PureHoney Line

Honey extraction 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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PureHoney Line - Automatic Honey extraction line

Honey extraction line is a system developed with the aim of optimizing the honey extraction process, reducing manual labor and ensuring a high level of hygiene during processing. Each segment of the line is precisely engineered to enable continuous and reliable operation during peak seasonal workloads.



The process begins with a semi-automatic pneumatic system for ejecting frames from hive supers, significantly speeding up frame preparation for uncapping. This is offered as an optional feature and is not necessary for the operation of the extraction line (OPTION A).

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This is followed by an uncapping machine that automatically removes wax cappings from both sides of the frames with minimal wax distortion. Our specially designed uncapping knives are precisely heated by digitally controlled hot water, ensuring consistent performance and clean cutting. We believe that a water-heated knife is a superior solution compared to an electrically heated knife, as electric heaters may cause uneven temperature distribution and localized hot spots with excessively high surface temperatures.



The uncapping machine has a capacity of 7 Langstroth frames per minute, which ensures preparation for an 80-frame extractor in less than 12 minutes.

In addition, even the standard uncapper model is equipped with an extra cutting system developed to open any cells that may remain sealed after the first knife pass due to irregular wax surfaces or imperfections in the wooden frame. This is a major advantage, as it eliminates the need for additional manual labour often required on many other uncappers available on the market. We believe this feature makes a significant difference and delivers exceptional value as a standard inclusion, without extra cost. The frames then move across a transport buffer with a capacity of 80 frames or more, ensuring a smooth transition between process stages and maintaining a steady workflow without interruptions. Frame movement inside the extractor is driven by a chain system, giving the operator complete control over speed and process flow.

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The central component of the line is an extractor with a capacity of 80 LR frames, made of stainless steel AISI 304 and designed for fast and thorough extraction of honey from the combs. It has four compartments, each designed to hold 20 Langstroth (LR) frames. The extractor lid opens automatically by means of a powerful pneumatic cylinder, which is highly important as it enables long-term operation even for operators who do not have strong arm strength. The rotation speed can be regulated automatically. If the honey frames contain a high amount of pollen or crystallized honey in some of the frames, the operator can easily adjust the rotation speed manually.

Under normal conditions, the honey extractor can run four cycles per hour, which means it can extract 320 frames per hour. Depending on how much honey is in the frames, the overall capacity is about 500 kg of honey per hour.

After extraction, the frames exit via a sliding double outlet element, allowing for organized collection and further handling. The honey collected during the process passes through a filtration and accumulation trough, where impurities and wax residues are effectively removed. The system includes a pump with automatic activation that fills honey into barrels, ensuring continuous honey transfer without the need for manual intervention.

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Beneath the uncapper there is a separator that further separates wax from honey, increasing efficiency and maximizing raw material utilization (OPTION C).



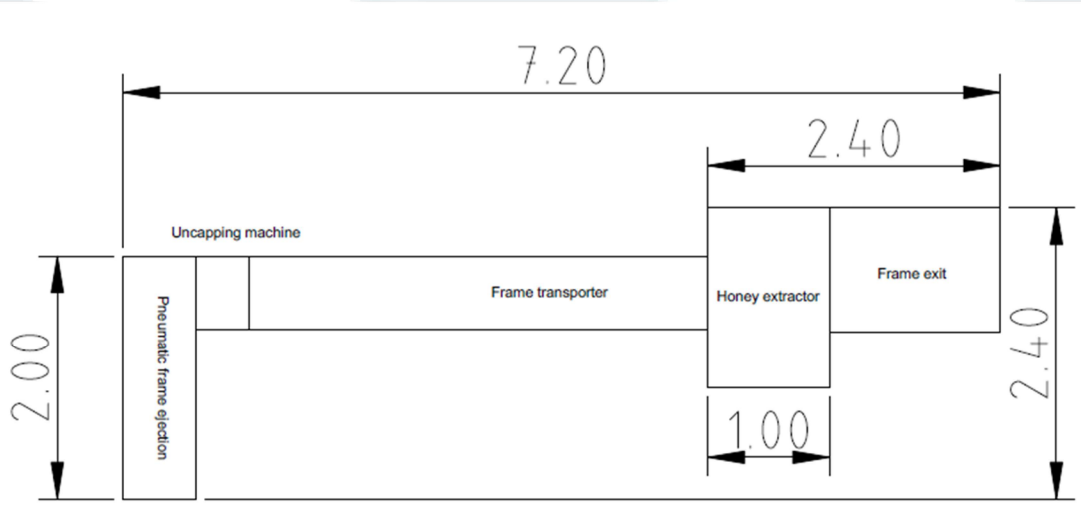
The entire line is manufactured exclusively from food-grade materials, with an emphasis on stainless steel, ensuring durability, easy maintenance, and a high level of hygiene. The combination of robust mechanical design and automated components enables optimal productivity, especially in medium-sized and large beekeeping operations.

Finally, a system built for real-world frames. We designed our line to be 'forgiving'—it doesn't care about extra propolis, wild comb, or inconsistent frame sizes. It just works. The key feature is a specially designed guide rail, developed through many years of experience in our own beekeeping operations and continuous practical use.

Technical description:

- Dimensions: 720 x 240 x 150 cm
- Material: AISI 304 stainless steel
- Voltage: 400V

Project layout example:



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Utility requirements:

- Electric supply min. 4.05 kW (+OPTION C Honey separator 6 kW)

Motors
0.18 kW – uncapping chain
0.75 kW – uncapping knives
0.37 kW – transport chain
0.75 kW – honey extractor motor
Heaters
2 kW – honey trough
6 kW – separator

- CEE industrial socket, 16 A, three-phase
- Schuko socket 230 V single-phase
- Compressed air 6 bar



Offer:

Honey extraction line with automatic uncapping machine and extractor with a capacity of 80LR frames, included: collector tank with automatic pump (or Option B - LOBE pump)
OPTION A - Pneumatic frame ejection with infeed transporter

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OPTION B - Automatic lobe pump
OPTION C - Honey separator – thermo
COMPLETE PUREHONEY HONEY EXTRACTION LINE
SEPARATE MACHINES - Semi automatic honey uncapping machine with stand 1500 mm

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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