PureWax Line - Automatic

Beeswax foundation production line



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APITAL d.o.o. is a Croatian manufacturing company specializing in the **design and production of stainless-steel machinery and complete industrial solutions**.

Our Production Program

We manufacture a wide range of machinery, including:

- Food processing machinery, with a strong focus on fruit processing
- Packaging and filling machines for various types of products
- Beekeeping machinery and custom constructions
- Auxiliary and custom-made equipment

Complete Processing & Packaging Solutions

In addition to individual machines, we deliver fully integrated production lines, such as:

- Juice production lines
- Filling lines for juice, honey, and jams
- Honey extraction lines
- Automatic beeswax foundation machines

Our diverse product portfolio enables us to equip complete production facilities, from small-scale operations to industrial plants.

Engineering Expertise & Quality

Our manufacturing process is supported by a multidisciplinary team of mechanical, electrical, and IT engineers, ensuring seamless integration, technical excellence, and the ability to deliver even the most complex and demanding systems.

Our commitment to high quality, reliability, and sustainable manufacturing is confirmed by our ISO 9001 and ISO 14001 certifications.

Why choose APITAL?

- High performance. Sensible cost.
- Big enough to build complex machines. Small enough to listen and adapt.
- Designed for fast cleaning and easy maintenance.
- Simplicity is reliability. Fewer parts mean fewer problems.
- Designed to minimize footprint — because production space is a valuable resource.

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PureWax Automatic Line

is the beeswax foundation production line which has been developed to ensure stable, efficient, and precise production of beeswax foundation sheets, with minimal manual handling and consistent product quality. The line is designed to produce cold-rolled foundation sheets and is engineered for reliable continuous operation, even under increased workload conditions.

With fifteen years of experience in manufacturing beeswax foundation production lines, we have successfully delivered over 10 systems to clients across Europe.

At the core of the line are engraving rollers, providing an accurate cell pattern and uniform foundation structure. Production control is simple and intuitive via a central control cabinet, enabling quick adjustments and stable operation.

The line allows fast and easy setup for different foundation sheet dimensions, adaptable to various hive types. After forming, the foundation sheets are transferred to an automatic receiving table with height-adjustable lowering, reducing manual handling and improving operator safety.



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Roller cooling is performed using water in an open-loop system as standard. As an optional upgrade, a separate closed-loop cooling system can be supplied, offering improved water efficiency and enhanced process stability.

Operator training can in our factory is included in price, ensuring quick commissioning and optimal use of all system functions. The robust mechanical design, reliable components, and user-friendly operation make this production line an ideal solution for small, medium, and large beekeeping operations focused on in-house or commercial foundation sheet production.

We use only high-end components from leading brands, including Schneider electronics and Festo pneumatics.

While engraving rollers can be sourced from various suppliers, in 2026 we launched our own in-house production specialized capability shared by only a handful of companies worldwide. Leveraging our extensive beekeeping experience, we design our engravings to be perfectly tailored to the specific needs of beekeeping.

Technical description:



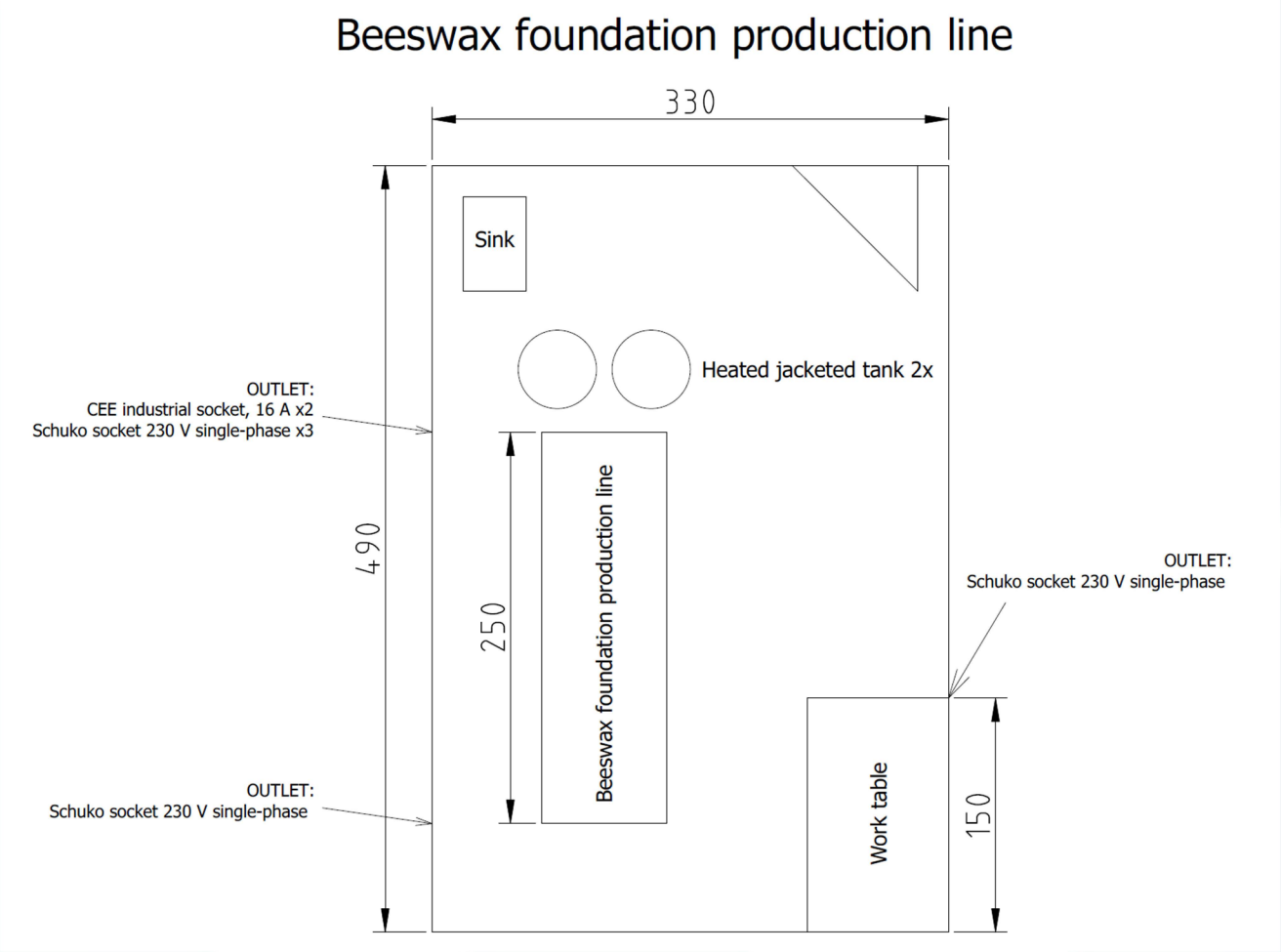
- production capacity of 25 kg/h (versions available from 10 to 50 kg/h)
- engraving roller dimensions: 450 mm × 86 mm
- easy production control via a control cabinet
- quick adjustment of settings for different wax foundation dimensions depending on the type of beehive
- automatic lowering of the wax foundation receiving table
- testing and training at the factory location are included
- Roller cooling is carried out using water in an open circuit, with an option to order a separate closed-loop cooling system as additional equipment.

The daily processing capacity within an 8-hour shift ranges between 150 and 250 kg of beeswax foundations. This output depends on the ambient and cooling water temperatures and assumes sufficient sterilizer capacity. Sterilizers are activated the day before processing

to ensure the wax is properly sterilized and cooled to the optimal temperature for further production.

The line is operated by a **single person**, and the hourly electricity consumption is approximately **3 kWh** (excluding the sterilizer).

Project layout example:



Utility requirements:

- Electric supply 4 kW (without sterilization tank)
- CEE industrial socket, 16 A, three-phase
- Schuko socket 230 V single-phase
- Water inlet and outlet
- Compressed air 6 bar

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Offer:

20102	Cold-rolled foundation sheets	**PureWax COLD Automatic Line**
2011	Hot-rolled foundation sheets	**PureWax HOT Automatic Line**

Please note the production line does not include the sterilizer.

Optional / Spare parts:

108070	The wax sterilizer tank 70 l, 2 kW, 400 V	Per request
108070	The wax sterilizer tank 100 l, 3 kW, 400 V	Per request
108070	The wax sterilizer tank 150 l, 3 kW, 400 V	Per request
108070	The wax sterilizer tank 200 l, 6 kW, 400 V	Per request
108070	The wax sterilizer tank 300 l, 9 kW, 400 V	Per request
108070	The wax sterilizer tank 500 l, 12 kW, 400 V	Per request
	Water cooling chiller	Per request
	Thermo oil 1 l	Per request
	Glycerin 1 l	Per request
	Installation and training at the customer's site	Per request
	Air compressor for operating the pneumatic knife	Per request
	Transport	Per request

Delivery Terms: Ex works (pickup at our facility in Vrbovec) or delivery by agreement

Typical lead time: 12 – 16 weeks from order confirmation

Payment Terms: 30% in advance, remaining amount before delivery

Warranty period: 2 years

Made in the European Union – Croatia, City of Vrbovec

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