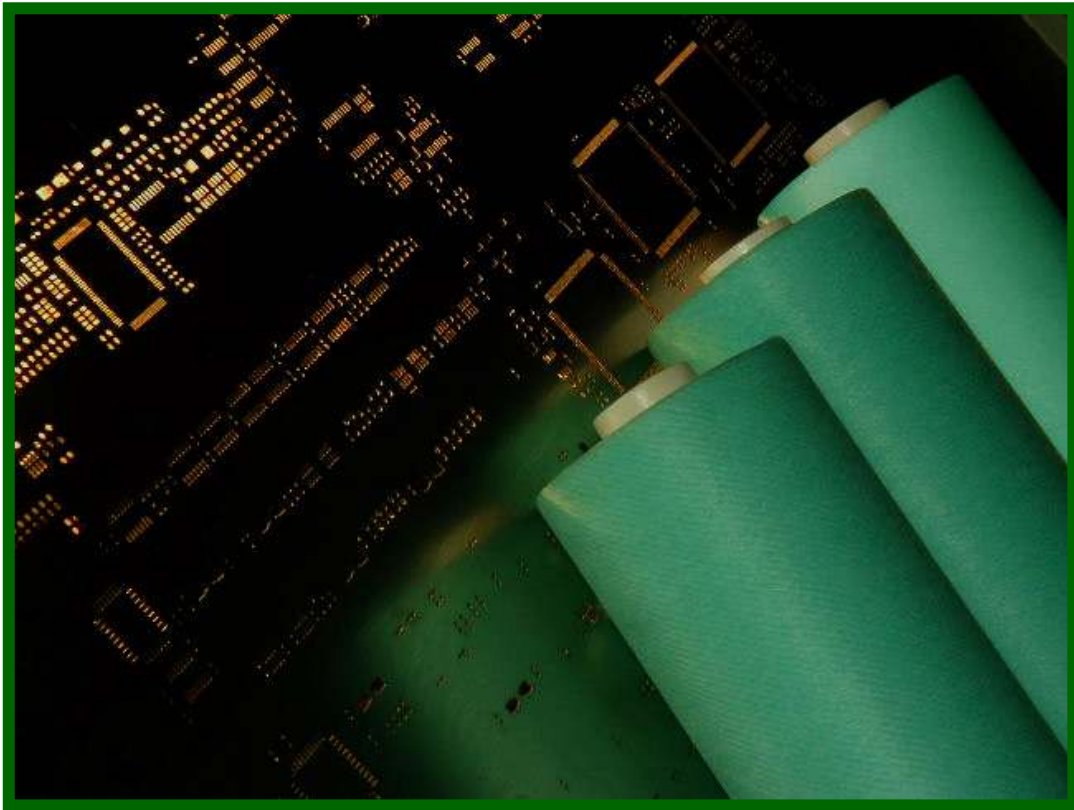


# **GREEN MONSTER!**

**Patent Pending Stencil Wiping Fabric**



## **SO MANY BENEFITS!!!!**

*ESD Safe-The Only One In The World!*

*Works Without Solvents*

*Aggressive Cleaning Surface*

*"Green" Environmentally Friendly*

*Lead-Free Compatible*

*485 CFM Porosity For Vacuum Optimization*

*No Weak Paper Fibers*

*Virtually Lint-Free, Significantly Reducing Defects*

*Longer Rolls Mean Less Down Time and HUGE Savings*

***\*Available for all industry standard stencil printers!\****

## **BENEFIT #1: ESD SAFE**

**GREEN MONSTER!** is ESD safe. Test it for yourself! This is important in preventing ESD events that could damage components, cause voids in solder traces and possible explosions in the presence of flammable solvent vapors. The mere action of re-rolling typical white paper rolls during its manufacturing process creates huge amounts of static. After spending so much time, money and effort in creating an ESD safe assembly area, why would anyone want to bring in a paper roll that is *sizzling* with static? Worse yet, placing it right next to an ESD sensitive PCB! The **GREEN MONSTER!** is a drop-in, ESD-safe solution for any static generating rolls you are currently using.

## **BENEFIT #2: WORKS WITH OUT SOLVENTS!**

**GREEN MONSTER!** Works so well that many companies have reported that there is no need for any solvent. That's right, using solvents is optional! The surface is very aggressive and porosity is just right for ultra efficient wiping. The environmental and financial benefits are obvious.

## **BENEFIT #3: AGGRESSIVE CLEANING SURFACE**

**GREEN MONSTER!** uses thick, coarse, multi oriented rayon fibers. In contrast, paper fibers are small, flat, smooth, dusty and oriented mostly in one direction. This direction is “with the grain” and in the same direction as the wiping action, which is less efficient. **GREEN MONSTER'S** surface is rough and aggressive. As depicted in the microphotograph on the right, there are many voids (nooks & crannies) for solder paste to be collected, as opposed to pushing and “smearing” on a smooth surface. The result: ultra high efficiency cleaning and less solder related defects, saving both time and money.



## **BENEFIT #4: “GREEN” ENVIRONMENTALLY FRIENDLY**

**GREEN MONSTER!** is not just green in color. Because no paper fibers are used, no trees are cut down in its manufacture. Instead, rayon, which is made from cotton (a cultivated crop) is employed for absorbency and strength. It is also environmentally friendly as it works so well without hazardous solvents and has unsurpassed performance when using lead free solder paste. With the **GREEN MONSTER!** you will also wipe less often, use less material and create less hazardous waste, because every wipe will be more efficient.

## **BENEFIT #5: LEAD FREE COMPATIBLE**

Because lead-free solder paste is more difficult to clean, a more aggressive cleaning surface is necessary. The unique fiber composition of **GREEN MONSTER!** is conducive to cleaning and collecting the solder paste between the deep crevices of its fibrous network. **GREEN MONSTER!** is comprised of thick, coarse multi-oriented fibers that scrape and “plow” solder paste into multitude of “nooks and crannies” that only **GREEN MONSTER!** provides. The green color can be used as a color key for lead-free assembly lines.

## **BENEFIT #6: 485 CFM POROSITY FOR VACUUM OPTIMIZATION**

The fiber composition of **GREEN MONSTER!** is designed to provide the correct amount porosity. This allows maximum utilization of the vacuum system on screen printers. Consequently, solder paste vacuuming and removal from apertures is “fierce” and extremely efficient. See for yourself by blowing through our fabric, then try to blow through a regular paper roll material. More air will pass through the **GREEN MONSTER!** roll; proving it's higher vacuum efficiency.

## **BENEFIT #7: NO WEAK PAPER FIBERS & VIRTUALLY LINT FREE**

If your stencil cleaning roll is white, it probably contains weak, short, linty paper fibers. These fibers act as a filler between the polyester (static producing) fibers. Additionally, these paper fibers are held in place by a weak hydrogen bond that was produced as the water dried off in the manufacturing process. Similar to a newspaper while dry, it feels relatively strong; but when wetted, it turns to “mush.” When the paper fibers are subjected to the wiping process, they are then “grated” off, leaving contamination that often gets lodged in the apertures, subsequent prints and eventually, solder joints! **GREEN MONSTER!** fabric is engineered to perform in the stencil printing process, not adapted to it like paper rolls are. **GREEN MONSTER!** uses larger, stronger, virtually lint free ESD safe fibers that are bonded together with a strong cross-linked copolymer. You can see for yourself by way of the tape test. Place a piece of tape on the surface of **GREEN MONSTER!** then pull it off. Now do the same with your current roll material. You will be amazed to see how many more fibers come off the paper!

## **BENEFIT #8: LONGER ROLLS**

**GREEN MONSTER! XL** rolls are 55' to 60' compared to the standard 39' rolls. When the XL version of **GREEN MONSTER!** is used, roll changes are 30% less frequent. This equates to HUGE savings when you consider the hourly cost of a production line and it's associated downtime/changeover value. **GREEN MONSTER!** has been proven to save tens of thousands of dollars and more during the course of a year at many customer sites. The XL version fits on most standard DEK and MPM printers.

# VIRTUALLY ANY SIZE ROLL FOR ANY AUTOMATIC SCREEN PRINTER



SPEEDLINE/MPM

DEK

FUJI

PANASONIC

SONY

YAMAHA

EKRA

AND MORE!!!!

**Please contact us with your machine type and roll size requirements!!**

## Green Monster! XL Return On Investment

(EXAMPLE)

Line value per hour divided by 60 minutes, times minutes to changeover line, times number of changeovers = cost per year to change rolls

**Cost per year to change roll with competitors roll (39' roll)**

$$\frac{\$5000}{60 \text{ min.}} \times \frac{10 \text{ min.}}{200 \text{ changeovers}} = \$166,667$$

**Material Cost for competitors roll**

$$200 \text{ rolls} \times \$15 / \text{roll} = \$3,000$$

**Total Cost for competitors roll: \$169,667**

**Cost per year to change roll with GREEN MONSTER! XL roll (55' roll)**

$$\frac{\$5000}{60 \text{ min.}} \times \frac{10 \text{ min.}}{142 \text{ changeovers}} = \$130,000$$

**Material Cost for GREEN MONSTER! XL roll**

$$142 \text{ rolls} \times \$20 / \text{roll} = \$2,840$$

**Total Cost for GREEN MONSTER! XL roll: \$132,840**

**TOTAL ANNUAL SAVINGS\*: \$36,827**

**30% less changeovers!**

**30% more line up time!**

\*based on 200 rolls currently used per year

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