



NESCHEN HSM 2.0

LAMINATOR FOR ENCAPSULATING DOCUMENTS
WITH FILMOPLAST[®] R

OPERATING INSTRUCTIONS

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1. INTRODUCTION

Dear customer,

We are very happy that you have chosen our Neschen HSM 2.0.

This electrically driven device is equipped with rotating rollers and moving components, therefore safety principles relevant to occupational safety must be strictly observed and adhered to.

Before starting up the Neschen HSM 2.0, the user (the company) must ensure that all machine operators, maintenance personnel and their superiors have familiarised themselves with these operating instructions. Furthermore, it must be ensured that the user is familiar with the generally applicable regulations for occupational safety and accident prevention in the respective country. The operating instructions must always be available to the personnel using the machine. Improper operation may result in damage not covered by the product warranty.

These operating instructions contain the technical specifications of the Neschen HSM 2.0 as well as information on startup and operation. The important information on occupational safety and maintenance must be regarded as an integral part of the machine. Production staff should be familiarised with and understand the information in these operating instructions. In particular, information regarding safety measures must be observed. We recommend regular user training by authorized personnel.

If you do not understand individual information in these operating instructions, please contact the responsible seller. We recommend that you make a copy of these operating instructions and keep the original in a safe place in case the copy is lost or damaged. While working on the machine, follow the safety instructions to avoid personal injury or injury to bystanders or damage to other equipment.

We assure you that we are careful and diligent in the production of the Neschen HSM 2.0 and we are convinced that you will be very happy with your machine, provided that all guidelines have been observed.

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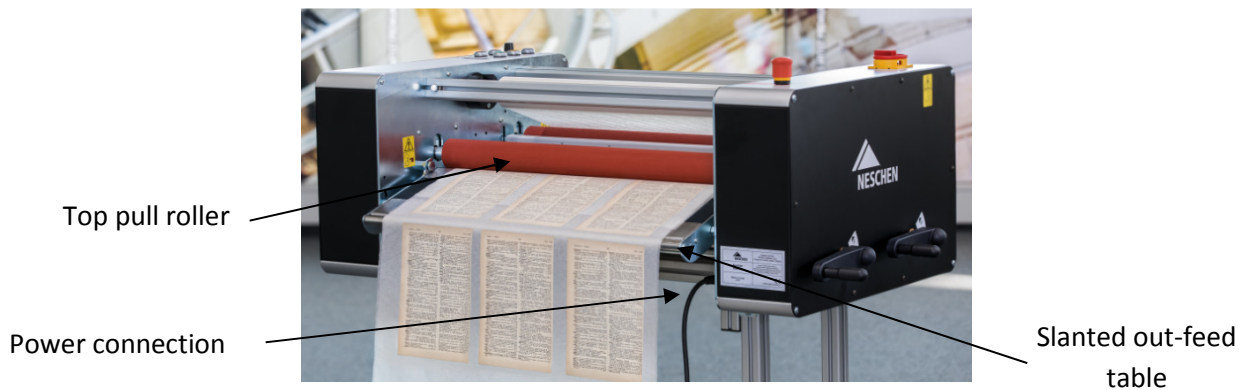
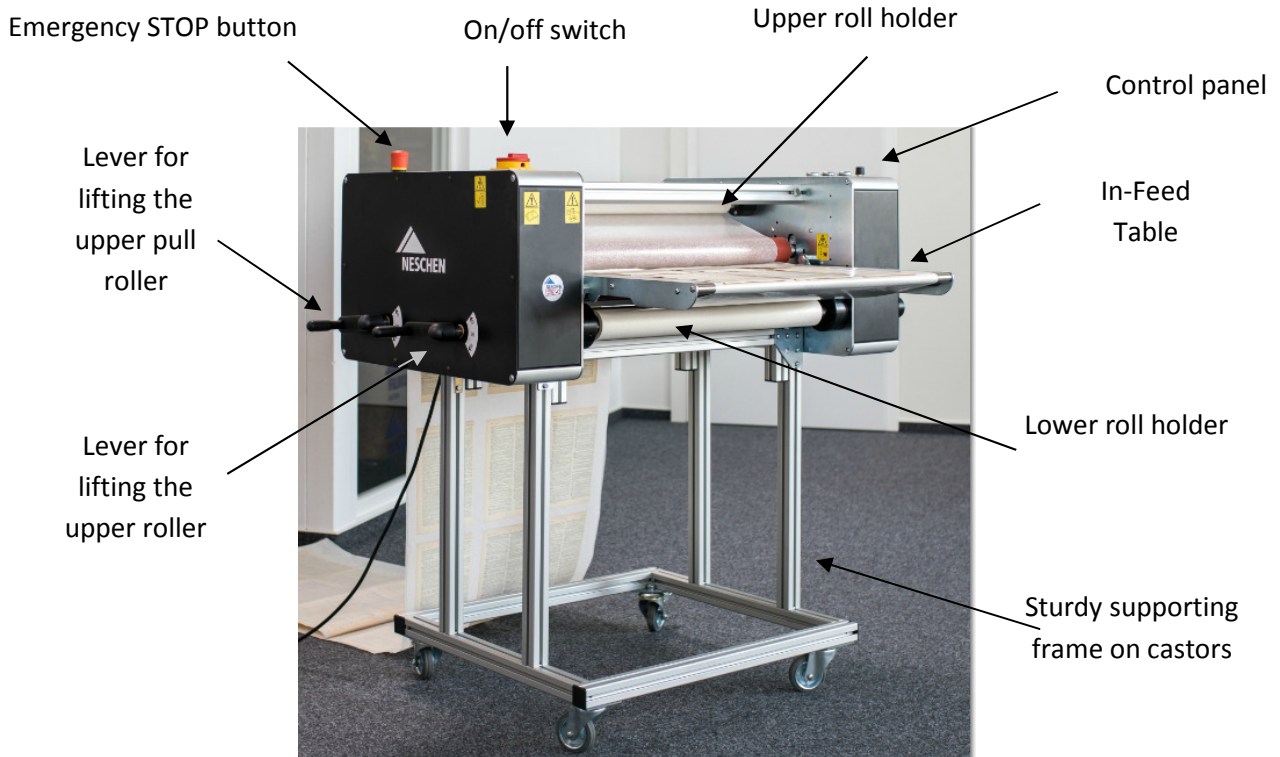
E-Mail: info@neschen.de

2. INTENDED USE

1. With the Neschen HSM 2.0, documents/newspapers can be encapsulated with filmoplast R on one or both sides.
2. The Neschen HSM 2.0 can be used for smaller formats up to a maximum working width of 650mm.
3. Any changes to the Neschen HSM 2.0 without the manufacturer's approval will release the seller from liability for any damage or injury!
4. Non-approved applications are to be agreed with the seller.
5. During work on the machine, always follow the safety regulations to avoid personal injury or injury to bystanders.
6. Notes requiring special attention are marked with the following safety symbol in these operating instructions:



3. DESCRIPTION OF THE MAIN PARTS OF NESCHEN HSM 2.0

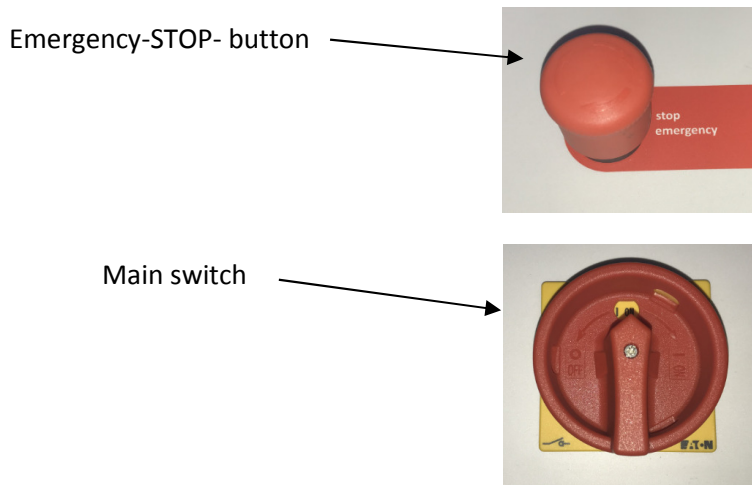


The Neschen HSM 2.0 has two heatable rollers (up to 150°C) and two pull rollers. The upper rollers can be lifted manually by 20mm.

The in-feed table can be folded upwards and is held by magnets.

The out-feed table is removable or can be folded upwards. It is held upwards by magnets.

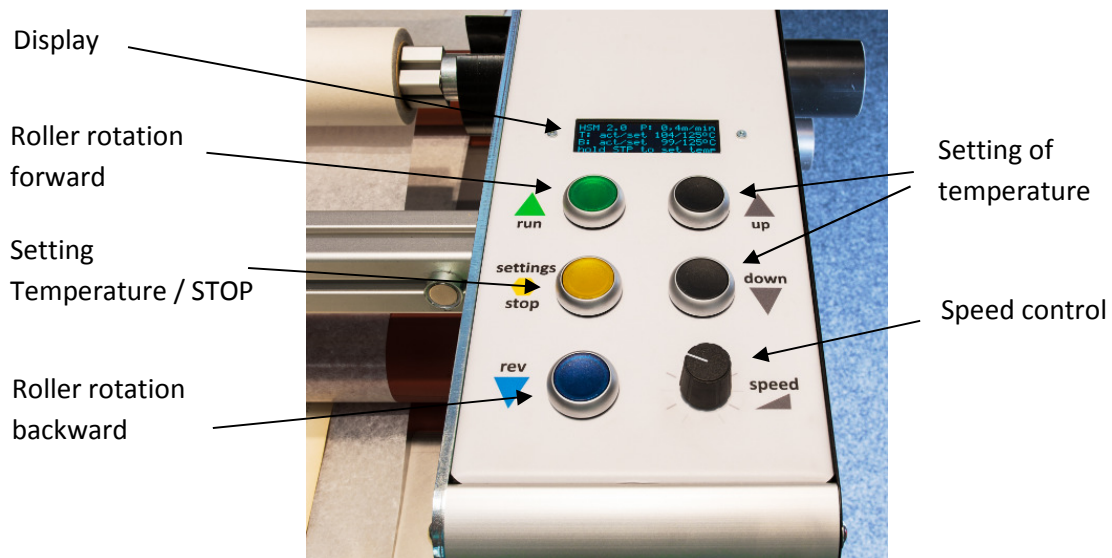
4. OPERATING PANEL – LEFT



Emergency-STOP-button: The emergency stop button switches the machine off completely. Depending on the circumstances, you can switch the machine on again. It is deactivated by turning in the direction of the arrow.

Main switch: OFF - the Neschen HSM 2.0 is switched off.
ON - the Neschen HSM 2.0 is switched on.

5. OPERATING PANEL – RIGHT



6. OPERATION/SETTINGS

Roller rotation

The lower roller is driven by an electric motor. With the Neschen HSM 2.0, the revolutions can be continuously controlled in the range from 0m to 2m/min.

- ▲ **run:** Roller rotation in forward direction. The direction of rotation is indicated by the corresponding key light. The Neschen HSM 2.0 has a modern, intelligent start function that allows the machine to run up slowly and evenly until the speed set by the rotary knob has been reached.

Note: If the roller speed is set to zero, the machine does not start up but waits until the operator sets a speed other than zero.

If the light barrier is interrupted while the machine is running, the machine stops. Press the Stop button and press the run button again to continue the roller rotation.

- ▼ **rev:** Roller rotation in reverse direction. Same function as roller rotation forward without light barrier.

Setting of temperature

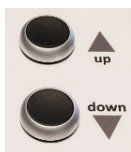
- ⬡ **settings / stop:** Stops the roller rotation and the running direction.

Note: If the operator wants to change the direction of rotation while the machine is running, he must first press the stop button and then select the desired direction of rotation.

- ⬡ **settings / stop:** To access the settings of the machine, press the stop button for three seconds.

Temperature setting in Settings:

Upper roller: Press the UP or DOWN button to set the desired temperature for the upper roller. By pressing the stop button, the setting is saved and the user reaches the next menu item.



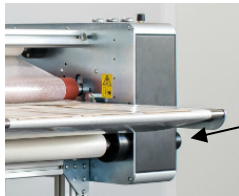
Lower roller: Set the desired temperature of the lower roller by pressing the UP or DOWN button. Press the stop button again to save the setting and start the heating process.

Speed controller for rotation: potentiometer for speed control. The speed range is between 0m and 2m per minute.

7. ROLL CARRIER/SHAFT

filmoplast® R is supplied as standard on a paper core with an inner diameter of 40 mm. The roll carriers (shafts) of the Neschen HSM 2.0 are designed for these cores.

If the material is unrolled too loosely or too firmly, the braking force can be regulated by applying or releasing the brake on the right side of the machine. The brake force is increased by applying the brake and reduced by loosening it.

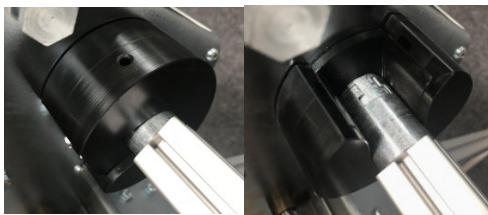


Brake of lower roll carrier

8. APPLYING A MATERIAL ROLL TO THE SHAFT

Lower material roll:

1. Fold the worktable upwards and attach it to the magnets.
2. Remove the lower roll carrier from the Neschen HSM 2.0. To do this, unscrew the black holder on the right and left and remove the roll holder.



3. Slide the filmoplast®R roll onto the roll holder and tilt it with the rubber by turning it slightly.



4. Insert the roll holder with filmoplast®R and the non-adhesive side facing forward into the holder and close it again.



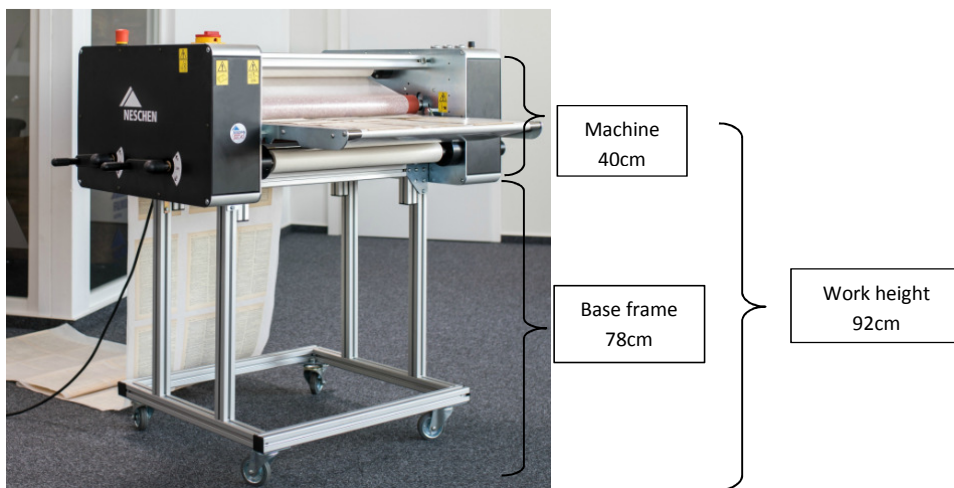
Upper material roll:

1. Fold the discharge table upwards and attach it to the magnets.
2. Remove the roll holder.
3. Slide the roll for filmoplast®R onto the roll holder and tilt it with the rubber by turning it slightly.
4. Insert the roll holder with filmoplast®R and the non-adhesive side facing to the back into the holder.



5. **IMPORTANT:** Adjust the upper roll of filmoplast R to the matching position of the lower roll – both materials must match – with no overlaps.

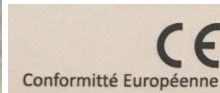
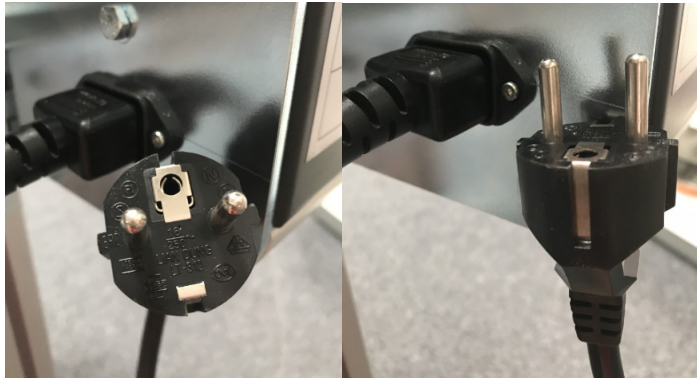
9. DIMENSIONS OF THE MACHINE



Machine: 107,5cm wide, 64cm deep, 40cm high
Work table: 71cm wide, 43 cm deep
Discharge table: 71cm wide, 22cm deep
Base frame: 77cm wide, 68cm deep, 78cm high (wheels included)
Net machine weight including base frame:

10. POWER CONNECTION

Voltage	230 V 50/60Hz
Current	13 A
Output	2,900 Watts



11. WORK SAFETY

SAFETY DEVICES AT THE NESCHEN HSM 2.0



- Emergency-STOP-button
- Light barrier

WHEN USING THE NESCHEN HSM 2.0 THE FOLLOWING MUST BE OBSERVED:



- Do not use Neschen HSM 2.0 if there is constructional or mechanical fault.
- Do not use Neschen HSM 2.0 under the influence of alcohol, drugs or medication, as your reactivity and alertness may be limited.
- Do not switch on Neschen HSM 2.0 if unauthorised persons are within the danger zone.
- Remove waste from the hazardous area while Neschen HSM 2.0 is in operation.
- Do not touch any moving parts.
- Always stay at the control panel while Neschen HSM 2.0 is in operation.
- Do not remove any safety devices from Neschen HSM 2.0 and do not interfere with their functions.
- No maintenance or cleaning work during operation.
- Always observe the safety instructions! See under Safety instructions.

12. SAFETY GUIDELINES



Rotating or moving parts of the Neschen HSM 2.0 and electrical parts can cause serious and even fatal injuries. Assembly, cabling and starting as well as maintenance and repairs should only be carried out by qualified and appropriately trained personnel.

- Neschen HSM 2.0 may only be operated by mentally and physically healthy persons over the age of 18 years who have been intensively trained (and tested) and are authorized to operate the Neschen HSM 2.0.
- Operators and maintenance personnel must be familiar with the contents of the operating instructions
- Do not work on the Neschen HSM 2.0. when tired
Work only with Neschen HSM 2.0 under good lighting conditions
- Do not wear loose clothing (e. g. tie) or long hair to avoid getting caught between the rollers of Neschen HSM 2.0
- Before starting work, check the safety devices on the Neschen HSM 2.0 and ensure that they are functioning correctly.
- When working at the Neschen HSM 2.0 always stand firmly on the ground
- Never touch any moving parts of the Neschen HSM 2.0.
- The heated laminating rollers can reach a maximum temperature of 150°C. There is a risk of burns whilst the machine is idling and until and the machine has finished cooling down.
- Demanding repairs and work on the electrical system may only be carried out by qualified personnel or the manufacturer.
- Damaged parts on the Neschen HSM 2.0 may only be replaced by authorised personnel and with original parts.
- Adjustments, maintenance and cleaning of the laminator must be carried out when the machine is idle. The main switch is switched off and the machine is disconnected from the mains.
- Attach safety instructions (pictograms) clearly legible to the Neschen HSM 2.0.
- Switch off the Neschen HSM 2.0 immediately and inform the supervisor if damage to the insulation, smell of burning, loud interference noises occur during work on the machine, the machine jerks after switching on, individual parts of the electrical system are overheated, sparks occur or current flow is noticeable.
- If such hazards occur or if there is a danger for the operator, switch off the Neschen HSM 2.0 by actuating the emergency STOP button.
- After finishing work at the Neschen HSM 2.0, lift the top roller, switch off the laminator and disconnect the power supply.

13. SAFETY SIGNS AT THE NESCHEN HSM 2.0

The pictograms must be affixed to the Neschen HSM 2.0 in a



clearly legible manner at all times. Damaged pictograms must be replaced.

Pictograms and their meaning:

The safety instructions (pictograms) on the machine indicate risks, as do the warnings in these operating instructions.



The operator must read the safety instructions.



Disconnect the laminator from the power supply before carrying out any repair work, adjustments, cleaning and maintenance.



Do not touch any moving parts on the machine during operation.

14. FIRE PROTECTION



The Neschen HSM 2.0 is not factory-fitted with fire extinguishers. The user must ensure that fire extinguishers are installed in the building.

- Never extinguish a burning or live Neschen HSM 2.0 with a water or foam extinguisher. There is a risk of electric shock!
- Never extinguish burning electrical parts with a water extinguisher!
- Recommended fire extinguishers: powder extinguishers, snow extinguishers and halon extinguishers.
- In case of fire, follow the instructions for the relevant workplace.

15. DISPOSAL OF THE MACHINE OR INDIVIDUAL PARTS

- For the disposal of Neschen HSM 2.0 at the end of its service life, the applicable environmental protection guidelines must be followed and available recycling options must be applied.
- Separate plastic parts and recycle them
- Separate, sort and recycle metal parts.

16. MAINTENANCE AND REPAIR

MAINTENANCE

The Neschen HSM 2.0 is stable and robust. It requires little maintenance. For trouble-free use and a long service life, the following must be observed:

- 1.** Disconnect the Neschen HSM 2.0 from the power supply before any cleaning or maintenance.
- 2.** Use isopropyl alcohol to clean the roller surfaces. Clean other surfaces with a diluted cleaning solution and a damp cloth. Never use solvents or abrasives.
- 3.** Protect the roller surfaces from damage by sharp objects (cutting blades, scissors, sharp edges, penetration of solids, tools, etc.) and dust. With smooth roller surfaces, the Neschen HSM 2.0 will operate for many years without any problems.
- 4.** When the Neschen HSM 2.0 is not in use, ensure the rollers are kept apart. This will ensure the avoidance of pressure marks.

17. WARRANTY TERMS AND CONDITIONS

1. The manufacturer grants Neschen products a guarantee period of 12 months from the date of purchase.
2. If a defect occurs in your machine within the warranty period, please notify your seller.
3. Damages caused by non-compliance with the operating instructions are not considered as product defects.
4. Warranty does not cover damage caused by improper use, external mechanical influences, transport damage or unauthorised intervention in the machine by unauthorised persons.
5. Traces of use on the machine and wearing parts are not considered as product defects.
6. Please address product liability claims directly to your seller.

18. EU-DECLARATION OF CONFORMITY



CE DECLARATION OF CONFORMITY

For further details visit www.neschen.com.

Further information and product videos can be found on our homepage.

www.neschen.com.



Neschen Coating GmbH