

# RavenBelt duty belt

The RavenBelt is an EU-patented (EP 4149315) solution developed by an active Austrian police officer that optimizes comfort, safety, and cost-effectiveness.

## Key advantages:

- **Practicality:** The belt was developed by an active colleague who understands the daily stresses of police work. Production (AT/EU) ensures quality and supply chain security.
- **Tactical safety:** The Secure&Stop system (patented stoppers) guarantees that the equipment will not slip at all. The Click&Lock buckle is secured and has an automatic emergency lock.
- **Ergonomics & endurance:** The highly elastic elastomer offers superior comfort when sitting in the vehicle, reduces pressure points and thus minimizes wear-related discomfort and potential days off work.
- **Efficiency:** Click&Adjust allows length adjustment in seconds. The “one size” concept ( 1500 mm) simplifies the entire warehouse logistics.
- **Cost-effectiveness:** The heavy-duty elastomer is significantly more durable than conventional fabric, which significantly reduces replacement costs and administrative expenses.

## I. Company background and professionalization

### 1. Development and Motivation

**Founded:** March 2019 in Austria as RavenBelt e.U. by an active police officer.

**Motivation:** Development of a superior tactical duty belt based on the founder's practical experience with the shortcomings and dissatisfaction of law enforcement officers.

**Conclusion:** RavenBelt offers a practical, superior solution “by colleagues for colleagues.”

### 2. Current status and restructuring

The company is in the process of transitioning from small-scale production to the **professionally managed RavenBelt GmbH**.

- **Professionalization:** The transformation serves to capitalize and scale the processes for series production.
- **Team expansion:** The founder is being joined by experienced experts: a manufacturing expert (series production), a lawyer (international structure/finance), and an experienced entrepreneur (market expansion).

- **Financing:** The GmbH has more than enough capital to make the necessary investments and scale production for the future.

## II. Product & Technology: Performance Parameters and Patent

### 1. Summary: Benefits and Objectives

The RavenBelt was developed to systematically address the chronic shortcomings of conventional duty belts (lack of comfort and unreliable positioning).

- **Guaranteed safety:** Secure positioning of equipment (e.g., weapon, magazine) in any situation (Secure&Stop).
- **Maximum flexibility:** Length can be adjusted in seconds to suit different clothing or operational situations (Click&Adjust).
- **Cost-effectiveness:** Superior durability and lower replacement costs.

### 2. Technical data and production status

- **Dimensions:** Height: 50 mm / Width: 6 mm.
- **Length:** 1500 mm (standard length) – easy to cut to size (one size).
- **Weight:** approx. 450 g.
- **Material:** Highly elastic/resilient multi-component elastomer plastic.
- **Start of use:** In use since 2020 and continuously improved (currently small series).
- **Patent protection:** EU patent (No. EP 4149315).

### 3. Manufacturing details (European origin)

- **Stopper (cast):** Austria.
- **Belt (elastomer):** Slovenia.
- **Buckle (aluminum):** Germany.
- **Conclusion:** Austrian patent and development with short delivery times.

## III. Patented system advantages (performance features)

### Aspect 1: Ergonomics and personnel deployability (comfort)

- **High elasticity and comfort:** The material ensures greater wearing comfort than rigid fiber systems.
- **Click&Adjust (in seconds):** The belt length can be adjusted around the hips in a fraction of a second.
  - o Benefit: No need for time-consuming length

adjustments when changing between, for example, a winter jacket (field service) and indoor service.

## **Aspect 2: Tactical safety and reliability**

- **Secure&Stop (no slipping):** Stoppers prevent all equipment from slipping.  
Benefit: The weapon always remains in the trained grip position, guaranteeing safe removal.
- **Click&Lock (locking under load):** The buckle is difficult to open under load.  
Double safety: If the buckle opens, the flap immediately jumps to the next opening – no additional safety device necessary.
- **SinglePointVelcroSystem:** The 2-piece Velcro connection prevents the duty belt from slipping vertically (no snap-button belt holders required).

## **Aspect 3: Cost-effectiveness and logistics**

- **Durability:** The elastomer material is exceptionally resilient and reduces the need for replacements.
- **Sustainability:** Cut-off belt remnants can be remelted (organic production possible).
- **Logistics:** The one-size concept drastically simplifies warehousing.

## **IV. Conclusion and recommended action**

The RavenBelt offers a superior solution developed in Austria and patented throughout the EU that solves the central problems of ergonomics and equipment safety with proven, field-tested mechanisms.