E 50
Fully Automatic Hand Knife Sharpening Machine
Perfectly ground hand knives enable more accurate cuts. Hand knives, ground with the E 50, increase the yield of meat up to 0.5% compared to manual grinding. At 10,000 tons meat production, this means a 50,000 kilograms higher rate of yield.

Precisely ground hand knives bring down the risk of accidents and reduce absences due to inflammation in the arm and shoulder (reduced incidence of musculoskeletal disorder (MSD) by up to 80%; source Anago Ltd).

**Maximized yield**

CNC technology provides perfect ground hand knives

Perfectly ground hand knives enable more accurate cuts. Hand knives, ground with the E 50, increase the yield of meat up to 0.5% compared to manual grinding. At 10,000 tons meat production, this means a 50,000 kilograms higher rate of yield.

Precisely ground hand knives bring down the risk of accidents and reduce absences due to inflammation in the arm and shoulder (reduced incidence of musculoskeletal disorder (MSD) by up to 80%; source Anago Ltd).

**Knife gripping arm**

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

**Individual measurement**

Before the sharpening program starts, 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 re-sharpening process.

**400 Hand knives per 8-hour shift**

The E 50 has a performance of up to 400 hand knives per 8-hour shift, depending on the shape and size of the knives. The necessary personnel deployment thereby amounts to 1–2 hours.
Best quality
Precise cuts optimize the product quality

The E50 sharpens hand knives of various shapes and sizes fully automatically.

The knife gripping arm takes the knife out of the magazine – it is optically detected – next, the knife is sharpened, deburred and polished – the gripping arm returns the knife to the magazine.

The output is up to 400 hand knives per 8 hour shift at 1–2 hours personnel deployment.

Knife magazine
The magazine consists of two boxes and has space for 48 knives. It can be loaded outside the machine during the operating process. Since each knife is individually detected before the sharpening process begins, the magazine can be loaded with knives of various shapes and sizes.

Sharpness testing device (optional)
After the knife has been polished, the E50 tests its sharpness 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 displayed 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 displayed.
E 50
Fully Automatic Hand Knife Sharpening Machine
Health-supporting technology

Completely encapsulated machine with suction unit and water cooling

The serial suction unit and the water cooling considerably reduce all emissions arising from sharpening and polishing. This protects the operator's respiratory system.

The machine room remains nearly clean. This increases the operational safety of the mechanical components. The filtered out grinding and polishing abrasion collects in a tray. There, it can be easily disposed of in an environmentally-friendly way.
E 50

Technical specifications and space requirements*

- Depth 1390 mm
- Width 2390 mm
- Height max. 2900 mm
- Weight (incl. knife magazine) approx. 1035 kg
- Weight of charging trolley 37 kg

- Depth* 3000 mm
- Width* 3900 mm
- Height* 3500 mm

- Electrical supply 11 kW 3x 400 V 50 Hz
- Back-up fuse 32 A
- Compressed air supply 6,5 bar
- Compressed air consumption < 50 l per minute
- Emission sound pressure level according EN ISO 11201 approx. 72 dB (A)
- Internet connection RJ45

- Knife magazine 48 knives
- Performance approx. 400 knives per 8-hour shift

The machine meets the EC safety and health requirements and is provided with the CE-symbol.
As at 2020.03 | Subject to technical modifications