

## Fully automatic contacting system

Top quality contacting.

**komax** SOLAR



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The contacting systems from Komax Solar combine a high output with a compact design and are compelling in their ultra-precision and reliability.

### Area of application

A contact ribbon is applied to the first and last cell of the solar module for connection purposes. A wide variety of technologies such as gluing and ultrasonic bonding is used to attach this ribbon. Komax Solar offers fully automatic machines with integrated quality control for all these processes.

The reliable ribbon handling system from Komax Solar applies the ribbon to the cells with special precision and no waste of material. If the customer desires, this same system can combine fully automatic cross contacting, the application of fixing pads or black cover tapes or the curing of conductive adhesive.

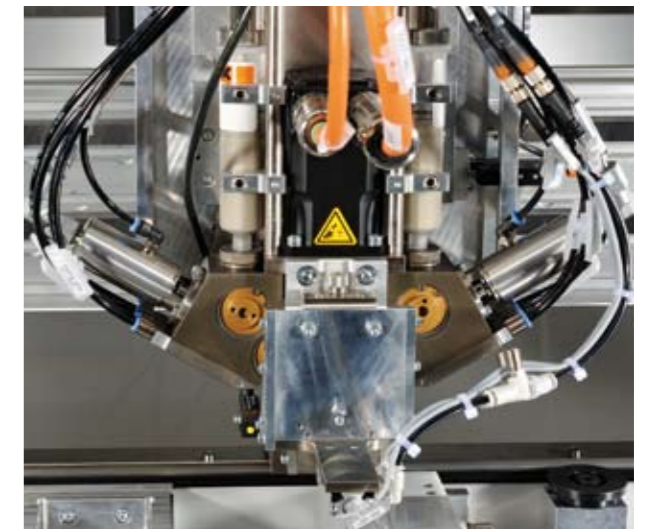
### Machine design

The fully automatic contacting system from Komax Solar is compelling in its high precision and integrated quality control. The proven ribbon handling system reliably eliminates camber in the ribbon, ensuring precise positioning. The cover tapes needed for CI(G)S modules are applied with equal precision and can be integrated in the system with ease. Optical sensors monitor the continuous dispensing of conductive adhesive and the correct application of the ribbon and the cover tape.



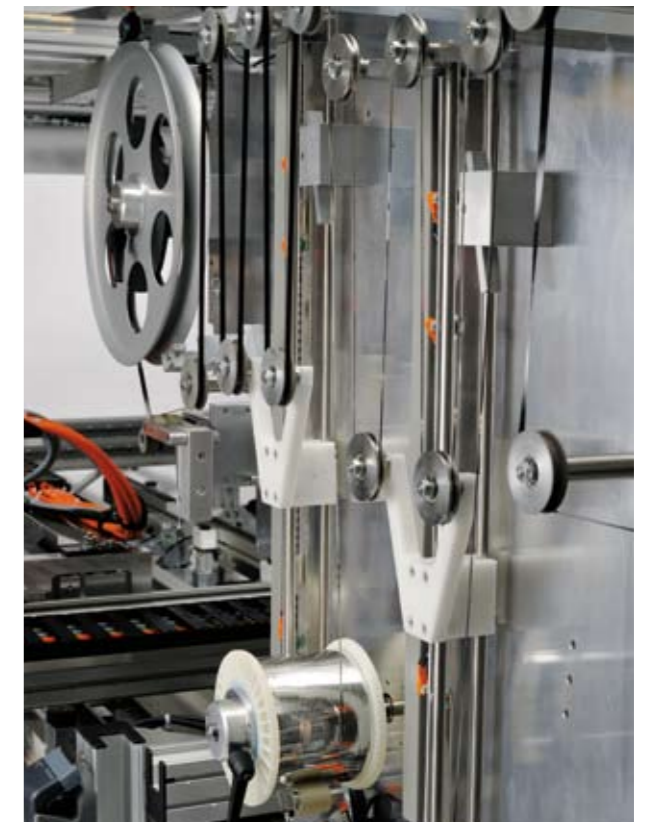
### Lower production costs

The two-component dispenser head with integrated, dynamic mixer eliminates the need for cumbersome handling of pre-mixed and frozen conductive adhesive. Precise volumetric dosing is yet another advantage of the fully automatic contacting systems from Komax Solar, along with easy clean-up and far greater autonomy. Compared to the one-component dispenser the conductive adhesive may be cured right in the fully automatic contacting machine or downstream in the laminator, as the customer wishes.



### User friendly design

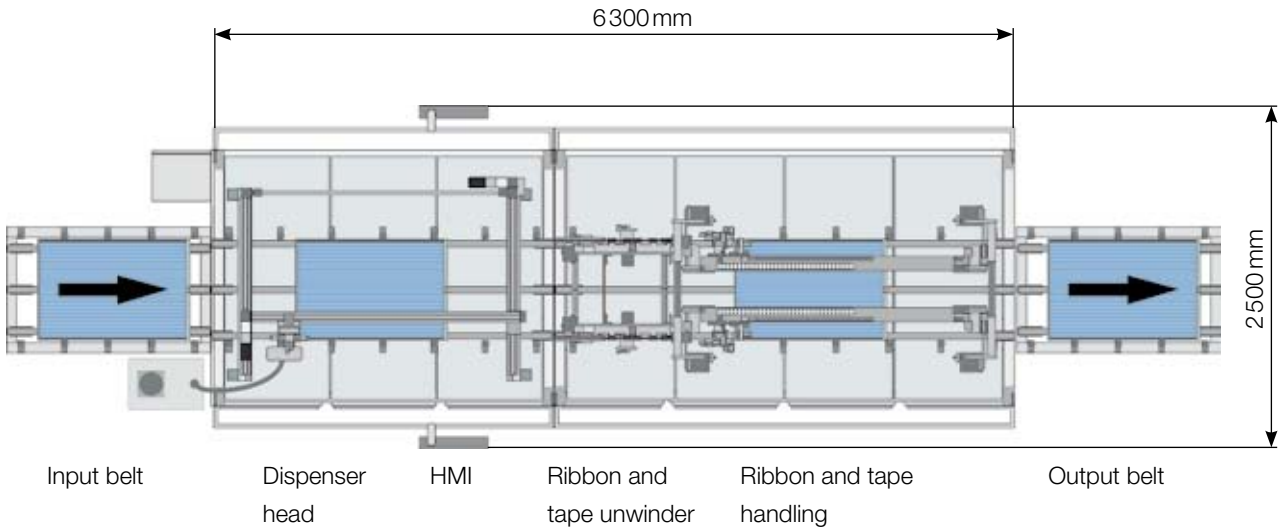
The contacting systems from Komax Solar features a user friendly design. Vertically opening safety doors and a sliding operator's panel make for optimum accessibility. To minimize material changeover times, contact and cover ribbons are processed from large film rolls and reels and a threading aid is provided. For the conductive, adhesive tape Komax recommends a system with two application heads. This system enables a material change without production interruption.



## Options

The fully automatic contacting systems from Komax Solar process conductive adhesive (a choice of one component or two component dispenser head) and conductive adhesive tape.

Along with integrated fixing and cover tape, there can also be curing processes or fully automatic cross contacting integrated in the system. Optional versions are also available for applying multiple contact ribbons next to each other.



## Technical data

Cycle time	< 30 s
Dimensions (W×H×D)	6300 × 2150 × 2500 mm
Operations	Graphical user interface with touch panel
Electrical connection	3 × 400V, 10kVA
Contacting technologies	- 1-comp. dispenser head - 2-comp. dispenser head - Conductive adhesive tape

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## Your benefits:

- Reliable and ultra-precise contacting technology
- Longitudinal and cross contacting combined in a single system
- Integrated fixing and covering processes
- Possible to produce standard and low-voltage modules
- Integrated process control
- Minimal material changeover times
- User friendly design
- Compact design

Komax Solar is your contact partner for all backend needs. The Photovoltaic Competence Center in Rotkreuz offers you solutions for reliable, ultra-precise thin-film technology. Please contact us!