

Sheet Collating System - CGM200

Semi-automatic positioning and fixing of card foils

The **CGM200** is a semi-automatic system for positioning and fixing of all types of plastic foils which are commonly used in card production, including antenna sheets. It is designed to align layers of a plastic card prior to lamination when the demands in card manufacturing require more than simple edge-to-edge positioning. The **CGM200** enables manual sheet assembly using a video system to align register marks on the individual sheets with the highest possible positioning accuracy. Reliable and accurate fixing is a prerequisite to ensure that the individual foils maintain their precise position to one another during the lamination process and that the cards punched out of the laminated sheets fulfil stringent quality requirements, not only in functionality but also in terms of visual appearance.

The **CGM200** easily meets the high demands of progressive card manufacturing with its precision, flexibility, quality and economics. Features include:

- easy and very accurate manual positioning of the single foils, supported by a high resolution video system
- ability to make compositions of any sheet configuration in one process step, even when using foils made of different thermoplastic materials
- production of all standard sheet formats and mixed sheet formats, as well as customer-specific sheet formats upon request
- User-friendly, software controlled operation

The **CGM200** is an ergonomically-designed work station. The entire handling, from selecting the individual foils, processing and placing the fixed sheets onto the storage area, can be done comfortably from a sitting position. During production, the operator only has to trigger the particular program step by actuating a foot or a hand switch. All functions are controlled and monitored by the PC control system.



Important performance features:

- 2 positioning pins on top edge and 2 on right edge. Can be lowered if not required.
- 2 welding bits, optionally 4
- Welding temperature 50 to 450°C
- Welding period up to 32 sec.
- Transposed welding positions to prevent bulging at weld spots.
- Thickness control after each welding step (optional)
- 2 video cameras, optionally 4 possible, display accuracy ~ 100 µm
- Halogen cold light source, adjustable brightness for thicker sets
- Foot pedal to actuate the vacuum, welding heads & punches so operator can use hands to position foils.
- Optional punches for register holes
- Computer-based control and setup of the system, saving and call-up of all relevant job data
- Monitor to display the alignment marks or material edges (e.g. of magnetic tape) for optimum recognition and positioning of each sheet
- Optional UV lamps for security feature viewing



Otto Künnecke GmbH

Bülte 1 • 37603 Holzminden • Germany

Tel +49 (0) 5531 9300 – 0 • Fax +49 (0) 5531 9300 – 903 • contact@kuennecke.com • www.kuennecke.com