

Elematic, 37801 Akaa, Finland

New technology levels to non-load bearing partition wall production lines

Elematic, a world-leading manufacturer of precast concrete plants and production lines, launches new technology level choices to their Acotec wall production lines. Acotec line is meant for manufacturing of light, non-load bearing, room-high precast partition wall panels. The new technology levels are called SEMI, PRO and EDGE, and they differ by the degree of automation and capacity as well as the required investment size. All lines are quick and simple to install, run and maintain and require only very limited land area.

Elematic Acotec production lines for light, non-load bearing, room-high precast partition wall panels cover the entire production process from concrete batching all the way to storage yard management and beyond. They are all automated and very reliable as they consist of proven, standard components.

Three technology levels: semi, pro and edge

The new technology levels are launched in order to meet the varying customer needs. The semi line, with a production capacity of 80 m² per hour, is the simplest of them all and is an excellent choice for anyone start-

ing up in the business. It features a smart combined restacker handler and automation only for the key processes. The pro line offers a higher capacity of 100 m² per hour with automated functions for all main processes: sawing, trimming, stacking, restacking, cleaning & oiling, plate handling and pallet circulation. The fully-automatic Acotec edge offers a top-rate capacity of 120 m² per hour and needs only two operators to run.

All the lines – semi, pro and edge – feature a new advanced production control system. Thanks to the system, a simple, modern user interface shows detailed data on every function in the whole process. Various reports – on production rate, running hours

and more – are generated automatically. Modular structure of the lines and their integrated electricity with ETHERCAT bus system guarantee short installation and start up time of all lines, and the line can also be installed in existing production facilities. The production process is environmentally friendly as it is silent and non-vibrating, and the raw material can be recycled so no waste is created. Low energy consumption of the line keeps the production costs on a low level as well.

Benefits of Acotec wall panels

The Acotec wall panels are fast, easy and safe to install – building work proceeds up



Elematic Acotec line provides fast return on investment. They are quick and simple to install, run and maintain, and require only little factory space and land area.



All Acotec wall production lines feature a new advanced production control system and a simple, modern user interface that shows detailed data on every function in the whole process. Various reports – on production rate, running hours and more – are also generated automatically.



Acotec panels suit for various purposes: They offer excellent sound insulation (RW 38 – 48 dB), meaning that apartment buildings, schools and hotels benefit from this type of partition walls. Thanks to their top-rate moisture resistance, Acotec wall panels are also well-suited for bathrooms, kitchens and shower rooms.

SHEAR COMPACTION TECHNOLOGY

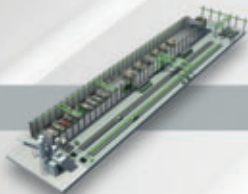
4TH GENERATION OF PROFITABLE PRECAST



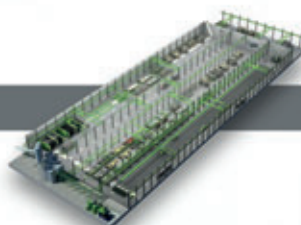
30 years have passed since shear compaction technology first saw the light of day on the drawing boards of Elematic's engineers. Smart Evolution for your benefit is at our very heart. Thus, four generations later,

the technology has been finetuned down to the last detail to give the best possible compaction result and the highest quality of precast products. Not to mention the clear savings in cement and concrete consumption.

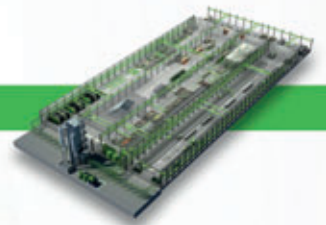
SEMI



PRO



EDGE

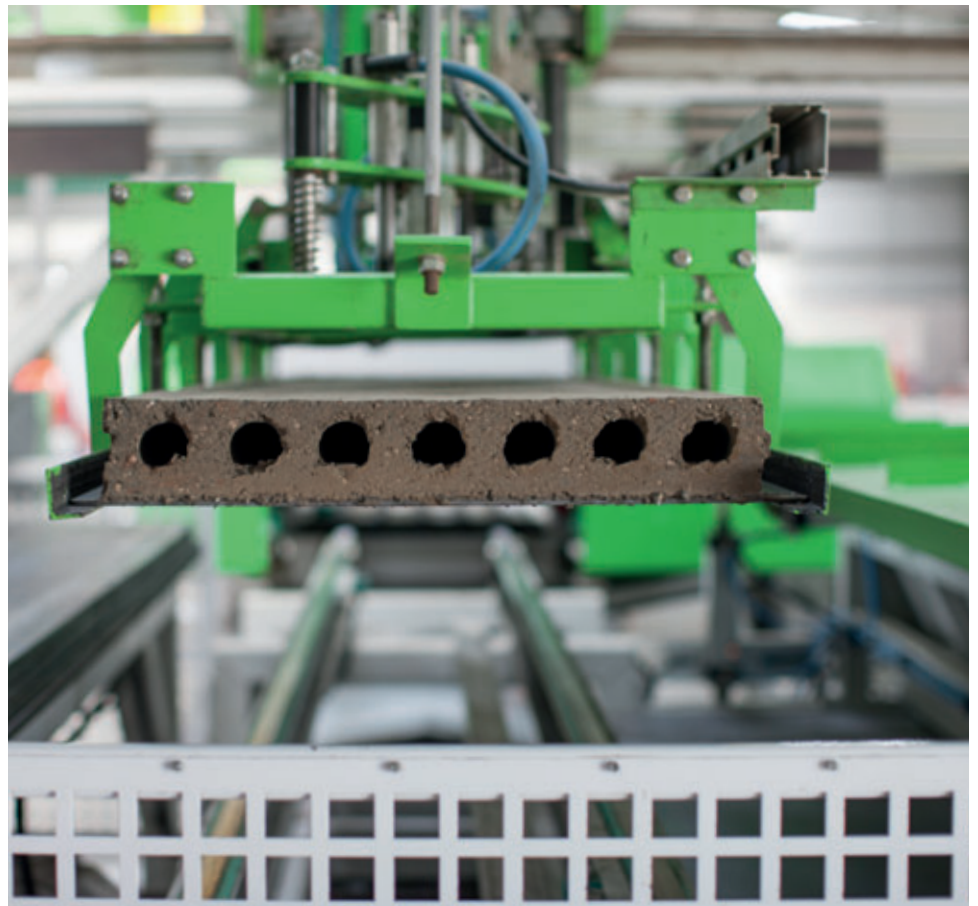


Elematic offers precast plants, lines, and machinery, as well as maintenance, optimization, and renewal.

Find out more on shear compaction at
www.elematic.com

ELEMATIC

SMART EVOLUTION



Elematic Acotec production line is meant for manufacturing of light, non-load bearing, room-high precast partition wall panels. The line covers the entire production process from concrete batching all the way to storage yard management and beyond.

Industrialized production process of the Acotec line translates into high quality that shows in exact panel dimensions and flat panel surface.

Elematic Acotec Technical information in brief	semi	pro	edge
Nominal production capacity	80 m ² /h	100 m ² /h	120 m ² /h
Production personnel	5-7	3-4	1-2
Automated processes	Sawing, stacking, restacking, plate handling	Sawing, trimming Stacking, restacking cleaning & oiling, plate handling, pallet circulation	Sawing, trimming Stacking, restacking cleaning & oiling, plate handling, pallet circulation, curing, packing
Required factory space	900 m ²	900 m ²	900 m ²
Required land area	3,000-5,000 m ²	3,000-5,000 m ²	3,000-5,000 m ²
Slab length	2,200-3,300 mm	2,200-3,300 mm	2,200-3,300 mm
Slab thickness	68-120 mm	68-120 mm	68-120 mm
Slab width	600 mm (300 mm also available)	600 mm (300 mm also available)	600 mm (300 mm also available)



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Acotec panels feature a thin structure, meaning that they leave more floor space for other purposes in a building than traditional partition wall solutions. Despite the thinness, Acotec walls are strong and meet the strictest of standards and requirements set for earthquake and fire resistance.

Modular structure of the Acotec lines and their integrated electricity with Ethercat bus system guarantee short installation and start up time of all lines. The line can also be installed in existing production facilities

to 6 times faster when compared with traditional brickwork and even two times faster than blockwork. The panels have exact dimensions and completely even surface so no plastering is needed. In addition, their thin structure leaves more floor space for other purposes in a building. Despite the thinness, Acotec walls are strong and successfully used in seismic areas, too. They suit for a wide variety of purposes such as bathrooms, kitchens and showers, thanks to the moisture resistance of the material. Acotec walls also offer excellent sound insulation, meaning that apartment buildings, schools and hotels benefit from this type of partition walls. ■

FURTHER INFORMATION



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