



SURFACE MOUNT CLEANER

SMTC2 Range

ABOUT SDI

SDI is the largest independent manufacturer of contact cleaning systems in the world.

Founded in 1979, we offer highly engineered products dedicated to yield improvement in dust-critical production areas.

THE SDI PRINCIPLE

The SDI cleaning principle consists of three linked processes.



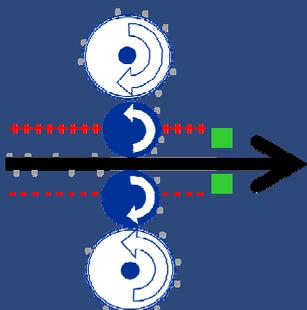
Specially formulated polymer rollers gently lift loose, dry contamination away from any flat surface.



The polymer rollers are in contact with an adhesive roll, onto which they transfer the lifted contamination. When saturated, the outer layer is simply peeled away.



Anti-static systems then prevent re-attraction of airborne particles to the cleaned substrate.



Features

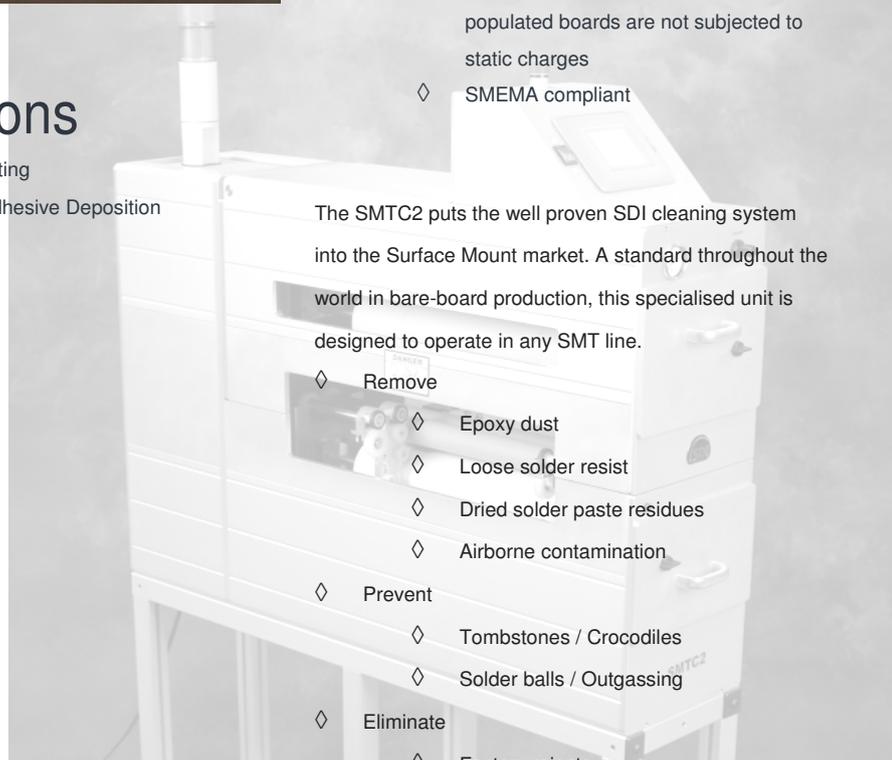
- ◇ Double-sided or Top-side cleaning
- ◇ Slimline profile—easy to add to any SMT line
- ◇ Edge transport system for smooth board travel
- ◇ Simple change to top-side cleaning
- ◇ Powered conveyor width change
- ◇ Simple touchscreen interface
- ◇ Clamshell opening for easy maintenance
- ◇ Pneumatic control of Adhesive Roll (rather than being gravity fed) allows perfect pressure to be set.
- ◇ The SMTC Range can use narrower Adhesive Rolls if required, saving consumable costs
- ◇ SMART anti-static system ensures populated boards are not subjected to static charges
- ◇ SMEMA compliant

Applications

- ◇ Solder Paste Printing
- ◇ Surface Mount Adhesive Deposition

The SMTC2 puts the well proven SDI cleaning system into the Surface Mount market. A standard throughout the world in bare-board production, this specialised unit is designed to operate in any SMT line.

- ◇ Remove
 - ◇ Epoxy dust
 - ◇ Loose solder resist
 - ◇ Dried solder paste residues
 - ◇ Airborne contamination
- ◇ Prevent
 - ◇ Tombstones / Crocodiles
 - ◇ Solder balls / Outgassing
- ◇ Eliminate
 - ◇ Factory rejects
 - ◇ Field failures





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Machine Options

- ◇ **Double Polymer Rollers**
 - ◇ The standard unit comes with two polymer rollers (one top and one bottom). For heavily contaminated boards, or where board source is varied or uncontrolled (typical CEM environment), four polymer rollers can be used (two top, two bottom)
- ◇ **Alarm / Beacon Column**
 - ◇ A column alarm / beacon can be fitted to warn of line problems
- ◇ **Lock**
 - ◇ The SMTC2 can be locked to the adjoining machines for complete stability.
- ◇ **Line direction**
 - ◇ The SMTC2 can be specified to operate in either left-to-right or right-to-left production lines.

Specifications

- ◇ **Board Dimensions**
 - ◇ Width: 38 - 406mm
 - ◇ Length: Minimum 75mm
- ◇ **Maximum Line Speed**
 - ◇ 30m/min
- ◇ **Services Required**
 - ◇ 110V or 220V AC
 - ◇ 5 bar clean dry air

POLYMER ROLLERS

SDI offer a range of polymer formulations to balance the best cleaning performance against the ease of processing a particular substrate.

- ◇ **Light Blue**—silicone-based polymer suitable for most applications, cleaning particles down to 1µ in size.
- ◇ **Green**—silicone-based polymer suitable for delicate substrates, cleaning particles down to 1µ in size.
- ◇ **Yellow**—silicone-free polymer suitable for most applications, cleaning particles smaller than 1µ in size.
- ◇ **Orange**—silicone-free polymer suitable for delicate substrates, cleaning particles smaller than 1µ in size.

IMPORTANT

Material thickness is only a guide to how well a substrate can be processed.

It is *rigidity* rather than thickness that determines a substrate's ability to be cleaned by our systems.

If in doubt, please send samples to our laboratory for testing at the SDI AMERICAS address.

