

Single Pallet Machine



Servo Vibration System

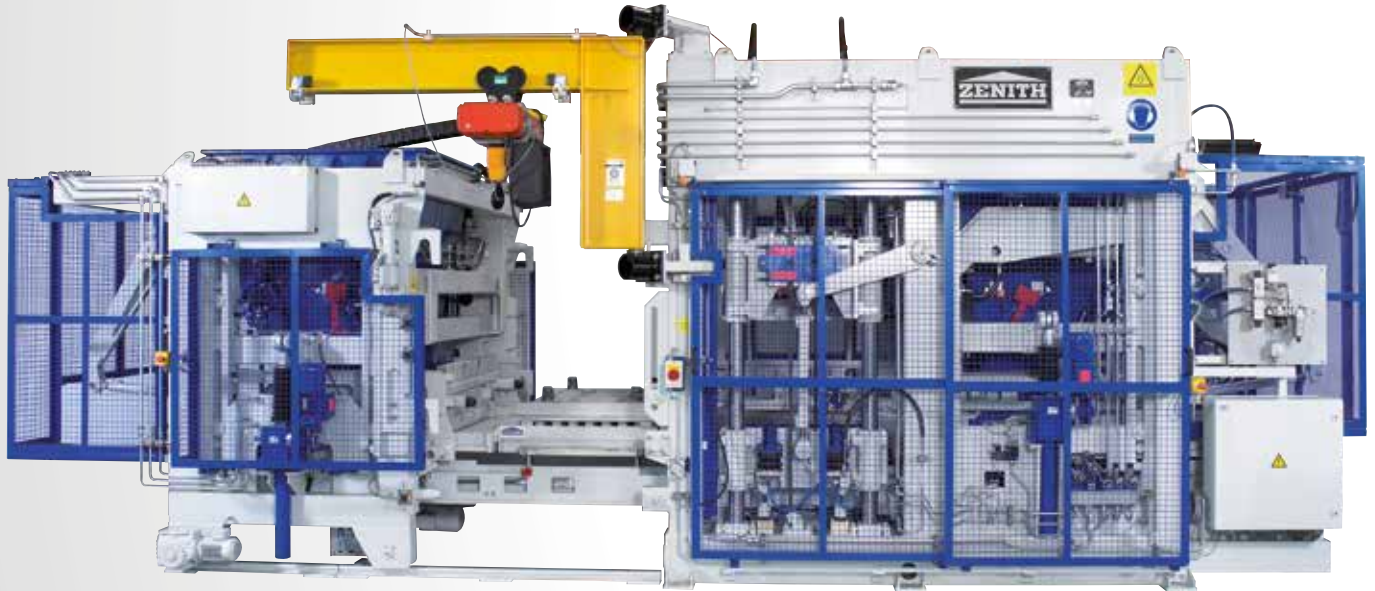


Energy-efficient

860-4

Fully automatic stationary
Single Pallet Machine

860-4



Fully automatic stationary Single Pallet Machine

As with all single pallet plants of ZENITH, the single pallet machine 860-4 incorporates efficient production, an excellent price/performance, combined with top engineering qualities. To ensure continuous performance from delivery of aggregates to final cubes, the machine is the final link between batching and mixing and the handling system. Considering local conditions, the grade of automation can be adopted, ranging from simple forklift handling to fully automated lines including finger car system and curing racks.



The 860-4 is designed for a comprehensive product range: from 50 to 500 mm height, for horizontal and vertical market segments as well as landscaping. The well-proven ZENITH vibration systems, either with three part vibrating table or alternatively with one part vibrating table with Ultra-Dynamic servo vibration as well as innovative and dependable hydraulic and electric control systems are big assets in meeting International Standards. Quick mould changes, fast production cycles, operator friendly processes including visualisation are main features. An experienced engineering team will help you in planning and implementation whether in green field operation or in up-grading existing plants. You are never alone – at any stage of the investment. During the entire project, ZENITH will accompany you to guarantee highest success. The experienced ZENITH team provides full assistance during planning stage, pre-delivery inspections, erection, commissioning as well as trouble shooting and full maintenance programmes.



Features

1



The changeover times of moulds can be minimized with the optionally available mould quick change system to increase availability of the machine. This system uses a mould transport and installation system, tamper head quick change device and a pneumatic mould suspension.

2



The vibrating tables that are used with this machine guarantee for highest quality of your products. The established three part vibrating table is equipped with frequency controlled and extremely low-maintenance exterior vibrators. The alternative one part vibrating table with frequency and amplitude control allows a large variety of products.

3



Precisely guided feed drawers with hydraulically driven grates guarantee constant product heights even with moulds that are difficult to fill. All contact surfaces are equipped with exchangeable wear-rails and -plates made of special steel. This means low spare parts cost even at high utilization of machine.

4



Beside the tamper head locking system that is necessary for production, the machine is outfitted with tamper head/mould blocking system to ensure that also sensitive products can be made in highest quality.

5



The machine is controlled via a 22" Touch Panel. This innovative technology with self-explanatory and clearly structured menu navigation helps your operating personnel to familiarize with the machine within shortest time and to work efficiently right from the start.

6

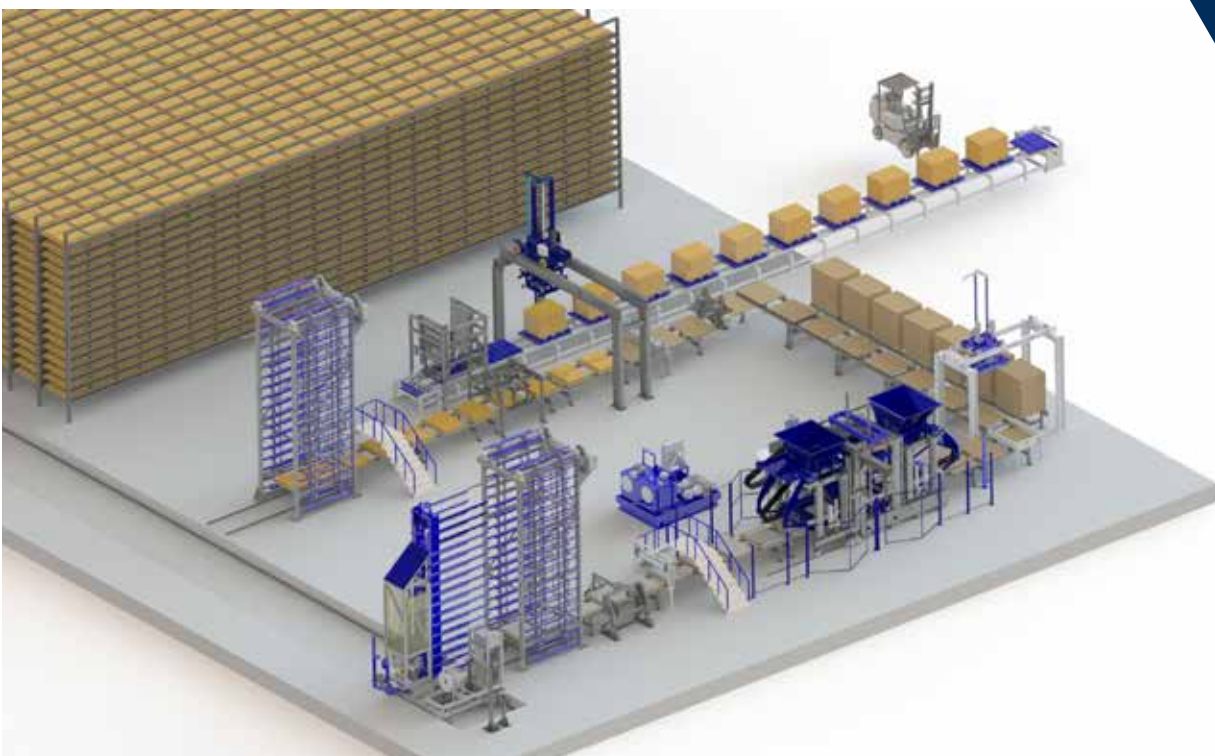


For the four main movements - mould, tamper head and both feed drawers - proportional controls according to the latest state of the technology are used. Maximized speed, repeat accuracy and availability lead to products of highest quality and excellent price/performance ratio.

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
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Different pallet sizes are possible

Back concrete hopper

Volume	2.400 l
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Face mix hopper

Volume	2.400 l
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Different hopper executions for multi-color production are possible.

Max. feeding height	3.900 mm
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Machine weight

With face mix unit and mould	ca. 26.000 kg
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Machine dimensions

Max. total length	7.000 mm
Max. total height (transport)	3.300 mm
Max. total width	3.100 mm

Machine data / Power supply

Vibration system

Vibrating table - three part, mounted in working direction	
6 table vibrators, each vibrator with own frequency converter and energy recovery (centrifugal force max.)	170 kN
alternatively:	
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

System: multi circuit, medium pressure	
Capacity (total)	370 l/min.
Max. operation pressure	190 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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