveness and energy saving management: energy saving motors, electric energy saving systems are just a few of the Wehrhahn standards.

Intelligent machine settings and recording of production and process data enable our clients to produce in the most efficient way.

All equipment is customized to specific requirements of our clients.

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Home to our design, manufacture and laboratory.