

IBAU HAMBURG



Together we are able to build the Dry Mortar Plant of tomorrow

Processing, Storage, Mixing, Filling, Packing, Palletizing, Loading, Automation



**The complete production line from one hand. We cover the entire process,
from raw material analysis up to packing and truck loading**

- The complete silo technology
- The complete mineral processing
- The best packing machines
- The most advanced automation
- The fully automatic loading

IBAU HAMBURG is your efficient partner for economic solutions

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H/04/17Dry Mortar Product Handling

IBAU HAMBURG



IBAU HAMBURG

Dry Mortar Product Handling

Material Analysis, Plant Design, Engineering
Premium technology in a perfect flow

A HAVER & BOECKER Company

We offer you: The complete process for your Dry Mortar Handling
To create a clean and profitable product and safe transportations under any circumstances

From the first sketch to commissioning and maintenance:
IBAU HAMBURG covers the entire process.
From raw material analysis up to packing and truck loading

The deal:

We deliver the complete process and monitoring of your production and of your product.
And your users receive a clean and precisely weighed product, storable in all wether conditions.

How?

We offer you a perfect flow of premium technology from five world leaders in providing quality:

IBAU HAMBURG
HAVER NIAGARA
HAVER & BOECKER
NEWTEC BAG PALLETIZING
HAVER AUTOMATION

Together we reach new levels of efficiency.

We find the most cost-effective solution for your project!



Market research

Conduct market researches to define mortar consumption potentials, identifying:

- Competitors
- Customers
- Distribution channels
- Realizable prices
- Possible growth opportunities

Work organization

- ▶ **2 weeks:** Mapping of information sources
- ▶ **3 weeks:** Capture of relevant information
- ▶ **1 week:** Data analysis
- ▶ **2 weeks:** Final report

Raw Material Analysis

Support in selection of raw materials

- Adequacy and/or assortment of sand
- Characterization of binders, fillers, cements and additives
- Developing a mortar formula

With the know-how from IBAU HAMBURG: Sizing of Dry Mortar Plants and Types of Dry Mortar Mixing Plants

The business field „Dry Mortar Plants“ of HAVER & BOECKER:



Mineral Processing

HAVER NIAGARA
GmbH

HAVER & BOECKER



Packing Machines

HAVER & BOECKER
Business Unit Building
Materials and Minerals

HAVER & BOECKER



Palletizing and Truck loading

NEWTEC
BAG PALLETIZING

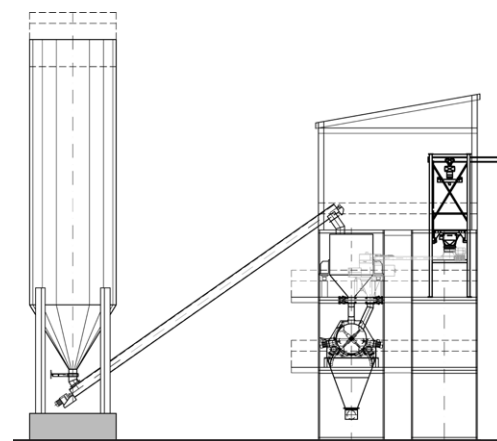
NEWTEC BAG
PALLETIZING



Automation

HAVER AUTOMATION

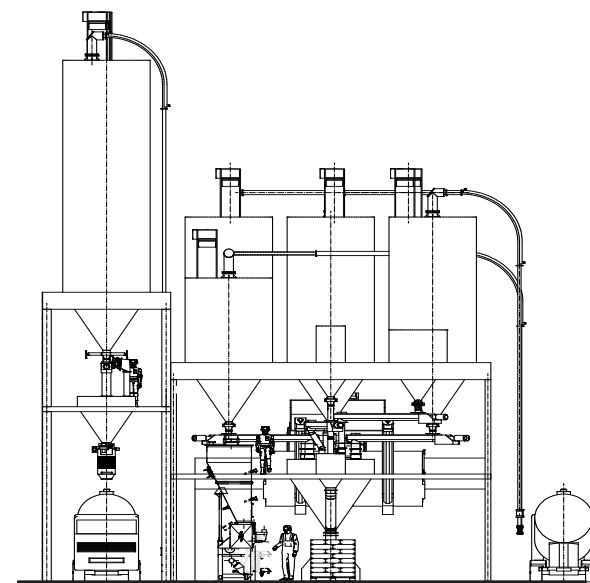
HAVER & BOECKER



Small Plants

Main characteristics:

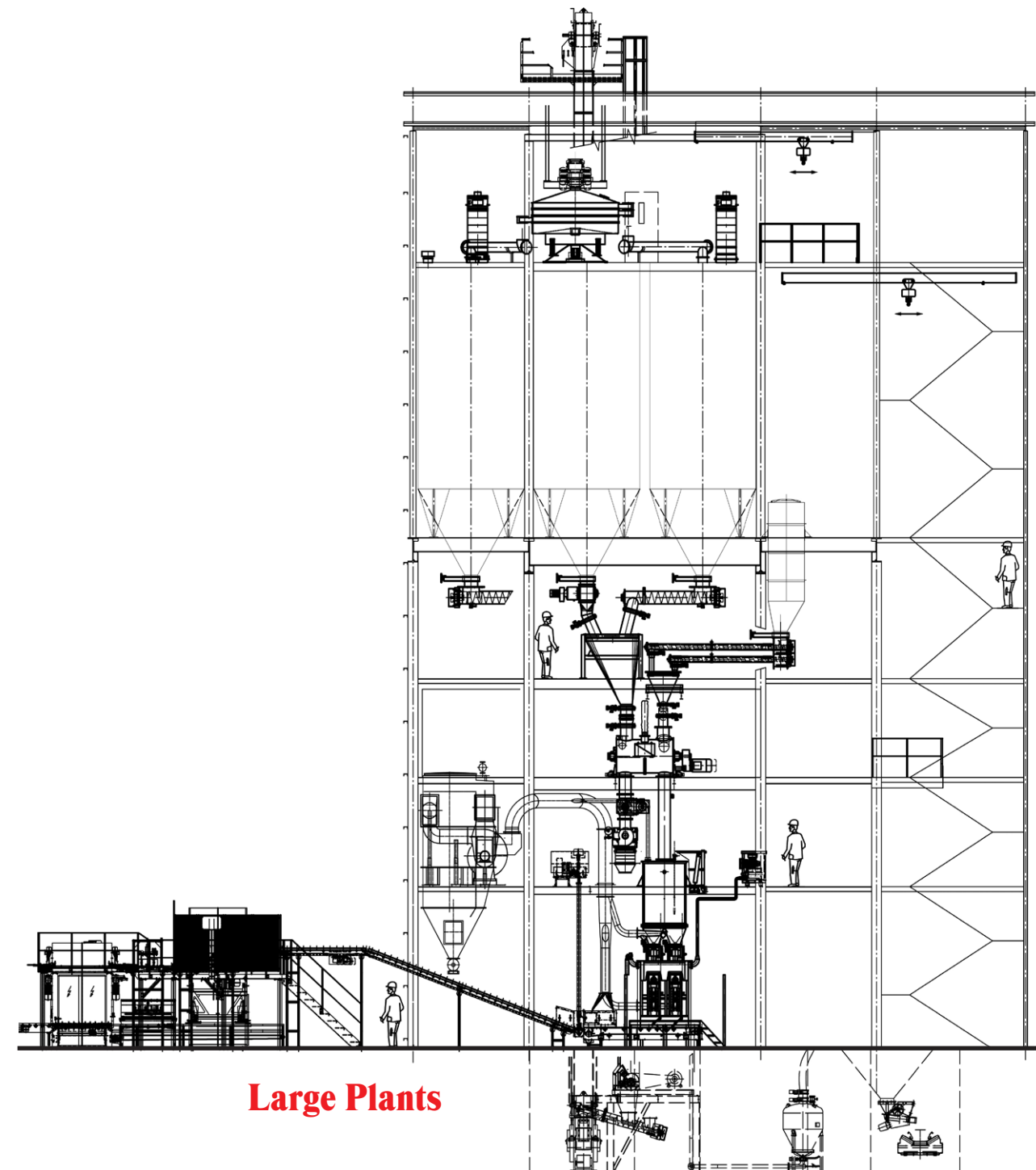
- Simple
- Low cost
- Pilot plants



Mid-sized Plants

Main characteristics:

- Flexible
- Economic
- Basic Products



Large Plants

- Very efficient
- High Quality
- Large Variety

We design and supply the Mortar Plant of tomorrow in full compliance with project requirements, timetables and costs



Perfect in form: Complete plant design in 3-D

Our advantage is experience:

Only a single contact for the client with the project leader.

No imperfections

- Single contact for the client with the project leader
- Overall engineering by the project leader
- Direct communication between the technology providers
- Overall automation concept

Perfect in form

- Complete plant design in 3D
- Latest state of the art technologies
- Direct communication between the technology providers
- Purely first class European suppliers

Functional & efficient

- World leading companies in screening, packing, blending & storage solutions
- More than 125 years of experience in material handling
- Wide range of product application

Economic

- Customized solutions based on the clients requirements
- Complete technology available inside the company
- Combination of 1 st class equipment & services with economical local solution

Compact solutions: Efficiency without compromises



Marnilit D.O.O. Solin, Croatia

Market Analysis, Plant Design, Engineering from one hand: New efficiencies for the Mortar Plant of tomorrow



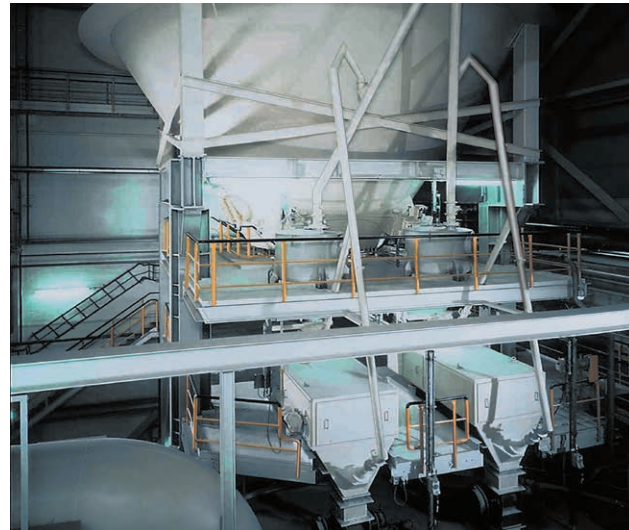
Dry Mortar Plant for Sunstate Cement Ltd., Brisbane, Queensland - Australia

The IBAU Monolithic Mortar Plant: Better Quality, Higher Efficiency and High Market Value



TPI Polene Cement and Dry Mortar Plant, Saraburi, Thailand

The center of the plant are the advanced IBAU Residue-free dosing systems, an excellent premium technology for compact solutions



Dosing system to a slurry tank by weigh feeders



Vibrating conveyor



Additive weighing system



Feeding of up to 4 weighing bins for a batch-type mixing plant



Dosing screw conveyor



Additive Big Bag emptying and dosing

All mixing systems are incorporated in the mixing tower of the Original IBAU HAMBURG Central Cone Silo



Mixing paddles arrangement



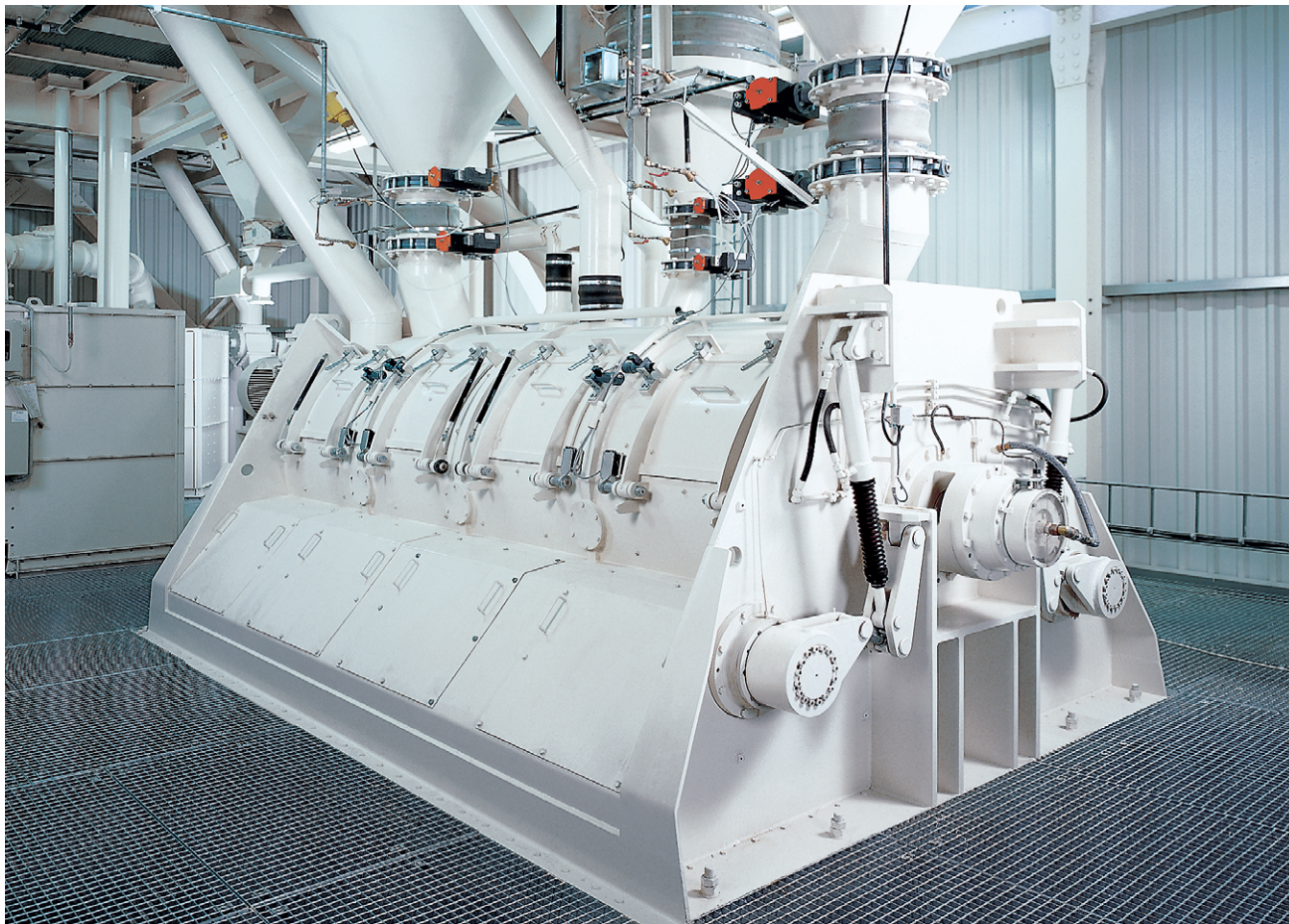
Batch-type mixer



Discharge bin solutions



Flow-through mixer



Residue-free batch-type mixer

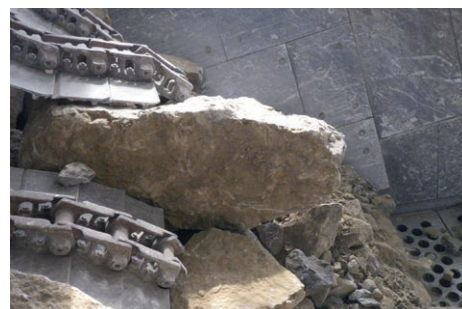


Batch-type mixer with chute discharge

Drying, Crushing and Screening with the HAVER NIAGARA System: World wide experiences



▼
Sand Dredge



▼
Rock Quarry

▼ **Washing**

▼ **Crushing**

▼ **Drying**

▼ **Screening**



Mortar Plant



Drying, Crushing



Screening

HAVER AUTOMATION: Transparent Process control with the HAVER QUATRO System Solution

Three key points for a perfect flow:

QUATRO - PCS: Process Control

QUATRO - BMS: Batch Management

QUATRO - PCS: Dispatch System

The advantage:

- Linking the technologies to a complete system
- Organization of the movement of goods
- Creation of transparency in production and storage
- Providing the data for service and business models

QUATRO - PCS: Process Control

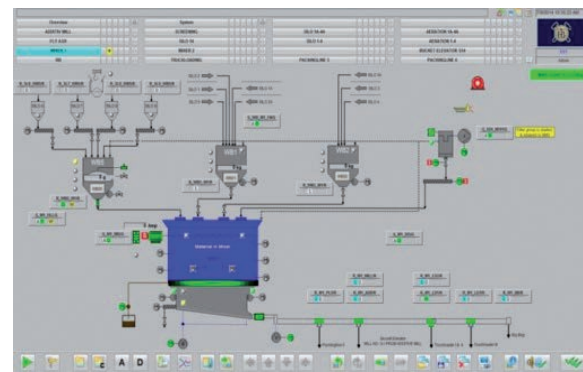


Always informed!

- Central operation and monitoring
- Transparent production
- Fast troubleshooting through detailed information

Innovation: On mobile devices

QUATRO - BMS: Batch Management



Always the best quality!

- Integration into existing mixing plants
- Documentation of production data and stock of raw materials and finished products
- Data exchange with other applications/ERP

Innovation: Easy operation through configuration of basic and control recipes

QUATRO - PCS: Dispatch System

Traffic and goods are in flow!

- Organization of traffic
- Proof of all shipping activities
- Avoidance of loading error
- Reduction of waiting times

Innovation: Web application



Filling and Packing with the HAVER Building Materials and Minerals unit: Solutions from a world market leader



The HAVER ADAMS can have 1 to 10 filling spouts depending on the product and the required capacity, max. 2000 bags/h of waterproof PE bags can be filled.

The HAVER ADAMS:

Technology for filling powder products into airtight PE bags

The HAVER ADAMS PE bag:

- Clean
- Compact
- Weatherproofed
- Beautiful

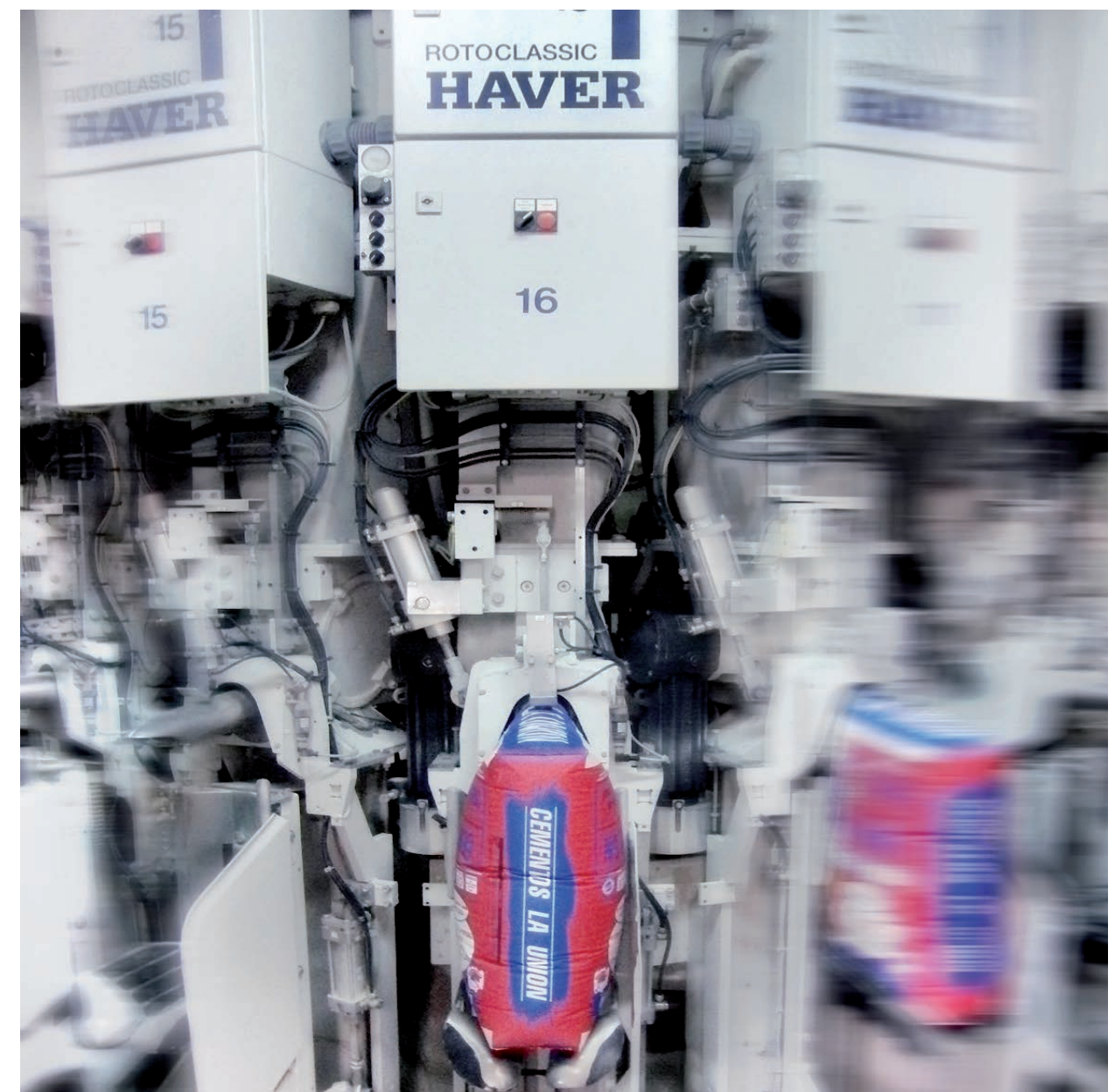
For bags of 5 to 30 (50) kg



High efficient engineering: The HAVER ROTOPACKER

Demands on a Packing Machine:

- High capacity
- High filling level
- Improved cleanliness
- High weight accuracy
- Automatic operation
- Flexibility
- Low maintenance



The finest and most effective packing machine ever designed

Our Efficiency means: Productivity, through Suitability and Versatility

Palletizing Systems and Bag loading solutions from NEWTEC BAG PALLETIZING



All type of products

Cement, dry mortar, glue, calcium carbonate ...

All bag weights

From 5 to 50 kg

All types of bags

Paper, FFS, PP, PE, valve, open mouth, ...

All types of patterns

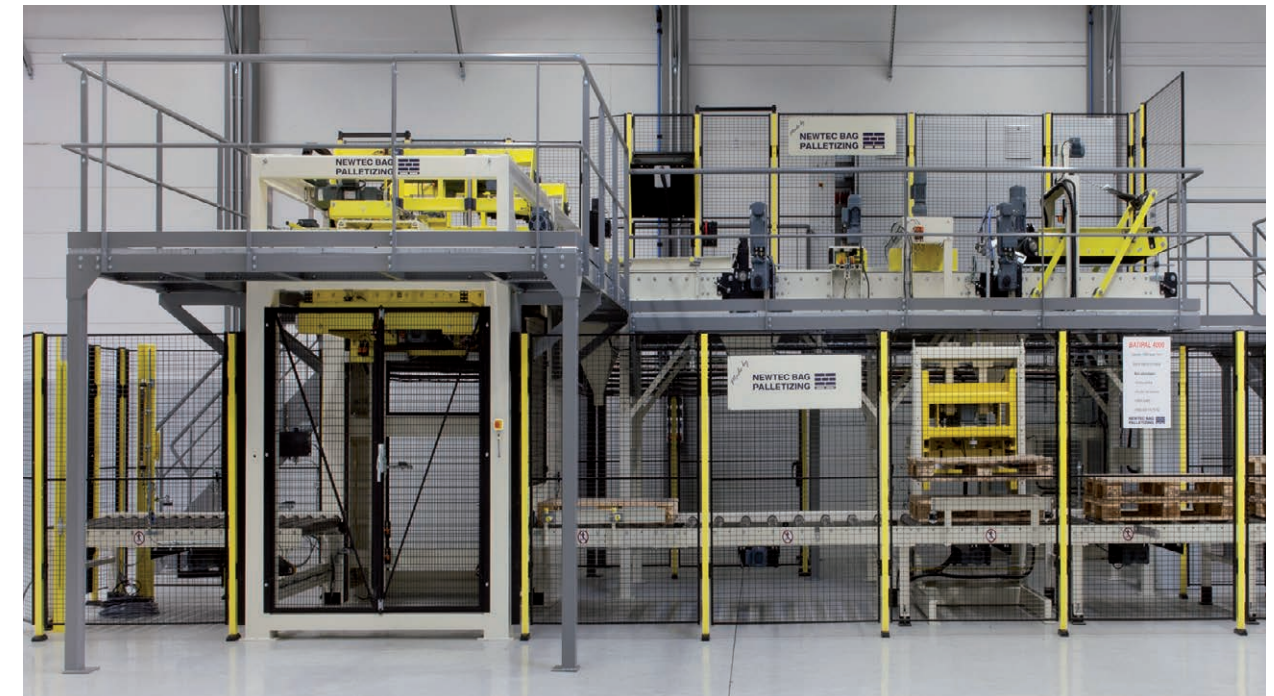
From 2 to 23 bags/layer

All types of pallets

Euro, CP1, CP4, wood, plastic, ...

All types of capacities

100 to 5000 bags/hour

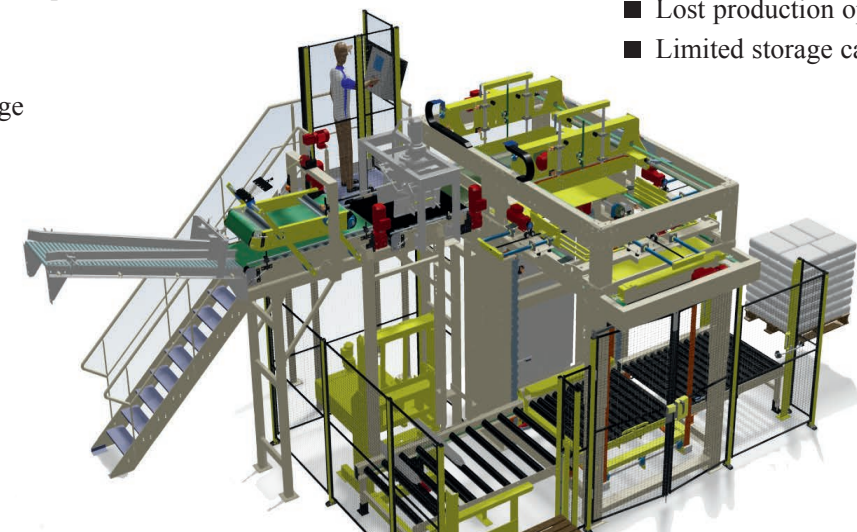


With NEWTEC Palletizers you have ...

- Higher efficiency
- No waste of time, more production
- Less manpower
- Sales increase
- Less waste & damage
- More efficiency

... and never more:

- Lost sales
- Lost profits
- Angry customers
- Lost production opportunities
- Limited storage capacity



With the HAVER Automatic truck loading at the last step in the HAVER Processing chain: Speed, rentability and flexibility

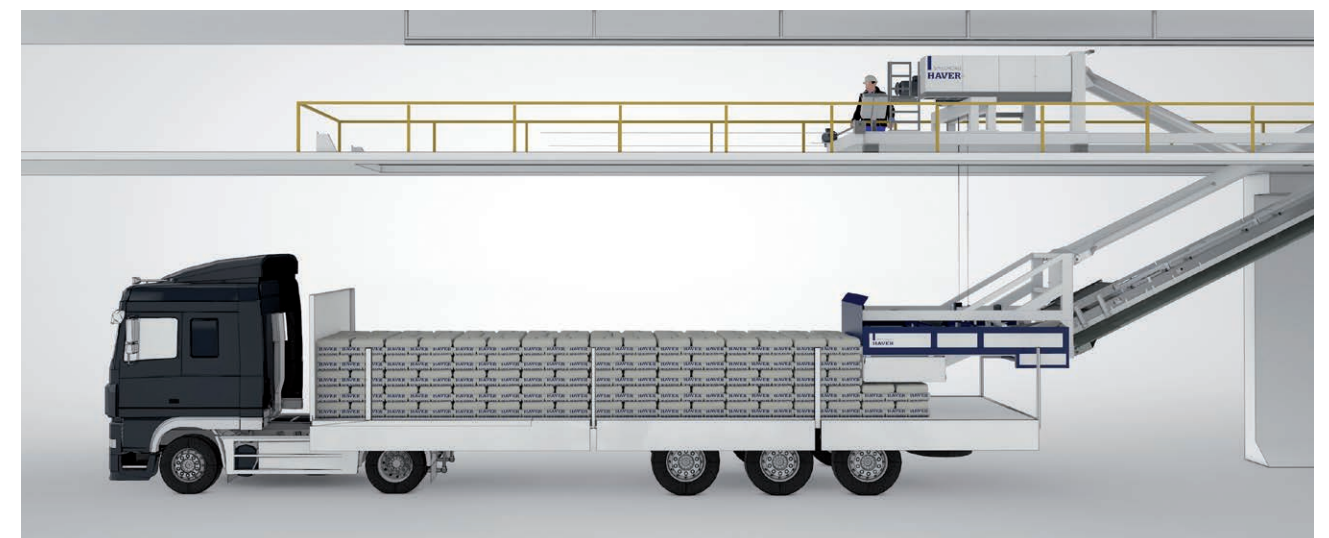


The HAVER Automatic truck loading allows the automatic loading of palletized bagged goods onto open truck beds and trailers.

- Total Speed of 260 t/hr
- Fully automatic loading cycle
- 2 truck lanes
- Lane change in 11 sec
- All conventional pallets can be handled
- Combination of direct loading/stocking is possible
- Split loads possible (simultaneous loading of trucks from palletizer and from stock)
- Electromechanical moving processes without pneumatics and hydraulics



Loading of pallets



Automatic loading of pallets onto trucks

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W.S. TYLER



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PALLETIZING



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