<table>
<thead>
<tr>
<th>Device</th>
<th>GRI GRI 2</th>
<th>MATIK</th>
<th>CLIK UP</th>
<th>ERGO</th>
<th>MEGA J U</th>
<th>J UL²</th>
<th>SMART</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Petzl</td>
<td>Camp</td>
<td>Climbing Technology</td>
<td>Salewa</td>
<td>Edelrid</td>
<td>Edelrid</td>
<td>Mammut</td>
</tr>
<tr>
<td>Weight</td>
<td>170 g</td>
<td>276 g</td>
<td>115 g</td>
<td>70g</td>
<td>65g</td>
<td>100g</td>
<td>62 g</td>
</tr>
<tr>
<td>MSRP price</td>
<td>€ 69.95</td>
<td>€ 99.95</td>
<td>€ 64.95 (including carabiner)</td>
<td>€ 65 - (including carabiner)</td>
<td>€ 34.95</td>
<td>€ 30. -</td>
<td>€ 20. -</td>
</tr>
</tbody>
</table>

### Requirements

**Rope diameter:**
- **8.9 – 11 mm:** optimum 9.4 – 10.3 mm
- **8.6 – 10.2 mm:** optimum 8.6 – 9.6 mm
- **8.6 – 10.5 mm:**
- **8.9 – 10.5 mm:** (single rope)
- **8.9 – 11 mm:**
- **8.7 – 10.5 mm**

**Weight:**
- **170 g**
- **276 g**
- **115 g**
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- **65g**
- **100g**
- **62 g**

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### Static force

<table>
<thead>
<tr>
<th>Movement pattern when giving out rope</th>
<th>Average</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8.9 mm:</strong> 2.8 kN</td>
<td>8.9 mm: 2.2 kN</td>
<td>8.9 mm: 1.4 kN</td>
<td>8.9 mm: 1.9 kN</td>
</tr>
<tr>
<td><strong>8.9 mm:</strong> 2.0 kN</td>
<td>8.9 mm: 1.4 kN</td>
<td>8.9 mm: 1.9 kN</td>
<td>8.9 mm: 2.0 kN</td>
</tr>
<tr>
<td><strong>8.9 mm:</strong> 2.2 kN</td>
<td>8.9 mm: 1.6 kN</td>
<td>8.9 mm: 2.0 kN</td>
<td>8.9 mm: 2.2 kN</td>
</tr>
</tbody>
</table>

### Characteristics: Handling

#### Lowering

**Feature:**
- **Average:** Initially well controllable by a lever
- **Good:** Panic function positive (only operate with two fingers!)
- **Good:** Initially, a relatively high resistance has to be overcome (negative, as it then switches to “full throttle”)

**Fall when giving out rope and correct handling:**
- **Little problematic:** with tube handling
- **If the brake hand is positioned above the device:**
- **Attention:** reaction of the belayer required: close hand and down!

**Safety buffer when violating the brake hand principle:**
- **Large:** Only with extremely soft falls a failure of the assisted braking function is possible.
- **Average:** With soft falls (without a jerk) failure of the assisted braking function does not function reliably. Hard falls are no problem.
- **Unknown:** as the device is not yet common

**Handling errors:**
- **Incorrectly inserted rope is very critical:**
- **Incorrectly attached device is unproblematic:**

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- **Unknown:** as the device is not yet common

#### Handling errors - inserting rope incorrectly

- **Incorrectly inserted rope is very critical:**
- **Incorrectly attached device is unproblematic:**

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### Manufacturer: Specification

- **In particular when releasing the blocking function**
- **Violation of the “brake hand principle”**
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