TR3 Tripod
User Manual
ANSI Z359.18-2017

CHECKMATE

TR3 Tripod

INDEX

WARNING!

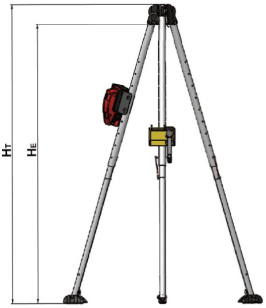
Working at height is dangerous. This product is designed to reduce the risk of working at height, by providing protection in the event of a fall to reduce the risk of injury. The product must be used as intended, and the user must be trained, competent, and aware of the correct usage and limitations of the product. The user MUST be supplied with the manufacturers user instructions and MUST read and fully understand and follow the instructions within. The user must also comply with OSHA and local safety regulations.
Failure to follow these guidelines could result in injury or death.

The Checkmate TR3 meets the requirement of ANSI Z359.18-2017, A10.32.12, OSHA 1910 and OSHA 1926 Subpart M

Introduction to TR3 & Scope of Use

TR3 Tripod

The TR3 Tripod has been designed for your safety. The TR3 is supplied as a passive fall arrest device. The device is designed to be used above structures and confined entry areas where other attachment is not possible. The TR3 is totally portable and is therefore a temporary anchorage. In the event of a fall the Tripod will provide a tested anchorage and a secondary anchorage for rescue if required. If in any doubt please clarify application with Checkmate Technical Support.



Position A = Max extension with bracket fitted
Position B = Min extension with bracket fitted
Position C = Min extension - no bracket (connect to eyebolt only)

Position	HT	HE	D
A	94	87	56
B	71	63	39
C	71	63	39

All measurements in inches
HT = Height to top of TR3 crown
HE = Height to bearing point of eyebolt
D = Diameter to inside of feet

For opening and clearance requirements please see p.g. 11

Principal Materials:
Aluminum, stainless steel, galvanized steel, powder coated steel, polyester, nylon

Model Designation

PART NO.	DESCRIPTION
32200	Height adjustable tripod (TR3) & carry bag
32208	Tripod carry bag only
32205	Tripod (TR3), tripod bag, 65ft work winch (WG-01), winch adaptor bracket (WG-02), 60ft galvanized SRLR (FABX2R) & SRLR adaptor bracket (FABXR-DB)
32206	Tripod (TR3), bag, 65ft work winch (WG-01), winch adaptor bracket (WG-02), 100ft galvanized SRLR (FABXLR) & SRLR adaptor bracket (FABXLR-DB)
32207	Tripod (TR3), bag, 65ft winch (WG-01) & winch adaptor bracket (WG-02)

Assembly

NOTE:
The Checkmate TR3 and FABX2R/FABXLR are designed for rescue use only. If the device is to be used as a primary man riding winch Checkmate recommend the use of a secondary rescue device. The device is designed to be used in free running mode and in the event of a fall the user can be rescued via the winching facility. For advice or further information contact **Checkmate.**

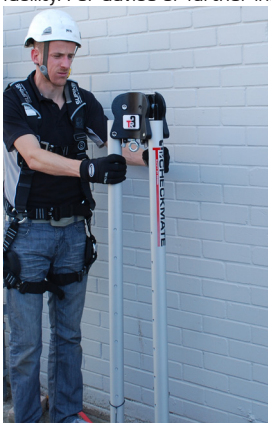


Fig. 1
Unpack tripod and stand upright.

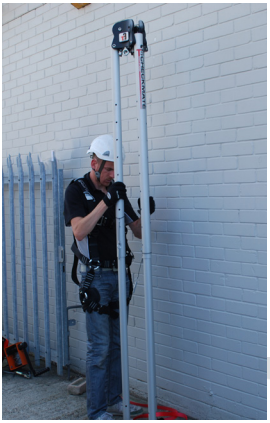


Fig. 2
Release leg pins and slip up to desired height.

Fig. 3
Lock individual legs with pins.

Fig. 4
Open legs out and ensure sprung loaded tabs lock out in position.

Fig. 5
Check anti splay webbing is secure.

Flat Feet

Spiked Feet

Fig. 6
Ensure feet are sitting flat on the ground as shown when used on hard ground, or fully folded back for use on soft ground.

Assembly

Fig. 7
Fix FABXR-DB or FABXLR-DB with two supplied pins.

Fig. 8
Insert FABX2R or FABXLR into the bracket as shown seating the cable end in the bracket

Fig. 9
Secure with M12 bolt.

Fig. 10
Pull cable up to tripod head and insert hook through central hole.

Fig. 11
Slide sprung loaded pulley to right, insert cable in pulley groove, and release pulley.

Fig. 12
The device is now ready for use. Follow the instructions for safe use of other equipment.

Folding:

Reverse the above procedure, ensuring that the sprung loaded leg locking pins are released by hand before folding each leg. It is acceptable to leave the FABX2R fitting in the FABXR-DB Bracket when removing from the TR3.

Assembly

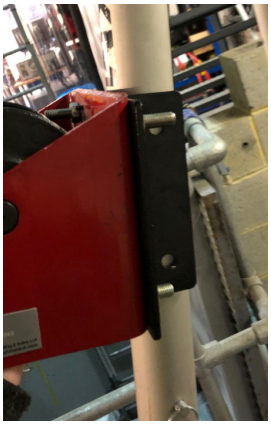


Fig. 1
Slide the bracket (WG-02) which is fixed to the winch onto the tripod leg.

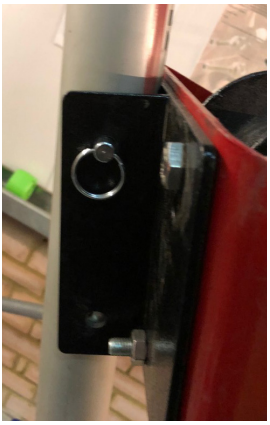


Fig. 2
Align the holes in the bracket with the holes in the tripod leg and insert a detent pin.

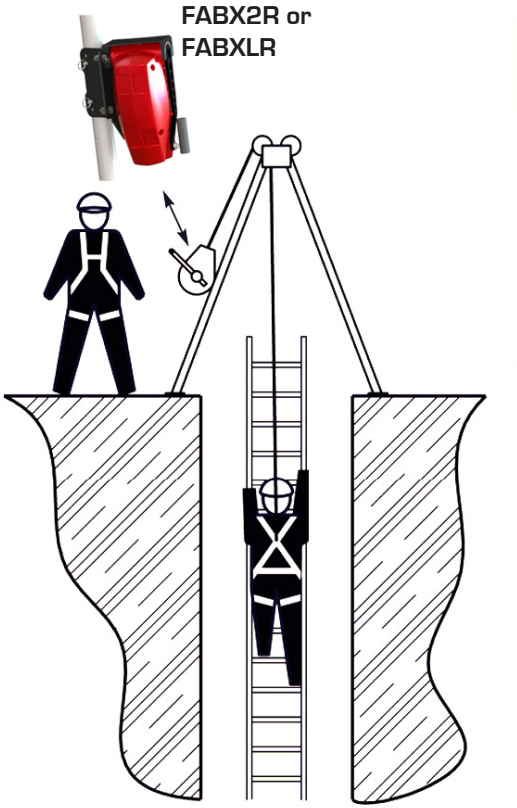
Fig. 3
Insert the second detent pin.

Fig. 4
Pull cable up to tripod head and insert hook through central hole.

Fig. 5
Slide sprung loaded pulley to right, insert cable in pulley groove, and release pulley.

Confined Space
Recommendation Option 1

Primary Fall Arrest Device with Secondary Backup



When entering a confined space when a fixed access system is installed the user should use:

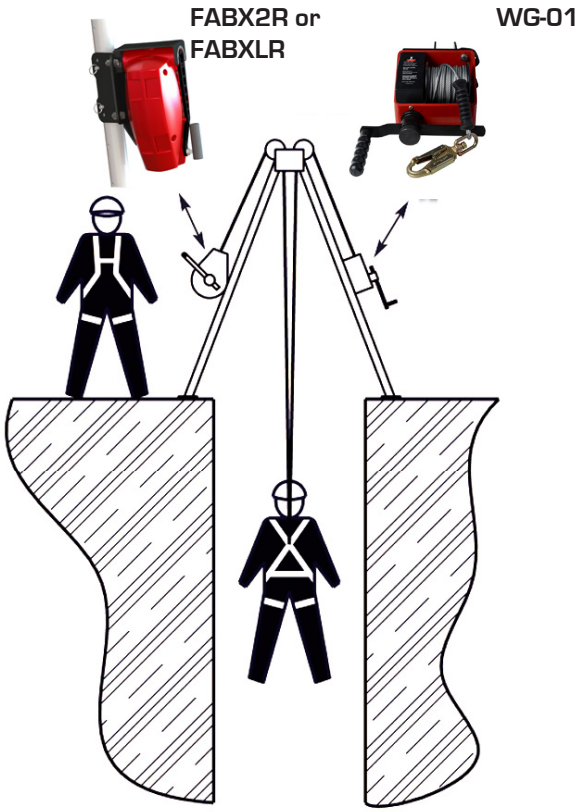
1 x Tripod (TR3)
1 x SRLR (FABX2R or FABXLR)
1 x SRLR adaptor bracket (FABXR-DB or FABXLR-DB)

The FABX2R/FABXLR should be in free run mode and in the event of a fall the device will automatically lock on and then the winch can be engaged.

PLEASE NOTE THAT THE FABX2R/FABXLR IS NOT INTENDED TO BE USED AS A CONTINUOUS WINCH, ONLY AS A RETRIEVAL DEVICE IN EMERGENCY SITUATIONS.

Confined Space Recommendation Option 2

Primary Raise and Lower Device with Secondary Backup



When entering a confined space when there is no fixed access system and there is a need to lower the user down under control, you should use:

1 x Tripod (TR3)
1 x SRLR (FABX2R or FABXLR)
1 x SRLR adaptor bracket (FABXR-DB or FABXLR-DB)
1 x Work winch (WG-01)
1 x winch adaptor bracket (WG-02)
The WG-01 is your primary lowering device and in the event of a fall the FABX2R/FABXLR will automatically lock on and the winch can be engaged.

Storage, Issue & Inspection

Storage

Storage in a central protected location allows assurance of inspection on issue and return
This tripod should be stored in a clean dry place where it can be protected from damage by chemical attack and sharp objects . It should be stored with its instructions and record card at all times.
After use return to the store, Never leave the device lying around site.

Cleaning

To clean the tripod a mild detergent can be used with warm or cold water and then dry with a clean soft cloth.

Issue

This and associated equipment must be visually inspected by a competent person when initially delivered to site, there after the product must be inspected before and after use. A record card is printed on the reverse of this manual and should be updated after each routine inspection. Follow the points laid down in the section headed "Inspection" without deviation.

The supervisor must ensure that the equipment is being used correctly and that the user is aware of its safe use and inspection. Additionally the supervisor must ensure that the site to which the device is to be used has been approved fit for use and is in a good condition.

Inspection & Maintenace

Inspect the device for corrosion or damage.
Check the head and leg pins for signs of wear or damage and replace wear necessary.
Pay attention to condition of leg tubes for damage, bends and hole wear.
Check the sprung loaded locking tabs self-engage when the legs are opened.
Check the sprung loaded pulleys return to central position when slid to the side and released.
Check the condition of the pulley and eyebolt attachment. Pulleys should run free, but the eyebolt must be fixed.
Check rubber pads are fitted and not missing on feet.
Check the condition of the entire length and buckle of the anti-splay tape for damage.
Check the device opens and closes fully.
Tripods which fail inspection must be removed from the field of service immediately and marked out of service. If irreparable the Tripod must be destroyed and discarded to prevent further use.

Ensure that device certification is current before use, the device must have been serviced within the last 12 months and 3 months if used in corrosive or off-shore environments.

If for any reason the inspection of this device shows signs for concern or doubt then the device must be quarantined and removed from service immediately. Qualification should be sought from the supervisor and if still concerned the device must be sent to the supplier, an approved service agent or the manufacturer for service and re-calibration.

This device must only be serviced by the manufacturer or a trained and competent individuals approved by the manufacturer.
Never attempt to service this device or tamper with its function in any way.

Quality, Legislation & Exclusions

5.1 Quality

All Checkmate products are manufactured under ISO 9001 and to the highest standards. The scope of use within the certification held allows Checkmate to design, manufacture and test Personal Protection Equipment.
Horizontal tensile test machine, abrasion testers and dynamic drop test rig are just part of the full range of test facilities used to ensure ultimate safety of our product range.
All Checkmate systems must only be installed by Checkmate personnel or an approved installer. Strict training is given and written exam are completed before full certification can be given to installers.

5.2 Legislation and Standards

The TR3 Tripod has been designed to meet the requirements of ANSI Z359.18:2017, A10.32.12, OSHA 1910 and OSHA 1926 Subpart M

For clarification on any certification issues contact Checkmate.

5.3 Exclusions

Checkmate holds global product liability cover for your safety.
Checkmate will NOT however be responsible for:
Users who are out of the scope of any written manuals of training given.
Any systems that have NOT been inspected under the current legislation.
Operators who do not use load limiting PPE.
Devices that have been damaged.
The Max weight has been exceeded.
Devices that have NO serial number markings, and the manufacturers name.
Checkmate Lifting & Safety Ltd present.

Rescue and Risk Assessment

Suitable planning and risk assessment should be carried out by the user and or supervisor. A suitable rescue plan and equipment shall be in place to minimise post fall suspension time. Checkmate can offer a complete range of rescue equipment to suit your requirements.

Installation & Use

Installation

As a minimum, when in use the tripod must always be installed with either load lifting equipment i.e hand winch and/or load limiting device i.e. SRLR.
The device must not be used where the following hazards may endanger the user or prevent the efficient operation of the system.
The area below the device must be free of obstruction which may obstruct the movement of the user.
The environment must be free of heavy solvents or acids that will degrade the device, lanyard or the hook.
The structure to which the device stands must be in good condition and suitable for use
The webbing anti splay strap must be fitted and tensioned prior to use, check all pins are inserted and secured.
Only install on flat level ground on a stable surface. Ensure footing is stable and can support the intended load. (see below)
The mounting surface onto which the tripod will be installed must meet the requirements of ANSI Z359.18:2017 and the criteria stated below:

Fall arrest:

The mounting surface on which the tripod will stand, selected for personal fall arrest systems (PFAS) must be capable of withstanding a static load of at least 3,600lbs (16kN) (1) in all directions permissable by the PFAS when certification exists (see ANSI Z359.18-2017 for more certification details). In the absence of certification the mounting surface must be capable of withstanding 5,000lbs (22.2kN) (2) of static force. If more than one tripod is to be installed on the mounting surface for simultaneous fall arrest use, the static strengths (1) & (2) must be multiplied by the number of systems attached to the mounting structure.

Work Positioning:

The mounting surface must be capable of withstanding a static force of 5,000lbs (22.2kN) in all directions permitted by the work positioning surfaces.

Material Handling:

The mounting surface must be capable of withstanding a static load of 2,500lbs (11.1kN) in all directions permitted by the handling equipment.

Rescue:

The mounting surface must be capable of withstanding a static load of 2,500lbs (11.1kN) in all directions permitted by the rescue equipment.
The minimum strength of the TR3 is 5,000lbs (22.2kN)

Use

Fall Protection

Check the anchorage to ensure it has not been damaged, follow the inspection routine laid down in this manual.
The device will arrest a fall normally within the specification of the device attached in normal use the anchorage can only be used with devices or systems where a shock absorber or device with shock absorption is used limiting arrest forces to below 1,800lbs (8 kN).
Connection is either in the leg plane from the mounting bracket or vertically downward from the anchorage points. For details please ask your local Checkmate representative.
The unit is designed to used within systems that limit the force in a fall to less than 1,800lbs (8kN) on the user.
Rated for one worker, or two workers during assisted rescue. Each worker must attach to a separate connection point.
Worker capacity range (including all equipment): 130-310 lbs. If used in assisted rescue, maximum combined worker capacity is 620 lbs. If used for equipment hoisting, maximum
equipment weight is 551 lbs./250 kg.

Materials Handling

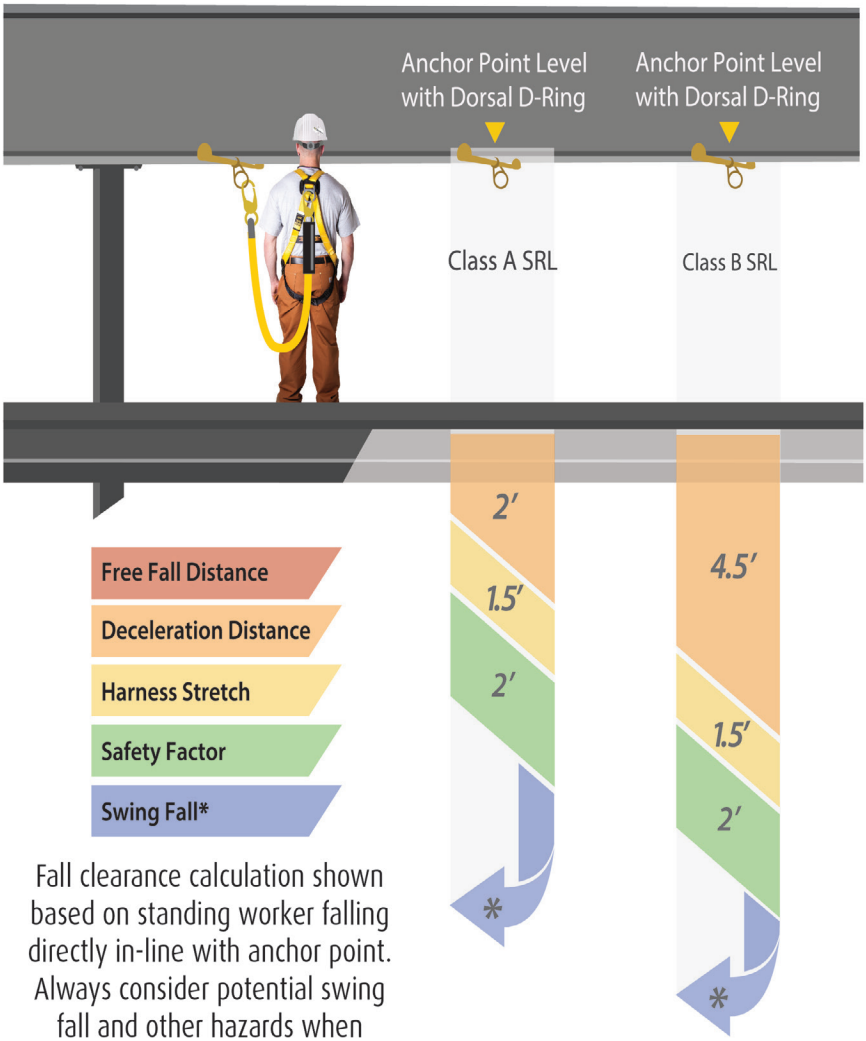
The TR3 may be used for materials handling with a maximum load of 550lbs (250kg) and a suitable winch. Ensure that the TR3 is not subjected to any shock loads, and that the stability of the TR3 is not compromised. Do not use the TR3 for materials handling and PPE at the same time.
Do not attach more than one personal fall arrest system to the tripod unless certified for such purpose.

Opening & clearance requirements

Maximum hole diameter (tripod max extension): 36" (3.75ft)
Maximum hole diameter (tripod min extension): 21" (1.75ft)
Minimum foot to opening distance: 9"
Minimum head clearance: 48"/4ft (ground to obstruction distance)
Maximum tripod footprint diameter: 56" (4.7ft)
It is imperative that proper maintenance of adequate clearance around and within the tripod is upheld to provide unrestricted movements in, through, and around the tripod and minimizing tripping or other events which may result in dislodging the tripod.

For fall clearance requirements see page 12.

Fall Clearance



Fall clearance calculation shown based on standing worker falling directly in-line with anchor point. Always consider potential swing fall and other hazards when calculating fall clearance.

Warnings! & Compatability

Warnings!

Read and understand manufacturers instructions before inspection, installation or use of this product. Do Not use if you weigh more than 310lbs (141kg). Only use approved equipment with Tripod. If there are any points in this manual that you are unsure of seek a competent, trained person to advise you before using.Seek medical advice from a doctor before using this product if, you have sustained a spinal injury, suffer from a neck or back complaint, or you are taking prescription medication. Never use if you are under the influence of alcohol or recreational drugs. Extra care should be taken if welding whilst using this product, protect the device from splatter and heat at all times. The TR3 tripod must only be installed on flat level ground with a stable surface using the installation procedure provided within this document. If subjected to the forces of arresting a fall, the tripod must be removed from service immediately and inspected by an authorised person.

Never attempt to:

- Alter the device;
- Misuse the equipment;
- Combine components or subsystems, or both, which may interfere with the safe function of each other;
- Expose the equipment to chemicals which may produce a harmful effect, consult the manufacturer if in doubt;
- Use the equipment around moving machinery and electrical hazards;
- Use the equipment around sharp or abrasive surfaces
- Use the equipment without the minimum protection equipment installed to the tripod i.e hand winch and/ or SRLR.

Service temperature Range: (-30°F / -34.4°C) - (130°F / 54°C)

NOTE: The Checkmate TR3 and FABX2R/FABXLR are designed for rescue use only. If the device is to be used as a primary man riding winch Checkmate recommend the use of a secondary rescue device. The device is designed to be used in free running mode and in the event of a fall the user can be rescued via the winching facility. For advice or further information contact Checkmate.

Compatibility

The tripod is suitable for fall arrest when used with a Full Body Harness (approved to ANSI Z359.11-2014), suitable shock absorbing lanyards (approved to ANSI Z359.3-2013), suitable non-shock absorbing lanyards (approved to ANSI Z359.3-2017)

Compatible SRLs and SRLRs for recovery (approved to ANSI Z359.14-2014). Hand winch (approved to ANSI Z359.4) hand winch must be used with secondary back up. This unit is not suitable for use in explosive atmospheres. When making connections with TR3, eliminate all possibility of roll-out. Roll-out occurs

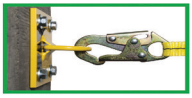
when interference between a hook and the attachment point causes the hook gate to unintentionally open

and release. All connections must be selected and deemed compatible with TR3 by a Competent

Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 3,600 lbs.

See the diagram below for examples of compatible/ incompatible connections.

Connector closed and locked to D-ring. **OK.**

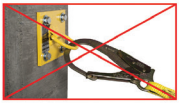


Connector to integral lanyard. **NO.**

Two connectors to same D-ring. **NO.**

Connector directly to webbing. **NO.**

Incompatible or irregular application, which may increase risk of roll-out. **NO.**



Connector directly to horizontal lifeline. **NO.**

Two or more snap hooks or carabiners connected to each other. **NO.**

Labeling

Manufactured in the UK by Checkmate Lifting & Safety Ltd
www.checkmateuk.com

Model #: 32200 DOM: [_ _ _ _ _ _] Serial #: [_ _ _ _ _ _]

ANSI Z359.18-2017 & A10.32-12 / OSHA 1926 Sub M & 1910
Type A Anchorage connector
Only make compatible connections
5,000 lb. MBS (min. breaking strength).
Min. service temperature: -30˚ F
Inspect prior to each use. Competent person must inspect and record at least every 12 months

⚠ WARNING

Manufacturer's instructions supplied with product must be followed at all times. Alteration or misuse of this product, or failure to follow instructions, may result in serious injury or death. Avoid contact with hazards, including, but not limited to, heat, chemicals, electricity, and sharp or abrasive edges and surfaces.

PPELAB-333 IS4

PPELAB-405 ISS 4

Prior to use, read and understand all manufacturer's instructions provided with equipment at time of shipment from manufacturer.

Compliant with OSHA 1910, OSHA 1926 Subpart M, ANSI Z359.18-2017 and ANSI A10.32-12.

Rated for one worker, or two workers during assisted rescue. Each worker must attach to a separate connection point.

Worker capacity range (including all equipment): 130-310 lbs.
If used in assisted rescue, maximum combined worker capacity is 620 lbs.
If used for equipment hoisting, maximum equipment weight is 551 lbs./250 kg.

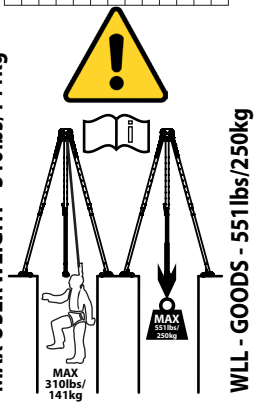
All equipment used in combination with TR3 MUST be selected and deemed compatible by Competent Person.

Keep away from all potential hazards including, but not limited to, heat, electricity, chemicals, and sharp or abrasive edges and surfaces.

Inspect prior to EACH use. Competent Person must inspect at least every 12 months.

INSPECTION GRID

	J	F	M	A	M	J	J	A	S	O	N	D
YR												
YR												
YR												
YR												
YR												



Record Card

SERIAL NO:

DATE OF FIRST USE:

PRODUCT CODE:

USER:

DATE	CONDITION OF SYSTEM	INSPECTED BY

UM-131_PSGTR3_ISO

CHECKMATE

Approved service company:

Checkmate Lifting & Safety Ltd, Sheerness, Kent. England. ME12 1PZ, UK
Tel: +44 (0)1795 580333 Fax: +44 (0)1795 668280 sales@checkmateuk.com www.checkmateuk.com