

TECHNOtalk

Vol. III UnderStencil Wiping Rolls

2003

JNJ INDUSTRIES

SmartRolls®.....

The Industry Standard in UnderStencil Wiping Rolls

JNJ Industries is the recognized expert in understencil wiping rolls by meeting or exceeding the demanding requirements of the equipment manufacturer and by offering the widest range of OEM compatible rolls in the global market today. We produce



both standard and custom rolls for Speedline/MPM and DEK, Panasonic, Fuji, EKRA, and Juki's family of printers (ref. to inside chart for our full range of OEM rolls). JNJ utilizes only the highest quality materials available for our SmartRoll® UnderStencil Wiping Rolls, chosen specifically to deliver optimum performance and value for each and every application. Because understencil wiping is so critical in the electronics industry, JNJ manufactures SmartRolls in three application engineered material specifications. Made from DuPont's® finest grade nonwoven synthetic paper and spun lace fabric, our 4000 Series Standard material is considered to be the

industry standard for cleaning the underside of stencils. Our 5000 Series SmartWeave material was developed for stencil printers that are equipped with the vacuum assisted wiper system and the 7000 Series OmniRoll material is ideal for printers that are equipped with or without the vacuum option. Each SmartRoll is individually shrink wrapped in a protective static dissipative ESD safe film, with superior static control properties, allowing an unlimited shelf life. JNJ has introduced this film to the global market as a recommended packaging addition for every ESD control program. Whether your requirement is standard or custom, SmartRolls from JNJ Industries are the most cost effective stencil wiping choice!

SelectaWipe™

Our SelectaWipe rolls have 200 perforated wipes and were designed for cleaning stencils, screens, PC boards, squeegees, tools, and machinery. An economical all purpose wipe that can be used for every type of industrial cleaning application. SelectaWipes allow users to tear off a cleanroom grade wipe with the ease of a paper towel. These wipes are made from the same DuPont lint free, nonwoven material as our 401 UnderStencil Wipes and our Standard 4000 Series SmartRoll UnderStencil Wiping Rolls. They are tough and absorbent, and resist tearing or shredding, even when wet. Available in 9" x 9" and 9" x 12" with an optional dispenser made from anodized aluminum that can be grounded for ESD sensitive areas. SelectaWipes eliminate the difficult task of trying to remove a single wipe from a prepackaged stack of wipes. Ideal for cleaning fine pitch and standard pitch stencils. Compare the cost per wipe of our SelectaWipes against the cost of flat wipes from other suppliers and you'll find that our SelectaWipes are not only more convenient to use, but they are also less expensive.



SMT Production Supplies Kit

Our SMT Production Supply Kits were developed to accommodate small and mid-size manufacturing facilities that don't require production supplies by the case. Each SMT Production Supply Kit is packaged with understencil wiping rolls, presaturated wipes and dry wipe rolls to accommodate the production needs of the average stencil printer for one week. They are available in various packaging styles - there are kits designed for use with MPM automatic printers, DEK automatic printers and for printers that do not have automatic stencil wiper assemblies. The SMT Production Supply Kits and/or the individual items in the kits can be ordered through your local distributor. The kits for MPM or DEK automatic printers come with; 4 - SmartRoll UnderStencil Wiping Rolls, 2 - 9" x 9" SelectaWipe Rolls, that are as easy to use as paper towels but are made from Class 100 cleanroom material, 1 canister of SMT Stencil Cleaner and 1 canister of IPA/DI with matching Foil Refill Pack. Kits without understencil wiping rolls are also available.



**Your Manufacturing Operation Demands the Highest Quality and Performance -
Insist on SmartRolls® from JNJ!**

SmartRolls...The SmartChoice!

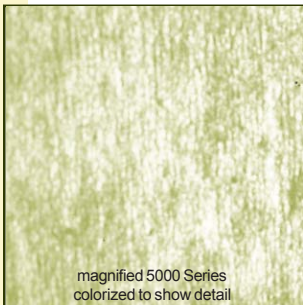


Standard - 4000 Series - JNJ's Standard SmartRoll material is the industry standard for cleaning the underside of stencils, keeping them free from solder paste, flux, inks, and epoxies between prints. Our new and improved DuPont Sontara® material enhances air flow, now allowing complete compatibility of any stencil printer with or without vacuum. Wiping with SmartRolls prevents smearing, bridging, solder balls, and other problems associated with stencil printing. This cleanroom grade wiping roll is very low in surface lint, is tough, absorbent, resists tearing and shredding, and can be used with or without solvent. Rolls made from the Standard material begin with "4", i.e. part number 4101MP represents an MPM roll made with the 4000 Series material.



magnified 4000 Series
colorized to show detail

SmartWeave™ - 5000 Series - A JNJ exclusive, SmartWeave was developed specifically for stencil printers that use vacuum to draw excess solder paste and other materials out of the stencil apertures and into the wiper material. Approved for use on machines from DEK, Panasonic, KME, Speedline/MPM and other manufacturers, the SmartWeave material is porous enough to allow the airflow of a vacuum system to penetrate it, yet is dense enough so that soils and debris will not pass through it. Like all JNJ materials, SmartWeave is low in lint, very absorbent and prevents solvent in the solvent bar systems from "wicking" through the material - it stays concentrated in the area where it is dispensed. Rolls made from the SmartWeave material begin with "5", i.e. part number 5202DK represents a DEK roll made with the 5000 Series material.



magnified 5000 Series
colorized to show detail

Achieve Maximum Cleaning Performance when Combining JNJ's SmartRolls with SMT Stencil Cleaner in Your Solvent Bar System

*JNJ's SMT Stencil Cleaner is approved by DEK



Does JNJ actually make their understencil wiping rolls?

Yes, we do! In fact, we have manufactured and sold millions of rolls worldwide over the past 10 years.

JNJ is the only printing accessory supplier that produces all of their own wiper roll products, including understencil wiping rolls. JNJ is a material converter - we purchase master mill rolls from leading raw material suppliers, that weigh nearly a ton, and convert them into our SmartRolls and SmartWipes.

JNJ purchases only first quality materials for our products. Focusing on quality, we chose an elite group of suppliers, including DuPont, to furnish the three materials for our understencil rolls. We take great care in selecting our raw materials to guarantee the highest quality and consistency of any understencil roll available in the global market today.

Because JNJ is a converter, we have specialized machinery that allows us to be an exclusive manufacturer providing custom solutions to your companies specific development and production requirements. We can provide any custom core length, additional linear feet per roll, material cut backs, notched cores, taped cores, plastic or paper cores, while holding the most stringent tolerances. Custom quantities are based upon your production needs, no minimum required. Our rolls come to you with a quality guarantee and because we make our own rolls, we offer them at more than a competitive cost.

OmniRoll™ - 7000 Series - The OmniRoll has the same raw materials and manufacturing process as our Standard 4000 Series material, but has a lighter basis weight. This material composition has excellent air flow characteristics, which allows the printer's vacuum system to work as designed, but also makes it an ideal roll for printers that have not been upgraded with a vacuum assisted wiper system. Because of its lighter basis weight, it accommodates additional linear feet per roll while maintaining the standard roll OD specification. Rolls made from the OmniRoll material begin with "7", i.e., part number 7101MP represents an MPM roll made with the 7000 Series material, while part number 7101MP-55 has 55 linear feet of material instead of the normal 39 feet for a standard MPM roll.



magnified 7000 Series
colorized to show detail

SmartRolls...see the quality in every roll

JNJ SmartRoll Specifications

Standard 4000 Series	SmartWeave 5000 Series	OmniRoll 7000 Series	Printing Machine and/or OEM Part Number	Core Length	Core ID	Roll OD	Feet Per Roll	Material Width
All Material Compatible on Printers With or Without Vacuum								
JUKI								
4001JK	5001JK	7001JK	KS-1700	18.5" (470mm)	0.75	2.3"	37' (11.27M)	17.75" (450mm)
SPEEDLINE/MPM								
4101MP	5101MP	7101MP	MPM#1485/AP & UP2000	18" (457mm)	.75"	2.5"	39' (12M)	17.5" (444mm)
		7101MP-55	MPM AP & UP2000	18" (457mm)	.75"	2.5"	55' (17M)	17.5" (444mm)
4101MP-12	5101MP-12	7101MP-12	MPM AP & UP2000	18" (457mm)	.75"	2.5"	39' (12M)	12" (305mm)
4102MP	5102MP	7102MP	MPM#P2348/AP	18" (457mm)	1.0"	2.5"	33' (10M)	17.5" (444mm)
4103MP	5103MP	7103MP	MPM#P1858/AP	25.25" (641mm)	.75"	2.5"	39' (12M)	24.75" (628mm)
4104MP	5104MP	7104MP	MPM UP3000	24.5" (622mm)	.75"	2.5"	39' (12M)	24" (609mm)
4105MP	5105MP	7105MP	MPM AP & UP	22" (558mm)	.75"	2.5"	39' (12M)	21.5" (546mm)
		7105MP-55	MPM AP & UP	22" (558mm)	.75"	2.5"	55' (17M)	21.5" (546mm)
	5107MP	7107MP	MPM UP1500	20.47" (520mm)	1.5"	2.5"	31' (9M)	19.47" (494mm)
DEK								
* Note: DEK 4202DK rolls have 30' (9M) of material								
4201DK	5201DK	7201DK	DEK 265, #112239	21.25" (540mm)	.75"	2.5"	36' (11M)	21.25" (540mm)
4202DK*	5202DK	7202DK	DEK 265, #129051/GS, GSX & 288	20.87" (530mm)	.75"	2.25"	36' (11M)	20.12" (511mm)
		7202DK-45	DEK 265, #129051/GS, GSX & 288	20.87" (530mm)	.75"	2.25"	45' (14M)	20.12" (511mm)
4202DK-12*	5202DK-12	7202DK-12	DEK 265/GS, GSX & 288	20.87" (530mm)	.75"	2.25"	36' (11M)	12" (305mm)
4202DK-14*	5202DK-14	7202DK-14	DEK 265/LT & GS	20.87" (530mm)	.75"	2.25"	36' (11M)	14" (355mm)
4202DK-16*	5202DK-16	7202DK-16	DEK 265/ELA	20.87" (530mm)	.75"	2.25"	36' (11M)	16" (406mm)
4203DK	5203DK	7203DK	DEK 265	18" (457mm)	.75"	2.25"	30' (9M)	18" (457mm)
4204DK	5204DK	7204DK	DEK 265	14" (355mm)	.75"	2.25"	30' (9M)	14" (355mm)
4206DK	5206DK	7206DK	DEK 260, #128034/SA	17.91" (456mm)	.75"	2.36"	36' (11M)	17.16" (435mm)
SMTECH/QUAD								
4301SM	5301SM	7301SM	SMTECH/QUAD/AVP-300	16" (406mm)	1.5"	2.5"	27' (8.2M)	16" (405mm)
4302SM	5302SM	7302SM	SMTECH/QUAD/AV400 & (MPM) UP1500	20.47" (520mm)	1.5"	2.5"	27' (8.2M)	20.47" (520mm)
EKRA								
4401EK	5401EK	7401EK	EKRA/E3, E4, E5	11.81" (300mm)	.525"	2"	28' (8.5M)	11.81" (300mm)
4402EK	5402EK	7402EK	EKRA/E3, E4, E5	17.71" (450mm)	.525"	2"	28' (8.5M)	17.71" (450mm)
4403EK	5403EK	7403EK	EKRA/E3, E4, E5	23.62" (600mm)	.525"	2"	28' (8.5M)	23.62" (600mm)
4404EK	5404EK	7404EK	EKRA/E3, E4, E5	19.69" (500mm)	.525"	2"	28' (8.5M)	19.69" (449mm)
PANASONIC								
4501PA	5501PA	7501PA	PANASONIC G1, #1935C081470	21.25" (540mm)	1.5"	3.0"	39' (12M)	21.25" (540mm)
4502PA	5502PA	7502PA	PANASONIC G1	14.18" (360mm)	1.5"	3.0"	39' (12M)	14.18" (360mm)
4503PA	5503PA	7503PA	PANASONIC SPPG1	28" (711mm)	1.5"	3.0"	39' (12M)	28" (711mm)
4504PA	5504PA	7504PA	PANASONIC SPPV	16.14" (410mm)	1.5"	3.0"	39' (12M)	16.14" (410mm)
4506PA	5506PA	7506PA	PANASONIC SP28P	18.89" (480mm)	1.5"	4.0"	108' (33M)	18.89" (480mm)
SANYO								
4601SA	5601SA	7601SA	SANYO	11" (279mm)	1.5"	3.0"	39' (12M)	11" (279mm)
4602SA	5602SA	7602SA	SANYO	11" (279mm)	1.5"	4.0"	108' (33M)	11" (279mm)
4603SA	5603SA	7603SA	SANYO	18.3" (465mm)	1.5"	4.0"	108' (33M)	18.3" (465mm)
KME								
4701KM	5701KM	7701KM	KME	10.63" (270mm)	1.5"	4.0"	108' (33M)	10.63" (270mm)
4702KM	5702KM	7702KM	KME	13.78" (350mm)	1.5"	4.0"	108' (33M)	13.78" (350mm)
4703KM	5703KM	7703KM	KME	7.28" (185mm)	1.5"	3.75"	85' (26M)	7.28" (185mm)
4705KM	5705KM	7705KM	KME	21.25" (540mm)	1.5"	4.0"	108' (33M)	21.25" (540mm)
NEW LONG								
4801NL	5801NL	7801NL	NEW LONG	10.19" (258mm)	1.5"	2.68"	30' (9M)	10.19" (259mm)
4802NL	5802NL	7802NL	NEW LONG	16.54" (420mm)	1.5"	2.68"	30' (9M)	16.54" (420mm)
FUJI								
4901FU	5901FU	7901FU	FUJI	19.69" (500mm)	1.0"	2.5"	33' (10M)	19.69" (500mm)
4902FU	5902FU	7902FU	FUJI GP541	15.63" (396mm)	1.0"	2.13"	26' (8M)	15.63" (396mm)
4903FU	5903FU	7903FU	FUJI 551E	15.74" (400mm)	1.0"	2.2"	26' (8M)	15.74" (400mm)

Every Roll is Wrapped in Static Dissipative ESD Safe Film

Every SmartRoll is shrink wrapped in a protective static dissipative ESD safe film with superior static control properties. Our film has the lowest surface resistivity ever available in an antistatic shrink film. This transparent film is amine-free and has inherent antistatic properties which provide permanent product stability. Its contact clarity allows easy identification of the packaged contents. The surface resistivity remains at a constant level over extended periods of up to two years. Made of top grade polyfin resins, it is completely recyclable and contains no harmful substances. JNJ's ESD safe shrink film is a light packaging concept which is environmentally safe and limits post-consumer waste.



CUSTOM ROLLS

Custom Rolls Can Save Your Company Money!

It is JNJ's motto that CUSTOM doesn't necessarily mean more expensive. Most companies aren't aware that custom rolls are offered in many sizes for all types of applications. For example: If your printing 13" boards, why purchase an 18" roll? By purchasing the standard roll, you pay for the added material plus the additional cost of discarding the *extra* contaminated waste. Because JNJ is a converter, we stock hundreds of master rolls and cores of all sizes enabling us to manufacture any roll.

Custom Options

- *Varied Core Lengths*
- *Range of Material Widths*
- *More/Less Linear Feet Per Roll*
- *Taped Material Edge*
- *Taped Core*
- *Notched Cores*
- *Take-up Cores*
- *Material Cutbacks*
- *No Minimum Volumes Required*
- *Selection of Core Materials*
- *Material Options*
- *Perforations*

Our Capabilities

JNJ offers many cost saving services. We have dedicated equipment that allows us to be an exclusive manufacturer providing custom solutions to your companies specific development and production requirements. Because we're the actual manufacturer, we can produce a custom roll based on your specifications. While most roll suppliers either shy away from or lack the capabilities to provide this service, JNJ finds it easy! JNJ has assisted many companies such as Soletron, Celestica, Nokia, SCI, Sanmina, Flextronics and Motorola in customizing rolls for their specific applications.



JNJ's 83,000 sq. ft. facility has enabled us to be even more competitive by adding several new manufacturing lines to our production floor.

JNJ INDUSTRIES

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JNJ's commitment is not only to provide the highest quality products possible, but to make them available to you for fast delivery through a network of local, national and international distributors.

**SMT PRODUCTION SUPPLIES & EQUIPMENT
CUSTOM & PRODUCTION MACHINING**