

## 1. General Description and Technical Specifications

Model Series: Peltonen Knives, M07 Ranger Puukko knife

The M07 Ranger Puukko is a versatile knife designed for outdoor activities, bushcraft, survival situations, and general utility use.

### Technical Specifications

Knife:

- Overall Length: 243 mm
- Blade Length: 119 mm
- Blade Thickness: 4.25 mm
- Blade Material: 80CrV2 Carbon Steel
- Hardness: HRC 59
- Blade Coating: Teflon, Cerakote, or uncoated
- Handle Material: TPE Composite

Sheaths:

- Materials: Leather, Plastic (composite), and Kydex
  - Sheath Attachment Loop: Polyester
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## 2. Key Safety Features

Knife Safety Features:

- Robust construction enhances durability and reduces the risk of injuries caused by structural failure.
- Ergonomic handle with a finger guard and non-slip material minimizes the risk of slipping during use.

Sheath Safety Features:

- Functional design prevents accidental detachment of the knife and ensures safe handling.
  - Leather and plastic sheaths feature an EasyLock locking mechanism and thumb support, which increase safety by securing the knife in place while allowing quick and safe removal.
  - The internal hard plastic insert in the leather sheath prevents the blade from puncturing the sheath material.
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### 3. Risk Analysis

A knife must have a sharp blade to perform its intended purpose. While the product is designed to be as safe as possible, a sharp blade and sheath usage may still pose certain safety risks.

#### 3.1 General Risks

##### Cut Injuries:

The sharp blade may cause cuts if handled carelessly.

Prevention: The user manual includes correct cutting techniques and clear warnings.

##### Slippery Handle:

In wet or cold conditions, the handle may become slippery, increasing the risk of losing grip.

Prevention: Ergonomic design and high-friction handle materials minimize this risk.

##### Blade Breakage Risk:

The blade may break during heavy use, such as when used as a lever or struck against hard materials like metal, stone, or knots in wood.

Prevention: Durable blade material and design, along with instructions in the user manual emphasizing correct usage.

##### Storage and Transport Risks:

Storing or transporting the knife without a sheath may lead to accidents, such as falls or stumbles.

Prevention: The user manual emphasizes the importance of always using a sheath during storage and transportation.

#### 3.2 Risks from Coating Materials

##### A. Teflon Coating:

###### Risks:

- Fine particles may detach from the coating as it wears down and contaminate food.
- At temperatures exceeding 260°C, Teflon may release harmful gases that can irritate the respiratory system.

###### Prevention:

- Avoid using Teflon-coated knives for food preparation.
- Proper usage and maintenance instructions are included in the user manual.

#### B. Cerakote Coating:

##### Risks:

- Microscopic particles may detach as the coating wears and contaminate food.
- Long-term exposure effects are not fully studied.

##### Prevention:

- Avoid using Cerakote-coated knives for food preparation.
  - Regular inspections for coating wear are recommended, as emphasized in the user manual.
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## 4. Document Maintenance and Updates

This document covers all versions of the M07 Ranger Puukko and will be updated whenever significant changes are made to the product. The manufacturer will retain this document for at least 10 years after the product's market release and will provide it to authorities upon request.

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