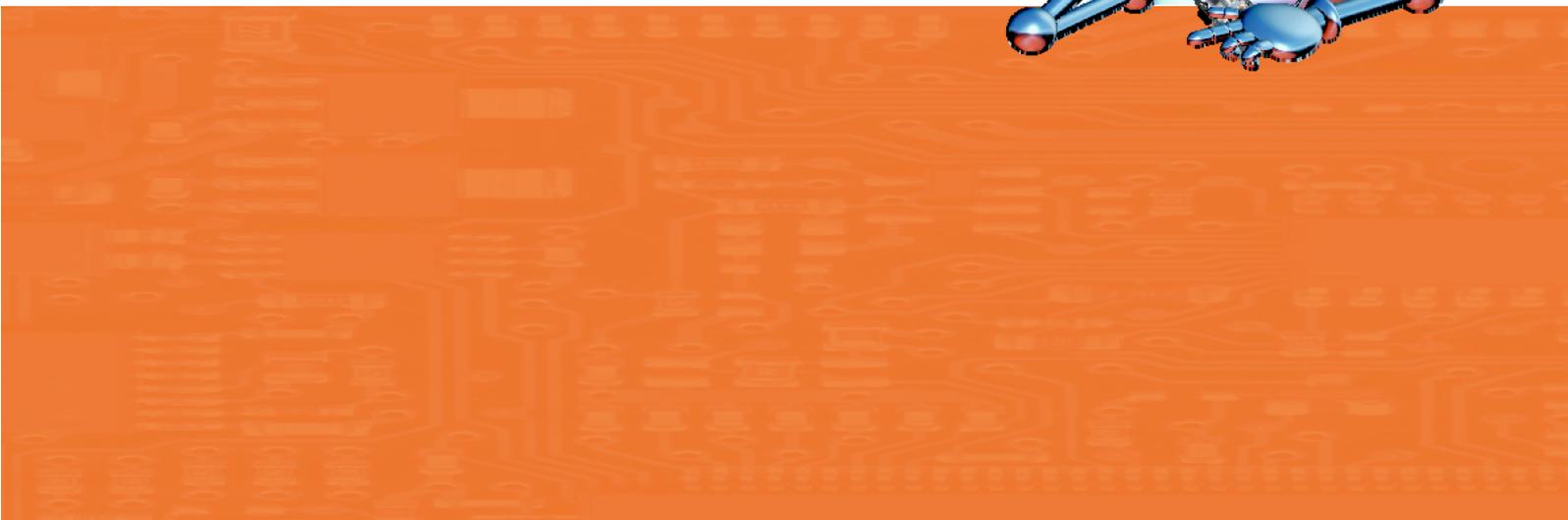
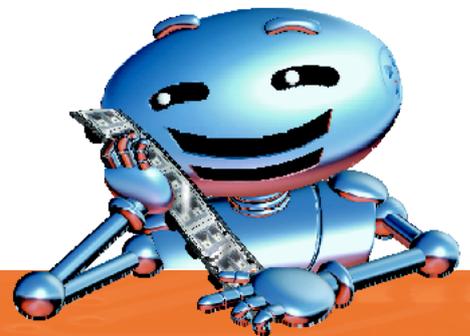


STF Surftape Feeder

for 8, 12 and 16 mm
Surftapes



Surftape Feeder for Siplace p&p systems



Easy handling of dies

For handling of dies in a standard-pick & place system the surfape feeder is a cost-effective solution and easy to handle.

Dies are dispensed with the active side facing up. A push-up tool in the surface feeder lifts up the dies from the sticky tape rails for transfer to the pick head of the assembly placement machine.

The surfape feeder requires space of only 16 mm in the pick & place system. It is especially beneficial when many different dies have to be applied on a PC Board.



Surftape Feeder with Panasonic Interface

| Specifications of the Surf Tape Feeder STF | |
|---|--|
| Compatible with pick and place systems | Sipace (X series with ASM adaptor) and Panasonic NPM, further systems on request |
| Tape widths: | 8 / 12 / 16mm surftape |
| Recommended tape sizes / component: | 8 mm surftape: BE 1 x 1 mm - 2,3 x 2,3 mm, 12 mm surftape: BE 2,3 x 2,3 mm - 5 x 5 mm, 16 mm surftape: BE 3,8 x 3,8 mm - 9,5 x 9,5 mm |
| Placement accuracy of the bare dies on the surf tape: | Bare DIE size up to 2,3 x 2,3 mm: +/- 100 µm, 6 ó Bare DIE size more than 2,3 x 2,3 mm: +/- 200 µm, 6 ó (in relation to the center of the pocket) |
| Required distance of corners bare die – tape pocket: | Minimum 0,4 mm |
| Poke up needle: | Single or triple needle, depending on size of die |
| Tape material: | Surftape metrisch |
| Tape standard: | IEC 286-3, DIN-IEC-286, EIA 481 und JIS C 0806 |
| Reel diameter: | 7" up to 15" |
| Required feeder space for SST | 1 track on the component table |

Surftape® is a unique form of punched carrier tape ideal for bare die or small devices where protection and placement are critical. Components are placed on a wafer film adhesive backing within a compartment boundary.

The devices are held securely in place, preventing any movement or possible damage. When devices are picked from Surftape they are in the exact same location they were placed, simplifying high precision pick and place.

The distance between the parallel adhesive stripes depends on the component and enables lifting of the component with a needle from the bottom side. This distance has an influence also in the adhesive force of the components in the tape (less adhesive area=less adhesive force).

Unlike conventional embossed tape, the compartment does not have to be sized to the component – eliminating the need for custom carrier tooling. Traditional cover tape is also not required. Both elements reduce inventory management costs.

Surftape Advantages:

- Ideal for bare die, chip scale packages, MEMs, LEDs, and micro thin components.
- Wafer film base secures the devices in the exact position they are placed, no theta correction is required.
- Die are held safely in place - preventing corners, edges and surfaces from contacting the packing material.
- Simplifies use - eliminating the need for cover tape.
- One size of Surftape accommodates a multitude of component sizes.
- No tooling cost, no tooling lead time, or large minimum order requirements
- Easy application with Surftape Feeder

Covered by many industry standards for semiconductor packaging:

EIA 747 (Surftape), EIA 481, IEC 60286-3, JIS C 0806

| Base part number | Width (mm) | Pitch (mm) | Max. Die size (mm) | Tape image |
|------------------|------------|------------|--------------------|---|
| ST84 | 8 | 4 | 2.7 x 2.7 |  |
| ST124 | 12 | 4 | 2.0 x 4.4 |  |
| ST128 | 12 | 8 | 5.5 x 5.5 |  |
| ST1612 | 16 | 12 | 9.0 x 9.0 |  |



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further products?

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AOI and SPI systems from Mirtec
Diverse feeding solutions like tube feeder, JEDEC tray feeder and
Tape feeder for special machines
Taping machines, systems for separation and application
of components and special parts
Dispenser, Die Attach Systems, systems for Heat Bonding
and LCD Module Equipment
Solutions for Identification like labels and label printers,
Label feeders, also with integrated printer (POD)

We are looking forward to your challenge!

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