

H40U-C

Automatic strapping machine Horizontal strapping



Customer benefits

| Characteristics | Customer benefits |
|--|--|
| Teach-In programming via control panel | <ul style="list-style-type: none"> · Short set-up time, high flexibility |
| Adjustable, electronically controlled strap tension, floating head | <ul style="list-style-type: none"> · Maximum product securing during transportation thanks to balanced strap tension around the package |
| Safety system for vertical movement | <ul style="list-style-type: none"> · High operation safety |
| User-friendly control panel with push buttons and display | <ul style="list-style-type: none"> · Easy operation · Secure continuous duty |
| Robust and proven design with first class industrial components | <ul style="list-style-type: none"> · High availability · Low maintenance cost |
| Machine, strap and after-sales service as a total package | <ul style="list-style-type: none"> · Strapex – your solution provider |

Machine

| | |
|--|---|
| Strapping cycle time | Approx. 10 s per strap |
| Vertical speed | Approx. 200 mm/s Automatic stop of vertical movement in case of obstacle |
| Strap tension | 200–2200 N Adjustable by potentiometer, electronically controlled Floating head ensures equalised strap tension around pack |
| Indexing head | Horizontal stroke Max. 320 mm Approx. speed 100 mm/s |
| Sealing method | Heat weld sealing system for PP and PET, simple adjustment |
| Strapping heights (from conveyor level) | 250–1675 mm or 250–2175 mm |

| | |
|------------------------------|---|
| Arch dimensions | See page 4 |
| Strap dispenser | Separate strap dispenser with accumulator |
| Strap end | Automatic strap end detection |
| Colours | Frame: Grey, RAL 7004 Movable parts: Blue, RAL 5007 |
| Electrical supply | 400 VAC, 50 Hz, 3PE Voltage tolerance +/-5% Rated power 1,8 kW |
| Compressed air | 5–6 bar Consumption 16 NI/cycle |
| Machine weight | Approx. 900 kg |
| Packaging size/weight | Standard package for truck Width 2300 mm Length 4000 mm Height 2200 mm Gross weight approx. 1100 kg |

Conveyor

The conveying systems is not part of the H40U-C machine

Control system

Stand alone control desk

- The Man Machine Interface consists of
- Main switch and Emergency push button
 - Push button for various start functions
 - Selector switches for machine mode and program
 - Potentiometer for strap tension selection
 - Indicator lamps for machine on condition indication
 - Numerical display for machine condition indication

Standard strapping programs

- Pass through
- 1–9 programs, selectable by selector switch on the desk or by 4 inputs with BCD-Code from external control
- Up to 6 strap positions per program, programmable by Teach-In function

PLC Simatic S7-300

Interface, signal exchange

All signals for exchange must be potential free

The strapping machine is able to receive the following signals

- Start of the selected strapping program
- Confirmation: Conveyor not in motion
- External strapping program selection by BCD-Code
- External Emergency-Stop is activated
- External safety clear (light barriers, access door etc.)

The strapping machine sends the following signals

- Strapping program completed
- Enabled conveyor motion
- Activated emergency-Stop on the strapping machine

Detailed description "Signal Exchange" available

Strap

| | | |
|---------------------------|-----------|--------------|
| Polyester (PET) | Width | 9, 12, 16 mm |
| | Thickness | 0,56–0,8 mm |
| Polypropylene (PP) | Width | 12–16 mm |
| | Thickness | 0,65–0,85 mm |

| | | |
|------------------|-------|--------|
| Core size | Ø | 406 mm |
| | Width | 152 mm |

Features



Simple operation

User friendly control panel
Numerical display to indicate machine status



Maximum product securing during transportation

Adjustable strap tension, electronically controlled, floating head for balanced strap tension around the package



Long life cycle and low maintenance cost

First class industrial components, e.g. SEW motors, powered by frequency controller for fast movement and precise control

Options

Strap centering unit

For precise strap positioning, pneumatically powered.



Photocell Teach-In start on top of pallet

Allows to store and work with the strapping programs in relation to the top of the pallet. Ensures proper strapping in case of variation of pack heights.



Simatic-Touchpanel TP 170

User-friendly guidance with HMI touchpanel



Upgrade for additional programs and strap positions

Teach-In system for
– 19 programs x 1–6 strap positions
– 10 programs x 1–19 strap positions



Option package for glass bottle applications

- Strap centering unit with pushers at head side and at head opposite side
- Side pushers, adjustable, stroke 80 mm
- Two strap tensions, adjustable
- Sensor an additional signal, head at top position
- Additional signal "Pallet finished"

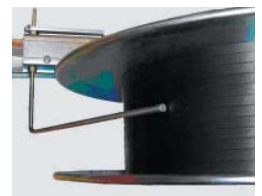


Special strapping machine height

For strapping heights (from floor)
250–2675 mm or
250–3175 mm
See also page 4

Strap end pre-warning

To ensure short machine downtimes when changing coils

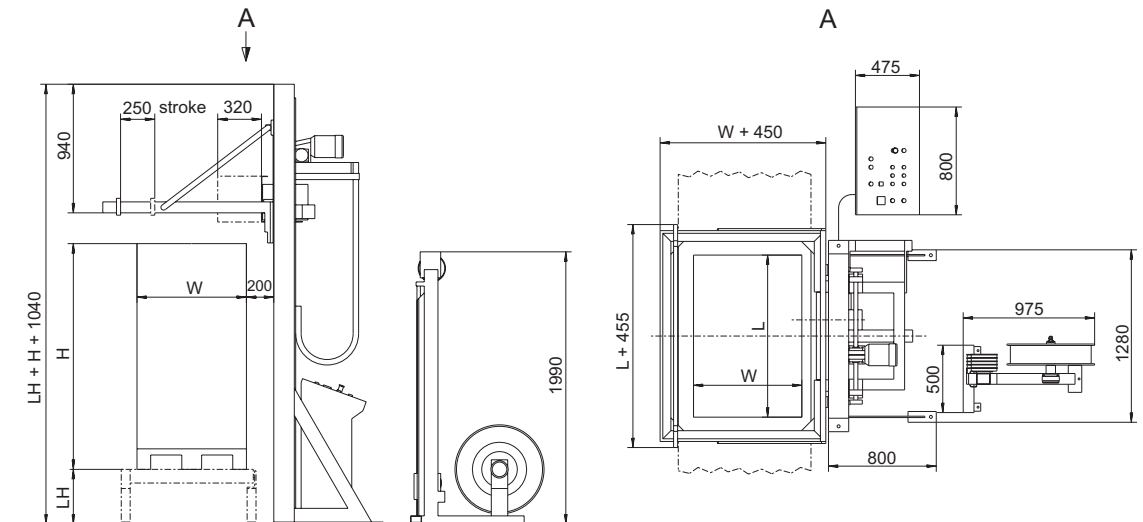


Flash light

General fault signal with red indicator lamp



Layout



Arch dimensions Working height H40U-C

| Working height* LH + H | Machine height (MH) | |
|---------------------------|------------------------|--------------|
| 250–1650 | 2715 | Standard H16 |
| 250–2150 | 3215 | Standard H21 |
| 250–2675 | 3715 | Special H26 |
| 250–3175 | 4215 | Special H31 |

* Above floor

| Arch dimensions | For package dimensions W x L |
|-----------------|---------------------------------|
| 800 x 1480 | 500– 800 x 400–1200 |
| 1100 x 1480 | 500–1000 x 400–1200 |
| 1300 x 1180 | 800–1200 x 400–1000 |
| 1300 x 1480 | 800–1200 x 400–1200 |

Own strap
manufacturing plants

Own sales and service
organisations
in 11 countries

Own production units
in 3 countries

Independent sales
partners in 42 countries

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