

## The Sheldon FR-0504: Precision Engineering for the Modern Adventurer

Introducing the Sheldon FR-0504 [OEM Folding Knife](#), a testament to Sheldon's commitment to manufacturing excellence and trade prowess. This knife is not just a tool; it's a companion for those who demand reliability, versatility, and precision in one compact package.



**Product Specifications:**

The Sheldon FR-0504 is a meticulously crafted folding knife designed to cater to a wide array of applications, from everyday carry (EDC) to tactical use. Below is a comprehensive breakdown of its specifications:

- **Item Number:** FR-0504
- **Category:** Folding Knife
- **Blade Material:** Crafted from 3Cr13 stainless steel, renowned for its balance of hardness and corrosion resistance, the FR-0504's blade boasts an HRC (Rockwell Hardness Scale) of 50-52, ensuring a durable edge that remains sharp through repeated use.
- **Handle Material:** The 2Cr13 stainless steel handle provides a sturdy and ergonomic grip, enveloped in a 3D-printed cladding for enhanced durability and an avant-garde aesthetic.
- **Blade Thickness:** At 0.11 inches (2.8mm), the blade's thickness is engineered for both sturdy performance and sleek agility.
- **Blade Length:** The 3.19-inch (81mm) drop point blade offers ample cutting real estate, ideal for a multitude of cutting tasks.
- **Handle Thickness:** With a substantial handle thickness of 0.583 inches (14.8mm), the FR-0504 ensures a firm and comfortable grip.
- **Total Length:** When deployed, the knife measures 7.64 inches (194mm), providing a formidable length for various cutting demands.
- **Weight:** Weighing in at 3.74 oz (106g), the FR-0504 strikes an optimal balance between heft and portability.
- **Handle Color:** The camouflage pattern on the handle not only adds to the knife's visual appeal but also enhances its tactical utility.
- **Pocket Clip:** A tip-down pocket clip allows for secure and discreet carry, keeping the knife readily accessible at all times.
- **Lock Mechanism:** The liner lock mechanism provides a reliable lock-up for the blade, ensuring safety during use.
- **Open Way:** A combination of a flipper and thumb stud facilitates quick and effortless one-handed opening.
- **Blade Finish:** The blackened finish on the blade is not only aesthetically striking but also provides additional corrosion resistance.
- **Blade Grind:** The flat grind on the blade ensures a sharp and enduring edge, perfect for precision cuts.
- **ODM Regular MOQ:** A minimum order quantity of 1200 units for Original Design Manufacturer (ODM) services, enabling businesses to procure high-quality knives at competitive volumes.
- **Remark:** The option to incorporate a slip-joint mechanism at the pivot for alternative locking solutions is available, enhancing the customization options for the end user.

**Design and Functionality:**

The FR-0504 is an emblem of Sheldon's dedication to merging state-of-the-art technology with practical design. The integration of 3D printing technology in the handle cladding sets this knife apart, offering a unique texture that is both visually stunning and functionally superior.

This knife is not only about its exterior allure; its blackened blade is equipped with an inlaid wire cutter, expanding its utility beyond simple cutting tasks. Whether you need to strip wire in a pinch or need a dependable blade while out in the field, the FR-0504 is up to the task.

Its drop point blade style is a versatile choice favored by many for its strong point and large slicing area. Whether it's for preparing food, opening packages, or tactical requirements, the shape ensures the knife can handle it all with ease.

**Safety and Security:**

Safety is paramount when it comes to folding knives, and the Sheldon FR-0504 is engineered with this in mind. The liner lock mechanism is robust, holding the blade firmly in place during use, and the dual opening methods via flipper or thumb stud allow for safe and personalized deployment.



**Adaptability and Customization:**

In the spirit of versatility, Shieldon offers the option to customize the pivot with a slip-joint mechanism. This feature provides an alternative locking method, giving users the freedom to choose a knife that best fits their local laws and personal preferences.

**Purchasing with Confidence:**

As a trusted Manufacturing & Trading Combo, Shieldon not only ensures the highest quality in their products but also provides a smooth and secure purchasing process. The ODM services accommodate specific design and functionality requests, allowing businesses to tailor the FR-0504 to their brand's identity.



With a regular MOQ of 1200, Shieldon ensures that businesses of all sizes can access this premium folding knife, maintaining a balance between exclusivity and market reach.

**Conclusion:**

The Shieldon FR-0504 OEM Folding Knife is a masterpiece of design and utility. Crafted with meticulous attention to detail and quality materials, it stands as a paragon of what modern folding knives should offer: reliability, safety, and a touch of personalization.

Whether you're a retailer looking to diversify your product line or a business seeking a reliable knife to represent your brand, the FR-0504 is an impeccable choice that reflects Sheldon's dedication to excellence in every aspect of their Manufacturing & Trading Combo business. With the FR-0504, every cut is a testament to the enduring legacy of Sheldon's quality and innovation.

## **Unlocking the Basics: Open Ways and Lock Mechanisms of Folding Knives**

Folding knives are marvels of design and functionality, embodying the confluence of portability and convenience. Essential tools for everyday carry, outdoor adventures, and various professional tasks, they are engineered with a variety of opening and locking mechanisms to suit diverse preferences and requirements. Understanding these mechanisms is key to selecting the right knife for your needs.



## Open Ways of Folding Knives

The method by which a folding knife opens is referred to as its open way or deployment mechanism. There are several common open ways, each with its benefits and specific use case scenarios:

1. **Manual Opening:** This traditional method requires the user to open the blade using a nail nick or thumb groove. It's simple and reliable, but can be slower and requires two hands to operate.
2. **Thumb Stud:** A small stud on the blade provides leverage for the thumb to open the knife with one hand. This is one of the most common open ways and is both quick and convenient.

3. **Flipper:** A flipper is a small protrusion on the back of the blade that, when pressed, flips the blade open. This mechanism is usually assisted by a ball bearing or a torsion bar, allowing for smooth and rapid one-handed opening.
4. **Thumb Hole:** Similar in function to the thumb stud, a hole in the blade allows the user to open the knife with one thumb. It's a popular choice for its ease of use and ambidextrous design.
5. **Automatic or Switchblade:** With the press of a button or switch, the blade springs open. This type of knife is restricted in many areas, so it's essential to understand the local laws before purchasing or carrying an automatic knife.
6. **Assisted Opening:** Assisted openers are a hybrid between manual and automatic. They require the user to begin opening the knife manually, but once partially opened, a spring or mechanism completes the action.

## Lock Mechanisms of Folding Knives

Once a [folding knife](#) is open, the locking mechanism ensures the blade stays in place during use, preventing accidental closure and potential injury. Various lock types offer different levels of security and ease of use:

1. **Liner Lock:** This common lock type features a thin, springy liner inside the handle that moves into place behind the blade when it's opened. To close the knife, the user must manually move the liner to the side.
2. **Frame Lock:** Similar to the liner lock, the frame lock uses the handle's frame as the lock itself. It's typically more robust than a liner lock due to the thicker piece of metal that engages the blade.
3. **Lockback:** A lockback has a spine on a spring that clicks into a notch on the blade when opened. To close the knife, the spine is pressed down to release the blade.
4. **Axis Lock:** A small, hardened steel bar moves back and forth in a slot in the handle and locks into place when the knife is opened. It's ambidextrous and considered very safe.



5. **Compression Lock:** Patented by Spyderco, this mechanism uses a small lock piece that wedges between the blade's tang and a stop pin. It's known for its strength and quick operation.
6. **Ball Bearing Lock:** Another Spyderco innovation, this lock uses a ball bearing to lock the blade in place. It provides smooth operation and is also ambidextrous.
7. **Slip Joint:** Often found in traditional pocket knives, the slip joint doesn't lock but holds the blade open by spring tension. It requires caution during use, as the blade can fold if enough pressure is applied.



Understanding the different open ways and lock mechanisms is crucial when choosing a folding knife. Whether opting for a simple manual knife or seeking the rapid deployment of an

assisted opener, the right choice hinges on personal preference, intended use, and legal restrictions.

Similarly, the lock mechanism must be chosen with care, balancing ease of use with safety requirements. From the sturdy frame lock to the convenient axis lock, each mechanism offers unique advantages.



When selecting your next folding knife, consider how you'll carry and use it to make the most informed decision. With the right combination of opening and locking mechanisms, your folding knife will be a trusty and efficient tool for years to come.