JNJ INDUSTRIES

290 Beaver Street

Franklin, MA 02038

Phone: 508-553-0529 / 800-554-9994

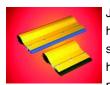
Fax: 508-553-9973

E-mail: sales@jnj-industries.com

Web: jnj-industries.com

THE INDUSTRY STANDARD IN QUALITY AND PERFORMANCE

ACCESSORIES ARE EVERYTHING!! UNIVERSAL HAND HELD SQUEEGEE HOLDERS



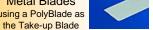
standard

JNJ's rugged squeegee holders are made

lengths ranging from 4" through 18". Custom sizes are also available.

Blade Calcellon for Halders

gold anodized	Blade Selection for Holders		
extruded alu- minum. They	Туре	Description	Visual
are capable of	HRB-**-*	3/8" x 1.25" x *	
holding metal		60-120 durometer	
and polyure-			
thane blades	UHMBA-*	Metal Blade	
for all your	OT IIVIDA-	Assembly	
screen printing		-	
requirements.	UHFMI-*	Metal Blades	
Offered in	OT IT IVII-	using a PolyBlade as	







POLY BLADE CUTTERS

Our Hand Held Squeegee Blade Cutter cuts 50 to 100 durometer squeegee blades

cleanly and safely. For diamond and single edge polyurethane squeegee blades, this ergonomically designed tool comes with a precision steel blade. Made from black anodized aluminum.

The Benchtop Squeegee Blade Cutter is rugged and can be bolted to the top of a workbench. Model 640 quickly and easily lets you accurately measure and cut diamond, single edge and rectan-



100 durometer. Made from gold anodized aluminum, the unit comes with a set of five replacement blades, a scale and a fine adjustment rod for setting blade lengths for repeat cuts.

INDUSTRIES 2

TECHNO talk

JNJ's **POLYURETHANE**

800-554-9994

SQUEEGEES

POLYURETHANE SQUEEGEE BLADES

INSIDE THIS ISSUE: METAL BLADES 2 & HOLDERS

SMARTTEK®	
SQUEEGEE	
ASSEMBLY	

ELECTROLIZE COATING

2

UNIVERSAL HOLDERS

SQUEEGEE CUTTERS

SQUEEGEE BLADES are machined, not molded, from cast sheets of high quality polyurethane and high density polymer (HDP). Machined blades not only offer increased operational performance but are available in durometers ranging from 50 through 120 and 180. Precision machined blades resist

solvents, have sharper edges, and maintain tighter tolerances than molded blades and can be machined to your specifications to fit any printer ever made. Check out our hand-held holders with blades for manual printing.

HARDER POLYURETHANE BLENDS

JNJ has turned to harder polyurethane blends to provide better performance for fine and ultra-fine pitch printing of

solder paste and other high viscosity materials. Our machine-sharpened edges provide uniform deposition without scavenging. The advantages of using harder polyurethane blades versus noncoated metal blades include: lower cost, no es retooling, and little or no es stencil wear or damage

Cleaning Polyurethane

Research has shown that cleaning chemicals can breakdown polyurethane. In order to maintain the integrity of the blade, caution must be taken when choosing a cleaner. The following information will provide you with an awareness of what is recommended and what is not suitable for cleaning polyurethane blades.



Measured on the Shore A scale, polyurethane hardnesses are expressed in

Chemical & Solvent Resistance

lydrocarbons	1
ther	2
lycols	2
sopropyl Alcohol (IPA)	2-3
cetone	4
oluene	4
1EK	4
utyl Acetate	4

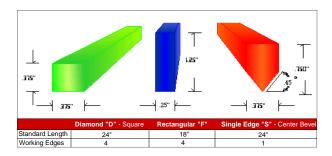
1 - excellent, 2 - good, 3 - fair, 4 - poor

CUSTOM BLADES

JNJ offers custom polyblades manufactured to your company's specifications. We can cut the length to size, change the angles, make them in metric sizes, make them thicker or thinner, and even make Monopoly® house game pieces for your kids.

WE CAN DO IT ALL!

terms of durometers. Because higher durometer polyurethane blades have better resistance to distortion, they have gained considerable popularity for fine and ultrafine pitch printing.



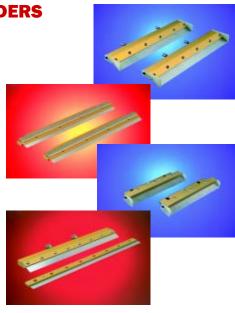
APPLICATIONS

Duro	Color	Applications
50	Black	Inks
60	Brown	Inks
70	Yellow	Thick Film, Epoxies, Step Stenc
80	Red	Thick Film, Solder, Epoxies, SM
90	Shiny Green	SMT, Solder, Epoxies
100	Blue	Fine Pitch, Solder, Epoxies
110	Orange	Ultra-Fine Pitch, Solder, Epoxies
120	Flat Green	Ultra-Fine Pitch, Solder, Epoxies
180	White	Ultra-Fine Pitch, Solder, Epoxies

SOUEEGEES Page 2

METAL BLADES & HOLDERS

Achieve or exceed Original Equipment Manufacturer's (OEM) specifications with JNJ's drop-in replacement metal squeegee blades and holders. Our OEM line includes flat metal blades, adjustable angle metal blades, combination plastic and metal blades and squeegee blade holders for leading manufacturers such as MPM/Speedline, Fuji, DEK, deHaart, Panasonic, EKRA, Juki and SMTech.



Why JNJ Metal Blades...

- Custom lengths up to 30"
- ⇒ Electrolizing Rc 70/72 Surface Hardness
- Absolutely Will NOT Chip, Flake or Peel
- ⇒ Remarkable Wear Resistance
- Superior Corrosion Protection
- Extraordinarily Low Coefficient of Friction
- Delivers Crisp Print Deposits Time After Time
- Smooth Sliding Properties
- ➡ Electrolizing is Conductive
- Eliminates Electrostatic Buildup & Discharge
- → Masking & Outgassing are Not an Issue
- ⇒ Satin Gray Appearance
- Precision & Uniformed Plating
- Absolute Adhesion Entire Surface is Coated

The Industry Standard in

Quality and Performance

<mark>JNJ blades are acknowl-</mark>

edged in the printed circuit

<mark>board industry worldwide</mark> for

their wear resistance and

high performance.

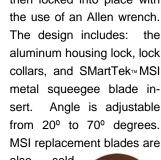
Stain Resistant

SMARTTEK® ADJUSTABLE METAL SOUEEGEE ASSEMBLY

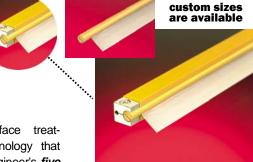
Our patented MSA adjustable angle of attack metal squeegee blade assembly fits directly into most standard 3/8" x 3/8" diamond blade holders or 3/8" x 3/4" single edge blade holders eliminating the need to buy special metal blade holders for existing machines. JNJ's adjustable angle squeegee blades have been tested and approved by DEK Printing Machine Ltd. and by both MPM & DEK users worldwide. Our SMartTek blades allow MPM, DEK and other OEM users to adjust the angle of their squeegee blades from 45° to 60° in a matter of seconds. The unique design holds the metal blade in such a way that there is no distortion, which is commonly found on clamped or screw mount blades. The metal blade adjusts easily

to any desired angle and is then locked into place with

also separately.



sold



Q&A

Does JNJ manufacture OEM specific blades in custom lengths, widths and configurations?

YES WE DO...JNJ can help you customize your applications and save you time and & money.

ELECTROLIZE COATING

JNJ's metal blades are a stainless steel base metal with our exceptional Electrolized coating. The coating consists of a proprietary blend of chromium and other elements, making available a hard surface of Rc 70/72 Rockwell. Electrolizing offers consistent and reliable performance for today's SMT printing needs and future applications. The Electrolized surface treatment is a technology that addresses an engineer's five most critical needs:

Hardness • Adhesion • Lubricity • Conductivity • Precision

The combination of these five design-in features provide an unsurpassed, consistent, reliable technology for applying solder paste, conductive

and nonconductive adhesives to stencils for the printed circuit board industry.

SQUEEGEES

Hardness

Electrolizing provides the or separation. The Electrolmetal with a surface hardizing technology also focuses ness of Rc 70/72 Rockwell. on the cohesive properties of A combination of factors enable the coating to achieve a tough and extremely hard surface. Electrolizing combines appropriate engineerthemselves. This application ing of proprietary alloys and does not allow Electrolizing pure chromium, with a conto "peel-off" in layers or shed sistent, controlled and unique loose particles as seen in deposition processing proceother types of plating. dure. The density of the coating provides a surface which is non porous and has fewer The primary cause of blade inclusions, voids and other wear is frictional force. Elecsurface irregularities as comtrolized coating covers with a pared to conventional nickel hard surface with low coeffiplating. The combination of cient of friction and will inhardness and density results crease the blade life. The Rc in reduced wear rates and 70/72 hard surface coating

Adhesion

material fragmentation.

rectly on the base metal being treated, with bend test-

Electrolizing vs.

Nickel Plating

The Electrolizing process is

an alternative to nickel plat-

ing that significantly reduces

or eliminates wear due to

galling, abrasion, and non-

adhesion. It gives a lower

friction coefficient, extending

blade life and providing good

release properties. This thin,

uniform coating is applied

without buildup on edges or

corners; it does not flake,

chip or peel. Nickel plating

requires a heavy coat (a

minimum of .003" thickness

has to be used) that makes

Electrolizing is applied di-

will also resist abrasion and prevent the interlocking of mating surfaces, either sliding or stationary. The coefficient of friction of Electrolized

the wear resistance. After

multiple passes the Teflon

wears off and again the

nickel will break and peel off.

of the blades with three in-

herent characteristics: 70/72

Rc hardness, lubricity to en-

hance release and eliminate

ing to 180° without showing

signs of chipping, spalling off

the molecular elements be-

ing applied, and assures that

these molecules form an

absolute cohesive bond to

Lubricity

stainless

oiled,

high

as .10.

discharge.

be precise,

thickness.

main objective.

depositions to a

steel.

with a very

finish, has

and hard-coat, Electrolizing

is a conductive coating.

Combined with increased

Precision

Our

been tested as low

Conductivity

Unlike anodized

it brittle. Therefore in applisticky surfaces and staining, cations that require bending and total adherence to the or flexing, the coating will base metal. The alloy used break and peel, reducing in the Electrolizing process blade life. Nickel plating provides an unusual combiimpregnated with Teflon® or nation of bearing properties, with a Teflon (plastic) coating remarkable wear resiswill add smooth sliding proptance, and extremely erties but will not increase

blades.

low coefficient of friction, smooth sliding properties, superior corrosion protection, and an excellent seal-Electrolizing extends the life ant when applied to our stainless steel 0&A

Page 3

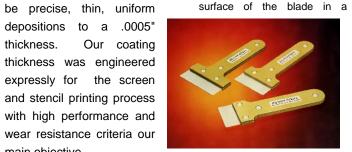
How long do JNJ metal blades last?

More than twice* as long as OEM or other manufacturers' nickel plated and/ or Teflon coated blades.

*variables in the printing process affect blade life

VITAL PART OF PRINTING wear resistance, the conductivity property eliminates We machine a radius on the electrostatic buildup and edge of our blades and run angles off both sides of the radius. This construction prevents scratching and surface Electrolized coating was damage to stencils. It also developed and designed to makes the paste roll off the

BLADE EDGES ARE A



smooth sliding action that delivers crisp print deposits time after time. This design along with the Electrolized coating identifies the unique blade properties that we offer to provide better performance for fine and ultra-fine pitch printing.

ELECTROLIZE COATING REVIEW

Coating Thickness 0005" Hardness, Rc 70/72 Corrosion Excellent Wear Excellent Excellent Lubricity Conductive Yes **Operating Temp** 1600°F Masking As Required Color Satin Gray