



FLEXO PLATE CARE SYSTEM

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 two linked processes.

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



The polymer rollers are then passed in contact with a sheet on an adhesive pad, onto which they transfer the lifted contamination. When saturated, the top sheet is simply peeled away, exposing a fresh layer.



Plate Preparation



- ◇ The specially formulated **Black DRS Roller** is an all-around great tool for plate cleaning and mounting
- ◇ Use the **Black DRS Roller** to clean loose, dry contamination from the reverse of the flexo plate, ensuring perfect adhesion to mounting tape.
- ◇ The **Black DRS Roller** is also a *brayer roller* to ensure good contact and adhesion between plates and mounting tapes, as well as to the press cylinder.
- ◇ Shore hardness is perfectly tailored to allow correct pressure to be applied, but for the roller surface to conform to the plate.
- ◇ The **Black DRS Roller** will aid in lifting off contaminant from the plate surface during the mounting process.
- ◇ The **Black DRS Roller** is available in sizes ranging from 3"-18" (75-457mm) widths.
- ◇ Use SDI **DRS-1 Adhesive Pads** to ensure the **Black DRS Roller** remains perfectly clean.

On Press Care

- ◇ The **Mini Tak PC** (Plate Cleaner) Roller is an inexpensive means of removing hickeys from plates while they are on press.
- ◇ The **Mini Tak PC** is a 4" roller with an extension handle allowing for a safe means of removing plate hickeys while press is running.
- ◇ The **Mini Tak PC** kit contains 1 handle and 12 x 4" adhesive rolls





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Options

There are many combinations of options available to ensure that the correct roller can be supplied for the customer's requirements. Standard products are shown in **bold**.

Roller Width

With complete control over our processes, SDI can offer standard and custom widths of hand rollers (up to 18") wide.

- ◇ **DRS6 — 6" cleaning width**
- ◇ **DRS12 — 12" cleaning width**
- ◇ DRS18 — 18" cleaning width
- ◇ Custom widths available

Handle Material

SDI offers both strong metal handles and lightweight plastic handles.

- ◇ **"P" handle - plastic / dual leg**
- ◇ "F" handle - metal / dual leg
- ◇ "S" handle - metal / single leg (edge cleaning)
- ◇ "N" handle - metal / dual narrow legs (edge cleaning)

Grip Angle

Rollers can be supplied straight, or with a 30° angle to the handle.

- ◇ "A" angle - straight
- ◇ **"B" angle - 30° angle**

Polymer Formulation

As the sidebar to the left shows, SDI make a variety of formulations of the polymer roller that touches the substrate.

- ◇ **"H" type - Dark Blue (High Tack)**
- ◇ **"M" type - Red (Medium Tack)**
- ◇ "L" type - Black (Low Tack)
- ◇ **"GP" type - Light Blue (Thin Film)**
- ◇ "Y" - type - Yellow (Medium Tack, Silicone-Free)

Further Options

- ◇ "X" - Telescopic extendable handle for DRS6 and DRS12 with any of the metal handles (F, S or N-type). Extends from 18-34"
- ◇ "J" - Fixed extended handle for DRS6, DRS12 and DRS18 with any of the metal handles (F, S or N-type). Adds 36" to handle length
- ◇ "G" - As "J" but adds 18" to handle length
- ◇ "E" - As "J" but adds 12" to handle length
- ◇ "S" - This roller has a static brush built in, connected to a metal ring in the handle which kills the static when the operator holds it. Plastic handles only.

Ordering Examples

Required: 6" hand roller, with plastic, dual leg handle with 30° angle for cleaning thick metal substrate.

Order: DRS6-PB-H

Required: 12" hand roller, with metal, dual leg, straight handle, for cleaning glass before lamination.

Order: DRS12-FA-Y

DRS Products

DRS1 Adhesive Pads (silicone-lined)

The hand roller is only part of the process in cleaning the substrate of unwanted particulate. The **DRS1 Adhesive Pads** trap and store the collected contamination, ensuring no re-transfer back to the **DRS** roller and on to the substrates.

The extremely high coat-weight of adhesive ensures that the maximum amount of contamination is stored before the top sheet of the pad is full.

DRS1 Adhesive Pads are slightly larger than the 12" width of the **DRS12**, and are thus suitable for both **DRS6** and **DRS12**. Use two pads side-by-side with the **DRS18**.

DRS1 Adhesive Pads are sold in packs of 5 pads.

DRS1-PLAS Adhesive Pads (silicone-free)

These special Adhesive Pads are used with the "Y"-type polymer formulation of hand roller, ensuring that the complete system is silicone-free

DRS4 Pad Holder

The strong pad holder provides a workstation for the **DRS6** or **DRS12** roller (with 30° grip angle) and **DRS1 Adhesive Pads**,

Replacement roller cartridges and handles

Can be ordered from your nearest SDI office or distribution partner.

POLYMER ROLLERS

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

- ◇ **Dark Blue (High Tack)** - silicone-based polymer suitable for rigid substrates and high levels of contamination, cleaning particles down to 1µ in size.
- ◇ **Red (Medium Tack)** - silicone-based polymer suitable for semi-rigid substrates, cleaning particles down to 1µ in size.
- ◇ **Black (Low Tack)** - silicone-based polymer suitable for flexible substrate, cleaning particles down to 1µ in size.
- ◇ **Light Blue (Thin Film)** - silicone-based polymer suitable for the most delicate substrates, cleaning particles down to 1µ in size.
- ◇ **Yellow** - silicone-free polymer suitable for most substrates, cleaning particles smaller than 1µ in size. Uses **DRS1-PLAS** Adhesive Pads.

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.