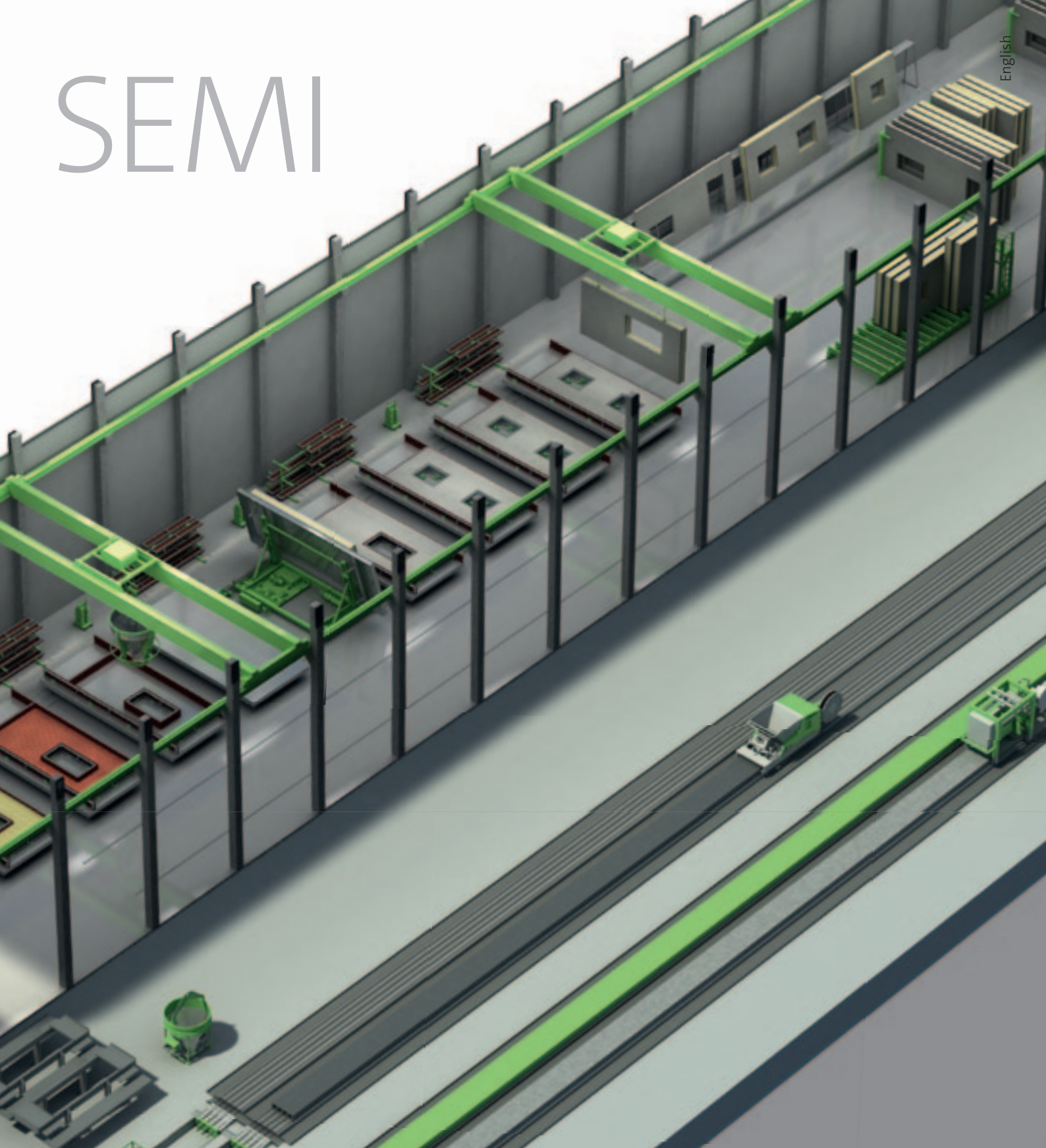


SEMI

English



COMPLETE PRECAST PLANT

ELEMATIC

EASY STARTUP

LOW INVESTMENT



Precast concrete is one of the world's most common building materials. It is adaptable and affordable – and saves a significant amount of materials and resources.

Saving concrete

Precast hollow-core slab is a good example. Production saves up to 50 percent in concrete compared to cast-in-situ floors. And with Elematic's shear compaction technology, consumption is reduced even more.

Combining looks and economy

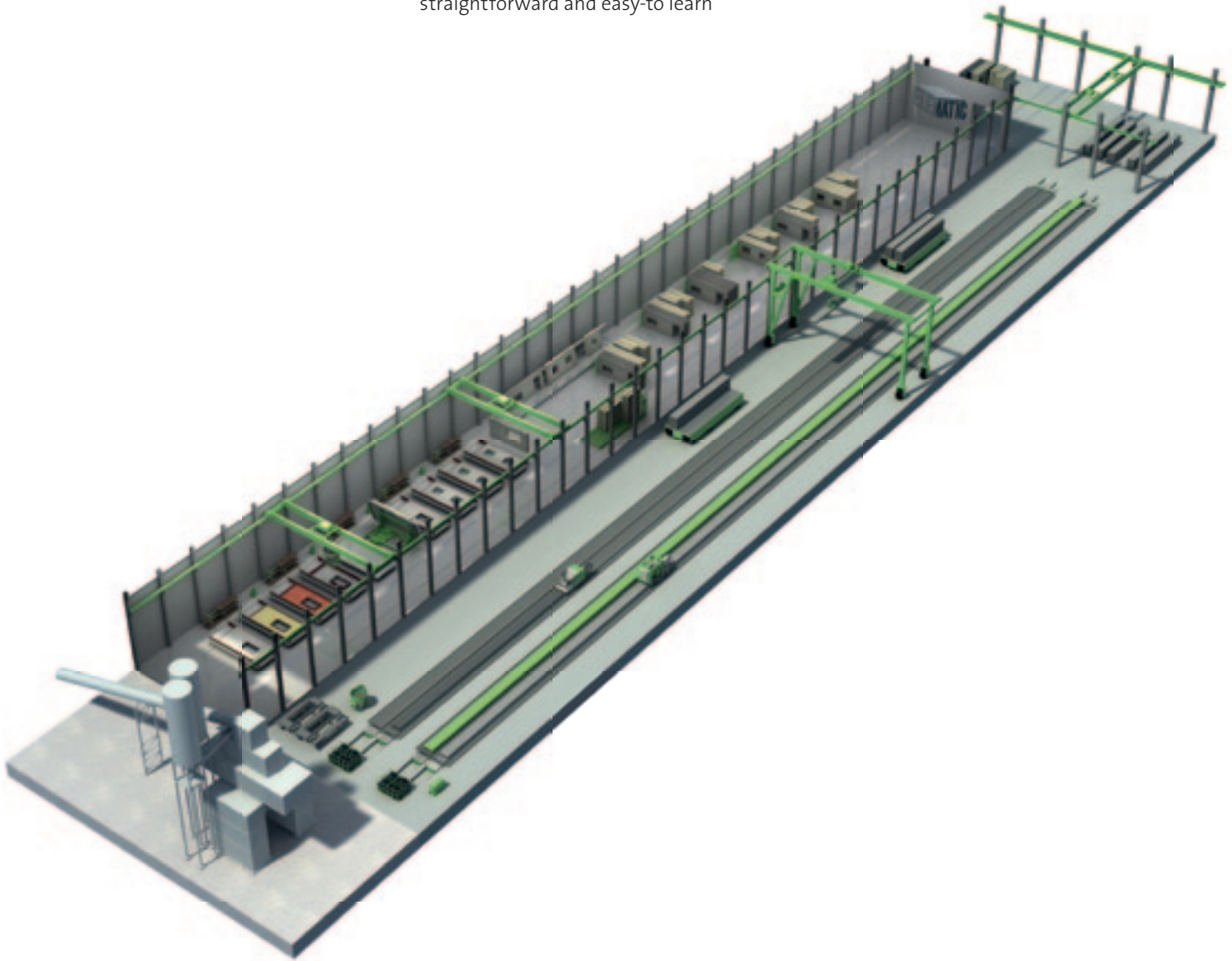
Precast can be both beautiful and cost-efficient – like sandwich panels produced with Elematic technology. The panels are insulated, which reduces energy consumption for cooling and heating. And the outer layer of the façade can have a variety of looks, such as brickwork, polished marble or granite.

THE SEMI PLANT

Elematic's SEMI production lines and machines are especially designed for precasters who need to produce smaller volumes of precast products.

The SEMI plant is the optimal choice for small scale production, projects and for newcomers to the industry. It is the affordable way to invest in precast with good performance. SEMI is based on straightforward and easy-to learn

technology to produce high quality end products with a low level of automation. All machines in SEMI represent advanced technology, modern design and good functionality.



Benefits at a glance

- Low investment
- Easy start-up
- Easy operation
- Easy maintenance
- High-quality end products
- Works also outdoors

Wall Products

- Sandwich panels
- Solid panels
- Cladding panels
- Solid slabs

Floor Products

- Hollow-core slabs

In figures

	Capacity/day	Personnel
Wall	280-600 m ²	10
Floor	144-576 m ²	9

All figures are estimates

THE SEMI WALL PRODUCTION LINE

Casting, compaction, and curing take place on stationary tables. The process is easy to overview and straightforward to execute. A cost-efficient solution well suited for low production capacities. Casting is achieved with an easy-to-use casting skip controlled by means of push buttons.

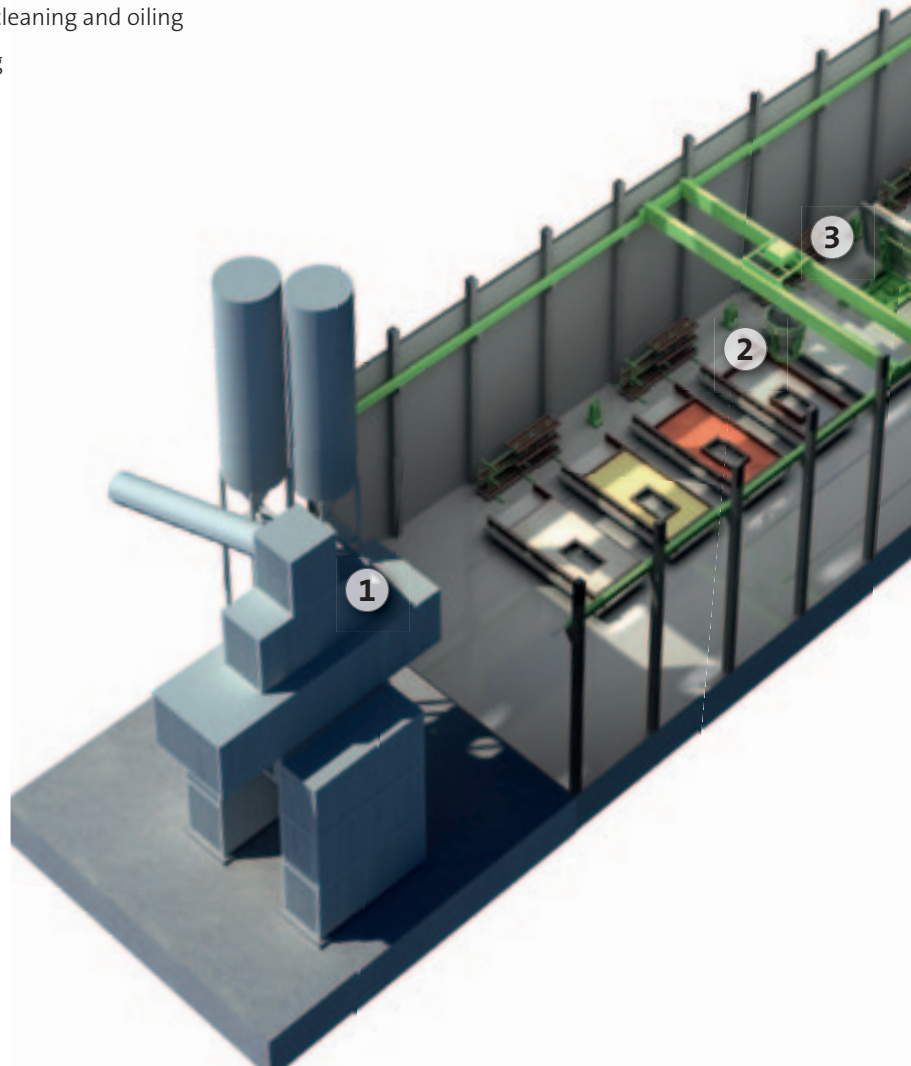
The tables are sturdy steel constructions with high load-bearing capacity (> 600 kg/m²). The core of the production line is Elematic's multifunction wagon that carries out compaction and tilting.

Benefits at a glance

- Sturdy steel tables
- Easy casting
- Efficient compaction of all tables
- Compaction and tilting with the multifunction wagon
- Little finishing work

Process

1. Batching and Mixing, mobile type
2. Casting, with Comskip
3. Compaction, Multifunction wagon
4. Curing
5. Demolding
6. Table cleaning and oiling
7. Storing

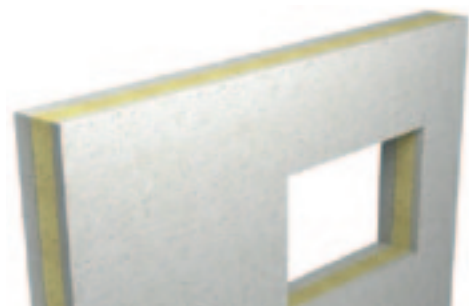


TYPICAL END PRODUCTS

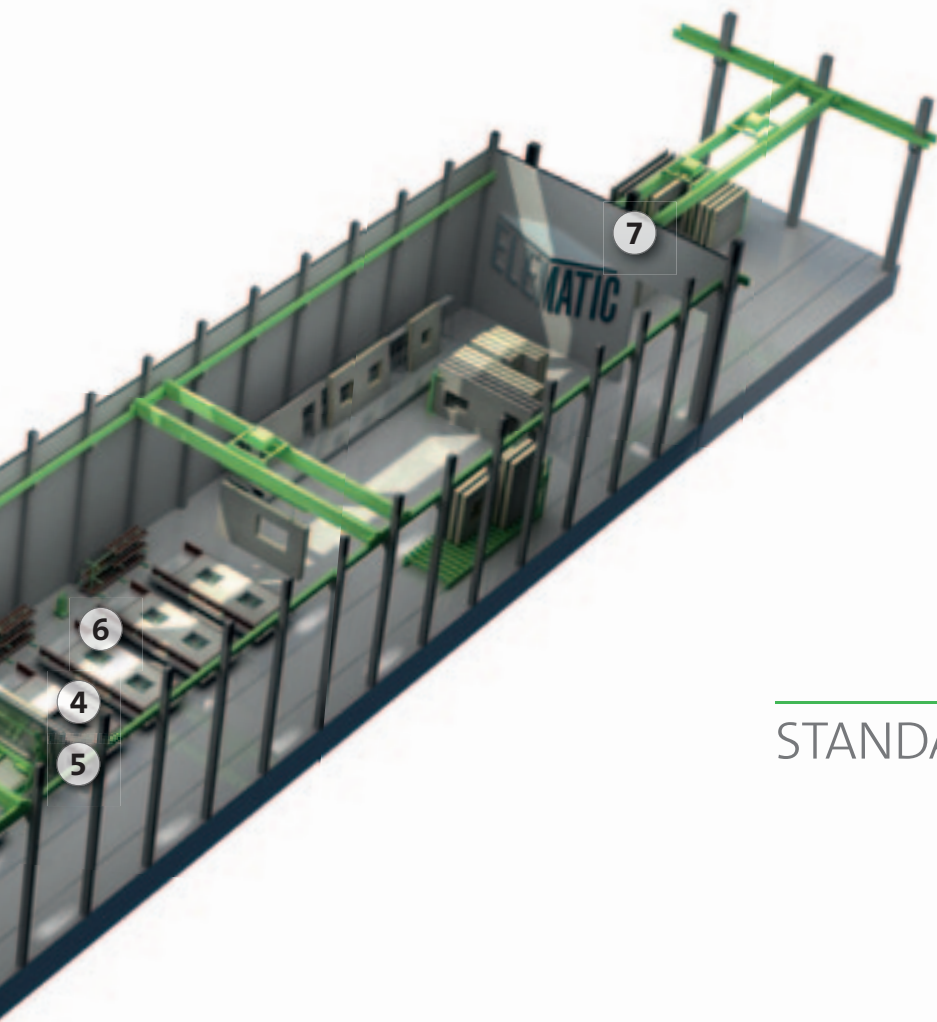
In figures

Theoretical capacity	280-600 m ² /day (one casting)
Personnel	10
Production area	2000 m ²
Land area	20000 m ²
No. of tables	10-15
Typical table size	3.5 x 8.0 m

All figures are estimates



Sandwich panels



STANDARD EQUIPMENT



Multifunction wagon S5-26

Moves on rails underneath the tables and compacts the concrete. The same wagon is used for tilting.



Comskip S5-3000

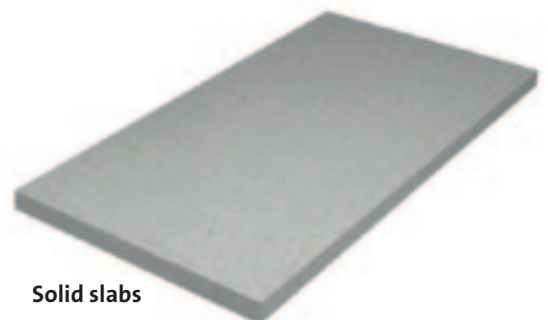
Used for distributing and casting concrete to the tables. Easy to operate by means of push button control.



Cladding panels



Solid panels



Solid slabs

THE SEMI FLOOR PRODUCTION LINE

The four beds are partly built on site but all surface plates, side rails and frames are provided by Elematic – as is the heating system for curing. Bed heating promotes better bonding between concrete and prestressing strands and speeds up curing. This is useful even in warmer climates.

The extruder features shear compaction. The technology saves concrete and is also very gentle on machine components. All machines are designed for ease-of-use and easy maintenance. To keep the investment to a minimum, parts of the process are solved by means of the precaster's own equipment or workforce.

Process

1. Batching and Mixing, mobile type
2. Bed preparation
3. Prestressing with single stressing device
4. Casting with Extruder
5. Curing, accelerated with bed heating
6. Cutting with multi angle saw
7. Storing

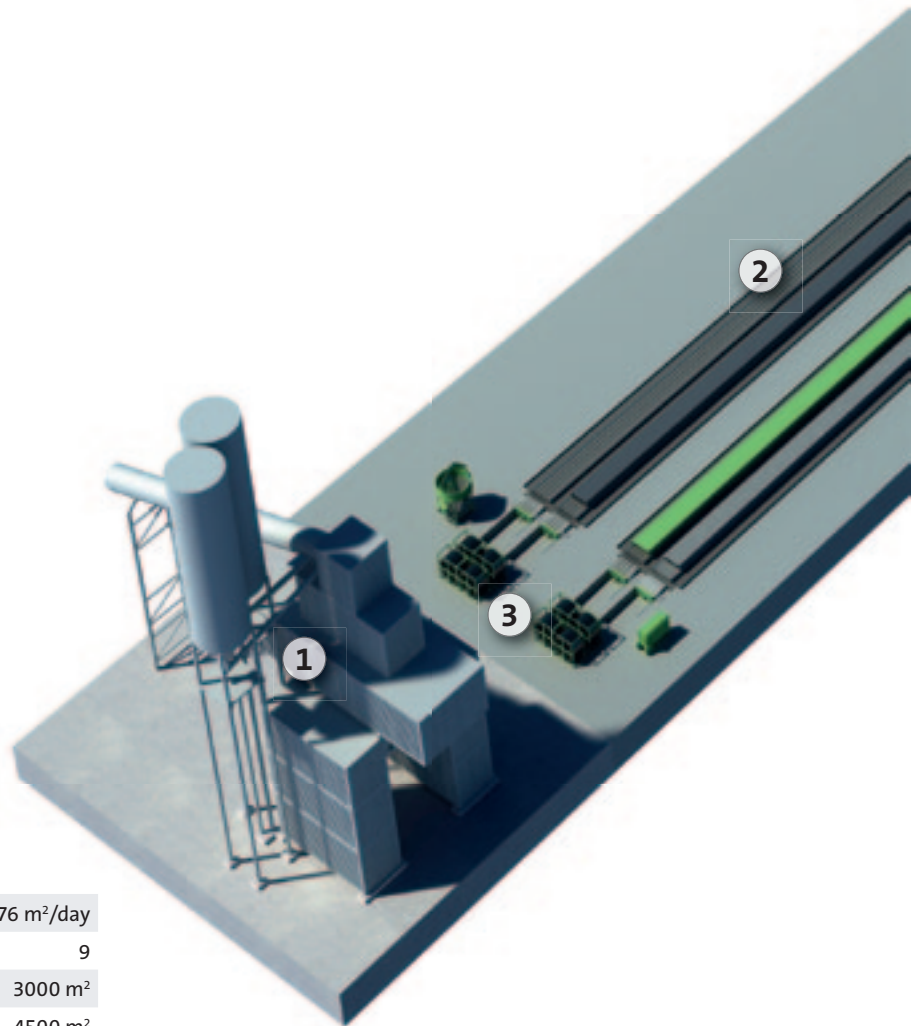
Benefits at a glance

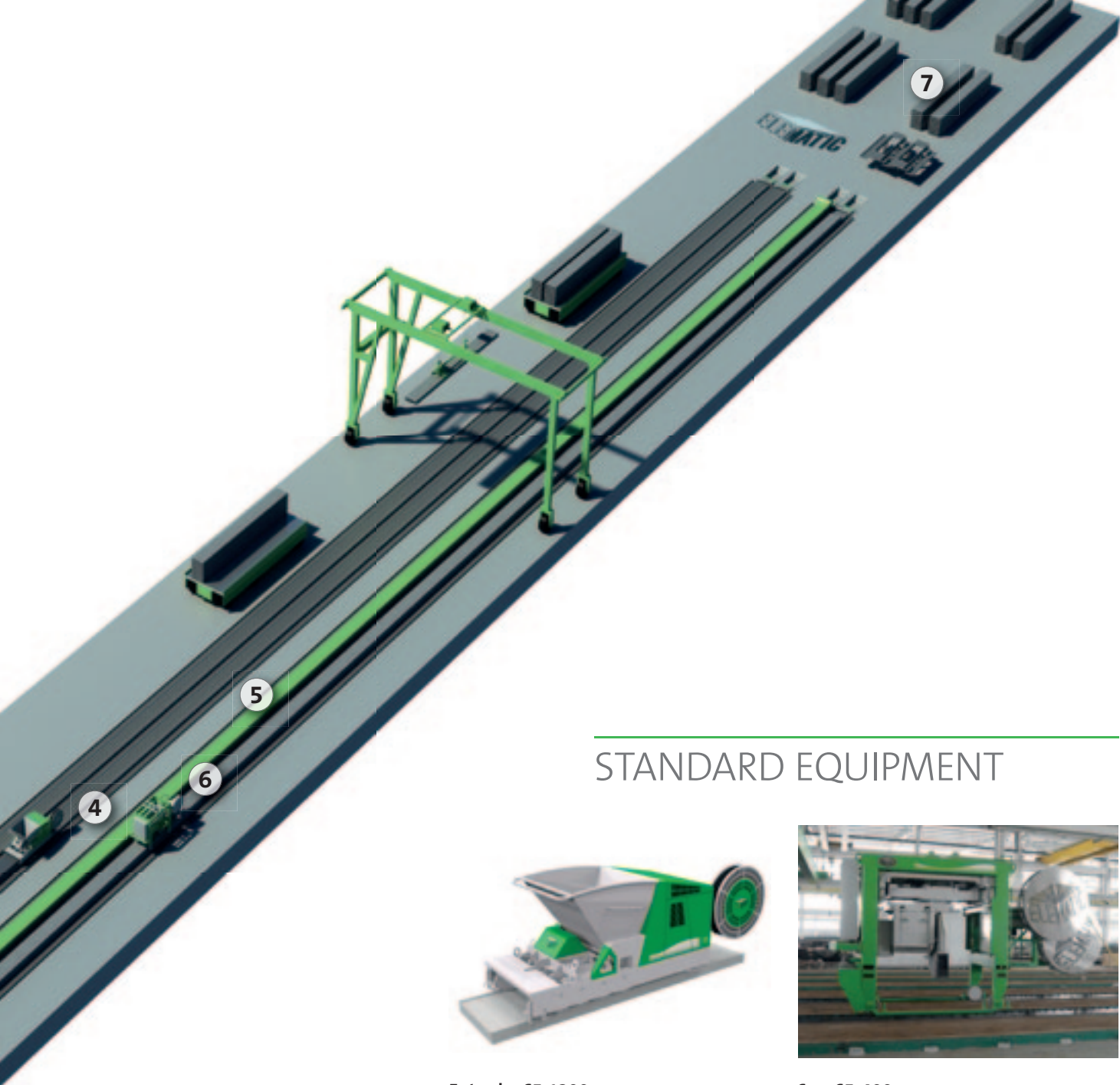
- Increased output with integrated bed heating
- Easy casting with extruder
- Low cement consumption

In figures

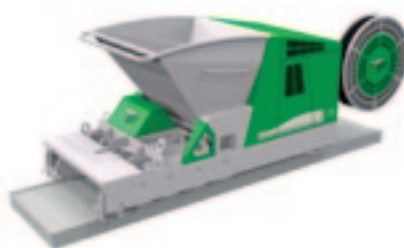
Theoretical capacity	144-576 m ² /day
Personnel	9
Production area	3000 m ²
Land area	4500 m ²
No. of beds	1-4
Max. hollow-core slab height	400 mm

All figures are estimates





STANDARD EQUIPMENT



Extruder S5-1200e

Saves concrete and prolongs component lifetime by shear compaction. Open design for easy cleaning and maintenance.



Saw S5-400

Proven saw technology. Reliable electrical controls. Cross/longitudinal cutting. Water feed for blade cooling.

END PRODUCT



Extruder: Hollow-core slabs

Elematic supplies precast concrete machinery and complete production plants for building construction worldwide. Elematic is the leading one-stop-supplier for precast concrete technology. Our customers are in the precast business of floors, walls, frames and foundations – or even all of them. Precast solutions for all needs – from small scale production plants to huge ones with the same high standards for structural and architectural design. Support throughout the life cycle assisting customers to achieve maximum profitability regardless of investment level.

That's our offer.

