

# Technical data Alpha HSM

## Label format (W x H)

minimum 10 x 10 mm maximum 320 x 2,000 mm  
Greater label lengths can be applied at a lower speed or cycle rate.

## Label gap

minimum 3 mm

## Label rolls-external diameter

Roll diameter maximum 500 mm  
Roll length a maximum of 1.200 linear metres (with label material 3105)  
Roll core diameter 76 mm (3 ")

## Maximum applicator cycle rate

Up to 2,000 cycles per minute, depending on label size and configuration

## Maximum passage width

Applicator width plus 4 mm  
e.g. Alpha HSM 135: maximum passage width 139 mm

## Applicator precision

+/- 0.3 mm  
in relation to the repetition precision at the applicator edge

## Maximum applicator speed

150 m/min, depending on label format and configuration of greater speeds on request

## Weight

16 to 48 kg, depending on configuration (without label roll)

## Power capacity

90 – 240 VAC / 47 – 63 Hz

## Power input

300 to 900 Watt, depending on configuration

## Environmental conditions

0 to 42 °C  
10 to 95 % relative humidity, non-condensing

## Protection class

IP 65

## Casing

Aluminium

## Registration

CE

We reserve the right to make technical modifications at any time.

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## Alpha HSM Label Applicator Printed Label Application



# Label Applicator Alpha HSM

The new label applicator Alpha HSM is a high-performance and universally adaptable applicator system in a new design, with even better efficiency, higher cycle rates and even simpler operation than its tried and tested predecessor the Alpha Compact.

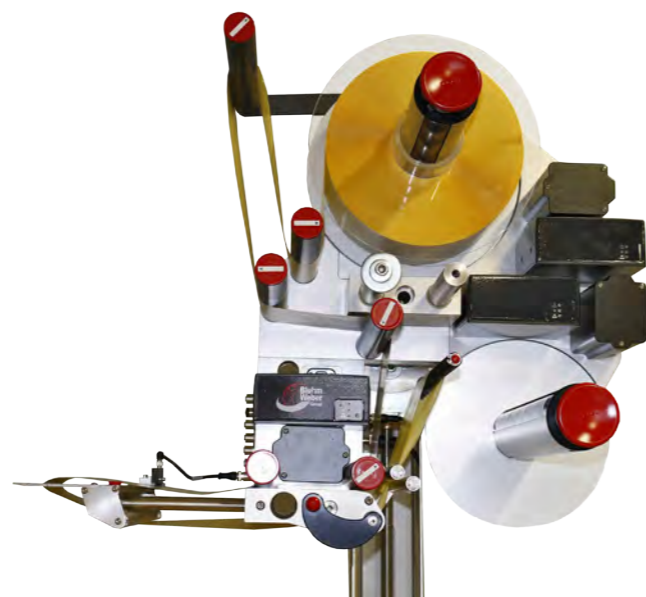
This system can be used to apply pre-printed labels quickly and accurately to products and packaging. The new high-performance servomotors offer a very high level of precision in the labelling process combined with a significant improvement in speed. The modular concept design adapts flexibly to confined production spaces.

More than 70 different configurations are available for a multitude of labelling applications. This makes the Alpha HSM the most versatile solution in labelling systems.

The integrated servo motors allow the rewinders and unwinders to be mounted at different points on the basic module. This creates maximum flexibility for integration into the production environment and reduced space requirements.

## Special features of the Alpha HSM

- Drive speeds up to 150 m/min
- Cycle performance up to 2,000 labels/min
- Label lengths up to 2,000 mm
- Protection class IP 65
- Modular structure with widths between 135 mm and 320 mm
- Label rolls with an exterior diameter of up to 500 mm
- Three different operator interfaces:
  - LED display
  - External control using client PLC
    - PLC module for Siemens
  - Web-based control
    - Direct access to service portal
    - Video Tutorials
    - Production statistics
- Simple Setup & Storage, up to 10,000 different product parameters can be stored
- Integrated roll end function depending on configuration
- High Accuracy across all label widths
- Printing technology options, e.g. Inkjet, TIJ, CIJ, TTO
- Integrated zero downtime function or alternating operation
- Wide variety of Configurations and System Options



Depending on the model chosen labels with widths of between 10 mm and 320 mm can be applied and label rolls with a diameter of up to 500 mm can be processed. Labelling speeds of up to 150 metres per minute and/or a cycle of up to 2,000 labels per minute can be realised. For harsh and durable conditions, the Alpha HSM achieves a protection class of IP65 and needs not be cased when used in moist and dusty environments. Both the input and the storage of different labelling parameters and functions of the Alpha and the calibration of the sensors can be stored in the Alpha HSM. The system can be controlled using various PLC modules. Web-based configuration of the parameters of the label applicator is also possible.

**Alpha HSM**  
in right-hand version

**Alpha HSM**  
in left-hand version



# Variety with modular structure

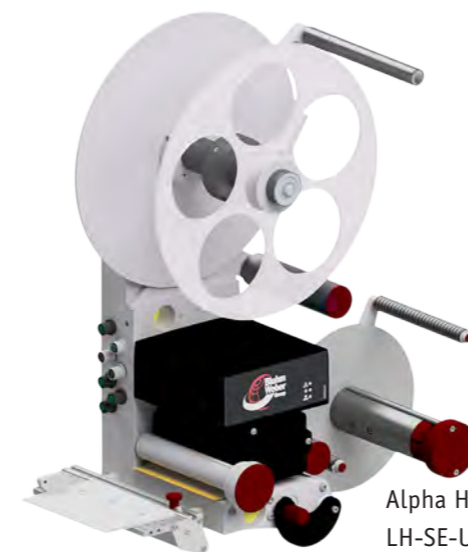
## More than 70 different configurations available for maximum flexibility

Depending on requirements the Alpha HSM can be configured specifically for a customer and thus adapts extremely well to different labelling requirements. After selecting the required applicator width - from 135 mm to 320 mm - you can pick the labelling configuration you require.

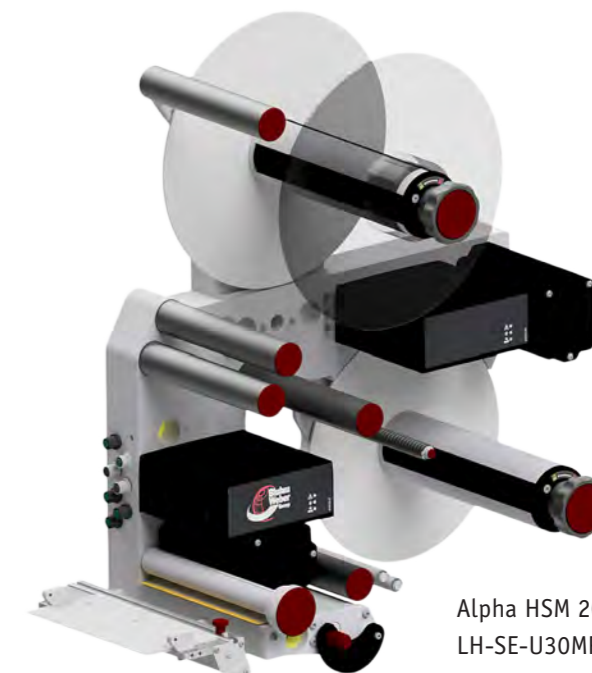
The basic modules comprise:

- Drive module with servomotor
- Label recognition for standard or transparent labels
- Application of the labels using different applicator peeler bar, e.g. rigid, oscillating, pneumatic etc.
- Unwinder for label rolls with 300 mm, 400 mm or 500 mm diameter, mechanical or servomotor
- Rewinder for label rolls with 300 mm, 400 mm or 500 mm diameter, mechanical or servomotor
- Adapter Module

Bespoke configurations and constructions are also available for OEM or Integrated Systems.



Alpha HSM 135  
LH-SE-U30M-R30M-CC



Alpha HSM 200  
LH-SE-U30MP-R40SE-CC



Alpha HSM 200  
LH-SE-U40MP-R40SE-CC



Alpha HSM 320  
LH-SE-U30SE-R40-SE-CC