



WIDE WEB CLEANERS

WC 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.

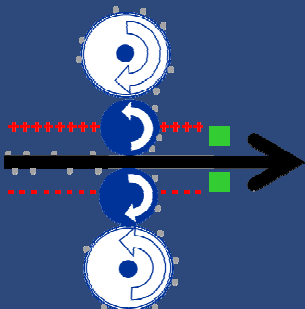


Specially formulated polymer rollers gently lift loose, dry contamination away from any flat surface.



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

- ◇ Single or double-sided contact cleaner
- ◇ Retrofit or OEM install to any wide web line
- ◇ 63.5mm diameter Polymer Cleaning Rollers are perfectly concentric, reducing vibration and wear
- ◇ 76mm or 152mm core Adhesive Rolls trap contamination safely for analysis and disposal
- ◇ Front or side access to Adhesive Rolls
- ◇ Pneumatic control of Adhesive Roll (rather than being gravity fed) allows perfect pressure to be set.
- ◇ The WC Range can use narrower Adhesive Rolls if required, saving consumable costs

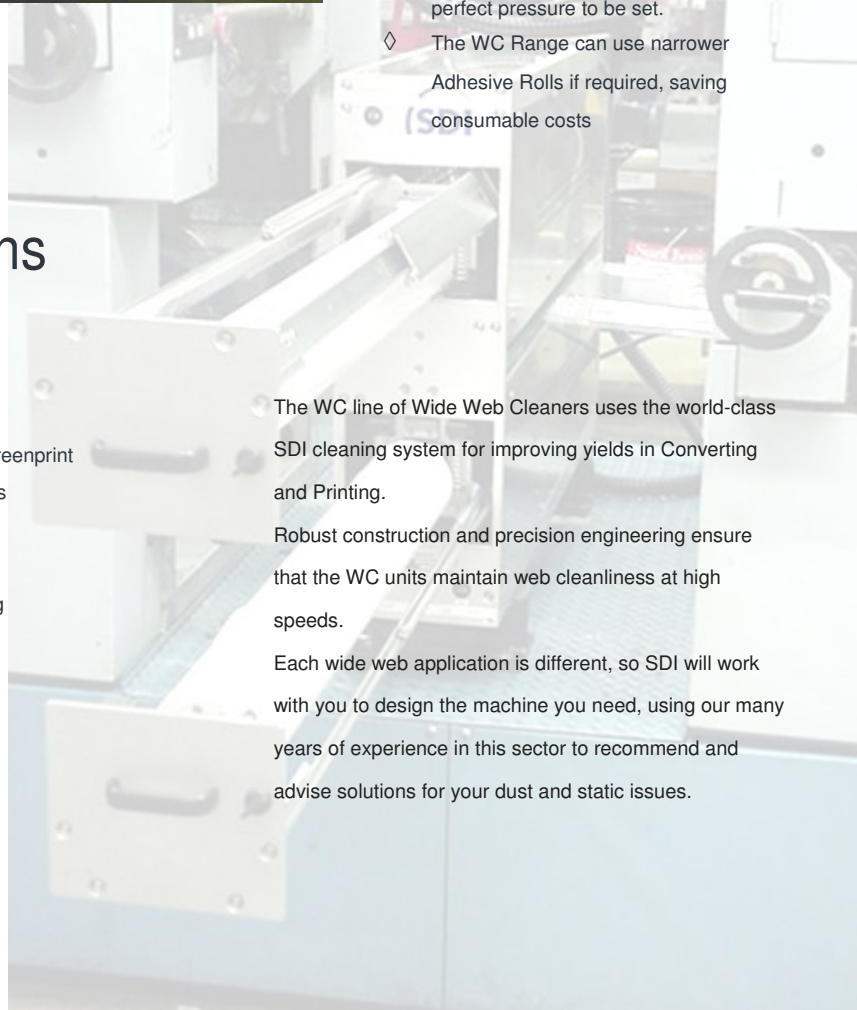
Applications

- ◇ Wide Web Printing
 - ◇ Flexo
 - ◇ Offset
 - ◇ Gravure
 - ◇ Rotary Screenprint
 - ◇ Letterpress
- ◇ Converting
 - ◇ Coating
 - ◇ Laminating
 - ◇ Slitting

The WC line of Wide Web Cleaners uses the world-class SDI cleaning system for improving yields in Converting and Printing.

Robust construction and precision engineering ensure that the WC units maintain web cleanliness at high speeds.

Each wide web application is different, so SDI will work with you to design the machine you need, using our many years of experience in this sector to recommend and advise solutions for your dust and static issues.





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Machine Options

- ◇ **Single or Double-Sided Model**
 - ◇ If only single-sided cleaning is required, the bottom cleaning module can be replaced with an idler roller.
- ◇ **152mm Adhesive Rolls**
 - ◇ High speed and high levels of contamination will saturate the Adhesive Rolls more quickly. The WC6 and WCS6 use double-size rolls to avoid unnecessary line stops.
- ◇ **Adhesive Rolls Side Pull-Out**
 - ◇ Where access to the front of the machine is limited, slides can be fitted to allow operators to easily access the Adhesive Rolls from the side.
- ◇ **Anti-Static**
 - ◇ 2 x 7kV Anti-Static bars at exit (one bar on single-sided version)
- ◇ **NEMA Control Box**
 - ◇ The Control Box is recommended for retrofit installations, as it contains all necessary transformers and regulators.
- ◇ **Installation / Orientation**
 - ◇ The WC Range can be specified to operate in either direction, and at any angle. The power/pneumatic conduit can exit from multiple points.
- ◇ **Extended Shafts for Slave Drive**
 - ◇ The WC Range can be specified with extended polymer roller shafts to allow it to be slave driven by its host machine—recommended for very delicate substrates.

Specifications

- ◇ **Cleaning Widths**
 - ◇ The WC line of Wide Web Cleaners are all made to order, and can be manufactured to almost any web width.
- ◇ **Maximum Web Speed**
 - ◇ 325m/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.

WC Range

The WC Range varies depending on the size and access possibilities of the Adhesive Rolls.

	WC3	WCS3	WC6	WCS6
76mm core Adhesive Rolls	✓	✓		
152mm core Adhesive Rolls			✓	✓
Front access Adhesive Rolls	✓		✓	
Side access Adhesive Rolls		✓		✓
Any orientation	✓		✓	
Vertical orientation		✓		✓

