E 50
Fully Automatic Hand Knife Sharpening Machine
**Higher Safety**

*Fully automatic measuring and sharpening of hand knives*

The E 50 fully automatically sharpens knives of diverse shapes and sizes. 48 hand knives are placed randomly into the knife magazine.

They are processed as follows: The 4-axis operated gripping arm extracts a knife out of the magazine – the exact individual knife shape is detected – the knife is sharpened, deburred and polished – the gripping arm returns the knife to the magazine.

The output is up to 400 knives per 8-hour shift with 1 - 2 hours of personnel deployment.

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**Knife gripping arm**

The central organ of this machine is its 4-axis operated knife gripping arm. It grabs the knife handle, moves the knife through the different processing positions and guides it, according to its exact shape, through the sharpening stages.

**Individual measurement**

Before the sharpening program can begin, each individual knife is scanned at the measuring station. The detected knife shape is then converted into CNC data. The gripping arm steers the knife, according to this data, through the complete sharpening process. Thus, the original knife shape is retained through every resharpening process.

**400 hand knives / shift (8h)**

The E 50 has a performance of up to 400 hand knives per 8-hour shift, depending on the shape and size of each knife. The necessary personnel deployment thereby amounts to 1-2 hours.
Higher Quality

Fully automatic deburring and polishing of hand knives

Knife magazine

The magazine consists of two cases and has slots for 48 knives, which can be loaded outside the machine during the operating process. Since each knife is individually measured before the sharpening process begins, the magazine can be loaded with knives of a variety of shapes and sizes.

Sharpness testing device ANAGO (optional)

After the knife has been polished, the E 50 tests the sharpness of the knife fully automatically. The knife penetrates a test medium in the process. The measured sharpness is shown on the display. If the sharpness falls below the minimal value set, the knife is shown in the display as “not sharp”. If the set sharpness is also not achieved with the next knife, the grinding machine shuts down. The reason for the shutdown is shown in the display.
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**High reliability**

Suction unit preserves the mechanics

The series suction unit considerably reduces all emissions arising from polishing and deburring. The machine room remains nearly clean. This increases the operational safety of the mechanical components and makes cleaning the machine much easier.

The filtered out polish waste collects in a tray of the suction unit. There, it can be easily and quickly disposed of.
E50

Technical data and transport dimensions*

- Depth: 1390 mm
- Width: 2390 mm
- Height: max. 2900 mm
- Weight (incl. 2 knife magazines): ca. 1035 kg
- Weight of charging trolley: 37 kg
- Weight of suction unit: 75 kg
- Height when completely retracted*: 2191 mm
- Width*: 2390 mm
- Depth*: 1400 mm
- Power input: 11 kW 3x 400 V 50Hz
- Back-up fuse: 32 A
- Compressed air connection: 6.5 bar
- Air consumption: < 50 l per minute
- Internet connection: RJ45
- Knife magazine: 48 knives
- Performance: 400 knives per 8-hour shift max.

The machine fulfills the **EC safety** and **health requirements** and is equipped with the **CE mark**.

Status 06.2017 | We reserve the right to make technical modifications.