

Single Pallet Machine



Quick Mould-  
changing System

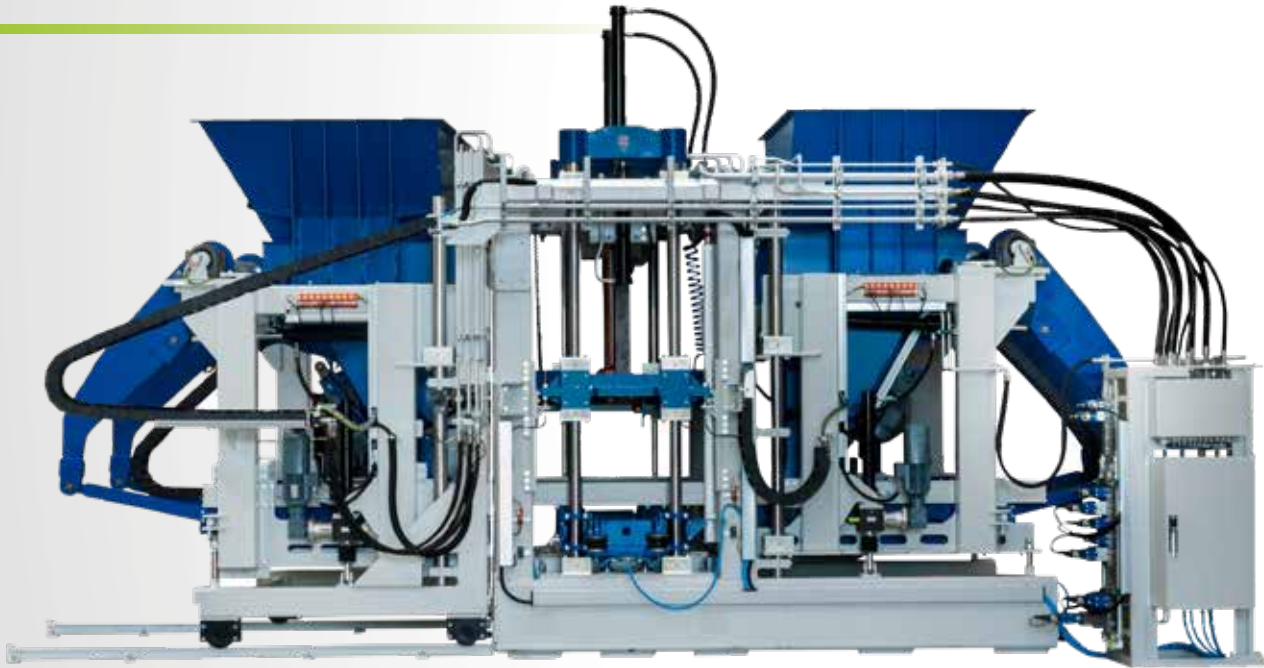


Servo Vibration  
System

# 1500

## Fully automatic stationary Single Pallet Machine

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The newly designed high-performance single pallet machine ZENITH 1500 forms the centerpiece 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. The use of screw fittings allows easy exchange of all wear parts within shortest time. Due to the screwable design of the vibration table, the motor cross beam and the frame side bars, 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 program.

Moreover, the plant is equipped with a revolutionary control and diagnostic system which supports the machine operator during his work and therefore always guarantees an efficient production.

We are using Siemens Control and Circuitry Technology for all applications. Siemens is a global player and guarantees a quick spare parts supply worldwide. You can be sure that we are always using the latest and fastest technology. 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 single pallet machine ZENITH 1500 is working with an innovative servo compaction system named **Ultra-Dynamic**. This high quality vibration system stands for a very high compaction and extreme dynamics and therefore guarantees a quick and efficient production of high quality products. Especially for products with a large volume and also for high quality products, which are produced with pre- and intermediate vibration, this vibration system provides many advantages.

2



The previously mentioned design with screw fittings of 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 the customer's production conditions.

3



The suspended filler box design is created for an optimal filling of the mould and improves the performance of the equipment. The main focus was put on a simple and time saving handling. As a result, the filler box cabinets for face and base mix are designed as quick change systems. The adjustable scraper frames on the rubber pads allow for high flexibility.

4



The new electrical tensioning of the face mix unit is also unique on the market. This efficient solution provides for a quick and safe connection of the machine base part with the face mix unit. A safe and fully automatically opening and closing of the face mix unit is possible. Quick and short mould change and maintenance times are major advantages.

5



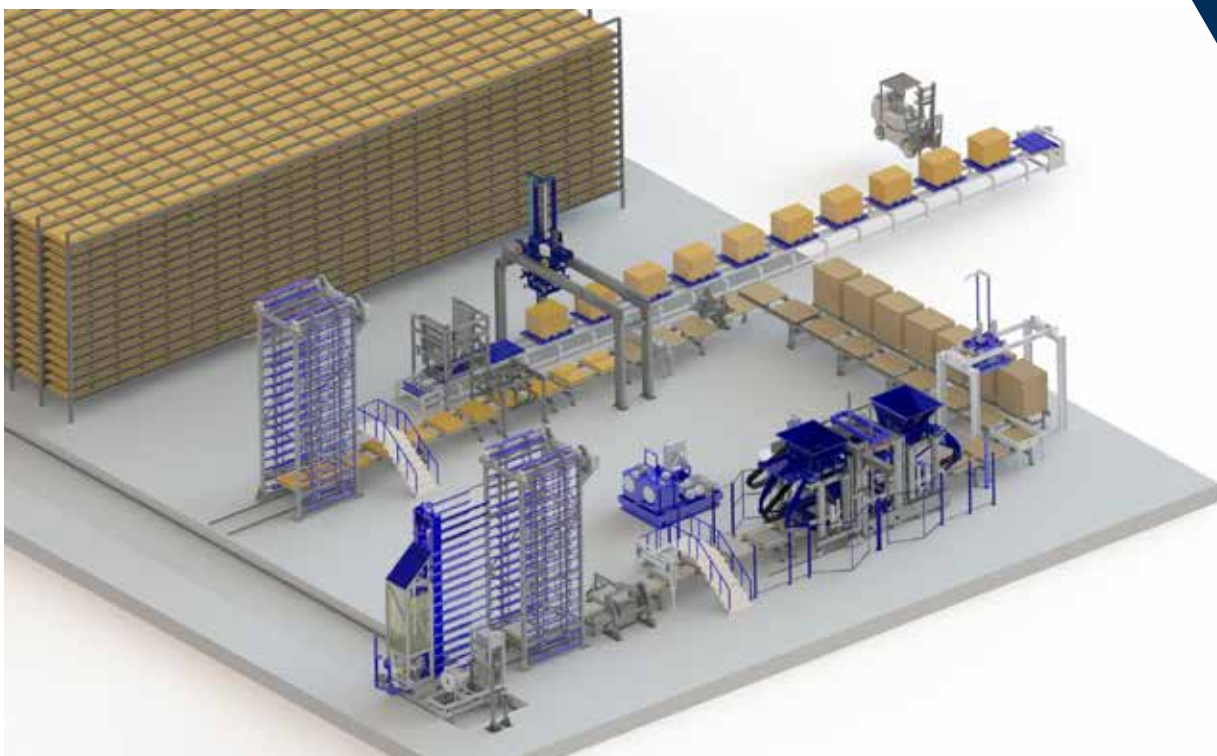
The self-explanatory and intuitively visualization concept guarantees for an easy learning of the machine operation. A new diagnostic design supports the operators in choosing the best adjustments. Time-consuming trouble shooting is therefore no longer necessary and production downtimes are reduced to 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            | 50 mm  |
| Optional block height (min.) | 30 mm  |

#### Pallet size

|          |                  |
|----------|------------------|
| Standard | 1.400 x 1.100 mm |
|----------|------------------|

Different pallet sizes are possible

#### Back concrete hopper

|        |         |
|--------|---------|
| Volume | 2.500 l |
|--------|---------|

#### Face mix hopper

|        |         |
|--------|---------|
| Volume | 2.500 l |
|--------|---------|

Different hopper executions for multi-color production are possible.

|                     |          |
|---------------------|----------|
| Max. feeding height | 4.700 mm |
|---------------------|----------|

#### Machine weight

|                              |               |
|------------------------------|---------------|
| With face mix unit and mould | ca. 36.000 kg |
|------------------------------|---------------|

#### 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 optionals as per customer's demand.



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