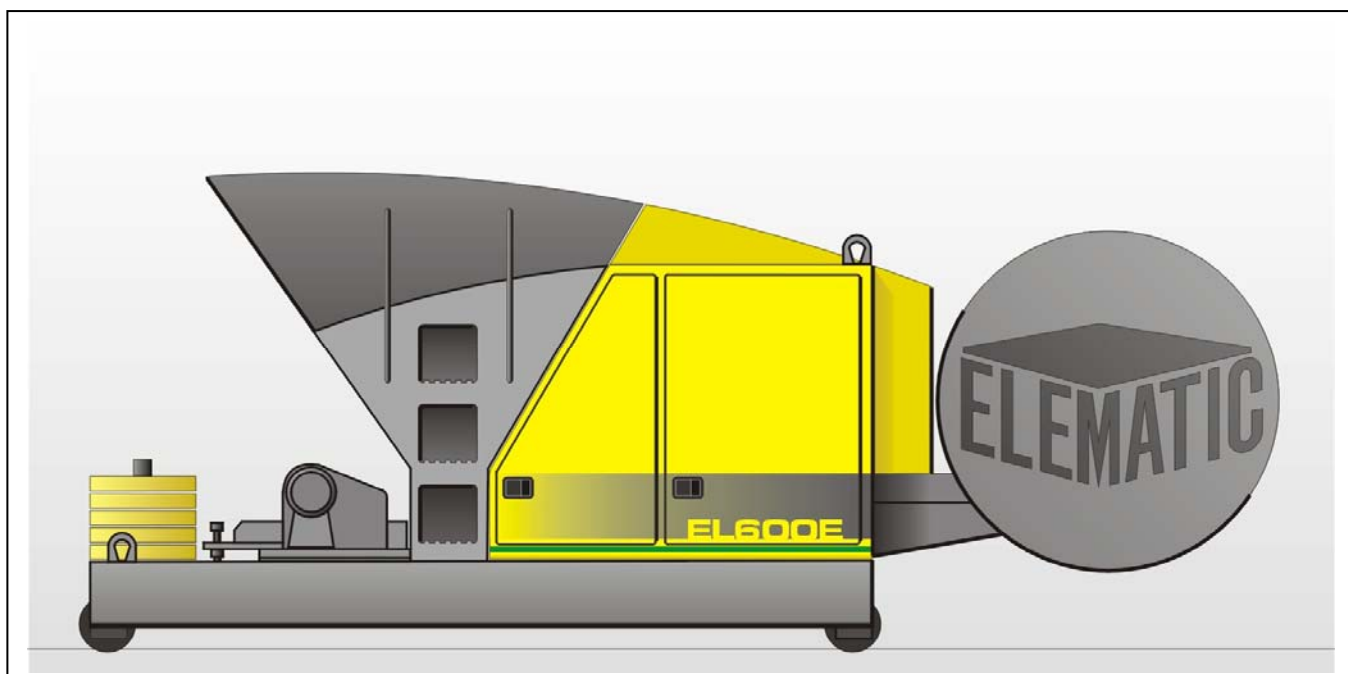


EXTRUDER

Extruder EL600E



Key words: Elematic Extruder EL600E, extruder, hollow-core slabs, HC-wall panels, prestressed flooring,.....



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1. Introduction

An extruder is a production machine for various sizes of hollow-core floor slabs.

Elematic extruder EL600E is the right economical solution for a producer who needs to manufacture a limited selection of different sizes of hollow core slabs.

The Elematic extruder EL600E is the new, advanced evolution model of the popular EL 600-series.

Not only is the Elematic extruder EL600E good-looking, it is also useful and completely safe.

- Cross-sections available from 150 mm up to 265 mm
- A wide range of heavier or lighter slab cross-sections
- A compact unit
- All the functions are electromechanical
- Robust and well-engineered construction

1.1. Advantages

Top surface quality and slab accuracy

The shear compaction technology and latest inventions in machinery development have optimized the compaction of concrete, producing high-quality end products

High wear-resistance

The main wear parts are engineered to be maintenance-friendly, and made of the most wear-resistant materials in order to achieve a long service life

Elimination on unscheduled down time

Equipped with fixed power and nozzle units, it enables changes to be made quickly from one slab height to another, using the same number of voids.

Easy operation

The machine uses electromechanical functions, which means that no monitoring of the casting stages and there is no need to make adjustments while casting.

1.2. General data

The Elematic Extruder EL 600E produces prestressed hollow-core slabs, and walls with 8 to 6 voids.

Casting width 1,2 m.

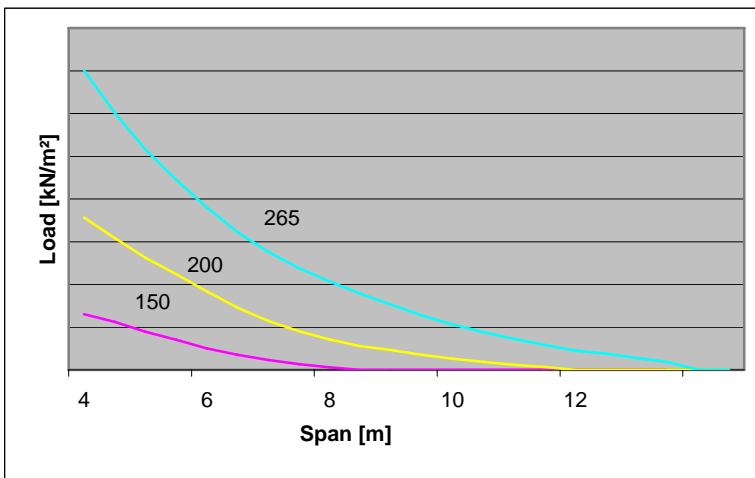
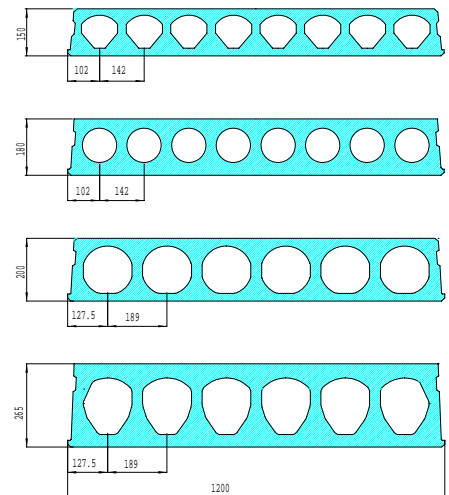
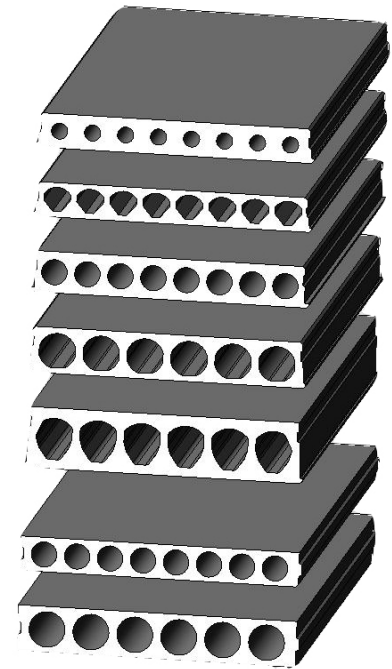
Thickness:

Hollow-core slabs 150 – 265 mm
Hollow-core wall panels 150 – 200 mm

1.3. Detailed data

Extruder hollow-core slabs.

Voids	Height, mm	Weight, kg/m ²
8	150	204
8	180	270
8	180	270
6	200	236
6	265	352



Standard hollow-core wall panel sets

Voids	Height, mm	Weight kg/m ²
8	150	207
6	200	251

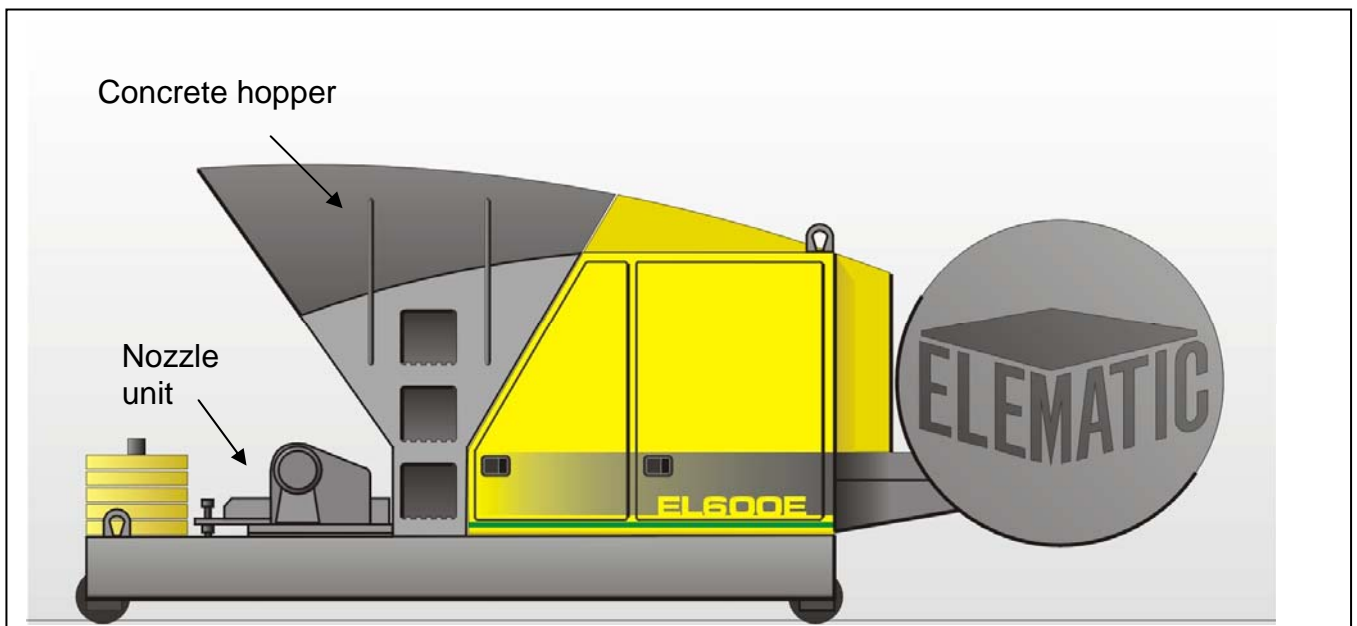
2. Key features

The extruder technique is based on the shear compaction method. Thanks to this method the extruder is silent. The extruder casts the slabs in one phase and the voids are formed through the pressure of the feeding screws and the mechanically moving hollow tubes.

The Elematic extruder is designed for a casting width of 1.2 m.

The Elematic extruder EL600E is a compact unit with fixed power and nozzle units.

The extruder contains one concrete hopper, out of which concrete is fed into the feeding screws of the nozzle unit, and main operating motors. The nozzle unit contains as many feeding screws as there are voids in the slab. The extruder is designed to fit the number of voids that the HC-slabs have. The fed concrete is compacted in the nozzle unit. The extruder is moving during the cast through the reaction of the feeding screws.



2.1. New in EL600E

- New design, more user-friendly

- Easy to keep clean
- New construction, easier to service
- New materials of wear parts, long-lasting
- Extra weight at the back, ensuring a good and accurate product
- Less adjustments
- Variable weight at the back to ensure a good and accurate product

3. Product components

The EL600E extruder includes all the parts necessary to cast hollow-core slabs with the selected number of voids. It is a compact unit.

3.1. Power unit

The power unit is attached to the extruder. It includes the concrete hopper, the main motors, the main electric box, and the control panel. The hopper is detachable.

3.2. Nozzle unit

The nozzle unit is fixed to the extruder. It includes a set of feeding screws, side plates, top plate, and strand guides.

3.3. Additional required components

Cable drum and power cable

Extension part for the concrete hopper of the power unit.

Additional exchange parts to change the extruder so it produces different slab cross-sections with the same number of voids.

4. Technical data

Extruder EL600E

Length:	3000	mm	Without cable drum
Width:	1650	mm	
Height:	1700-1850	mm	Depend type of HC-slab
Wheelbase:	2780	mm	
Rail gauge	1290	mm	(Standard Elematic bed)
Weight:			
Total:	4400-6000	kg	Depends on type of HC-slab
Connection power	41	kW	
Concrete hopper	1,1	m ³	
Casting speed	1.2 – 1.8	M/min	Depends on HC slab

5. Additional information

Elematic EL600 extruders have been successfully delivered to several countries around the world, including the U.S.A., Spain, Denmark, Bahrain, Brazil, the Republic of South Africa, etc.





Elematic is a leading supplier of precast concrete machinery and equipment as well as the only supplier capable of delivering complete production plants anywhere in the world. Elematic's superior technology and industry expertise is currently in use in more than 100 countries across five continents. Elematic is headquartered in Toijala, Finland.



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