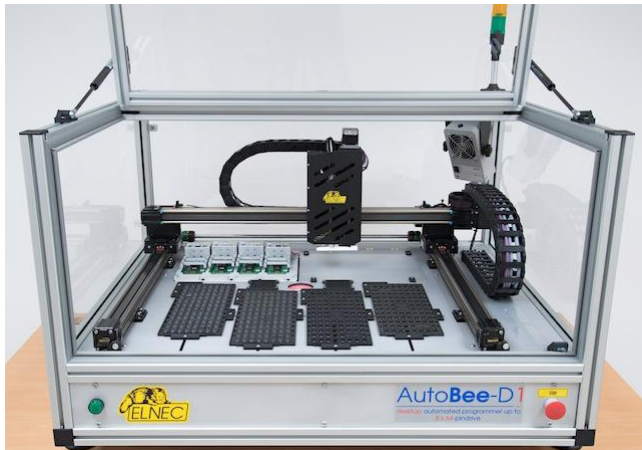


AutoBee-D1



Desktop automated programmer up to 8 x 64-pindrive

The **AutoBee-D1** is designed to enhance productivity, ensure precise programming, and streamline the workflow in various industrial applications.

With its high throughput, advanced vision system, and user-friendly control software, the **AutoBee-D1** stands out as a robust and reliable solution for automated device programming.

Best of all, it completely eliminates the need for manual work with the devices, allowing for a fully automated and hands-free programming process.

Short description:

- office automation design
- small base dimension / low weight
- connection to PC workstation: **USB 3.0**
- **easy to use software**
- the GUI software provides automatic history record function
- **high throughput - 500 units per hour (zero programming time)**
- build-in universal device programmer [BeeHive304](#)
- **warranty**
 - machine: **1 year**
 - programmer: **3 years**
- approved by inspection company to meet [Conformity assessment of machinery](#)

Versions of the AutoBee-D1 automated programmer:

AutoBee-D1 (ord.no. 40-0001):

- no device programmer is included
- up to two [BeeHive304](#) device programmers (ord.no. 60-0062) with installed [BeeHive304, ZIF socket actuators unit P1/04](#) (ord.no. 79-3734) can be built-in
- control PC workstation is not included

AutoBeeD1/304-1 (ord.no. 40-0002):

- build-in one [BeeHive304](#) (ord.no. 60-0062) device programmer with installed [BeeHive304, ZIF socket actuators unit P1/04](#) (ord.no. 79-3734)
- ready to program devices instantly
- the programming capacity can be increased by installing second [BeeHive304](#) device programmers (ord.no. 60-0062) with installed [BeeHive304, ZIF socket actuators unit P1/04](#) (ord.no. 79-3734)
- control PC workstation is not included

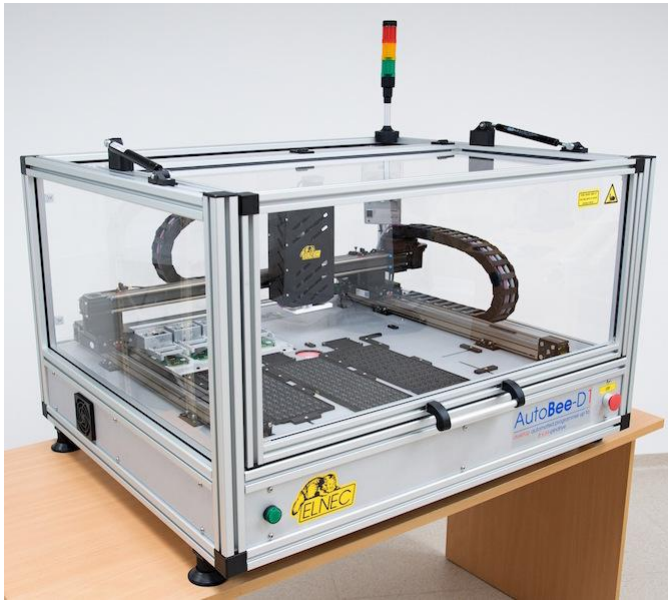
AutoBee-D1/304-2 (ord.no. 40-0003):

- build-in two [BeeHive304](#) (ord.no. 60-0062) device programmers with installed [BeeHive304, ZIF socket actuators unit P1/04](#) (ord.no. 79-3734)
- ready to program devices instantly
- control PC workstation is not included

Key Features and Specifications

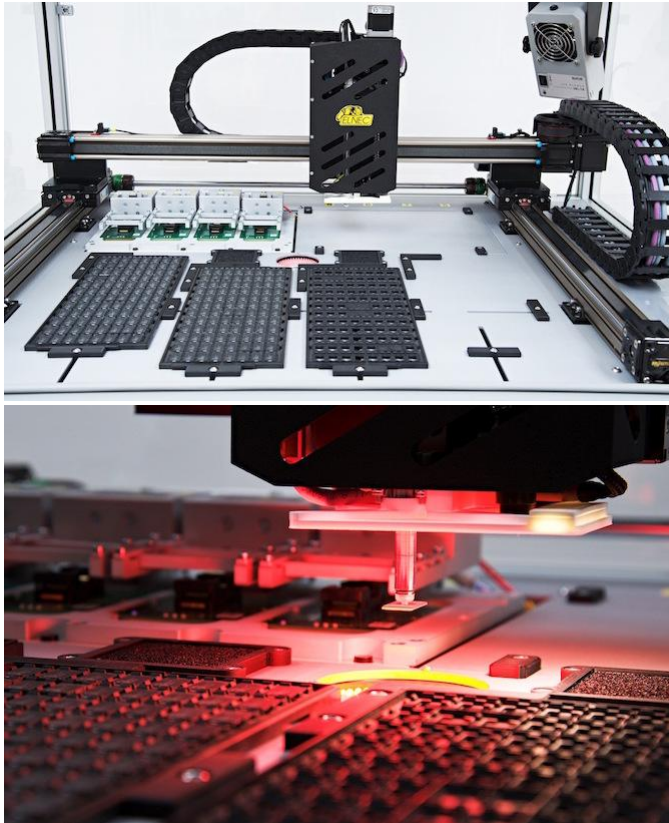
Programming and Handling

- **Programmers:** The automated programmer is compatible with up to **two BeeHive304** programmers, allowing parallel programming of multiple devices to increase throughput. In total, AutoBee-D1 supports **8x 64-pindrive**.
 - **ZIF sockets** on the AutoBee-D1 are effectively controlled by the [ZIF sockets actuation control unit P1/08](#). This integration ensures precise and reliable control of the sockets and speeds up their opening and closing.
- **Vacuum Nozzle:** The machine uses a vacuum nozzle for handling components, ensuring secure and precise placement during the programming process.
- Capable of processing up to **500 units per hour**, making it suitable for medium to high-volume production.
- **No Manual Work Required:** Fully automates the programming process, eliminating the need for manual handling of devices, thus increasing efficiency and reducing the risk of human error.



Movement System

- **Cartesian Coordinate System (XYZA):** Employs belt linear guides for smooth and precise movement through the X and Y axes. The Z axis uses a ball screw. Axis A is rotary
- **Drive:** AutoBee-D1's axes are driven by Nanotec stepper motors, providing precise control and smooth movement throughout the programming process.
- **Repeat Position Accuracy:** Offers high precision with a repeat position accuracy of 0.05/300 mm, ensuring consistent and reliable operations.



Input/Output and Media Handling

- **Tray-Based Media Handling:** Components are handled using trays, which simplifies the loading and unloading process.
- **Media Capacity:** The automated programmer supports 4 media trays along with a reject tray for defective components, ensuring continuous operation without frequent interruptions.
- **Tray Sizes:**
 - **Minimum Tray Size:** 198 x 68 mm
 - **Maximum Tray Size:** 386 x 165.5 mm



Vision System

- **Number of Cameras:** 2 cameras are integrated into the automated programmer
 - **Up Camera:** USB 720p camera used to orient the user in the machine space.
 - **Recognition Camera:** 1.3 Mpix Monochrome CMOS Camera, providing high-quality imaging for precise component recognition.
- **Backlight:** Equipped with a 6W ring light to provide consistent and clear illumination, improving the accuracy of the vision system.