

FULLY AUTOMATIC COVER SHEET MAKER

CSM-2 / CSM-3



- Uses carrier-based tape or freestanding tape technology
- Automatically removes carrier film from the ceramic tape
- Makes coversheets directly onto your carrying palette
- Glues the cover sheet to your custom carrying palette
- Dispenses and presses sheets in one unit
- An optional cassette system dispenses carrying plates
- Can be used as a sheet dispenser in a manual operation

Save precious time in your stacking process

Cover sheet makers are unique in the world because of their simplicity and the cost saved in the production of multilayer ceramics. The automatic sheet maker uses carrier tape technology, and/or freestanding tape technology. Carrier films are automatically removed by the Keko Equipment patented technology. Sheets are accurately positioned and pressed to form a stack of cover sheets. The saving, realized by automatically stacking and pressing coversheets off-line from the printing and stacking operations, have made the coversheet maker very successful. CSM 3 uses free standing tape. A belt system automatically transports the carrying plate to the position for dispensing of the sheets from the roll. A programmed number of freestanding tape sheets are cut from the roll and placed by a vacuum hand onto the stack of coversheets. The plate is moved on the belt into the press for lamination of the sheets together and glueing onto the plate. In the case of carrier-based tape (CSM-2) the tape is laminated

in the press onto the stack of cover sheets. A special patented process removes the carrier film. Positioning of sheets on the stack of coversheets is performed with high accuracy to optimize usage of the precious tapes. The process is fully controlled by software enabling you to stack the desired numbers of sheets under your optimal process conditions. The process computer allows you to store standard recipes for preparation of coversheets. The CSM-3 can automatically load and unload up to 33 blocks from a cassette. The cassettes can then be conveniently placed in your PAL-9 printer stacker to continue the process. After the active layers are placed and printed the cassettes can be returned to the CSM for preparation and lamination of the top coversheets onto the ready stack. If your applications require a new feature to be added onto the machine, we will design and build the machine to accommodate this feature, working closely with you to make sure your performance expectations are met.

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Typical specifications ¹



Carrier palette size:	170 x 180 mm or 6.7 x 7.1 inches	
Palette transport:	high-speed belt	
Cycle time:	typically 5 sec. per sheet (CSM-2), 3 sec per sheet (CSM-3)	
Number of sheets:	fully adjustable	
Stacker press force:	up to 350 kN or 74.000 lbf.	
Stacker press:	heated up to 120°C	
Clean air:	clean belt system in fully covered track ²	
Safety:	equipment complies with US and CE safety regulations	
Dimensions:	CSM-2 (carrier film)	CSM-3 (freestanding tape)
Length	950 mm or 37 inches	1,100 mm or 43 inches
Width	1,810 mm or 71 inches	2,010 mm or 79 inches
Height	1,240 mm or 49 inches	1,240 mm or 49 inches
Weight	approx. 500 kg or 1,100 lbs.	approx. 600 kg or 1,320 lbs.

Options

- Semi automatic machine without automatic carrier block loading
- Reel feeding system for carrier foil based ceramic tape (standard for CSM-2)
- Standard freestanding tape dispensing and stacking system (standard for CSM-3)
- Sheet edge glue applicator
- Up to 2 tape feeders can be mounted
- Automatic visual tape inspection systems to detect pinholes
- Custom designs to meet special requests for your technology

1) Because our equipment is customized for specific requirements, specifications given are subject to change.

2) Photograph does not show covers



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