

# UNIVERSAL STACKERS

## SW and SWU-series



- **Universal manual or automatic stacking machine for LTCC, HTCC or other similar component production**
- **Suitable for tapes with, or without carrier film**
- **Process on one carrier pallette**
- **Possible to start building stack from top or from bottom**
- **Simple operation**

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Suitable for most demanding HTCC and LTCC applications

The SW series of stackers were designed for LTCC, HTCC and other allocations where maximal flexibility is required. On these machines the green ceramic tapes without or with carrier film can be processed. If carrier film supported tapes are used, than tape can be first pressed on to previous one and after that carrier film will be removed automatically. Carrier film can be also removed before stacking manually. With optional rotation station sheets can be stacked either with face down or face up, depending on component design. Stack is built on a single carrier block. The stacking sequence such as pressing force and pressing time, sheet rotation and carrier film removal are fully programmable via a touch screen interface. Two high resolution cameras controlled by a PC vision system detect registration marks. A x, y and theta alignment table align individual sheet to proper position before stacking.

Fast machine start up, simple operation, high alignment accuracy and small footprint.

SW model- stacking on to carrier block with top flat metal press

SWU model- stacking on paper, holding stack by vacuum, pressing by protective paper on top pressing plate, automatic Mylar removing form top and bottom

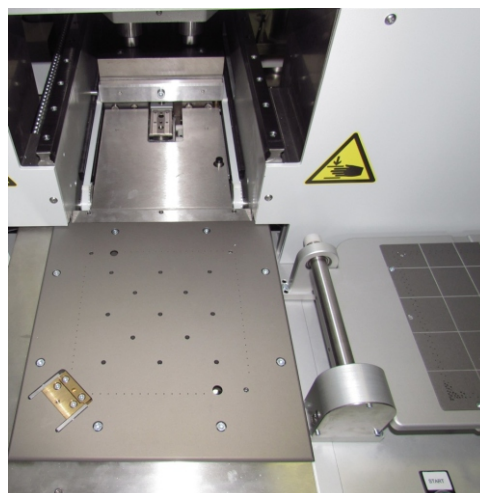
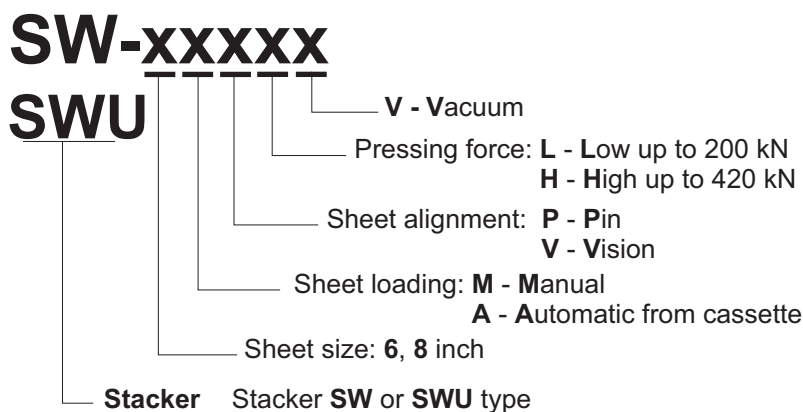
#### Technical specification:

- Number of carrier block processed: 1
- Stacking forces: up to 420 kN (optionally 200kN or 700kN)
- Stacking temperature: up to 80 °C (176 °F)
- Typical cycle time: 15 sec. (depends of stacking time)
- Control: PLC+PC for vision acquisition
- Number vision cameras: 2
- App. dimensions: L x W x H: 1,8 m ( 70 inch) x 1,3 m ( 51 inch) x 2,0 m ( 79 inch)
- Electricity: according to the customer requirements
- Power: app. 5 kW
- Compressed air: 0,6 MPa, 200 L/min.
- Vacuum: -0.09 MPa (0.02 MPa absolute), 200 L/min.

#### Options:

- rotation station, vacuum pump, programable

#### How to order: \*



\* Options and other requirements have to be specified separately.