

Theme: Precision and Power in a Compact Package

Introduction

Introducing the FM-K003B, a remarkable creation from [Shieldon Manufacturing](http://www.shieldon.net) & Trading Combo, designed to embody the perfect balance of precision, power, and portability. As an Out-The-Front (O.T.F.) knife, the FM-K003B represents the pinnacle of engineering excellence, providing users with a tool that is as reliable as it is versatile. Whether for tactical purposes, everyday carry, or specialized applications, this knife stands out with its meticulous design and superior functionality.



Product Overview



The FM-K003B is crafted with both form and function in mind, offering users a high-performance tool that doesn't compromise on style or utility. As part of our commitment to providing top-tier products, this knife incorporates advanced materials and a thoughtful design to meet the diverse needs of its users. Compact yet powerful, the FM-K003B is the ideal choice for those seeking a dependable cutting instrument.

Material Specifications

Blade Material: D2 Tool Steel

The blade of the FM-K003B is made from D2 tool steel, a material celebrated for its exceptional hardness and edge retention. With a Rockwell Hardness (HRC) of 58-60, the blade is engineered to maintain a sharp edge even under demanding conditions. D2 steel is known for its wear resistance and toughness, making it an excellent choice for a wide range of cutting tasks.

Handle Material: Anodized Aluminum

The handle is constructed from anodized aluminum, providing a lightweight yet robust framework that complements the knife's overall design. Anodization enhances the aluminum's resistance to corrosion and wear, while also offering a sleek, modern finish. The ergonomic shape ensures a comfortable and secure grip, allowing for precision and control during use.



Design Features

Blade Design

- **Style:** American Tanto Point

The FM-K003B features an American tanto point blade style, characterized by a strong tip and a sharp, angular transition between the blade's primary edge and tip. This design provides superior piercing power and is highly effective for tactical applications.

- **Thickness and Length:**

With a thickness of 0.098 inches (2.5mm) and a length of 2.01 inches (51mm), the blade offers a

perfect balance of strength and maneuverability. This dimension ensures that the knife is both versatile and reliable for a variety of tasks.

- **Finish:** Satin

The satin finish on the blade enhances its aesthetic appeal while providing additional resistance to glare and corrosion. This finish not only looks sophisticated but also ensures the blade remains low-maintenance.

Handle Design

- **Thickness:** 0.63 inches (16mm)

The handle's thickness is optimized for comfortable handling, providing a firm grip that enhances control and reduces strain during extended use.

- **Color:** Black

The classic black finish offers a timeless and professional look, suitable for both tactical scenarios and everyday carry. The availability of different blade style options allows for further customization to meet user preferences.



Functional Features

- **Pocket Clip:** Tip-Down

The tip-down pocket clip ensures that the knife can be carried securely and accessed quickly.

Designed for practicality, this feature allows users to carry the knife discreetly while keeping it readily available.

- **Open Way:** Thumb Slide

The thumb slide mechanism provides smooth and effortless blade deployment, making it an ideal choice for situations where speed and efficiency are paramount.

Practical Applications

The FM-K003B is a versatile tool suitable for a wide array of applications:

- **Tactical Use:** With its robust tanto blade and swift deployment mechanism, the FM-K003B is perfect for law enforcement, military personnel, and security professionals who require reliable performance in critical situations.
- **Everyday Carry (EDC):** The compact and lightweight design makes it an excellent choice for daily tasks, such as opening packages, cutting ropes, or performing minor repairs around the home or workplace.
- **Outdoor Activities:** Whether for camping, hiking, or fishing, this knife serves as a dependable companion for outdoor enthusiasts, delivering precision and durability when it matters most.

Procurement Details

Shieldon Manufacturing & Trading Combo offers the FM-K003B with a regular minimum order quantity (MOQ) of 300 units. This procurement option allows businesses to efficiently integrate this high-quality knife into their product lines, ensuring they meet customer demands effectively.

Customization and Personalization

While the FM-K003B comes standard with an anodized black handle and tanto blade, we offer various blade style options for further customization. This flexibility enables businesses to tailor the knives to their brand or market preferences, enhancing the product's appeal and customer satisfaction.

Conclusion

The FM-K003B from Shieldon Manufacturing & Trading Combo is more than just a knife—it's a symbol of precision, power, and portability. With its high-quality materials, robust design, and versatile functionality, this knife is an exceptional choice for anyone in need of a reliable cutting tool. Its adaptability makes it suitable for a range of contexts, from tactical operations to everyday use and outdoor adventures.





For procurement inquiries or further customization details, our team at Sheldon is ready to assist you in bringing this outstanding knife to your customers. Enhance your product offerings with the FM-K003B, a knife that distinguishes itself in both performance and design.

Understanding Materials Used in O.T.F. Knife Production

Out-The-Front (O.T.F.) knives are a remarkable blend of engineering and craftsmanship, known for their unique mechanism that allows the blade to extend and retract through a slot in the handle. The choice of materials used in the production of O.T.F. knives plays a critical role in their performance, durability, and

functionality. To gain a comprehensive understanding of O.T.F. knives, it's essential to explore the materials that are typically used in their construction.



Blade Materials

The blade is arguably the most crucial component of any knife, and for O.T.F. knives, selecting the right material is vital for ensuring strength, sharpness, and longevity.

1. **D2 Tool Steel:**

- **Advantages:** Known for its excellent hardness and edge retention, D2 tool steel is a popular choice for O.T.F. knife blades. It offers superior wear resistance, making it ideal for heavy-duty use.
- **Applications:** Suitable for tactical and survival knives where durability is a priority.

2. Stainless Steel (e.g., 440C, AUS-8):

- **Advantages:** Stainless steel is known for its corrosion resistance, making it suitable for use in various environments. It provides a good balance between hardness and toughness.
- **Applications:** Perfect for everyday carry (EDC) knives that require a low-maintenance material.

3. High Carbon Steel:

- **Advantages:** Provides excellent sharpness and is relatively easy to sharpen. High carbon steel can achieve a very fine edge.
- **Applications:** Ideal for knives that need a razor-sharp edge, but it requires regular maintenance to prevent rust.

Handle Materials

The handle material of an O.T.F. knife affects the user's comfort, the knife's weight, and its durability. It's important to choose materials that provide a good grip while being resilient.

1. Anodized Aluminum:

- **Advantages:** Lightweight, durable, and resistant to corrosion, anodized aluminum is a common choice for O.T.F. knife handles. The anodization process also allows for various colors and finishes.
- **Applications:** Widely used in both tactical and EDC knives for its balance of strength and weight.

2. G-10:

- **Advantages:** A fiberglass laminate known for its high strength, low moisture absorption, and excellent grip, even in wet conditions.
- **Applications:** Suitable for tactical knives, offering a robust grip in demanding situations.

3. Carbon Fiber:

- **Advantages:** Extremely lightweight and strong, carbon fiber adds a modern and sophisticated look to knife handles. It is also resistant to temperature changes.
- **Applications:** Often used in high-end O.T.F. knives where weight and aesthetics are crucial.

4. Titanium:

- **Advantages:** Lightweight, corrosion-resistant, and incredibly strong, titanium offers a premium feel and excellent durability.
- **Applications:** Used in luxury and high-performance knives, where both strength and a sleek appearance are valued.



Internal Mechanism Materials

The internal mechanisms of an O.T.F. knife, including springs and internal frames, require materials that offer both durability and smooth operation.

1. **Stainless Steel Springs:**

- **Advantages:** Provide reliable tension and strength for blade deployment and retraction, while resisting rust and corrosion.
- **Applications:** Essential for the longevity and reliability of the knife's opening mechanism.

2. **Brass or Bronze Washers:**

- **Advantages:** These materials are used as washers to reduce friction during blade deployment. They are known for their smooth operation and resistance to wear.
- **Applications:** Enhance the knife's smoothness and longevity by reducing wear on moving parts.



Conclusion

In the production of [O.T.F. knives](#), the choice of materials is crucial to delivering a product that meets the demands of durability, performance, and user satisfaction. From the blade to the handle and internal mechanisms, each component must be crafted from materials that complement each other and enhance the knife's overall functionality. By understanding the properties of these materials, manufacturers can produce O.T.F. knives that are reliable and efficient tools, whether for tactical use, everyday carry, or outdoor adventures.