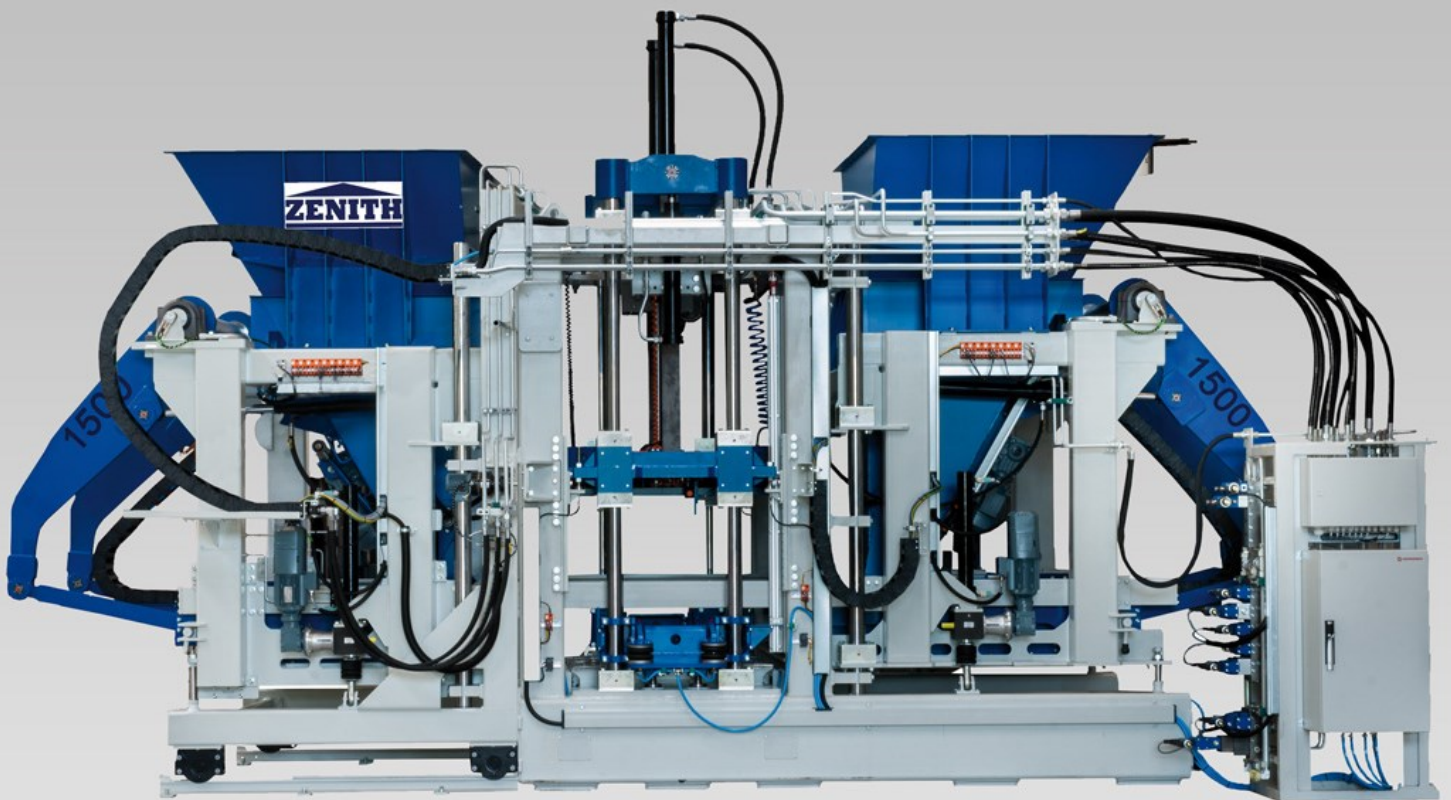


# 1500

Fully automatic stationary Single Pallet Machine



## About us

On 1st September 2013, Q & G Maschinenbau GmbH started its business activities at the Emden office with 20 employees, of which a major part were employees of the former Besser GmbH (OMAG).

Now, one year ahead, we are happy to announce that we have made significant improvements and expansions. Meanwhile, 35 highly-motivated employees are working in our team and there have also been important commercial and technical developments.

Thanks to the merger with the company ZENITH, which is already serving over 7,000 content customers all over the world, we have now decided to rename Q & G to ZENITH.

Our motto: Maximize customer value  
Our working guideline: Effectiveness oriented  
Performance oriented  
Result oriented



## ZENITH 1500

The newly designed high-performance single pallet machine ZENITH 1500 forms the centrepiece of a state-of-the-art and efficiently working concrete block production. The wide range of production possibilities meets all customer requirements. The ZENITH 1500 comprises the production of niche products, gardening and landscaping products as well as pavers, kerbstones and bricks. In addition to a high quality and productivity, our engineers put special focus on guaranteeing a low-maintenance and trouble-free production process. Owing to the continuous use of screw fittings, all wear parts can be easily exchanged within shortest time. Based on the screwable design of the vibration table, the motor cross beam and the frame side parts, this machine is unique on the market as it adapts to the customer's production conditions.

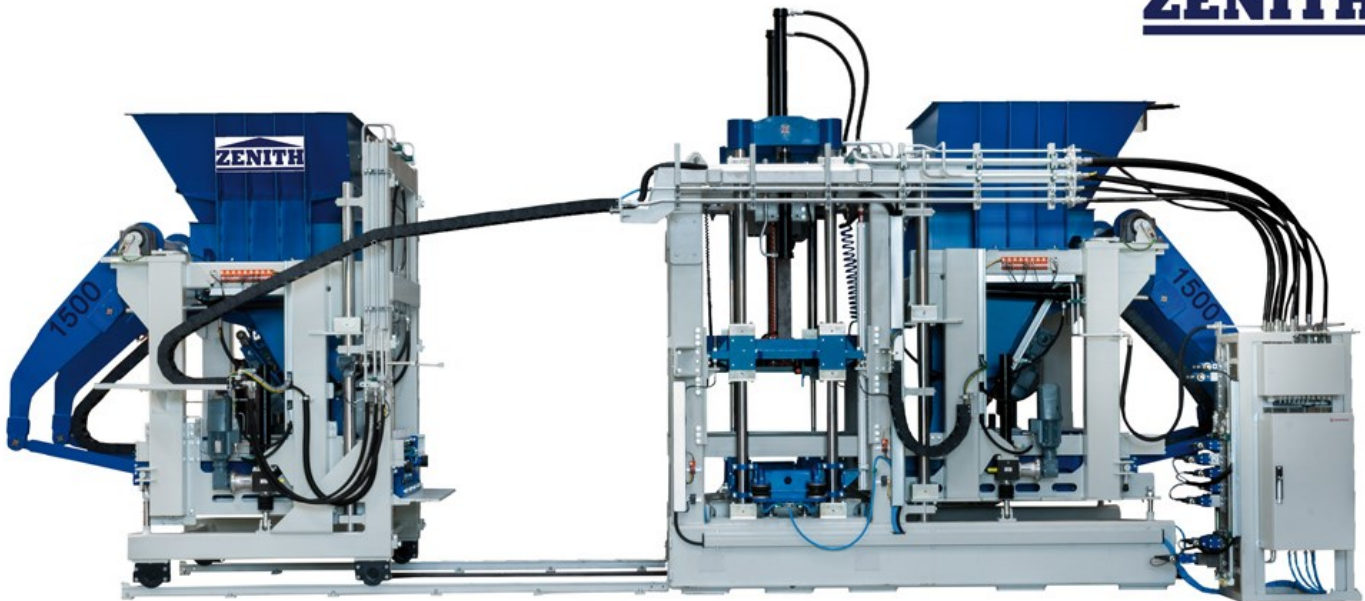
An automatic quick change system for moulds, various Colormix equipment and other special equipment as well as tamper head cleaning devices complete our delivery programme.

Moreover, the plant is equipped with a revolutionary control and diagnostic system which provides an all-round support for the machine operator and therefore always guarantees an efficient production.

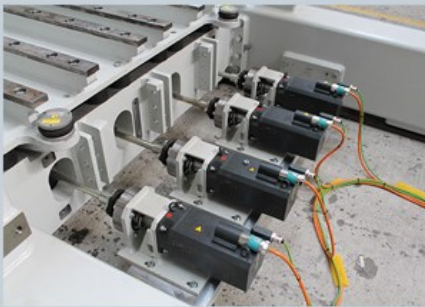


## Products





## Vibrators



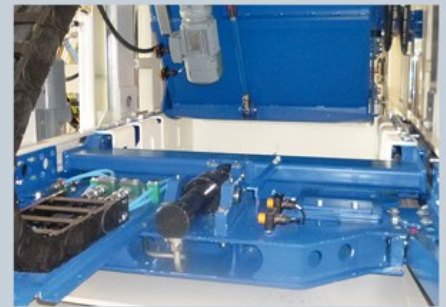
The single pallet machine ZENITH 1500 is working with an innovative servo compaction system named UltraDynamic. This high-quality vibration system is characterized by a very high compaction and extreme dynamics and therefore guarantees a quick and efficient high-quality production. Especially for large-volume components and high-quality products, which are produced with pre- and intermediate vibration, this vibration system is very profitable.

## Fixed with bolts



Owing to the fixed with bolts design of the vibration table, the motor cross beam and the frame side parts, this machine is unique on the market as it can adapt to the customer's production conditions.

## Fillerbox 1



The suspended performance-improved filler box design is created for an optimal filling of the mould. Again, besides of an optimal speed and filling, the main focus is put upon a simple and time-saving handling. As a consequence, the filler box cabinets for face and base mix are designed as quick change systems. The filler box frame is additionally equipped with an inner filler box cabinet. The adjustability of the scraper frames on the rubber pads allows for the required flexibility. A continuous monitoring allows for a follow-up filling of the filler box.

## Interlock Filling 2



The new electrical bracing of the 2nd filling device is unique on the market. This efficient, electrical solution allows for a quick and safe connection of the machine base part with the 2nd filling device. With this, a safe and fully-automatically opening and closing of the 2nd filling device is possible. Quick and short mould change and maintenance times are therefore the major advantages.

## PLC and visualisation

A self-explanatory and intuitively visualization concept guarantees for an easy learning of the machine operation. A new diagnostic design supports the machine operators in choosing the best adjustments for the machine – a time-consuming trouble shooting is therefore a thing of the past and production downtimes are reduced to a minimum. By using the latest database technology, all information can be recorded, evaluated and stored. Owing to the complete plant networking, this data is available anywhere.

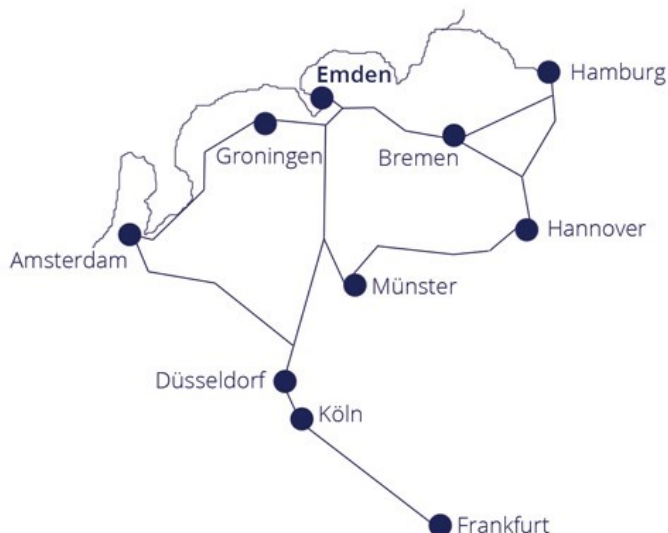


We are using Siemens Control and Switching Technology without any exception. Siemens is a global player and therefore guarantees a quick worldwide spare parts supply when necessary. It goes without saying, that we are always using the latest and quickest technology. Owing to the continuous use of PROFINET and Ethernet, all information is available anywhere and at any time. All controlled axes are monitored via absolute value encoder technology, a time-consuming calibration of the plant in case of a blackout is not necessary anymore. By means of the already installed internet remote maintenance, our world-wide based service engineer can offer support at any time.

## Pallet Size 1400mm x 1200mm

Product	Dimensions in mm (LxWxH)	Number of Products/Pallet	Cycle Time per Pallet in Sec.	Number of Products/Hour	Number of Products/8 Hours
Pavers without Facing Layer	200x100x60	60	11	354m <sup>2</sup>	2,830m <sup>2</sup>
Pavers with Facing Layer	200x100x60	60	14	278m <sup>2</sup>	2,220m <sup>2</sup>
Hollow Blocks	400x200x200	15	15	3,240 pcs.	25,920 pcs.

The specified production rates are calculated with an efficiency of 90% and depend on the concrete mix and the plant equipment.



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