Crosby TIMH Running Line Dynamometer User Manual

Contents

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Product Information

TIMH Running Line Dynamometer

- The TIMH Running Line Dynamometer is a wireless running line tensiometer designed for dockside, marine, offshore, towage, and salvage applications. It is made of marine-grade stainless steel and can be used with wire rope configurations up to 150t. The device can also calculate lineout and speed as an optional feature.
- The product is manufactured by Straightpoint (UK) Limited and is suitable for use with Crosby Straightpoint's handheld display. The device conforms to EU Machinery Directive 2006/42/EC, EU Radio Equipment Directive 2014/53/EU (RED Directive), EU RoHS 2015/863/EU, and other applicable technical standards. It also complies with ElectroMagnetic Compatibility (EMC) standards for radio equipment and services, specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz, and specific conditions for Broadband Data Transmission Systems.
- The product conforms to essential health and safety requirements of the listed applicable Directives and applicable harmonized technical Standards. It also has ISO 9001:2015 Quality Management Systems Requirements certification from BSI Certificate No. FM 584438. The product is self-declared, and the EU Authorised Representative is Thomas Dietvorst, General Manager of Straightpoint (UK) Limited.

Product Usage Instructions

- Before using the TIMH Running Line Dynamometer, ensure that it is compatible with your wire rope configuration and Crosby Straightpoint's handheld display. Follow the instructions in the user manual carefully to avoid errors or omissions.
- When using the device, attach it to your wire rope configuration according to the instructions provided. Ensure that the device securely fastened and not at risk of falling off during use. Turn on the device and Crosby Straightpoint's handheld display, and follow the instructions provided to calculate lineout and speed, if desired.
- After use, turn off the device and Crosby Straightpoint's handheld display, and store the device in a safe and dry location. Regularly inspect the device for signs of wear or damage, and replace any damaged parts as necessary.

EU DECLARATION OF CONFORMITY

Product: Running Line Dynamometer TIMH-TR

Product Description: Wireless Running Line Tensiometer for dockside, marine, offshore, towage and salvage applications. constructed from marine grade stainless steel and suitable for wire rope configurations up to 150t. Can, as an option, calculate lineout and speed.

For use with Crosby Straightpoint's handheld display.

Marking:

Manufacturer: Straightpoint (UK) Limited,
Unit 9, Dakota Park,
Downley Road,
Havant,
Hampshire,
PO9 2NJ, United Kingdom

This conformity is based upon compliance with the application of harmonized or applicable technical standards and, where applicable or required, a European Union Notified Body certification.

Directives: The described product above, is in conformity with:
EU Machinery Directive 2006/42/EC;
EU Radio Equipment Directive 2014/53/EU (RED Directive);
EU RoHS 2015/863/EU.

Applicable Harmonised Standards:

EU Machinery Directive 2006/42/EC
EN ISO 12100:2010 Safety of machinery - General principles for design – Risk assessment and risk reduction.

RED Directive
EN301 489-1 v2.2.3 (2019-11) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services, Part 1: Common technical requirements;

EN301 489-3 v2.1.2 (2021-03) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services, Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz;

EN301 489-17 v3.2.4 (2020-09) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services, Part 17: Specific conditions for Broadband Data Transmission Systems;

BS EN 62368-1:2020+A11:2020 Audio/video, information and communication technology equipment. Safety requirements.

RoHS
EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Notified Body: Self-declared

Quality Management: ISO 9001:2015 Quality Management Systems Requirements: BSI Certificate No. FM 584438

Straightpoint (UK) Limited declare that under our sole responsibility for the manufacture and supply of the product detailed above, that it conforms to the essential health and safety requirements of the listed applicable Directives and applicable harmonised technical Standards.

EU Authorised Representative: CROSBY EUROPE
Industriepark Zone B N°26
B-2220 Heist-op-den-Berg
Belgium
Phone: +32 0 15 75 71 25
Email:

Signed, on behalf of Authorised Representative:

Name: Thomas Dietvorst
Position: General Manager
Date: October 20th 2021

DECLARATION OF CONFORMITY

Product: Running Line Dynamometer TIMH-TR

Product Description: Wireless Running Line Tensiometer for dockside, marine, offshore, towage and salvage applications. constructed from marine grade stainless steel and suitable for wire rope configurations up to 150t. Can, as an option, calculate lineout and speed.

For use with Crosby Straightpoint's handheld display.

Marking:

Manufacturer: Straightpoint (UK) Limited,
Unit 9, Dakota Park,
Downley Road,
Havant,
Hampshire,
PO9 2NJ, United Kingdom

This conformity is based upon compliance with the application of UK Statutory Instruments (and their amendments) and/or applicable technical standards'; and, where applicable, or required, UK Notified Body certification.

UK Regulations: The described product above, is in conformity with:
The Supply of Machinery (Safety) Regulations 2008;
The Radio Equipment Regulations 2017;
The RoHS Regulations 2012.

Applicable Designated Standards:

The Supply of Machinery (Safety) Regulations 2008
EN ISO 12100:2010 Safety of machinery - General principles for design – Risk assessment and risk reduction.

The Radio Equipment Regulations 2017
EN301 489-1 v2.2.3 (2019-11) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services, Part 1: Common technical requirements.

EN301 489-3 v2.1.2 (2021-03) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services, Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz;

EN301 489-17 v3.2.4 (2020-09) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services, Part 17: Specific conditions for Broadband Data Transmission Systems;

BS EN 62368-1:2020+A11:2020 Audio/video, information and communication technology equipment. Safety requirements.

RoHS
EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

UK Notified Body: Self-declared.

Quality Management: ISO 9001:2015 Quality Management Systems Requirements: BSI Certificate No. FM 584438

Straightpoint (UK) Limited declare that under our sole responsibility for the manufacture and supply of the product detailed above, that it conforms to the essential health and safety requirements of the listed applicable UK Regulations and applicable designated technical Standards.

Technical Information Available From: Straightpoint (UK) Limited,
Unit 9, Dakota Park,
Downley Road,
Havant,
Hampshire,
PO9 2NJ, United Kingdom

Signed, on behalf of Straightpoint (UK) Limited:

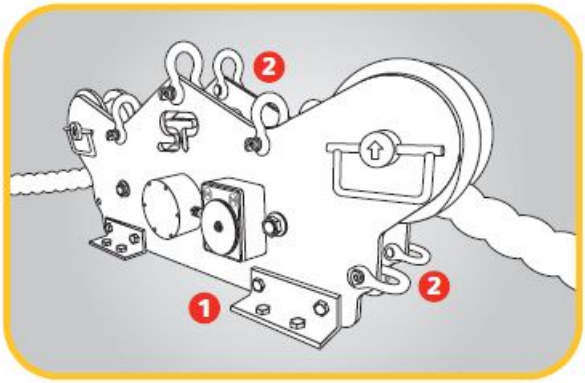
Name: Thomas Dietvorst
Position: General Manager
Date: October 20th 2021

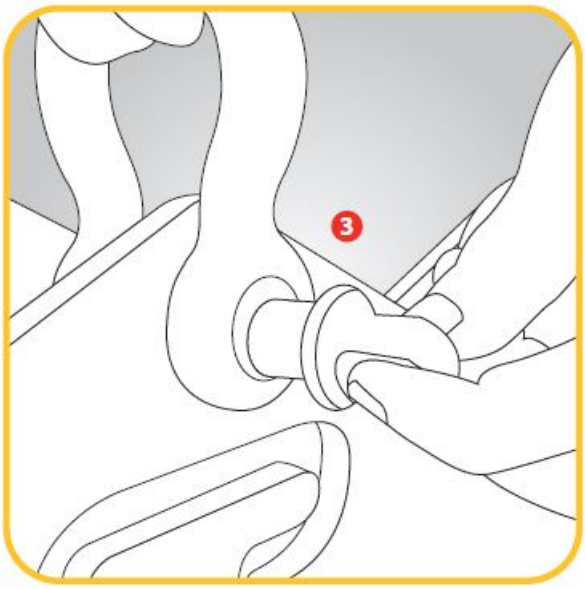
INSTALLATION INSTRUCTION

- All products manufactured and sold by Straightpoint Ltd, are sold with the express understanding that the purchaser and user are thoroughly familiar with the safe use, proper care and application of the product.
- Responsibility for the safe use, proper care and application of the product rests with the user.
- Failure of the product can occur due to misapplication, abuse, overloading, or improper care and maintenance.
- There are numerous government and industry standards that cover products manufactured and sold by Straightpoint Ltd. This document makes no attempt to reference all of them. We do reference standards that are most current like ASME B30.26-2010 “detachable load indicating devices.”
- Ratings shown in Straightpoint Ltd literature are only applicable to new or “as new condition” products.
- Rated capacities define the greatest force or load a product can carry under usual or normal environmental conditions. Shock loading and extraordinary conditions must be taken into account when selecting products and product capacity.
- Some of the products in the Straightpoint Ltd catalogues are designed for use with rigging hardware and components which could be supplied from several different manufacturers. It is crucial that you read and

understand the literature from these manufacturers, as well as governmental standards and industry technical manuals.

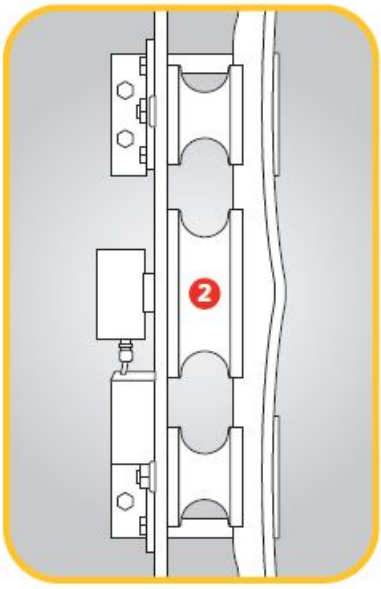
- The rated capacity, design factor and efficiency rating of each Straightpoint Ltd product may be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration, age and other use conditions.
- The recommended proof load on all items manufactured and sold by Straightpoint Ltd is twice the working load limit (WLL), unless otherwise shown. Proof testing is included on all Straightpoint Ltd load-indicating products.
- The TIMH is used in conjunction with other equipment and running wire ropes.
- Only qualified personnel should install the product.
- This manual presumes the operator is qualified to rig and work with wire ropes in all situations.
- Make sure the wire rope diameter and expected tension are suitable for the model TIMH you are using – if in doubt do not proceed and take advise.
- This product is designed to measure the load and line out on a wire rope to a maximum speed of 20 metres per minute – check wire rope speeds – if in doubt do not proceed and take advice.
- Check the TIMH for any visual fractures, wear or deformation.
- The sheave bushes are maintenance free but movement of the sheave on the axle should be checked and should be less than 0.5mm
- The wire rope must be in the sheave and the TIMH should be firmly attached to its mounting points
- Avoid installing in areas affected by strong vibrations.
- Make sure that the user keeps a good overview of the work area.
- Wear appropriate personal protective equipment (PPE) at all times



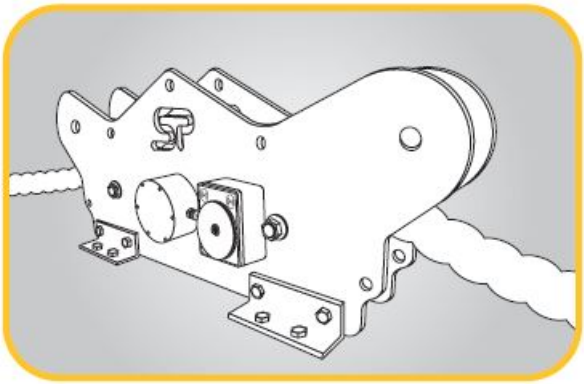


- A fixing method needs to be found for each individual TIMH before it is rigged.
- The TIMH needs to be fixed in such a way, that it is kept as vertical as possible.

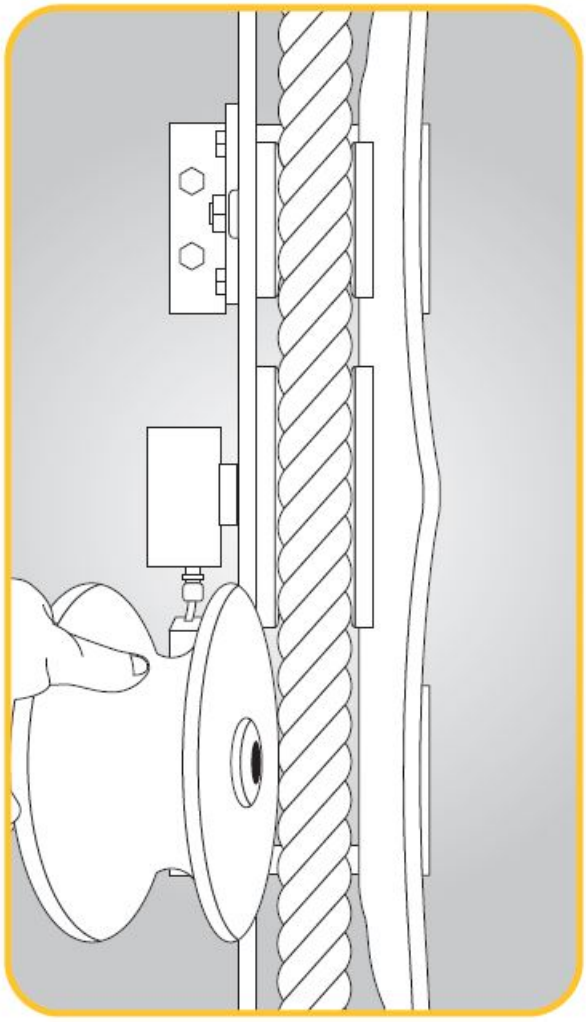
- The fixing method could be by bolting down or by chains or by wire attached to the shackles on the TIMH.
- The figure shows how to attach shackles.
- If an articulated arm is required, please contact your local Straightpoint partner for more information.
- The chosen method depends on the possibilities and the surroundings on your worksite.



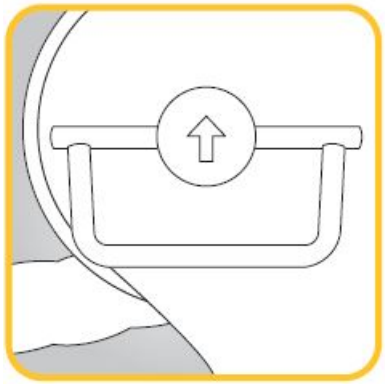
- To rig the TIMH, the wire rope that is to be measured must be in a slack rope condition.
- Once the TIMH is anchored or fixed in place remove both top sheaves.
- Take care not to trap fingers when removing the sheaves as they are heavy. Wear appropriate PPE.



- Next, lay the wire rope through the TIMH onto the lower three sheaves.

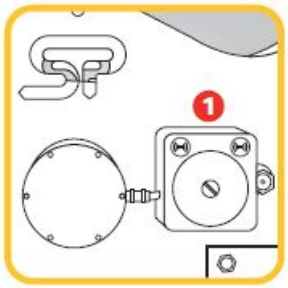


- Now, refit the sheaves, making sure the arrow on the sheave axle is pointing in the right direction.

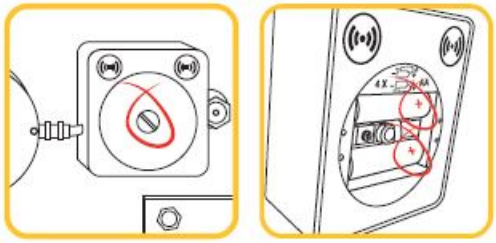


- Depending on the version of TIMH, the instrumentation will be different

- Once the cable is connected plug the HHP handheld into the other end of the cable.
- For full instructions of the HHP please refer to manual SU3343.
- If the model TIMH has a ‘R’ or ‘RD’ suffix then it is a wireless product and 4 x AA batteries need to be fitted here.



- Once batteries are inserted you can then connect either the SW-HHP wireless handheld or SW-MWLC software.
- For full instructions of the SW-HHP please refer to manual SU3479 and for SW-MWLC please refer to manual SU3572.



- You can now apply the load.
- Apply loads slowly and avoid shock loads, make sure the maximum wire rope speed is not exceeded.
- If any unexpected readings are encountered stop the wire rope and inspect your complete setup for any problems.
- These devices are sealed to IP67/NEMA6 standards.
- The effects of solvent on the device can not be guaranteed, and should therefore be avoided.
- Avoid use within 20-30 minutes of rapid changes in temperature, for example moving the device from a cold vehicle into a warm room.
- The change in temperature can affect the accuracy of the device. The operating temperature is -10 to +50° C or 14 to 122° F.
- Should the display show “OLOAd” remove the load immediately as this indicates an overload situation.
- Check that the load applied is within the working load limit of the device. If it continues to display overload, contact your supplier.
- These products are supplied with a certificate of calibration which is valid for one year.
- After this date, it is recommended the device is recalibrated by Straightpoint or an approved calibration laboratory.
- Contact the Straightpoint service department or your supplier for more information.
- In the unlikely event of this device failing, fit new batteries and re-test. Only when this has been done should you contact your supplier to report the fault. When reporting the fault it is important to give a full description of the problem and the type of application the device is being used for.

Straightpoint (UK) Ltd warranty this product against malfunction for a period of two years from manufacture.
Conditions of warranty:

1. The equipment is used as described exactly in the operators manual supplied.
2. Whilst we make every effort to ensure each device is calibrated before despatch, Straightpoint (UK) Ltd do not accept responsibility for inaccurate readings indicated by this equipment.
3. In the event of malfunction, the device is returned to the manufacturer: Straightpoint (UK) Ltd, Unit 9 Dakota

Park, Havant, Hampshire, UK, PO9 2NJ.

4. If we consider any malfunction to be caused by misuse, this warranty is void and any repair will be charged for accordingly.

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2801 Dawson Road, Tulsa, OK 74110 · USA · Tel: +1 (918) 834-4611

Documents / Resources

	**Crosby TIMH Running Line Dynamometer** [pdf] User Manual TIMH, TIMH Running Line Dynamometer, Running Line Dynamometer, Line Dynamometer, Dynamometer