

DUTCH DESIGN
HIGH QUALITY



ZIP-brake®

Zip Line Brake Devices | Automatic



Powering your adventure experiences!



ZIP-BRAKE THE MOST
COMFORTABLE
ZIP LINE BRAKING EXPERIENCE





About HONOR AdventureTech



HONOR AdventureTech is an internationally oriented Dutch company with over 70 years of in-house safety engineering experience in developing and manufacturing premium safety solutions in partnership with its clients.

Based near Amsterdam, we specialize in advanced safety equipment for the adventure and leisure industry, including our ZIP-brake® zipline braking systems and STAR-belay® models auto belay. Designed for operators who value reliability, riders comfort and operational efficiency, our solutions deliver smooth rider experiences while supporting high throughput and minimizing operational risk.

Our engineering roots go back to 1948, when we started designing optimum safety devices to solve real-world challenges for professional users. Today, we combine this proven safety heritage with modern industrial design and collaboration with adventure park operators, engineers and distributors worldwide.

The result: innovative, low-maintenance and premium devices built for demanding outdoor environments.

All HONOR products are developed and manufactured in-house in the Netherlands using virgin materials and sustainable production methods. HONOR production is certified by Notified Body DEKRA Testing and Certification GmbH according to Module C2 (4) of PPE (EU) Regulation (EU) 2016/425 and our quality management system according to ISO 9001:2015, ensuring consistent quality and full traceability.

Engineered for safety.
Built for performance.
Trusted worldwide.

Enjoy your Safety high-up!

ZIP-brake®

A safer and more enjoyable ride

The ZIP-brake is designed to automatically slow down riders, offering a smooth and comfortable zip line braking experience. This innovative self-regulating system ensures consistent braking for zip line riders, resetting automatically after every ride. It effectively reduces speed, even at high velocities, ensuring a safer and more enjoyable ride. The result? An enhanced and comfortable experience for your zip line or canopy tour customers.

Why choose an automatic braking system

Every zipline operator wants riders to feel excited, safe and eager to go again. A smooth landing is a major part of that experience. Systems that rely on the rider or guide to brake correctly can introduce stress, inconsistency and additional risk. With an automatic braking system, every arrival is controlled, consistent and hands-free — no technique to learn, no last-moment glove-braking and no guesswork. The result is a calm rider, confident staff and a reliable operation. ZIP-brake is designed for operators who want premium comfort, safer operation and higher throughput, whether in a family park, adventure course or professional zipline environment.

How ZIP-brake works

ZIP-brake uses a fully mechanical, self-adjusting braking module combined with a high-strength kernmantle rope system. As the rider approaches the landing, the brake automatically adapts to weight and speed, slowing the rider smoothly and predictably — even at higher speeds and with widely varying rider profiles.

There are no electronics, no rider input required and no active braking from guides. The system resets itself automatically after each ride, ready for the next guest within seconds.

What makes ZIP-brake unique

ZIP-brake stands apart by combining refined mechanical engineering and adventure-grade design to deliver a braking experience both riders and operators appreciate. Whether it's children, adults or heavier riders,

ZIP-brake ensures each arrival is smooth, consistent and comfortable — no jarring stops, no rebound and no rider action needed.

Pure mechanical reliability,
designed specifically for
outdoor adventure.

Its fully mechanical, self-regulating system resets automatically and is built to perform reliably in outdoor environments year after year. Manufactured in the Netherlands with premium materials and engineered for intensive operations, ZIP-brake offers a level of safety, durability and ride comfort that sets a new benchmark in the zipline industry.

Built for reliability

- Kernmantle rope quality life line.
- Intensity of Use Counter.
- Marine-grade materials for long outdoor life.
- Certified production according to Module C2 (4) of PPE (EU) Regulation (EU) 2016/425.
- ISO 9001 certified quality management system.
- Designed for high-duty adventure operations.
- Extended service life & sustainable.
- Developed and manufactured in the Netherlands.

Durability, safety and rider comfort are engineered into every unit.

Key specifications at a glance

- Maximum braking distance ZB16: 16 m (52.5 ft)
- Maximum braking distance ZB20: 20 m (65.6 ft)
- Rider weight range (both models):
15–150 kg (33–331 lbs)
- Maximum arrival speed (ZB16):
 - 45 km/h (27.9 mph) at 1:1 ratio
 - 60 km/h (37.2 mph) at 2:1 ratio
- Maximum arrival speed (ZB20):
 - 60 km/h (37.2 mph) at 1:1 ratio
 - 72 km/h (44.6 mph) at 2:1 ratio

A better experience for riders

Visitors remember how a ride ends. With ZIP-brake, the landing feels natural, comfortable and secure — no surprise deceleration, no anxiety about braking themselves and no hesitation at the start platform. Riders can focus entirely on excitement and scenery, knowing their arrival is fully managed. Satisfied riders are more likely to ride again, stay longer and recommend your attraction to others — making the end of the ride a powerful part of your park's reputation.

A better experience for staff & operations

A consistent braking system takes pressure off your team. Staff no longer need to coach braking techniques or intervene at the landing platform, which improves overall safety and frees hands for guest interaction and throughput.

We've put over 70-years safety engineering experience in our ZIP-brake devices!



Certified production to Module C2 (4) of PPE (EU) Regulation (EU) 2016/425 and quality management according ISO 9001 but above all our quality awareness means that all HONOR parts and every final product are randomly checked and tested.

ZIP-BRAKE OVERVIEW

- + RESEARCH, DEVELOPMENT AND **MADE IN HOLLAND**
- + FOR **RECREATIONAL AND PROFESSIONAL ZIPPING**
- + FOR **ADULTS AND CHILDREN**
- + **SIMPLE TO INSTALL AND EASY TO RELOCATE**
- + HIGH QUALITY **KERNMANTLE ROPE**
- + UNIQUE INTENSITY OF USE **COUNTER**
- + **AUTOMATIC BRAKE — SMOOTH RIDE**
- + UP TO **20 METER (65.6 FT)** BRAKE DISTANCE
- + **CUSTOMER FRIENDLY**

Protecting the entire zipline system

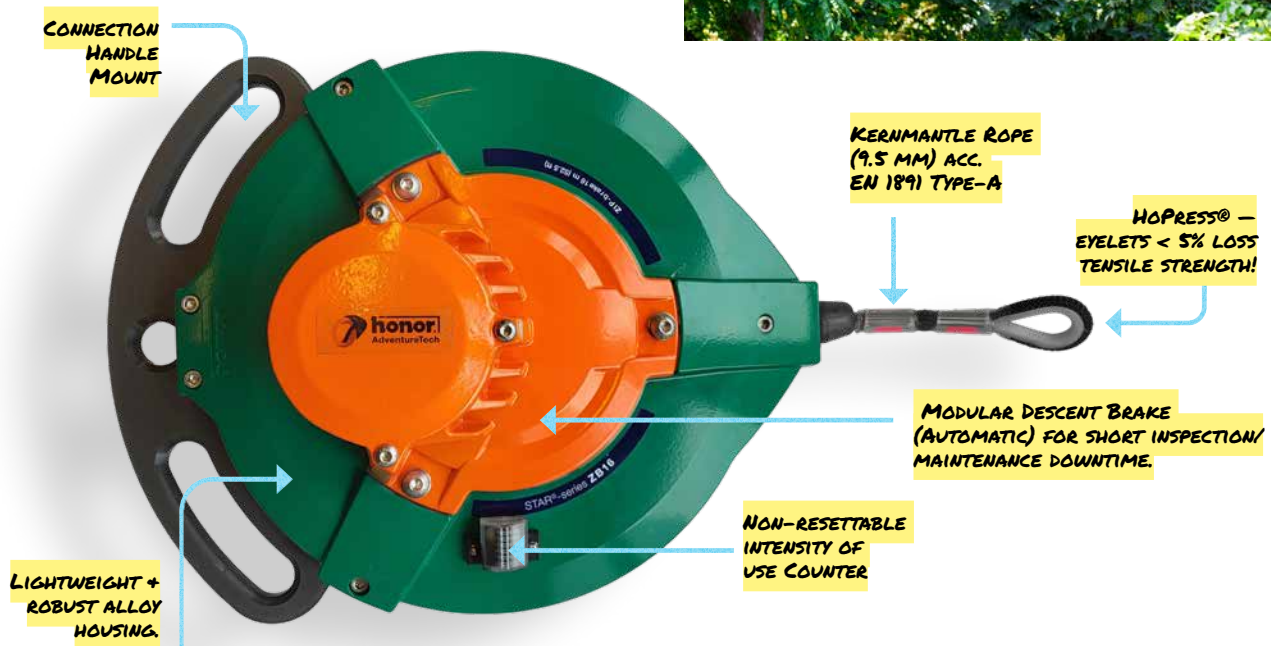
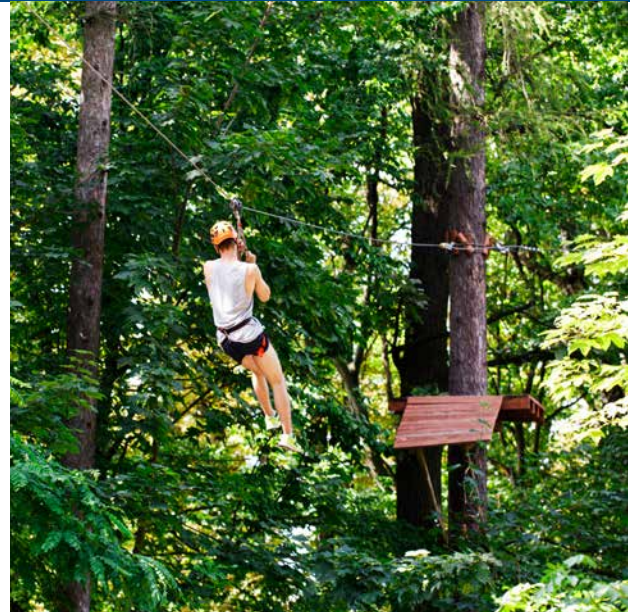
A controlled and progressive deceleration doesn't only enhance the rider experience — it also protects the zipline infrastructure. ZIP-brake reduces impact loads on the cable, anchor points and landing structure by spreading deceleration forces smoothly over distance rather than delivering a sudden stop.

This gentle braking action decreases wear on trolleys and cables, lowers stress on hardware and reduces the chance of shock loads that can accelerate component fatigue. Over time, this contributes to longer equipment life, fewer component replacements and more predictable maintenance planning. A smoother stop means a longer-lasting zipline.

- Lower stress on cables & anchors.
- Reduced hardware wear and tear.
- Helps maintain cable lifespan.
- Predictable maintenance cycles.
- Gentle load distribution — no shock forces.

ZIP-brake® type **ZB16**

ZIP-brake devices model ZB16 with **kernmantle rope** offers a maximum braking distance of **16 meters** for riders weighing 15 – 150 kg (33 – 331 lbs).



Specifications ZB16:

- Dimensions (HxWxD):
410x310x250 mm (15.7x12.2x9.1 inches);
- Net weight: 17.2 kg (37.9 lbs)
- Maximum braking distance
- (at 1:1 ratio): 16 m (52.5 ft);
- Maximum rope extension 16 m (52.5 ft);
- Maximum Arrival Speed
- (1:1 redirection ratio): 45 km/h (27.9 mph)
- (2:1 redirection ratio): 60 km/h (37.2 mph);
- Capacity: max. one person
- Minimum weight person: 15 kg (33 lbs)
- Maximum weight person: 150 kg (331 lbs);
- Lifeline:
 - Kernmantle rope: 9.5 mm – EN 1891 Type-A;
 - Static strength with HoPress® eyelet >22 kN;
 - Self retracting;

Operating Temperature:

- Dry: Min -10° – max +55°C (Min 14° – Max 131°F)
- Wet: Min -4° – max +55°C (Min 24,8° – Max 131°F);
- Storage temperature -10° – +55°C (14° – 131°F);
- Integrated intensity of use counter, non-resettable;
- Applied materials:
 - Housing & modules: lightweight, Marine-Grade alloys – powder coated;
 - Internal components: SS, Marine-Grade alloys;
- Handle Mount (2x handle & 1x connecting eye);
- Low testing and inspection costs;

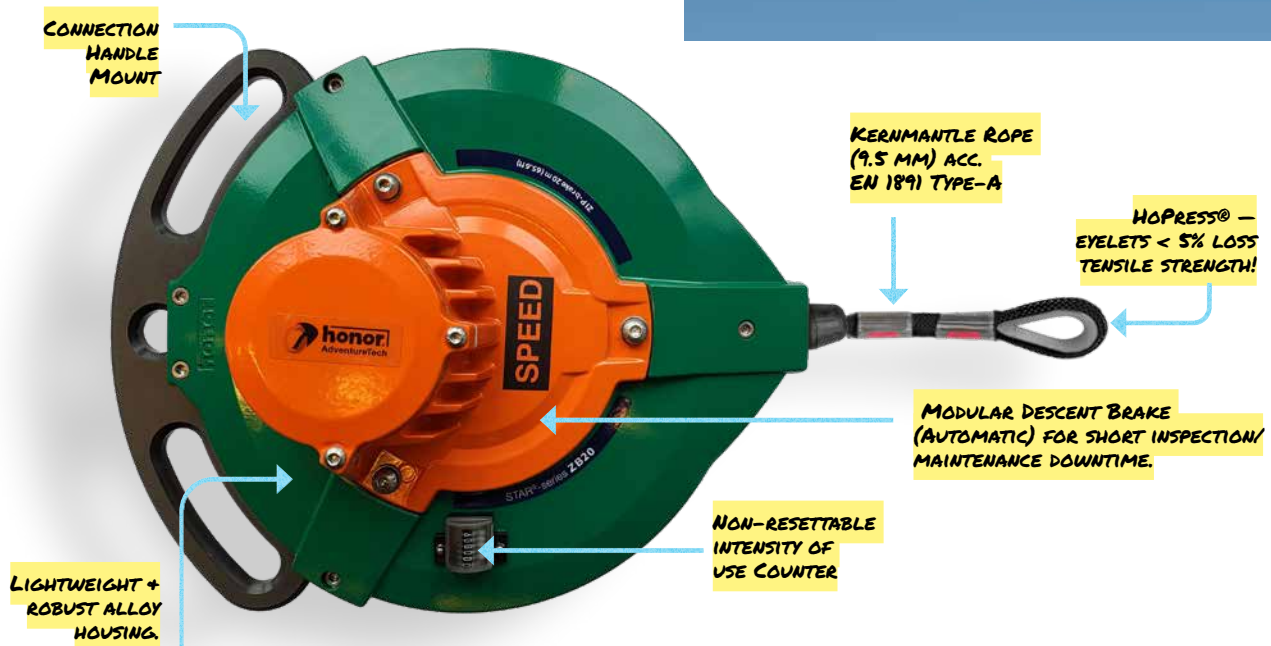
Patents and standards:

European patent number: 002503698-001
USA patent number: 23-0825-0576900

Art.no: R020.022.100 – ZB16 (Handle Mount)

ZIP-brake® type ZB20

ZIP-brake devices model ZB20 with **kernmantle rope** offers a maximum braking distance of **20 meters** for riders weighing 15 – 150 kg (33 – 331 lbs). This device provides reliable and consistent braking even at **high speeds**.



Specifications ZB20:

- Dimensions (HxWxD):
410x310x250 mm (15.7x12.2x9.1 inches);
- Net weight: 21.6 kg (47.6 lbs);
- Maximum braking distance
- (at 1:1 ratio): 20m (65.6ft);
- Maximum rope extension 16 m (52.5 ft);
- Maximum Arrival Speed
- (1:1 redirection ratio): 60 km/h (37.2 mph)
- (2:1 redirection ratio): 72 km/h (44.6 mph);
- Capacity: max. one person
- Minimum weight person: 15 kg (33 lbs)
- Maximum weight person: 150 kg (331 lbs);
- Lifeline:
 - Kernmantle rope: 9.5 mm – EN 1891 Type-A;
 - Static strength with HoPress® eyelet >22 kN;
 - Self retracting;

Operating Temperature:

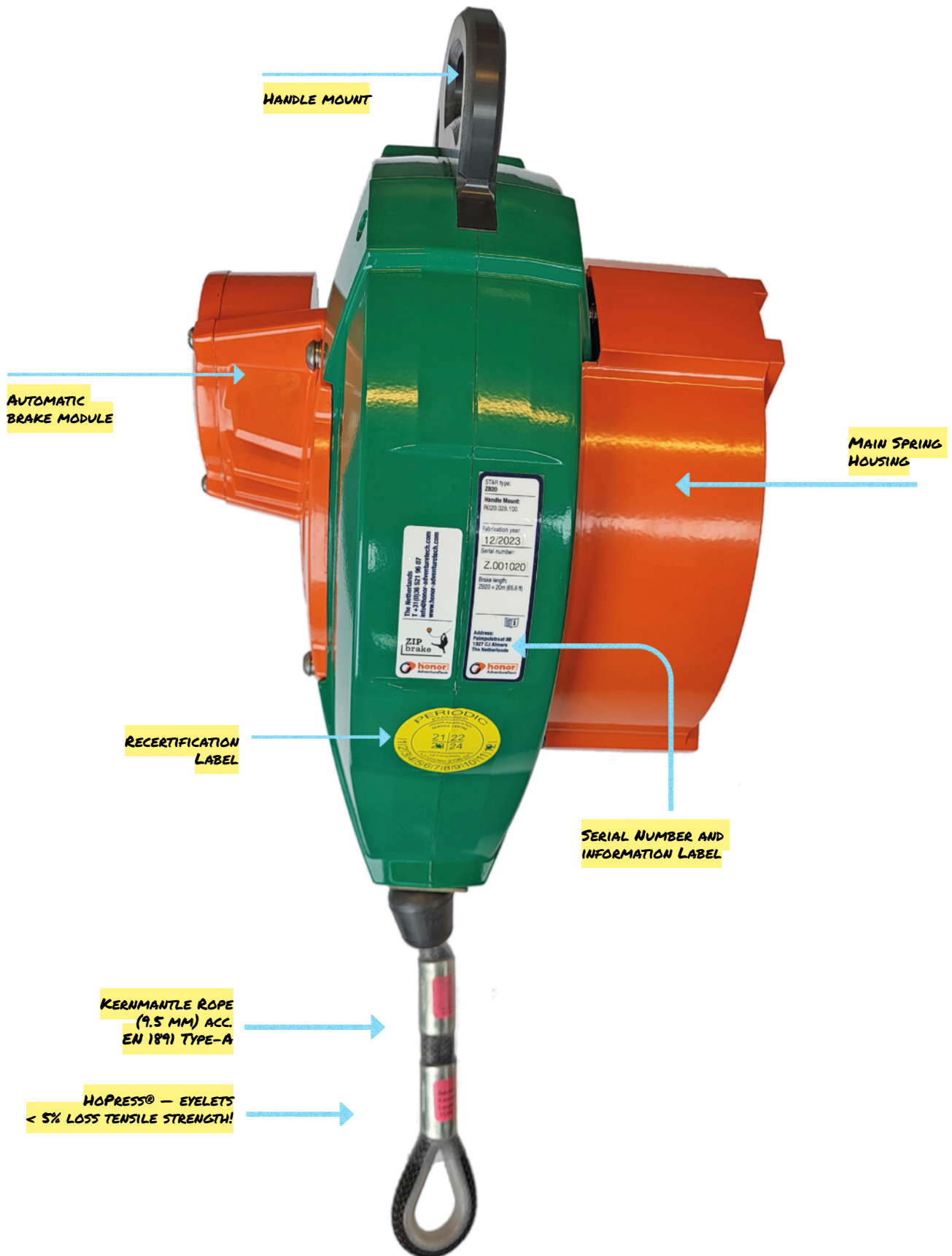
- Dry: Min -10° – max +55°C (Min 14° – Max 131°F)
- Wet: Min -4° – max +55°C (Min 24,8° – Max 131°F);
- Storage temperature -10° – +55°C (14° – 131°F);
- Integrated intensity of use counter, non-resettable;
- Applied materials:
 - Housing & modules: lightweight, Marine-Grade alloys – powder coated;
 - Internal components: SS, Marine-Grade alloys;
- Mounts: Handle Mount (2x handle & 1x connecting eye);
- Low testing and inspection costs;

Patents and standards:

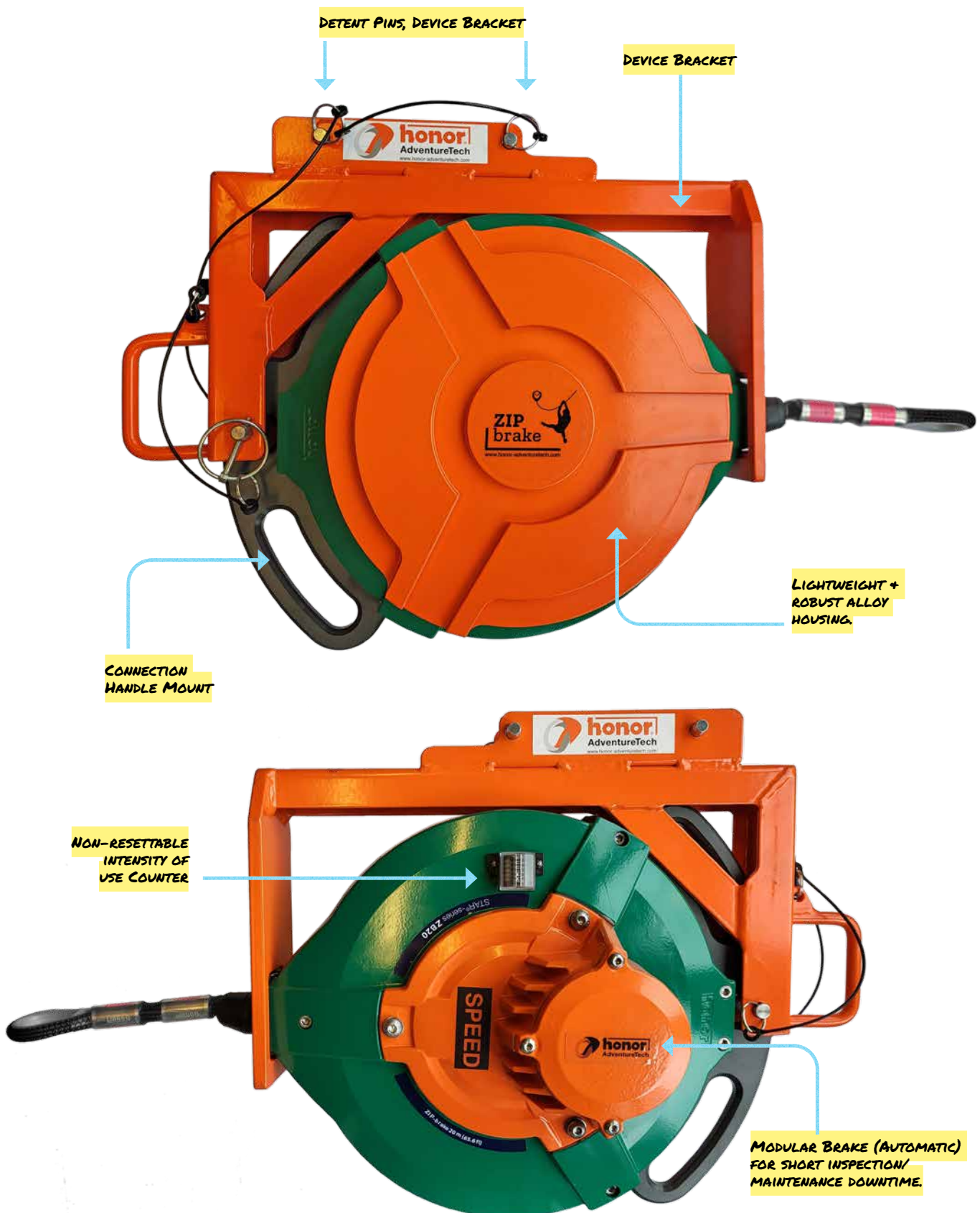
European patent number: 002503698-001
USA patent number: 23-0825-0576900

Art.no: R020.025.100 – ZB20 (Handle Mount)

ZIP-brake® details



ZIP-brake® details



ZIP-BRAKE INSTALLATION



Safety concept

Installation, Service & Support

Choosing the ZIP-brake® means choosing more than a product — you choose a complete safety concept and a long-term partner. From configuration to installation, inspection and ongoing support, we ensure your zipline operates safely, smoothly and efficiently for years to come. Safety is a vital investment — not an accessory.

Expert installation guidance

Every zipline environment is unique. Elevation, terrain, speed profile, rider demographics — each influences the ideal braking setup. We support you in determining the right configuration, braking distance and installation method (1:1 or 2:1 ratio), ensuring optimal performance and compliance. Our support includes:

- Configuration and braking-distance guidance.
- Installation and line-design recommendations.
- Integration advice for platforms and trolley systems.
- Direct access to technical expertise.

! Installation should be performed by a qualified zipline installer. We make sure you know exactly what, how and why for your specific site. The result: a smooth, safe and reliable system from day one.

Service & inspection

ZIP-brake is engineered for long life and minimal downtime — but safety equipment deserves proper care. You are probably aware that to ensure safe operation of your carefully chosen device it must be maintained and



HONOR uses and recommends the European standard EN 365:2004 for periodic maintenance and examination (at least every 12 months). All inspections must be recorded in the safety logbook in the manual.

inspected periodically. According to European standards (EN 365) or the standards in your region, all safety equipment must be examined at least once every 12 months.

Your ZIP-brake can be inspected and serviced at our Service Center in Almere, The Netherlands or at an authorized Service Centre in your region. Every device is registered in our Service Management System and you receive a digital or hard-copy certificate — ideal for your regulatory compliance or ISO audits.

- Annual inspection according to EN 365 or the standards in your region.
- Service at HONOR HQ or authorized Service Center in your region.
- Modular brake-cartridge for fast service turnaround.
- Full device traceability and service record.
- Digital or hard-copy certification provided.

Less downtime. Predictable service cycles. Maximum uptime.

Warranty & compliance

Each ZIP-brake is manufactured in the Netherlands under ISO-certified processes, ensuring consistent quality and long-term durability. Built to perform — built to last.

Training & operational support

A great system deserves great understanding. We help your team feel confident and competent in daily use, inspection and guest handling. Your staff works safe, confident and professional — every day.

Partnership

ZIP-brake is designed to enhance rider experience, reduce workload and lower long-term operating costs. This is not a one-time purchase — it is a long-term commitment to safety and quality.

ZIP-brake installation

System installation options

We support you in determining the right configuration, braking distance and installation method!

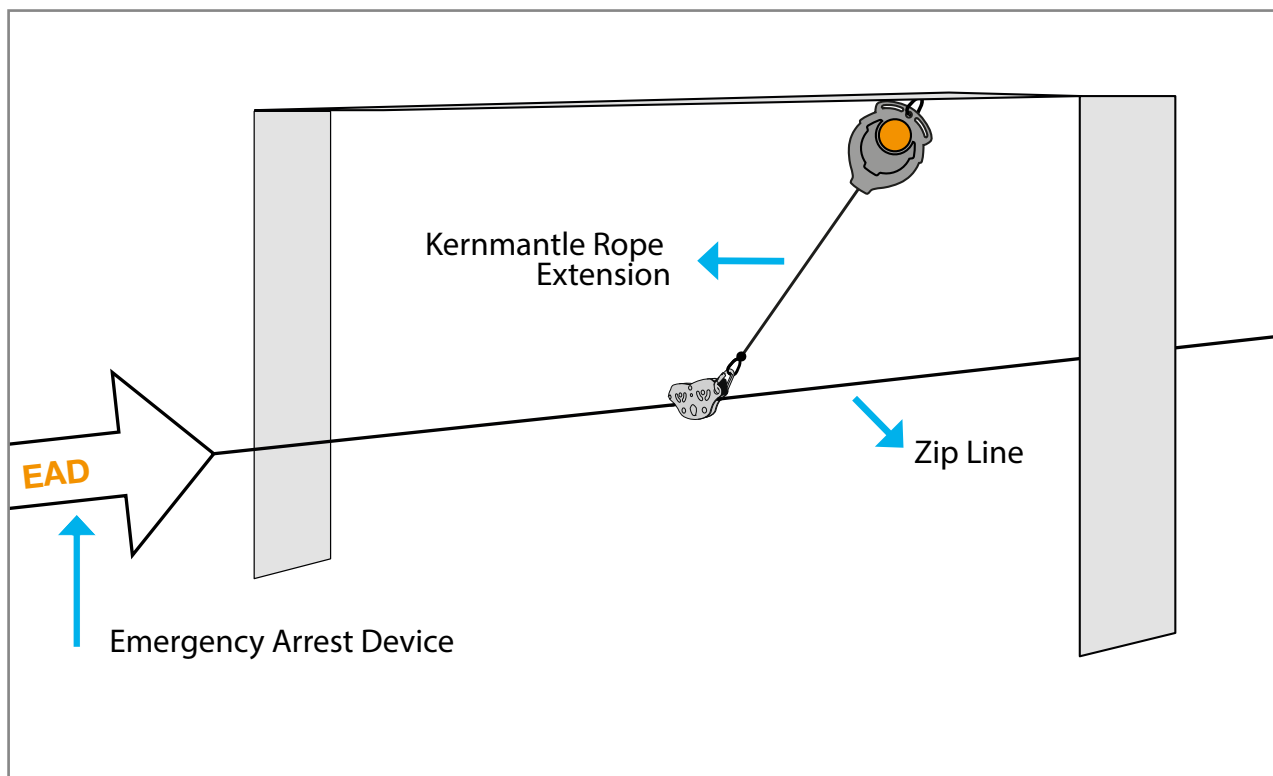
Ratio redirection systems

The ZIP-brake devices require a redirection system to connect the brake trolley to the ZIP-brake kernmantle rope. The 2:1 reduction system is possible in ZIP-brake and required in a ZIP-brake SPEED installation. A reduction system is a redirection system that utilizes pulleys to reduce

the kernmantle rope speed and extension relative to the arrival speed and is only allowed in configurations specified below. The below diagrams illustrate the typical components within a typical ZIP-brake line braking system. Depending on the installation, additional or fewer components may be required.

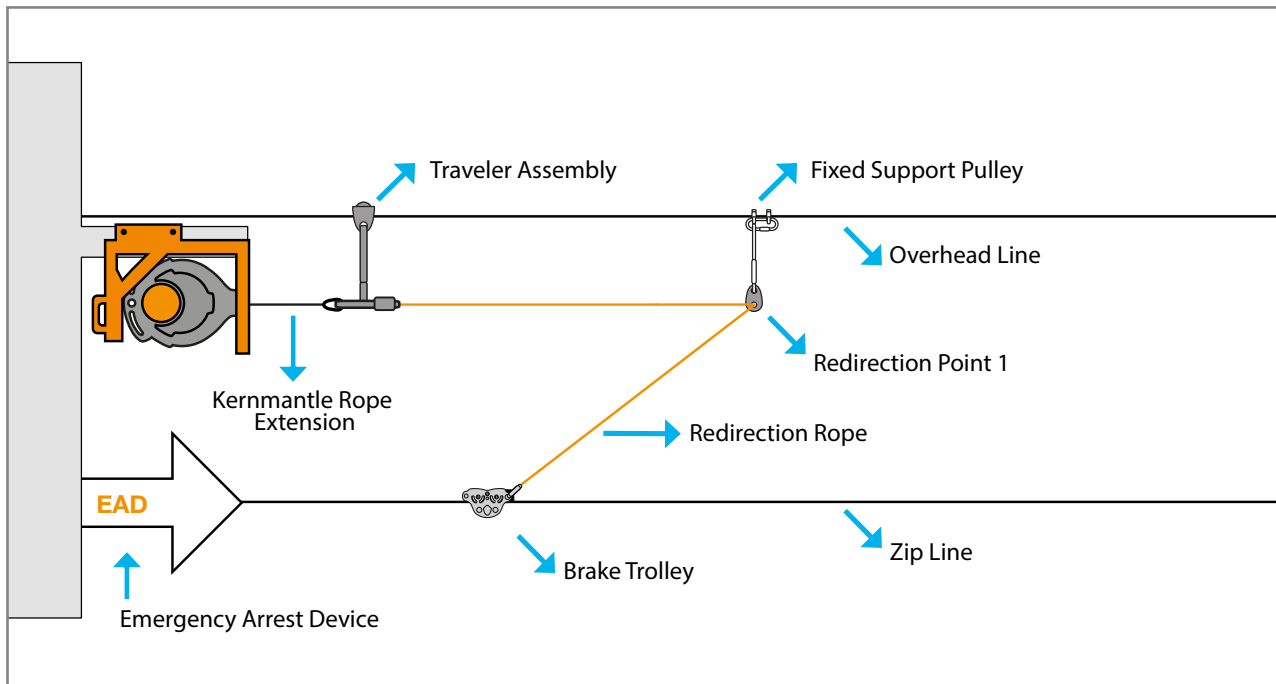
Option 1

1:1 RATIO | Portal installation



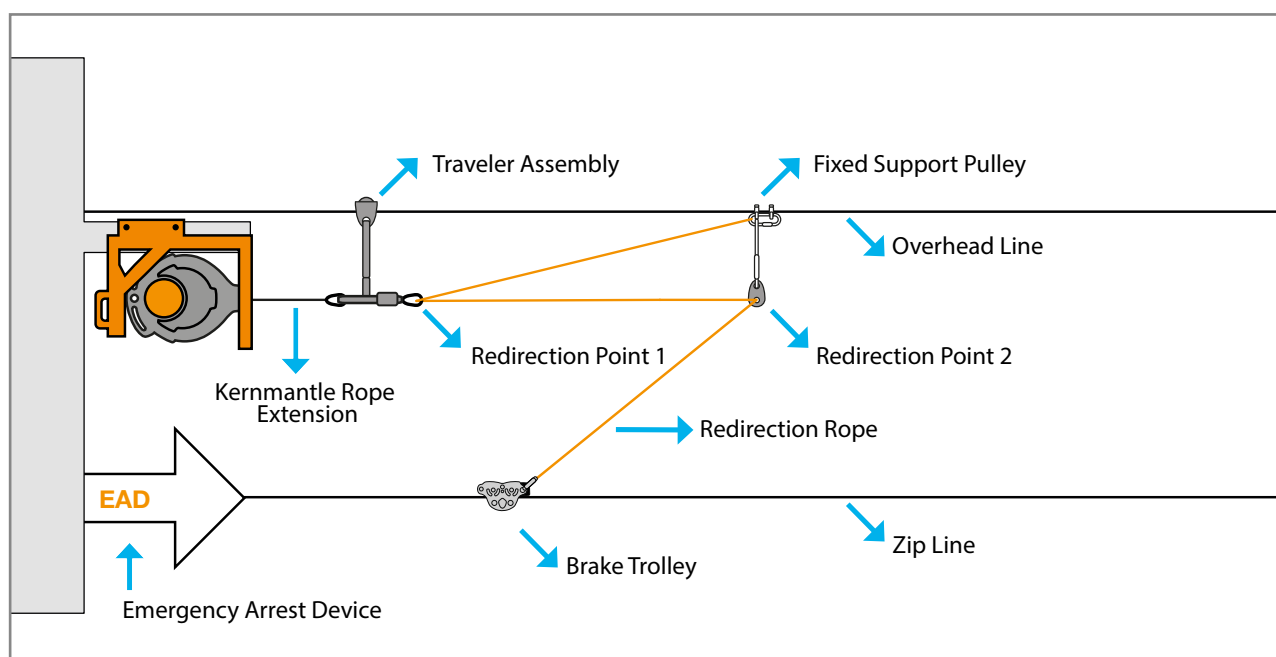
Option 2

1:1 RATIO | Overhead line installation



Option 3

2:1 RATIO | Overhead line installation





ZIP-brake accessories

A finishing touch

Our products are user-friendly and safe. In addition, we complete our range with accessories as a finishing touch. If what you are looking for is not listed here, please contact us.



Sidewinder Swivel Hook

Captive eye connector

Art.no: R024.001.035
Sidewinder Swivel Hook

Device Bracket

ZIP-brake
Mounting bracket

Art.no: R010.210.033
Device Bracket (Handle Mount)



A man with blonde hair, wearing a white t-shirt, dark shorts, and a blue harness, is ziplining over a vast, dense green forest. He is smiling and looking towards the camera. The zipline cable is visible, extending from the top left towards the bottom right. The background shows a steep, forested mountain slope under a cloudy sky.

READY FOR A CONFIDENT START?

LET'S DISCUSS YOUR ZIPLINE SETUP.
WE'RE HERE TO HELP YOU MAKE THE
BEST DECISIONS FOR YOUR LOCATION.

+31 (0) 36 521 96 07

info@honor-adventuretech.com
honor-adventuretech.com

HONOR AdventureTech
Safety engineered, adventure delivered.

YOUR DISTRIBUTOR

MANUFACTURER



HONOR AdventureTech

Palmpolstraat 88, 1327 CJ Almere — The Netherlands
P.O.-Box 60105, 1320 AC Almere — The Netherlands

Tel. +31 (0)36 521 96 07
info@honor-adventuretech.com

www.honor-adventuretech.com

