

masa

Milestone to your success.

Solution, Success, Partnership

Our solutions for your success.

Masa - your partner for the successful production of building materials.

With intelligent and flexible solutions, Masa leads its customers to success.

Experience, reliability and passion are the basis for a long lasting partnership.

www.masa-group.com

Contents

08 Partnership. The secret of our success is the success of our customers.

10 Company. Experience is our strength. Flexibility takes us forward.

12 Product development. Engineered in Germany. This is our commitment.



Page 08



Page 12

14 Product philosophy. Tailored to suit a market need for the building materials industry.

16 Product range. Plants for the production of concrete blocks, concrete slabs, sand lime bricks, AAC blocks.

20 Locations. At home and around the world.

22 Service. There is no limit to our partnership.



Page 10



Page 22

Market Leadership Vision

“We have worked diligently to make Masa the first choice for plants and machinery in the building materials industry. Today our installations can be found all over the world. Our customers know that with Masa they will have the technology that will provide them with the deciding edge in their competitive environment.”

Olga Vercammen
Shareholder / Supervisory Board Masa GmbH



"We have worked hard to transform Masa from a small business machinery company to a premier global provider. There is pride in that achievement. But we also know that this success was only possible because we stayed loyal to the principles of our company: Reliable technology engineered in Germany, First class quality, and a Business partnership with our customers."

Personal experience has shown me the importance of the customer viewpoint and that we must put customer requirements first to allow success for our own company. This begins with the initial small steps which must then continue throughout all of our company's operations.

More than anything else, Masa's worldwide success is dependent on delivering individualized customized installation concepts to our customers. One could say that this customer centric focus is now the core of our product philosophy. This is what defines true service."

Wolfgang Abreß
Chairman of the Supervisory Board Masa GmbH

Integration of Customer Experience

"An experienced team, a powerful organisation and a good proportion of perfectionism are required to develop the solutions expected by our customers. Maybe the most important factor is our ability to listen to customers."

Michael Dolon
Head of Process Technology

Michael Dolon: "State of the art production plants are created by high levels of automation, resulting in high productivity. Creative and robust design concepts incorporating customers' individual requirements result in mutual success."

Our aim is to always incorporate the experience of our customers into the design concept. The resulting layout of the plant is therefore customer friendly whilst fulfilling their needs and including, wherever possible, standardised equipment.

To meet the individual requirements of our customers and the speed at which technology is advancing, Masa has achieved solutions with the utmost flexibility using their own unique concept of visualisation, enabling simple operation of the equipment and incorporating different levels of password access and security.

Safety is of paramount importance, whilst incorporating ease of operation and economical production. For each plant a safety concept is designed and agreed with the customer."



The secret of our success is the success of our customers.

Plants or machinery: The experience of our customers is part of the design.

Masa is the world's leading supplier and manufacturer of plants, machinery and components for the building materials industry. Our customers are companies on all continents who specialise in the production of building materials. Our name is synonymous with creative and robust design concepts, advanced technology and utmost safety. These principles are fundamental to "Engineered in Germany".

As well as the quality of our products a close and cooperative exchange of ideas and experiences with our customers is decisive for our success. By means of this open dialogue we are precisely informed about the specific requirements and trends in the local markets. Based on this we are in the position to create tailor made plant configurations which match exactly the local demands. The experience confirms that such individual solutions clearly strengthen the market position of our customer clearly.

From one reliable partner, we offer effective solutions starting with the initial design concept, incorporating in-house manufacturing, on-site training and product support, including service and spare parts. Depending on customer requirements, we can supply turn-key plants, complete production lines or single plant components. Our product range is supplemented by a 'round the clock', worldwide service and spare parts facility with the shortest possible response times.

Masa is able to look back on more than 100 years of company history. Our experience, the quality of our products and the constant dialogue with our partners have contributed to the success of our customers worldwide.



Assembly line in our manufacturing facility where new plants and machinery are produced

Experience is our strength. Flexibility takes us forward.

On the world market: Masa is the leading German manufacturer and supplier.

Masa is a family owned company with its roots in Germany which specialises in the design and production of plants and machinery for the building materials industry. Under the Masa trade mark, production facilities in Germany are supported by our sales companies all over the world.

Our head office, with departments for development and production, is situated in Andernach, between Frankfurt/M and Cologne. A second location as well as large departments for development and production are situated in Porta Westfalica. A centre for engineering for sand lime brick plants is based in Dorsten. Furthermore subsidiaries for sales and services are established worldwide: in USA, China, Russia, India and Italy as well as Dubai, responsible for the Middle East.

Throughout our long company history, we have significantly influenced many developments in the building materials industry. The experiences gained over the years in both technical and functional capacities now benefit both the customer and ourselves. As a result of globalisation on the world economy the rules have been changed. Different markets require sophisticated individual specifications. "Engineered in Germany" is for us always an obligation for quality and solidity. But to be successful in a constantly changing world market, flexibility is needed to realise the wishes and proposals of our customers.

Masa's typical combination of experience and flexibility is also relevant to the design and assembly of our plants and machinery. In the end, there are no two products alike; every single solution is based and optimised on the individual wishes of the customer.



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01. Know-how in R&D: Masa combines design and production of plants and machinery from one supplier.

02. Quality management: Passion for sturdy and reliable solutions.

03. A customer oriented design concept: The experience of our customer is Masa's basis.

Engineered in Germany. This is our commitment.

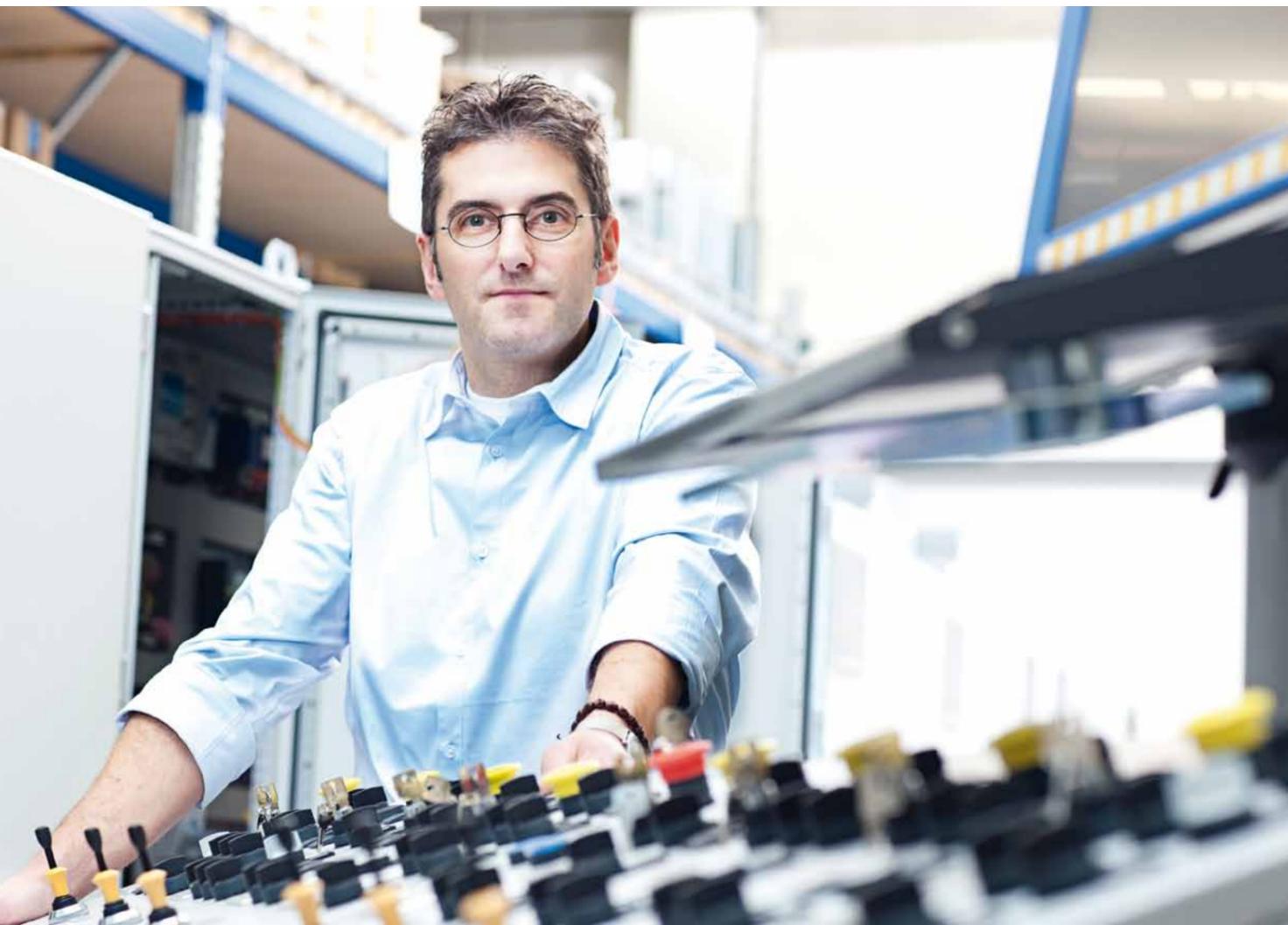
Quality, economic operation, operational safety. These are the fundamentals of our design concept.

In practice, Masa's design principles benefit the customer with uniform quality, minimum down times and high levels of production:

1.440 m³ AAC blocks / day

172.000 pieces sand lime bricks / day

3.000 m² pavers / 8 hrs



Masa has all the necessary experience for the production of high quality blocks, made of light or heavy weight concrete, slabs as well as sand lime bricks and aerated autoclaved blocks in high capacities. A distinct advantage for our customers is, that large turn-key plants or single components are from one supplier - Masa, your partner, from design through manufacturing, assembly, commissioning, training and support during the start of your production.

Our initial planning principles apply in all fields of design and manufacturing. The quality of the known technology and the exact solution give a high-quality finished product. Moreover, these most economical solutions ultimately create substantial

energy savings resulting in lower longterm costs to the customer. Masa's know-how and production philosophy enable a fast and reasonable realisation of individual solutions for complete plants and production lines. Depending on the demand they are assembled by standardised components, which are combined or modified. This results in short delivery times even for the most complex new plants.

The most important aspects, which are foremost in our minds when designing plants are simple handling solutions and continuity of production, whilst taking into consideration every aspect of health and safety.

Construction of machines at Masa: Quality is the sum of experience and the pursuit of perfection.

Tailored to the needs of the building materials industry.

From one source: Masa is the machine producer to contact for all your concrete product manufacturing requirements.

With its range of plant and machinery, Masa encompasses all the equipment the building materials industry needs to produce concrete blocks, concrete slabs, sand lime bricks and aerated concrete blocks. All technical solutions are individually planned, designed, modified and realised by one supplier, with one responsible contact person.

Our customers can clearly see that the strategy of combining design and production processes for all aspects of the building materials industry gives Masa a clear advantage. Because Masa is a capable partner to oversee all the machinery and production requirements. The conditions and considerations for the ultimate, reliable and smooth production are in good

hands at Masa. This leaves the customer able to concentrate on the development, manufacture and marketing of their state-of-the-art building materials, which fulfill the individual market requirements.

An additional main advantage of co-operating with Masa is the security of a known delivery time. For our customer this is one more plus to have known planning and investment on time. With our team of experienced design engineers and technicians, we are able to provide fast and effective solutions to new product innovations, thereby enabling customers to be first on the market, adapt new trends and develop, manufacture and market new products.



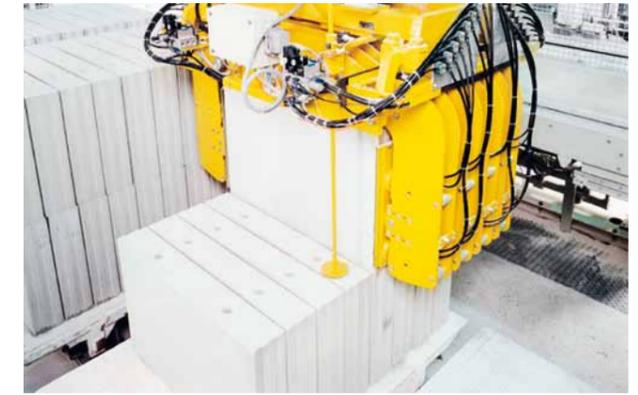
01



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01 Controlled quality with high product output: Masa sets standards worldwide.

02 Simple solutions: Individual slab enhancement and surface treatments.

03 High pressure autoclaving to the finished product: Controlled curing of aerated concrete blocks.

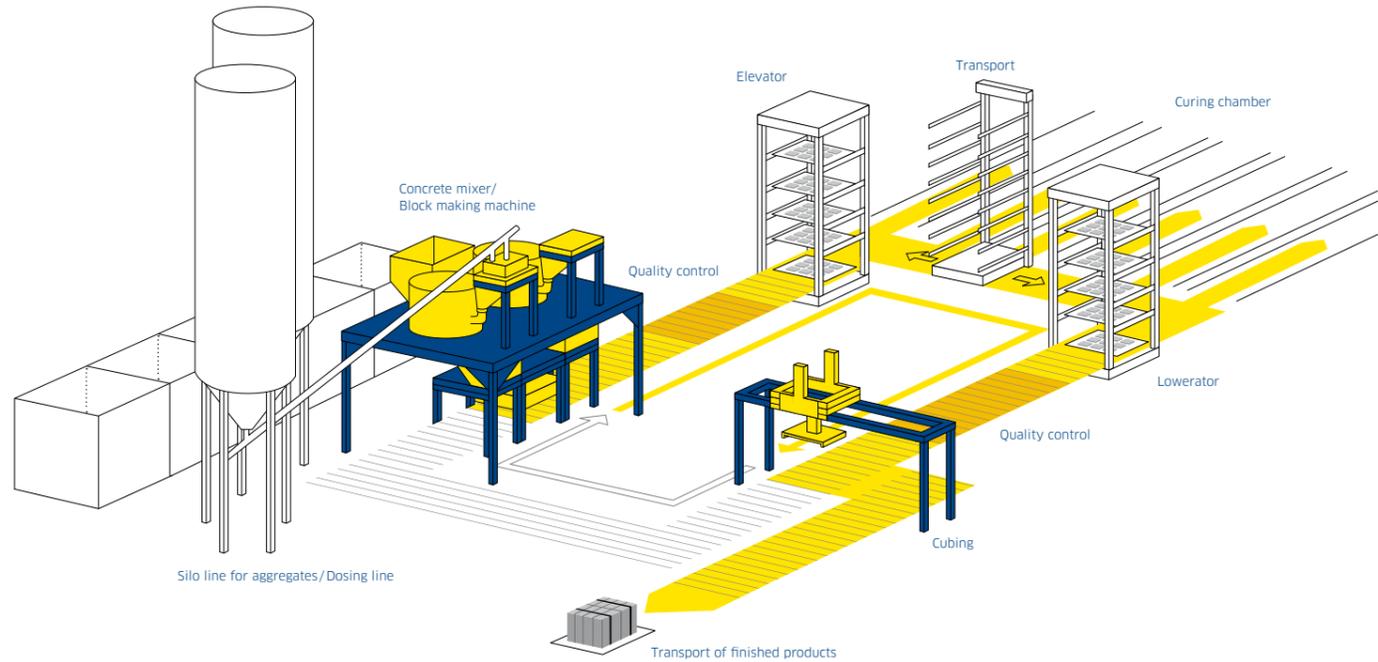
04 Precise and accurate: Individual dimensioned elements ensure perfect quality of sand lime bricks.

05 All part of the process: The transportation of concrete blocks to the curing chambers.

06 Best prepared: Preparation of Silica sand for aerated concrete production.

Concrete block production

Constant high qualities and quantities:
Masa sets standards in block production.



Masa has all the necessary experience for the production of high quality blocks made from light or heavy weight concrete. The batching and mixing plants are able to prepare quality concrete in accordance with the requirements of the specific blocks to be manufactured. The block machines and plants are dimensioned to the required production outputs to enable the customer to achieve the highest quantities for the respective sizes. We can supply plant components incorporating product enhancement, pallet transport, cubing and packaging of the end product, depending on customer's specific requirements.

Turn-key plants: Complete economic solutions, customised to the local production requirements.

Batching and mixing plants: Well engineered components for the efficient mixing and dosing of sand, cement, water and pigments.

Concrete block making machines: Latest technology for the fully automatic production of all types of concrete blocks required in different sizes and quantities.

Handling systems: All the plant components necessary for the transport and cubing of finished products.

- 01 Preparation**
- Aggregate storage
 - Aggregate dosing
 - Concrete mixing



- 02 Production**
- Block production
 - Transport, elevating/lowerating
 - Curing

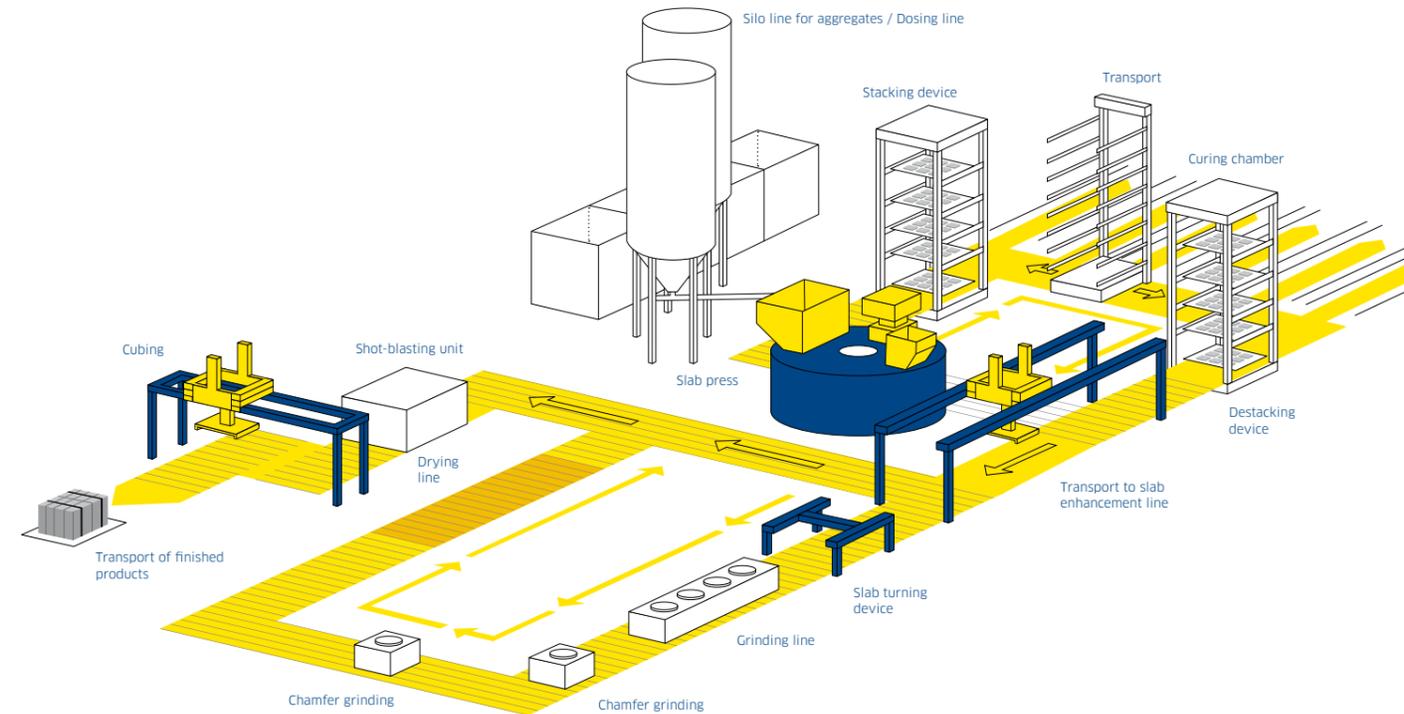


- 03 Cubing**
- Cubing
 - Packaging
 - Storage



Concrete slab production

Economical and flexible: Masa enables producers to react rapidly to new market trends.



The most important quality when producing concrete slabs with our production plants is the customers ability to be able to react rapidly to new market trends, with the flexibility to change colours, structures and surface texture or a combination of all three.

Turn-key plants: Masa's special ability to combine all components in one production line with the flexibility to reach high productivity.

Slab press: Robust design concept for paving slab production resulting in the highest productivity available.

Secondary processing: Many possibilities to create individual slabs and surface treatment.

Curing and cubing: Automatic storing of slabs in curing chambers and fully automatic packaging systems.

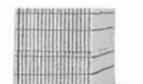
- 01 Preparation**
- Aggregate storage
 - Aggregate dosing and concrete mixing



- 02 Production**
- Dosing
 - Pressing
 - Take-off

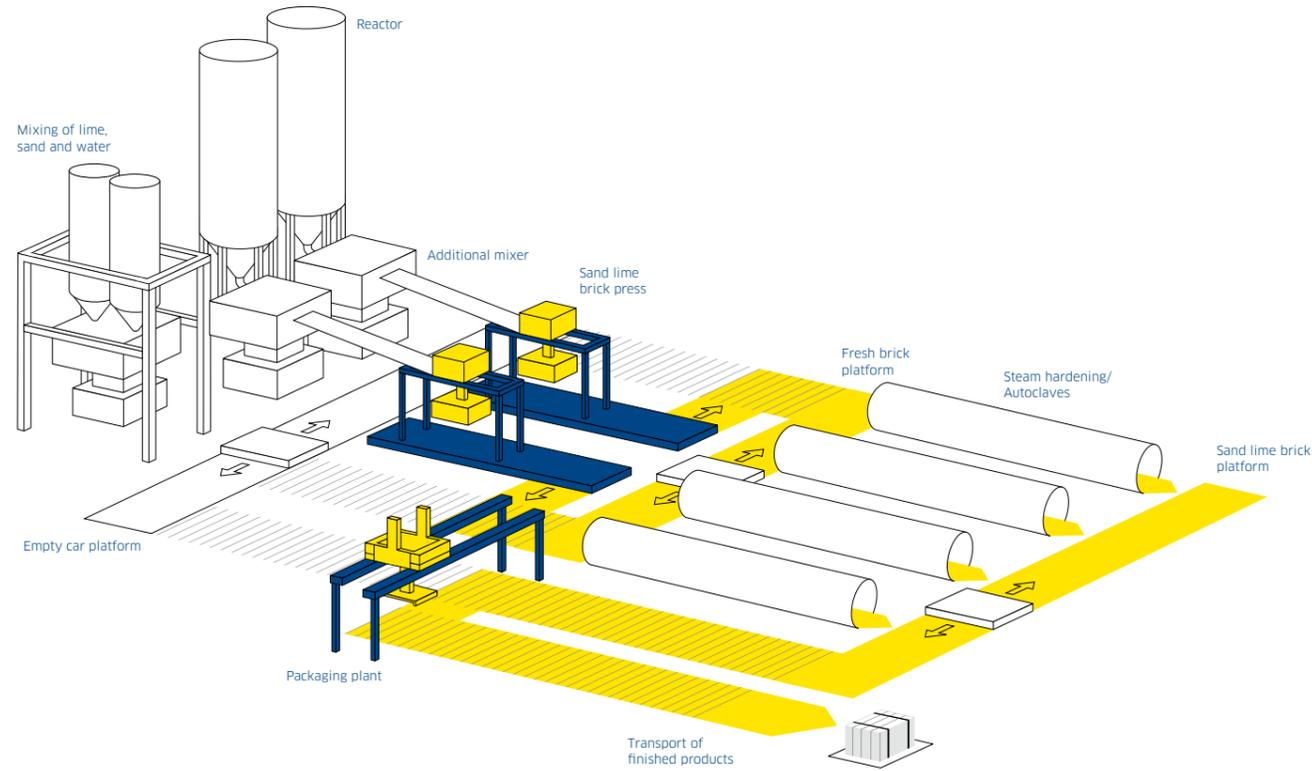


- 03 Cubing**
- Transport: Cubing
 - Transport: Secondary processing
 - Packaging



Sand lime brick production

Proven technology for high-quality products: Sand lime bricks inspire builders and architects.



The concept of sand lime brick manufacture allows the production of small, medium and large bricks. This technology also enables specialised bricks and fitting pieces to be produced to the exact requirements of the architect.

Turn-key plants: The integration of individual components is crucial to the smooth operation of an economical sand lime brick plant.

Sand lime brick presses: An extensive range of electronically controlled hydraulically operated presses with double sided compaction.

Manufacture of fitting pieces: All shapes and sizes of fitting bricks can be manufactured.

Sand lime brick cutting lines: Fully automatic cutting lines for sand lime bricks to the highest quality standard with minimum wastage.

Transport systems and packaging lines: Essential equipment to enable the entire process from manufacture to product despatch.

- 01 Preparation**
- Raw material storage
 - Dosing and mixing
 - Reaction and final mixing



- 02 Production**
- Pressing
 - Take-off
 - Transportation

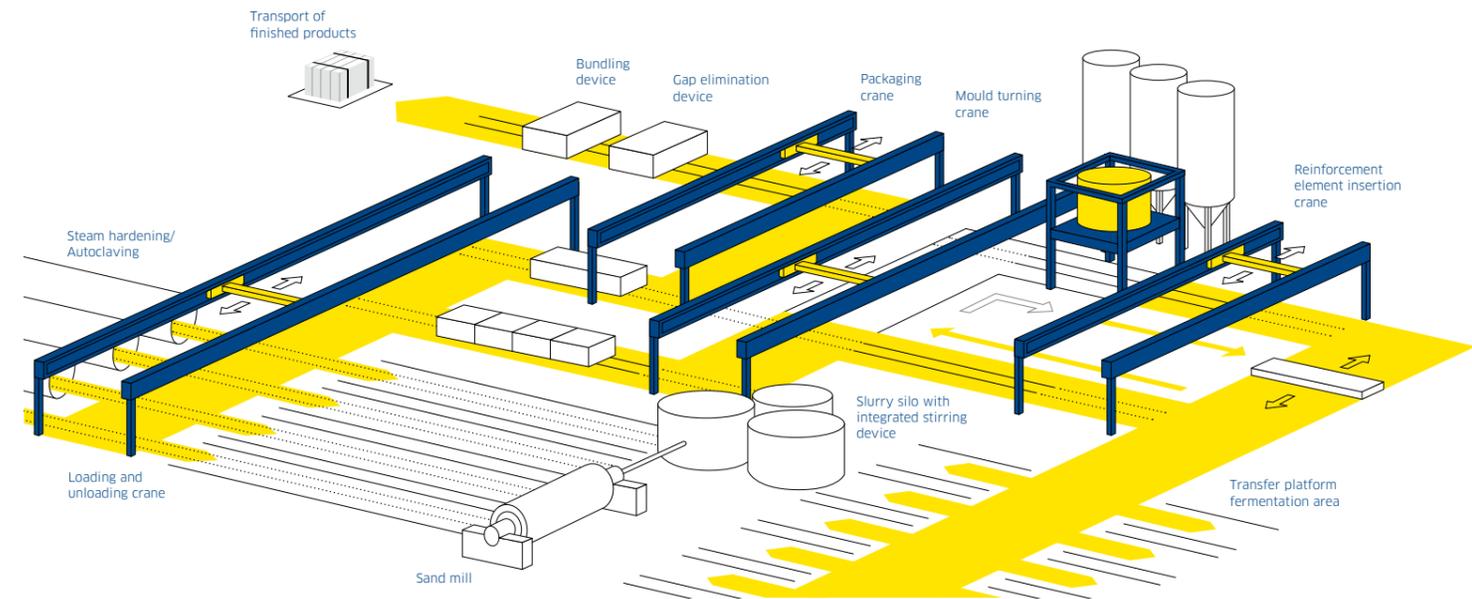


- 03 Cubing**
- Transport: Autoclaves
 - Transport: Cubing



AAC block production

Quality from A to Z: For this highly sophisticated manufacturing process, Masa has all the components and technology available.



The manufacture of aerated concrete places great demands on the dosing of raw materials, the supervision of the fermentation process and the control of the following production steps. Many years of experience and the deployment of the latest automatic control algorithms in our control components guarantee the quality of the finished products.

Turn-key plants - Vario Block method: Efficient, high-capacity plant designs for AAC block production.

Turn-key plants - Vario Panel method: Raw material processing, dosing, mixing, fermentation area management and hardening process control systems.

Process technology: Raw material processing, dosing, mixing, fermentation area management and hardening process control systems.

Cutting plants: Plants for different cutting procedures, incl. cutting waste recycling system.

Transport systems and packaging plants: Essential to prepare the finished products ready for shipment.

- 01 Preparation**
- Raw material storage
 - Sand milling and storage
 - Dosing and mixing



- 02 Production**
- Casting
 - Fermentation
 - Cutting



- 03 Cubing**
- Autoclaving
 - Separation
 - Packaging
 - Wrapping



There is no limit to our partnership.

Masa service is more than technical support. From the contact with our customers an efficient dialog starts.



Experienced and well trained fitters: Masa competence at site.

Whether you purchase a complete production line or a single component, it is the start of a long lasting relationship with Masa. Our service does not stop with the handover of the equipment to the customer – but lasts for the lifetime of the machine.

Assembly and commissioning

After delivery, plants are installed and commissioned by our own qualified and experienced engineers.

After sales service

With programmed visits by our experts, a preventative maintenance programme is agreed to maintain high productivity and minimise downtimes.

Training of operators

During the installation and commissioning of the equipment, the operators are given training and familiarisation with all the plant components and after the final test run, should be able to run the plant themselves at the agreed productivity.

Product advice

Masa's vast experience of manufacturing concrete elements ensures both visual and technical qualities of the finished product.

Service hotline

Masa has a 24 hour Service hotline for the customer to assist in the diagnosis of any malfunctions or when problems in the production system occur.

Online Tele service

Today, technical support for the equipment is provided, in most instances online. Updates and programme modifications can also be done via modem, without having Masa engineers on site.

Spare parts service

With our flexible system and worldwide spare parts locations, if necessary, we are able to supply quickly and cost effectively within 24 hours, unless the parts have to be manufactured specially.

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