





# Katana® Doctor Blade Series – Trust Through Tradition –

Given their flawless beauty and unrivalled engineering,

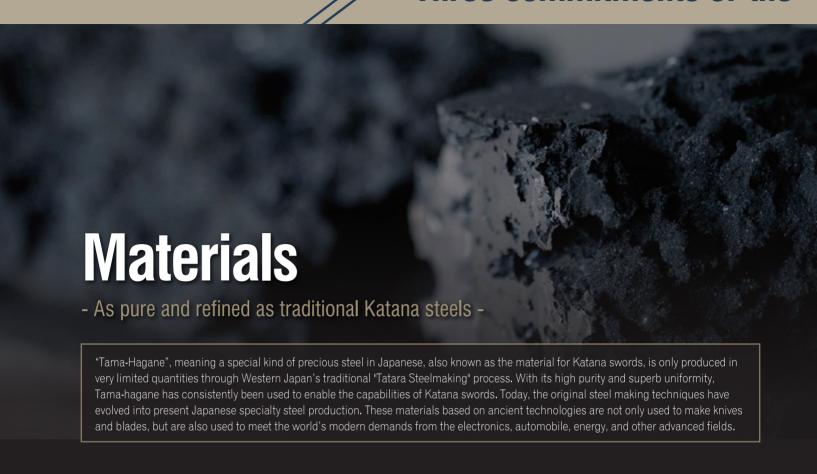
"Katana" swords have been considered one of the most iconic national symbols of Japan for over a millennium.

The traditional sword making process was anything but straightforward, however, requiring dozens of craftsmen to work around the clock to produce a single blade. Applying a similar level of craftmanship and passion for manufacturing, Fuji Shoko developed the "Katana" doctor blade series, permeating it with confidence and tradition, through integrated manufacturing from materials to processing and finishing all within Japan.





### Three commitments of the



# Coatings

- Advanced ceramic technology reinforces quality and durability -

Since their introduction to Japan in the form of pottery more than 2,000 years ago, ceramics have undergone numerous transformations, ultimately evolving into today's advanced-ceramics for industrial needs. In addition to their natural heat-resistance and insulation properties, modern science and technology have developed the functionality of ceramics to an advanced levels. Likewise, we were able to design a ceramic coating with fine-grain, uniform particles to enable a high level of durability that can endure the harsh conditions experienced during printing and coating processes.



## Katana® Doctor Blade Series



# KATANA® Ceramic Doctor Blade

Ceramic Doctor Hi-Blade® is our highest quality ceramic-coated model, offering excellent resistance against wear and abrasion. Our special ceramic coating improves the wiping quality and blade life. Since we introduced the world's first rolled ceramic-coated doctor blade in the 1980s, we have improved the quality to a satisfactory level that has earned us the trust of our customers as a pioneer in ceramic coatings.

#### Blade edge shape

Lamella type

Stable (Bevel) type

Our standard sizes are below.
Please ask us for any sizes that are not listed.

	Lamella type	Stable type
Blade edge width	Min. 0.05"/1.2mm Max. 0.08"/2.0mm	Min. 0.10"/2.6mm Max. 0.16"/2.0mm
Blade edge thickness	Min. 0.002"/50μm Max. 0.004"/100μm	Min. 0.002"/50μm Max. 0.0028"/70μm

	Lamella/Stable
Material Thickness	Min. 0.006"/0.15mm Max. 0.012"/0.30mm
Material Width	Min. 0.4"/10mm Max. 2.4"/60mm



#### K Ceramic Doctor HQ®

Standard Hardness: 850-900Hv

#### **Essential for high-speed, long-run printing**

K Ceramic Doctor  $HQ^{\circledast}$  was developed by reinforcing the durability and wear-resistance of the blade surface to reduce streaking, hazing, and other printing defects. The finely coated ceramic layer results in the blade edge evenly worn into small and uniform particles that can ensure consistent printing results and extended blade life.



#### **Roots Doctor**

Standard Hardness: 850-900Hv

#### High lubricity for smooth sliding and doctoring

Roots Doctor is particularly suitable for water-based and white inks because of its increased sliding performance and smooth doctoring resulting from the effective lubricating additives contained in the coated layer.



#### Soft Doctor

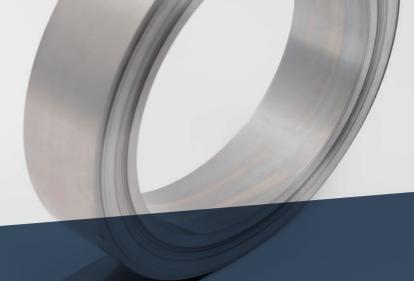
Standard Hardness: 650-700Hv

#### Reduced hardness for lower cylinder contact

Soft Doctor is designed as a lower hardness ceramic-coated model, which allows it to minimize damage to the cylinder while maintaining an improved wear resistance with a thinner coated surface.

## KATANA® Steel Doctor Blade

Steel Doctor Hi-Blade® is manufactured under stringent quality control, from materials to sharpening and final inspection. Our decades of experience and knowledge enable us to consistently offer quality products that always go above and beyond our customers' expectations.



#### Blade edge shape

Lamella type Stable (Bevel) type

Our standard sizes are below. Please ask us for any sizes that are not listed.

	Lamella type	Stable type
Blade edge width	Min. 0.05"/1.2mm Max. 0.08"/2.0mm	Min. 0.10"/2.6mm Max. 0.16"/2.0mm
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	Lamella/Stable
Material Thickness	Min. 0.006"/0.15mm Max. 0.012"/0.30mm
Material Width	Min. 0.4"/10mm Max. 2.4"/60mm

#### Steel Doctor Hi-Blade®

Hardness: 580-600Hv

Our basic model made from high-purity, high carbon steel alloy offers a level of straightness and flatness suitable for doctoring. The blade is finely ground with the greatest care, and manufactured under stringent quality control, from material selection to sharpening and final inspection.



#### Stainless Steel Doctor

Hardness: 590Hv

Made of a stainless-steel alloy with corrosion resistance, Stainless Steel Doctor is suitable for harsh conditions, such as printing with water-based and acid-based inks.



#### Gold Doctor Hi-Blade®

Hardness: 620Hv

Made of a tempered steel alloy, Gold Doctor Hi-Blade® has better wear resistance and fits the cylinder more precisely.



#### Back-Up Doctor Blade

Back-up doctor blades are an important part of the doctoring unit because they support the blade's pressure adjustment. Choosing the right back-up doctor blade with the right level of precision and straightness is essential. We can make any size to order.





# KATANA® Plastic Doctor Blade

Plastic doctor blades are resistant to organic solvents, oils, grease and acids, as well as weak alkaline solutions. Material options are available among PET, HDPE and POM with different levels of hardness and heat resistance.

#### **Hi-PET Series**

Material	Polyester
Thickness	Min. 0.014" / 0.35mm
	Max. 0.04" / 1.0mm
Width	Up to 2.36" / 60mm
Melting point	505°F / 263℃
Heat resistance*	302°F / 150℃

#### Hi-PE Series

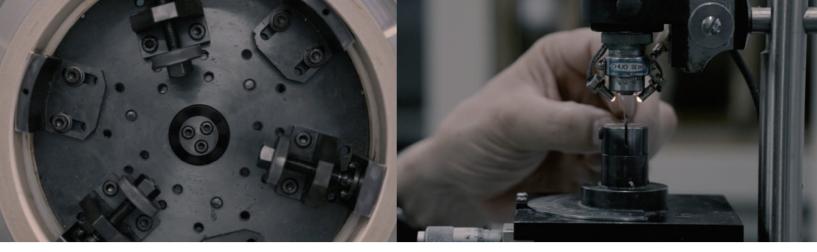
Material	High density polyethylene
Thickness	Min. 0.04" / 1.0mm
	Max. 0.08" / 2.0mm
Width	Up to 2.36" / 60mm
Melting point	270°F / 132℃
Heat resistance*	248°F / 120℃

#### Hi-POM Series

Material	Polyoximethylene (Acetal)
Thickness	Min. 0.003" / 0.8mm
	Max. 0.05" / 1.25mm
Width	Up to 2.36" / 60mm
Melting point	331°F / 166℃
Heat resistance*	284°F / 140°C

<sup>\*</sup>Heat resistance as indicated above is the estimated maximum temperature under which each model can be used stably

# Straight Bevel (Stable) Edge angle: 13° /30° /45° Material hardness HARD Hi-POM Hi-PET Hi-PE



#### About FUJI SHOKO

Fuji Shoko is a leading global manufacturer of high-quality doctor blades produced with the utmost precision and extreme durability. With over 55 years of tradition, we have developed our technology and quality standards to meet the highest expectations of our international customers in package printings and industrial coatings.

#### Locations

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