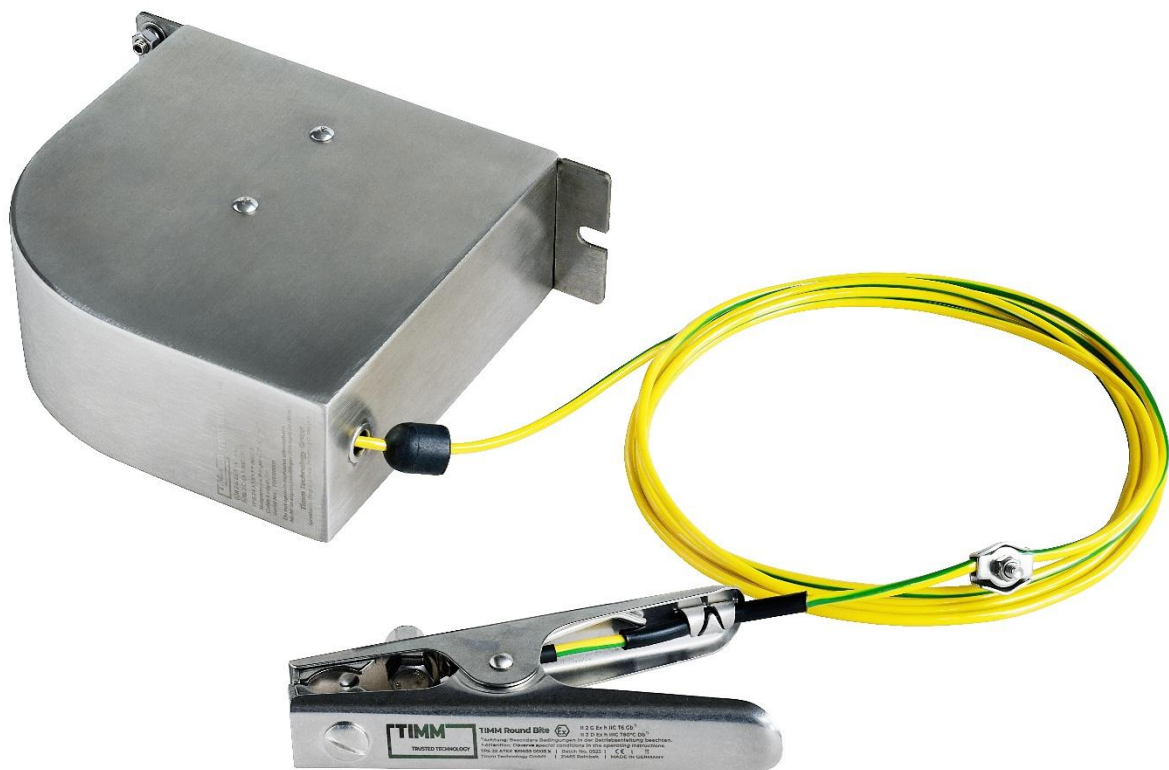


TIMM BITE REEL

INSTRUCTION MANUAL | ENGLISH



Thank you for choosing a TIMM product.

This manual is designed to help you use the device safely, reliably, and efficiently. Please read this manual carefully before first commissioning and keep it for future reference. Proper handling contributes significantly to operational safety and to the long service life of the product

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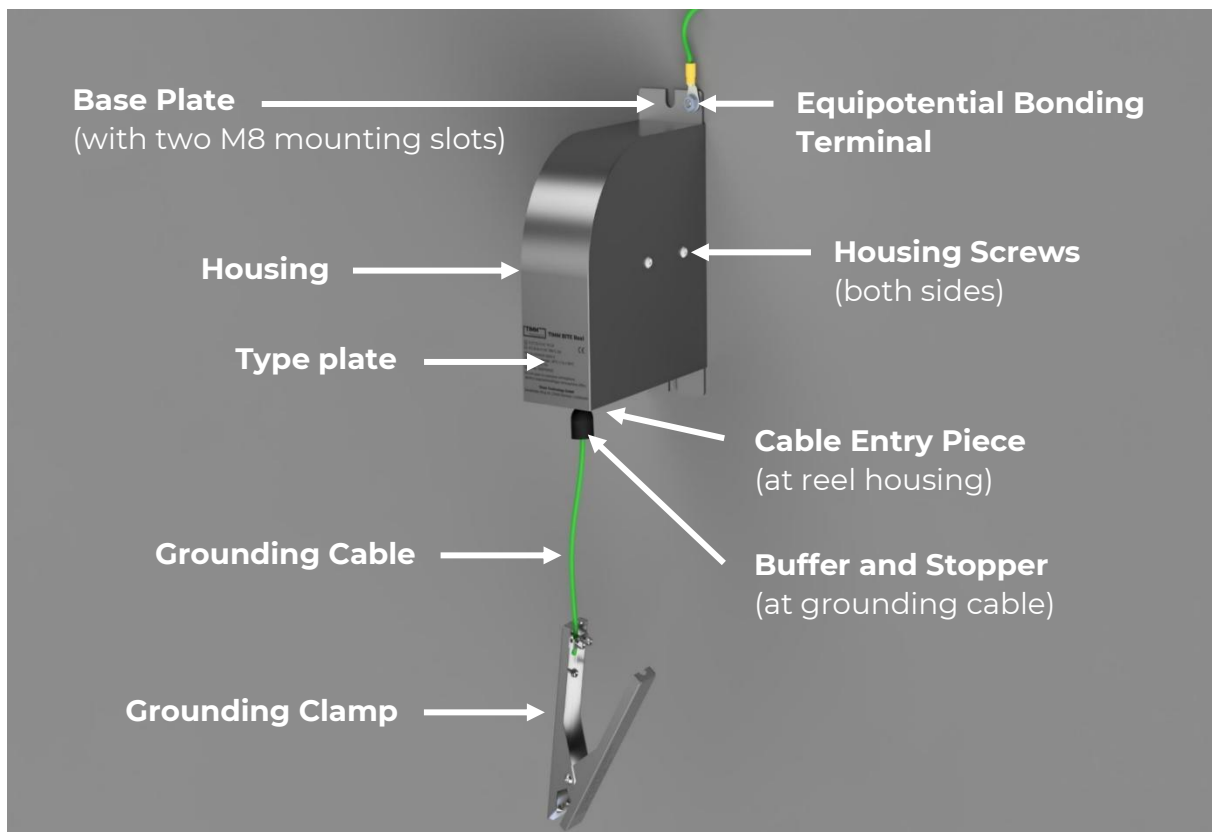
Manufacturer

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Scope of Delivery and Overview

TIMM BITE Reel cable reel with 7 m green-yellow grounding cable and mounting screws. Optionally with connected grounding clamp.



Intended Use

The TIMM BITE Reel provides a **temporary equipotential bonding** connection to safely **dissipate electrostatic charges** from metallic containers. The system is used during the filling or emptying of drums, IBCs, or tanks containing flammable liquids or powders. This prevents the risk of ignition or explosion due to electrostatic discharge.

1. Safety Instructions and Explosion Protection

Read this instruction manual carefully and completely. Failure to follow the instructions, safety, and warning notices may result in property damage, serious injury, or even death.

The TIMM BITE Reel is an explosion-protected device in accordance with the ATEX Directive 2014/34/EU. The marking is as follows:

 II 2 G Ex h IIC T6 Gb and  II 2 D Ex h IIIC T80 °C Db

Installation and commissioning may only be carried out by authorized and qualified personnel in accordance with Industrial Safety Regulation and in compliance with the applicable guidelines and regulations for the installation of explosion-protected equipment, e.g., EN 60079-14:2014 / VDE 0165 Part 1 and German DGUV Rule 113-001 (EX-RL).

When performing any work on the TIMM BITE Reel, always follow the safety instructions, technical specifications, and other information provided in this manual. Additionally, all applicable national safety and accident prevention regulations must be observed.

The TIMM BITE Reel and its supplied accessories may only be installed, set up, and used in perfect, undamaged condition.

The device is intended solely for the dissipation of electrostatic charges.



Warnings of hazards in this manual are provided in the context in which the hazard may occur. They are indicated by the adjacent safety symbol. Hazards can pose immediate risks or may become effective at a later time.

2. Installation and Commissioning

2.1. Installation Location



Warning – Risk of Explosion!

Do not install in Zone 0 or Zone 20! Select the installation location according to the explosion protection classification.

- Suitable for indoor installation.
- For outdoor use, install with weather protection.
- In extremely dusty environments, install in a protected area.
- Operator access must be free of obstacles.
- The grounding cable must not rub against or be damaged by other objects when being retracted or extended.
- No foreign objects should be able to strike the housing.
- The mounting surface must be level to prevent deformation of the base plate when tightening the fastening screws.

2.2. Installation

- Mount the TIMM BITE Reel vertically with 2 screws (M8) so that the grounding cable is pulled out downward.
- If not included, connect a manufacturer-approved grounding clamp to the grounding cable. Ensure proper strain relief at the clamp.
- Position the cable stopper on the grounding cable so that the grounding clamp cannot strike the housing if the cable is retracted uncontrolled.
- Connect the equipotential bonding terminal to the plant's equipotential bonding system. Use a copper cable of at least 4 mm². Ensure the connection is permanent, corrosion-resistant, vibration-proof, and secured against loosening.

Risk of explosion due to missing grounding if the equipotential bonding is not connected!!



After installation, measure the electrical resistance from the grounding clamp to the equipotential bonding point (busbar) with the cable fully extended. It must be less than 10 Ω. Ensure the equipotential bonding point (busbar) is properly connected to Ground/Earth.



Do not connect any electrical devices, circuits, or intrinsically safe circuits to the TIMM BITE Reel!

2.3. Commissioning

- Perform a visual and functional inspection as described in Section 4 of this manual.
- In particular, check that the connected grounding clamp makes proper conductive contact with the objects to be grounded. Measure the resistance from the object through the cable reel to the equipotential bonding point (busbar). It must not exceed 10 Ω.
- Hand over the instruction manual to the person responsible for operations.
- Include the TIMM BITE Reel in the operating instructions and maintenance schedule.
- Instruct and train operating personnel in proper handling and in observing all safety instructions.

3. Operation

3.1. Scope of Application

During the filling or transfer of flammable liquids, gases, or powders, electrostatic charges can be generated due to friction and movement. Mobile containers must be electrostatically grounded before each filling or emptying operation to prevent sparks and explosions. The cable reel with grounding clamp safely connects the objects to be grounded to the local equipotential bonding system, protecting against electrostatic hazards. The intended use of the device is exclusively the dissipation of electrostatic charges.

3.2. Instructions for Safe Operation

**Explosion hazard in Zone 0/20!**

The grounding clamp must not be used in Zone 0/20. Mechanical impact sparks can ignite an explosive atmosphere.

**Explosion hazard due to damage!**

The TIMM BITE Reel, grounding cable, and grounding clamp must be in proper and undamaged condition. The operator must perform at least a visual inspection before each use.

**Explosion hazard when grinding or rubbing noise!**

Grinding or rubbing noise indicate mechanical damage, which can cause heat or sparks. The cable reel must be taken out of service immediately and repaired by the manufacturer.

**Explosion hazard due to mechanical impact sparks!**

The grounding clamp must only be used manually. It must not be struck, dropped, or accelerated uncontrollably by the reel mechanism, as this may cause damage or spark generation.

**Explosion hazard due to (pre-)charged objects or potential differences!**

When contacting the object to be grounded, there must be potential equalization. The object must not be electrostatically charged.

**Hazard due to insufficient training!**

Improper handling may lead to hazards. Operating personnel must be trained in the safe use of the device before the first use and at regular intervals.

3.3. Before Each Use

- Check that the cable reel is securely mounted.
- Check that the cable stopper on the grounding cable is correctly positioned and in good condition.
- Inspect the grounding clamp for spring tension, cable connection, and condition of the contact surfaces.
- Inspect the condition of the cable while extending it.

3.4. Correct Cable Extension and Retraction

- Extend the grounding cable slowly and vertically downward.
- **Do not extend the cable beyond the red mark (7 m).**
- After each rotation of the inner cable drum, the cable can be locked.
- Lock the grounding cable in the reel before connecting the clamp to the object to be grounded.
- Release the lock by slightly pulling the cable further.
- Do not release the grounding clamp while extending or retracting the cable.
- Retract the cable only slowly.

3.5. Correct Grounding Procedure

1. **Ground before each filling or emptying operation!**
Always connect the container securely to the grounding system before starting work.
2. **Ensure conductive contact!**
The grounding clamp must make firm and conductive contact with the object to be grounded.
3. **Keep the grounding cable undamaged!**
Do not kink, knot, or damage the grounding cable.
4. **Maintain grounding throughout the process!**
The grounding connection must not be released or interrupted during the filling operation.
5. **Remove the grounding clamp only after completion!**
Remove the clamp only when all work is finished and the container is closed.

4. Maintenance

4.1. Cleaning

- Wipe the housing with a stainless-steel cleaner to remove dirt, oil, or deposits from the exterior surface.
- Fully extend the cable from the reel housing and wipe it with a cloth moistened with a mild cleaning agent to remove dirt, oil, or buildup.

4.2. Regular Visual and Functional Inspection

The TIMM BITE Reel is virtually maintenance-free. However, as with all equipment, a minor visual and functional inspection must be performed every 3 months. The inspection interval may be adjusted depending on the frequency of use but must take place at least once every 12 months.

- Clean the housing and the extended grounding cable.
- Check for any external damage.
- Check that the grounding clamp is securely attached.
- Verify that the equipotential bonding connection (to busbar) is firmly connected.
- Check the tension of the return spring — the cable should neither retract too loosely nor too tightly.
- Inspect the entire cable length for defects, wear, or damage to the cable sheath. If any damage is found, the cable must be replaced.
- Pull out the grounding cable and allow it to retract into the housing. Observe the behaviour of the retraction mechanism — it should operate smoothly and evenly. If the mechanism does not retract the cable properly or if vibrations, impacts, or other irregularities occur during operation, discontinue use of the reel and contact the manufacturer.
- Verify the equipotential bonding function by performing and documenting a resistance measurement. The resistance from the contacting jaw of the grounding clamp through the cable reel to the local grounding point (equipotential bonding busbar) must be less than 10 Ω .

4.3. Troubleshooting

Fault	Possible Cause	Corrective Action
Grounding cable is blocked	Uncontrolled retraction; cable jammed between drum and housing.	Remove the housing to free the cable; see Section 4.5.
Resistance > 10 Ω between clamp and grounding point	Grounding cable broken; connection to drum loosened.	Take the cable reel out of service, as electrostatic grounding is no longer ensured. Contact the manufacturer for repair.

No spring tension	Spring disengaged.	Take the cable reel out of service due to spark hazard. Contact the manufacturer for repair.
Grinding or scraping noises	Wear of the axle, bearings, etc.	Take the cable reel out of service due to possible overheating or sparking. Contact the manufacturer for repair.

4.4. Repair

Repairs on the TIMM BITE Reel may only be performed by the manufacturer. Otherwise, explosion protection will be void.

We will gladly carry out professional replacement of a worn grounding cable in our service workshop.

4.5. Removing the Housing

The housing is secured on each side with two screws. To remove the housing, completely loosen these screws. Afterwards, pull the housing forward from the base plate to free the internal winding drum

4.6. Spare Parts

The following spare parts are available for the TIMM BITE Reel: Grounding clamp, Grounding cable, Cable stopper, Cable buffer. Please contact your distributor or us as the manufacturer about this at any time.

5. Disposal

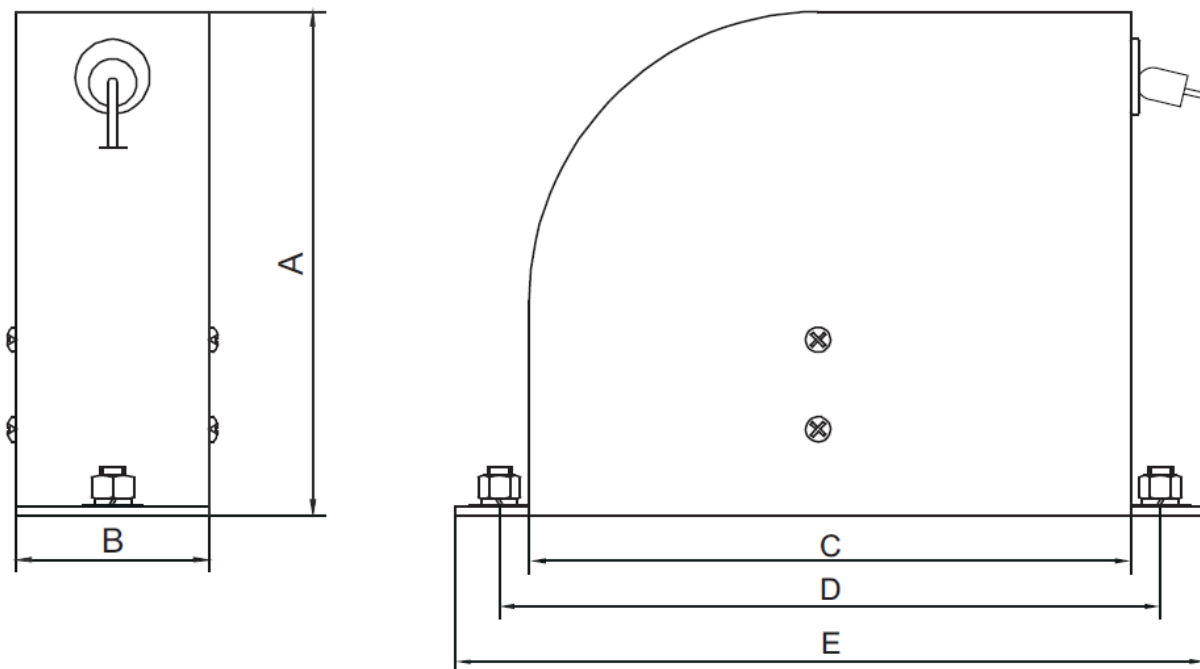
This product must not be disposed of with household waste at the end of its service life. Take the cable reel to an environmentally responsible recycling facility.

The device mainly consists of metal and plastic parts that can be recycled. If possible, separate the materials and take them to a collection point or recycling center. Pay attention, the internal spring is under tension. Only disassemble the device if you have the necessary expertise to avoid the risk of injury.

Dispose packaging materials through the appropriate recycling collection. Follow the applicable regulations and requirements when disposing of the product.

6. Technical Data and Dimensions

Type	TIMM BITE Reel
Explosion Protection Marking	II 2 G Ex h IIC T6 Gb II 2 D Ex h IIIC T80 °C Db
Material	Stainless steel
Grounding Cable Length	7 m
Grounding Cable Specification	4 mm ² stranded copper wire, green/yellow outer sheath, overall diameter: 4 mm
Temperature Range	-20 °C to +60 °C
Dimensions	210 mm x 62 mm (mounting surface) 170 mm (height)
Weight	3 kg



A = 170 mm	B = 62,5 mm	C = 168 mm	D = 194 mm	E = 210 mm
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The mounting holes in the base plate have a diameter of 9 mm and are suitable for M8 bolts/screws.

7. ATEX Certificate

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT	 Product Service	
	CERTIFICATE No. EX9A 109833 0007 Rev. 00	
	Holder of Certificate: Timm Technology GmbH Senefelder-Ring 45 21465 Reinbek GERMANY	
	Name of Object: Nonelectrical devices and components group II Category 2	
	Model(s):  Cable Reel for Grounding Cables TIMM BITE Reel	
	Description of Object: 1 set with technical documentation submitted in digital form via data transfer and deposited on 2025-08-18 at TÜV SÜD Product Service GmbH, Notified Body according to Directive 2014/34/EU.	
	This Certificate is issued according to Article 13(1) b) ii) of Directive 2014/34/EU for equipment and protective systems intended for use in potentially explosive atmospheres (ATEX). It confirms the receipt and storage of the file for the listed product by TÜV SÜD Product Service GmbH. It was not verified whether the documentation is correct and complete. For details see: www.tuvsud.com/ps-cert	
	Test Report No.: 713382247	
	Valid until: 2040-08-17	
	Date, 2025-08-29  (Ulrich Jacobs)	

Page 1 of 1
TÜV SÜD Product Service GmbH is a Notified Body in accordance with Directive 2014/34/EU for equipment and protective systems intended for use in potentially explosive atmospheres with the identification number 0123.

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TUV®



8. EU Declaration of Conformity

Timm Technology GmbH, Senefelder Ring 45, 21465 Reinbek, Germany hereby declares under its sole responsibility as the manufacturer that the TIMM BITE Reel complies with the requirements of the following EU Directives and harmonized standards:

Directive 2014/34/EU, Standards EN ISO 80079-36, EN ISO 80079-37

ATEX marking:	II 2 G Ex h IIC T6 Gb II 2 D Ex h IIIC T80 °C Db
Certificate of deposit at notified body:	EX9A 109833 0007 Rev. 00
Notified body:	TÜV SÜD Product Service GmbH

Place, date: Reinbek, 14 October 2025

Name, position: Dr. Thomas Overbeck, General Manager

Signature:

