

Single Pallet Machine



Quick Mould-  
changing System

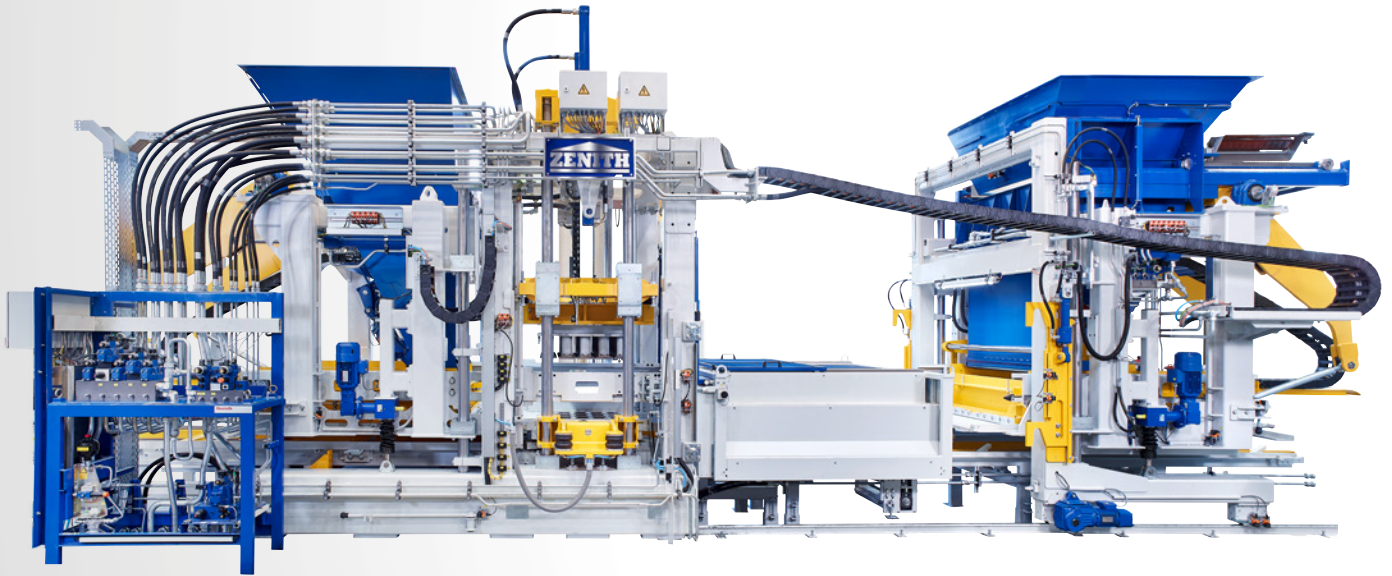


Servo Vibration  
System

# 1500-2

Fully automatic stationary  
Single Pallet Machine

# 1500-2



## Fully automatic stationary Single Pallet Machine

The high-performance single pallet machine ZENITH 1500, which was introduced for the first time in May 2015, has been further developed and the new generation has been named ZENITH 1500-2. The vast product range of the ZENITH 1500-2 allows the production of gardening and landscaping products as well as pavers, kerbstones and niche products. The high production output makes the ZENITH 1500-2 an ideal machine for a fully automatic single pallet plant.

It was not only our goal to improve the existing machine but also to maintain the high quality and productivity by guaranteeing a low-maintenance and trouble-free production process. The proven advantages have been kept and were complemented with sensible innovations.

The profiled rails for example have been replaced by welded filler box rails. Due to the exchangeable wear parts, the costs and installation time could be reduced considerably. In addition, the automatic quick change system for moulds has been improved and has now a more flexible design. Various options and special features for individual demands are also available.

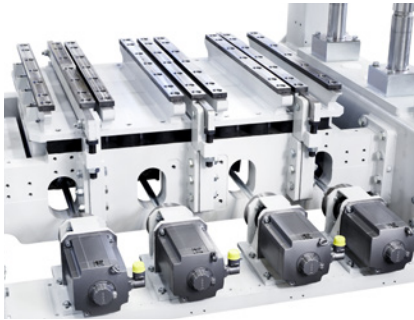
The established control and diagnostic system was updated and adapted to customers' needs. It offers best possible support for the machine operator during his work and always guarantees an efficient production.

We are convinced of Siemens control and circuitry technology and therefore use the latest version for all applications. Siemens is a global player and guarantees a quick spare parts supply worldwide. Thanks to the continuous use of PROFINET and Ethernet, all information is available anywhere at any time. All controlled axes are monitored via absolute value encoder technology. This eliminates a time-consuming calibration of the plant in case of a blackout. Our service engineers, which are based worldwide, can offer support at any time by using the already installed internet remote maintenance.



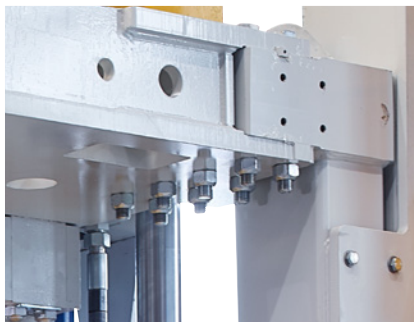
# Features

1



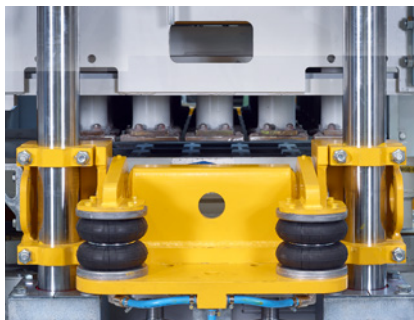
The high quality servo compaction system named Ultra-Dynamic stands for a very high compaction and extreme dynamics. It therefore guarantees a quick and efficient production of top-quality products. Especially for products with a large volume and also for premium products, which are produced with pre- and intermediate vibration, this vibration system provides many advantages. The system works without an oil bath supporting an eco-friendly and low-maintenance production.

2



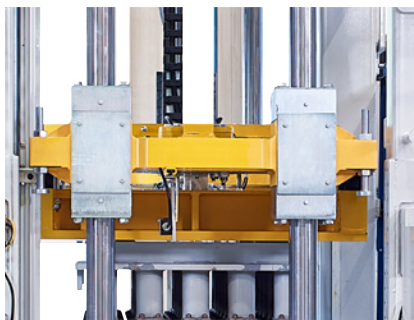
The use of screw fittings for the vibration table, the motor cross beam and the frame side parts is a special feature of this machine. It is unique on the market as it can adapt to customer's production conditions. The screwed construction also provides for resistant connections and an excellent stability.

3



The pneumatic mould clamping device provides for an easy mould change. The mould is positioned without further fastenings - e.g. bolts - on the mould holder. It is fixed by the pneumatically operated clamping levers. Optimal vibration results and a longer mould life time are achieved thanks to the individual adjustments of pre- and main vibration. The mould clamping device can now be adapted to mould fastening systems of other machine and mould manufacturers.

4



A new traverse has been developed for the machine ZENITH 1500-2 which allows to remove the columns individually from the side. This new feature saves a lot of time during maintenance work and the exchange can be carried out much more safely and with less effort. The entire geometry of this assembly including columns is identical to the previous machine ZENITH 1500. It is possible to retrofit this new traverse on existing machines.

5

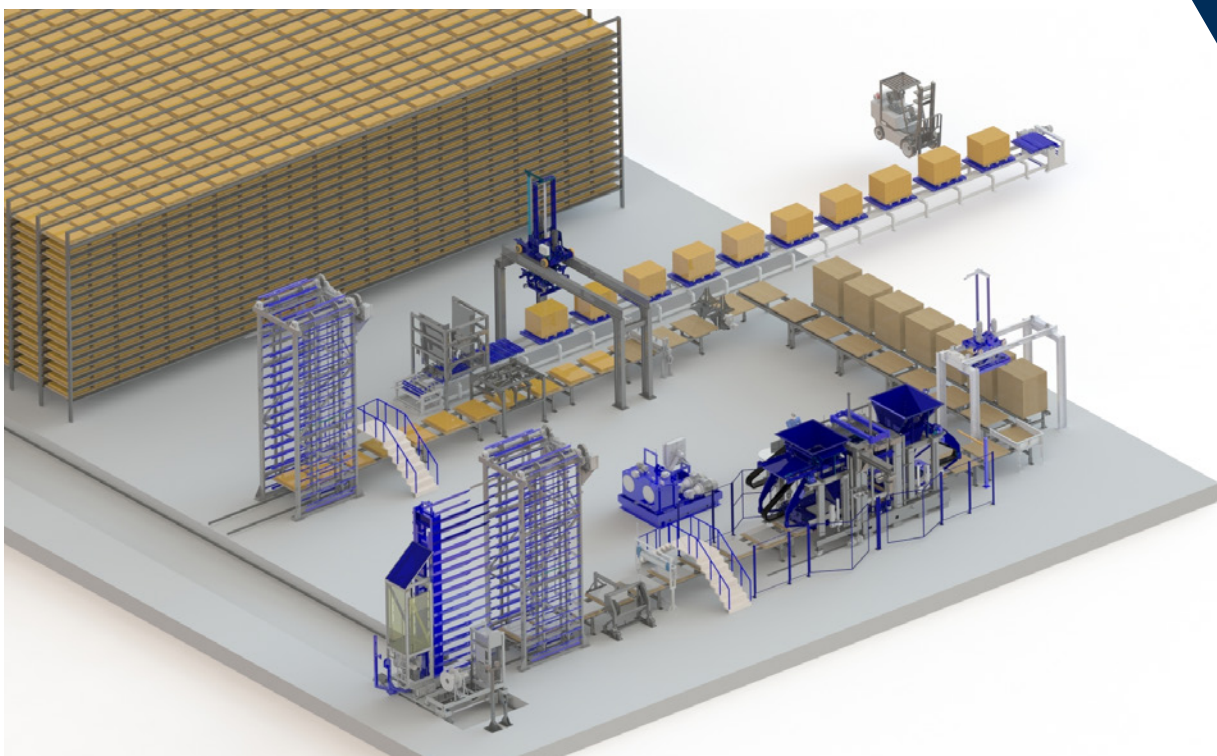


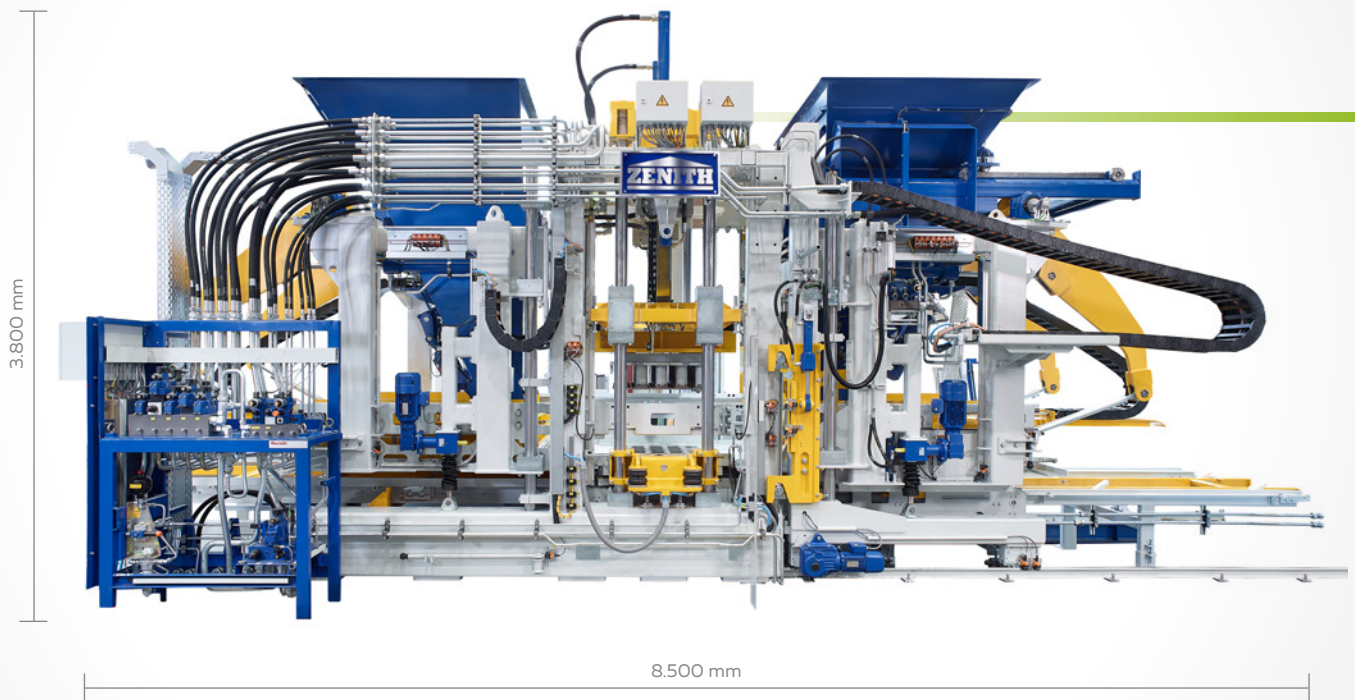
The self-explanatory and intuitively visualization concept guarantees for an easy learning of the machine operation. A new diagnostic design supports the operators in choosing the best adjustments. Time-consuming trouble shooting is no longer necessary and production downtimes are reduced to a minimum. By using the latest database technology, all information can be recorded, evaluated and stored. This data is available anywhere thanks to the complete plant networking.

## Examples of products



## Layout





## Technical details

### Features

#### Features

Max. block height	500 mm
Min. block height	40 mm
Optional block height (min.)	30 mm

#### Pallet size

Standard	1.400 x 1.100 x 50 mm
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Different pallet sizes are possible

#### Back concrete hopper

Volume (geometric) max.	2.500 l
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#### Face mix hopper

Volume (geometric) max.	2.500 l
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Different hopper executions for multi-color production are possible.

Max. feeding height	4.700 mm
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#### Machine weight

With face mix unit and mould	ca. 36.000 kg
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#### Machine dimensions

Max. total length	8.500 mm
Max. total height (transport)	3.800 mm
Max. total width	3.300 mm

### Machine data / Power supply

#### Vibration system

Vibrating table one part, Ultra-Dynamic servo vibration with frequency and amplitude control (centrifugal force max.)	175 kN
2 tamper head vibrators (centrifugal force max.)	35 kN

#### Hydraulics

Capacity (total)	540 l/min.
Operation pressure	160 bar

#### Electrics

Connection power (standard) with face mix unit	160 kW
Control system Siemens S7-1500, TIA Portal	

Operation via Touch Panel

Technical details are subject to changes – without prior notice. Pictures of equipment shown are examples only. Photos may include options as per customer's demand.



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