

EN: Warning! Working at height, rock climbing, mountaineering and related activities are inherently dangerous. It is the responsibility of any person using this equipment to learn and practice the proper techniques for use of the equipment for its designated purposes safely and to foresee and take appropriate action in situations where rescue may be required. Even the correct use of equipment and techniques may result in fatal consequences. Medical conditions can affect the safety of the equipment user in normal and emergency use. Any person using this equipment assumes all risks and full responsibility for all damages or injury which may result from the use of it. It is impossible to cover all methods of use. The following instructions and pictograms show some of the common correct and incorrect methods of use; it is impossible to predict them all. There is no substitute for instruction by a trained and competent person.

USER INSTRUCTIONS
IMPORTANT: Please read and understand this information before use, and retain this information for future reference.

General Information
 1. These instructions cover the use of DMM Revolver Rig connectors, conforming to one or more international standards. Refer to product for details. If in doubt please contact your supplier or DMM.

2. This product may be used in conjunction with any appropriate item of Personal Protective Equipment (PPE) relevant to European Union Directive 89/686/EEC / PPE Regulation (EU) 2016/425. It may be acceptable for use in other applications, please consult your supplier. **RISK** This PPE is designed to protect against falls from height.

3. Immediately before use, visually/functionally inspect to ensure that this product is in a serviceable condition and operates correctly. This inspection should be recorded on the inspection form supplied. We recommend a thorough inspection at least once every 6 months by a competent person (this may be the manufacturer).

4. **Personal Issue:** this product may be issued for personal use, and may be used either separately or as part of a system.

5. Lives depend on your equipment. The user should be aware of its history (use, storage, inspection etc.). If this equipment is not for personal use, we strongly recommend a systematic approach to record keeping. This should always be carried out by a competent person.

6. **WARNING:** If you are in any doubt about the safe condition of this product, replace it immediately.

7. **WARNING EN362:2004:** If this product has been used to arrest a fall it should be withdrawn from use and destroyed. 8. Ensure that the instructions for other components used in conjunction with this product are complied with. It is the user's responsibility to ensure that he/she understands the correct and safe use of this product.

9. This product is designed for use in normal climatic conditions (-40°C - +50°C). It may be suitable for other conditions, please consult your supplier.

10. No responsibility will be accepted by DMM for damage, injury or death resulting from misuse. If in doubt contact your supplier or DMM.

11. No special transportation precautions are necessary; however, avoid all contact with chemical reagents or other corrosive substances.

12. Care must be taken to avoid loading this product over edges and other obstructions. Check the anticipated orientation during loading before use.

13. **Captive Bar Use.** The twin sheaved Revolver Rig **MUST** always be used with the captive bar correctly positioned. The single sheaved Revolver Rig can be used with or without the captive bar in place (see configuration diagrams)

14. **Speed.** When the Revolver Rig is moving along a fixed line, ensure a controlled travel speed less than or equal to 2m/s (Examples of Use 6.). In other applications the maximum speed of rope should be limited to less than or equal to 20m/s (Examples of Use 1.)

15. **Anchor.**

15.1 The anchorage point of the fall arrest system should be above the position of the user and conform to EN795:2012 and have a minimum strength of 12kN.

15.2 Positioning of the anchorage point is crucial for safe fall arrest and this must take into account the anticipated fall distance including rope stretch, the deployment of the shock absorption system (where used) and the length of the connector so that obstructions (such as the ground) may be safely avoided.

15.3 Mountaineering: the user is advised that the security of any rock, snow or ice (or any combination of them) anchorage point (belay) natural or unnatural cannot be guaranteed as safe and therefore good judgment by the user is a necessity in order to obtain adequate protection.

16. **EN362:2004**

16.1. All connectors are tested using steel pins of diameter 12mm, if in doubt check compatibility of mating parts before use. Care must be taken if this connector is likely to be loaded using wide straps (>12mm wide) as this may reduce the strength of the connector if loading occurs. If in doubt please consult your supplier or DMM.

16.2. Manual Locking connectors (screwgate) should be used only where the user does not have to attach and remove the connector many times during a working day.

17. **Maintenance and Servicing:** This product must not be marked, modified or repaired by the user unless authorised by DMM. **Note:** this product is not user maintainable with the exception of the following:

17.1 **Disinfection:** disinfect using a disinfectant containing quaternary ammonium compounds reinforced with chlorhexidine (e.g. Savlon) in sufficient quantities to be effective. Soak the product for 1 hour at dilutions recommended for general use using clean water as per (17.2) not exceeding 25°C then rinse thoroughly as per (17.2).

17.2 **Cleaning:** if soiled rinse in clean warm water of domestic supply quality (maximum temperature 25°C) with mild detergent at appropriate dilution (pH range 5.5 - 8.5). Thoroughly rinse and dry naturally in a warm ventilated room away from direct heat. Important: Cleaning is recommended after every use in a marine environment.

17.3 **Lubrication:** Lubricate the gate mechanism with a suitable lubricating oil. This should be carried out after cleaning. Cleaning and lubrication may cure a dysfunctional mechanism, if it does not, replace the product immediately. After cleaning Lubrication is recommended after every use in a marine environment.

NOTE: Sheaves use sealed-for-life bearings and do not require subsequent lubrication.

17.4 **Storage:** after any necessary cleaning store unpacked in a cool, dry, dark place in a chemically neutral environment away from excessive heat or heat sources, high humidity, sharp edges, corrosives or other possible causes of damage. Do not store wet.

18. **Lifespan and Obsolescence.**

18.1 **Lifespan:** this is the maximum life of the product, subject to detailed conditions, that the Manufacturer recommends that the product should remain in service.

Maximum Lifespan: Textile & Plastic Products – 10 years from date of manufacture. Metal Products – no time limit.

Note: This may be as little as one use, or even earlier if damaged (e.g. in transit or storage) prior to first use. For the product to remain in service it must pass a visual and tactile inspection when considering the following criteria: fall arrest, general wear, chemical contamination, corrosion, mechanical malfunction/ deformation, cracks, loose rivets, loose strands of wire, frayed and/or bent wire, heat contamination (over normal climatic conditions), cut stitching, frayed tape, degradation of tape and/or thread, loose threads in tape, prolonged exposure to U.V., clear and readable marking (e.g. marking, batch reference, individual serial numbers etc.).

Where such products are permanently attached to other products in a system, please refer to the manufacturer recommendations of the complete system.

18.2 **Obsolescence:** a product may become obsolete before the end of its lifespan. Reasons for this may include changes in applicable standards, regulations, legislation, development of new techniques, incompatibility with other equipment etc.

19. **European Union Type Examination:** EU type examination for this product is carried out by Notified Body No. 0120: S.G.S. (UK) Ltd., Worle Parkway, Weston- Super-Mare, Somerset, BS22 6WA, U.K.

20. **CE/EU Declaration of Conformity:** dmmwales.com

21. **Explanation of Markings:**
 DMM Wales UK - Name of manufacturer/country of origin.
 xxxN - EN362:2004 - Strength rating, ←→ major axis gate closed (loading along spine with gate closed and locked).
 CE0120 - CE mark (notified body number and CE mark).
 YRDAYXXX# - Year/Day of manufacture and individual serial number.

Book Pictogram - reminder that the end user should read & understand these Instructions, and those supplied with other items of PPE which may be used in conjunction with this item.

RFID http://dmmprofessional.com/documents/productinfo/id_info_sheet.pdf

Single Sheave WLL = 5kN
Double Sheave WLL = 5kN
 WLL = Working Load Limit

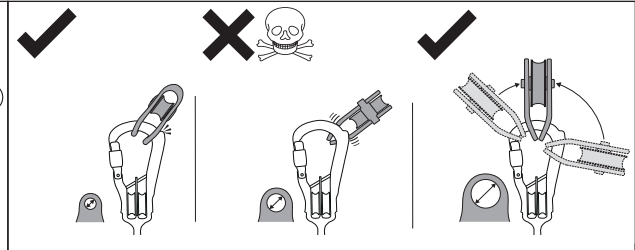
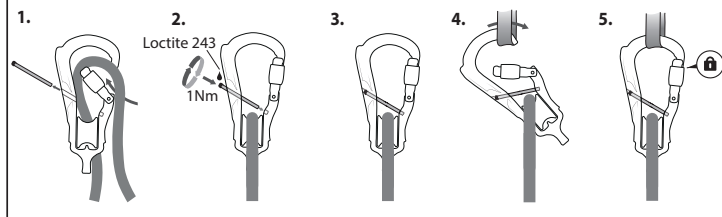
EN362:2004/B,T - European Standard and Class of connector - Single Sheave Revolver Rig
EN362:2004/T - European Standard and Class of connector - Double Sheave Revolver Rig
EN12278:2007 - European Standard to which the device conforms.
 Axxx - Product Code
 Ø = xx - xx mm: Maximum rope diameter to be used in pulley.
22. CE/EU Declaration of Conformity: dmmwales.com

Guarantee: DMM guarantees this product for 3 years against any defects in materials or manufacture. The guarantee does not cover this product for normal wear through usage, incorrect storage, poor maintenance, accidental damage, negligence, any modifications or alterations, corrosion, or for any usage for which the product was not designed.

WARNING: If a carabiner or quickdraw is left 'fixed' on a rock face or any other structure it could be subject to very high levels of wear, abrasion, weathering and/or corrosion. These factors can produce sharp edges on the carabiner which may damage/cut a rope. The same factors may also reduce the strength of carabiners and textile components which may catastrophically fail causing injury or death. If fixed carabiners or quickdraws are to be used, e.g. on a climbing wall, thorough inspection by a competent person should be undertaken in a systematic way.

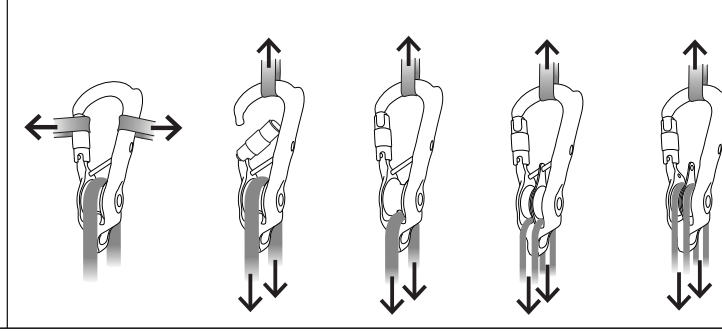
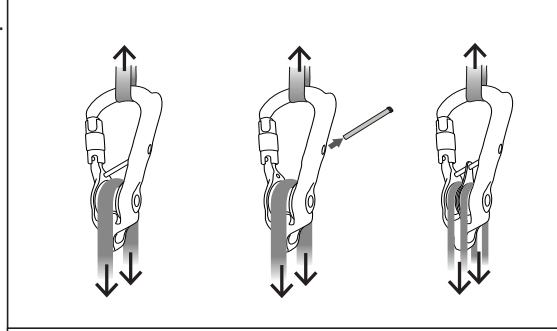
| Revolver Rig Connectors | | | | | | | | |
|-------------------------|----------------------------|---------|------|---------------|------------------|-----------------|-------------|-----------------|
| Cat. No. | Dual Sheave/ Single Sheave | EN | EN | ASSE/ Z359.12 | CAI/ CSA 2559.12 | NFPA 1983: 2012 | Strength kN | Gate Opening mm |
| | | A5821CB | SS | 2004 | 2007 | - | | |
| A5822CB | DS | 2004 | 2007 | - | - | - | 25 | 23 |
| A5831CB | SS | 2004 | 2007 | - | - | - | 25 | 22 |
| A5832CB | DS | 2004 | 2007 | - | - | - | 25 | 22 |
| A5841CB | SS | 2004 | 2007 | - | - | - | 25 | 21 |
| A5842CB | DS | 2004 | 2007 | - | - | - | 25 | 21 |
| A5871CB | SS | 2004 | 2007 | - | - | - | 25 | 22 |
| A5872CB | DS | 2004 | 2007 | - | - | - | 25 | 22 |

Installing the Revolver Rig



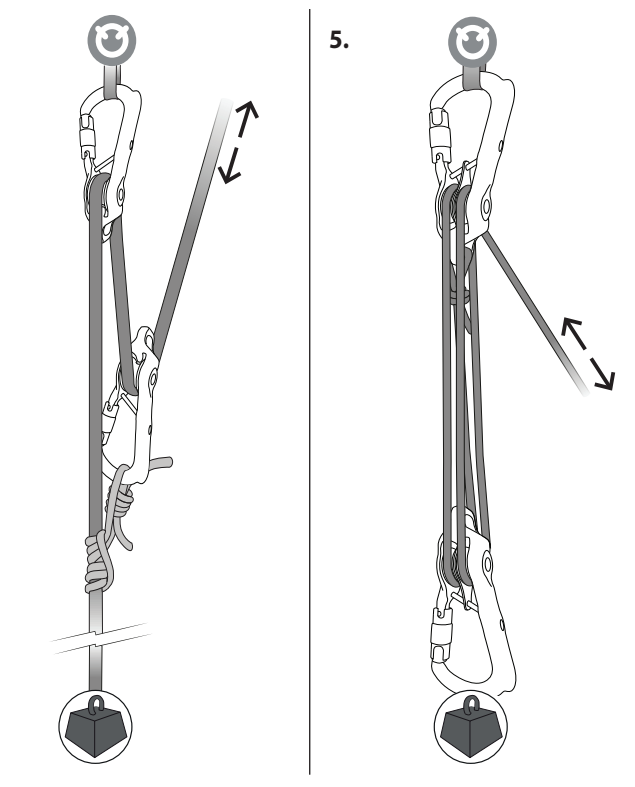
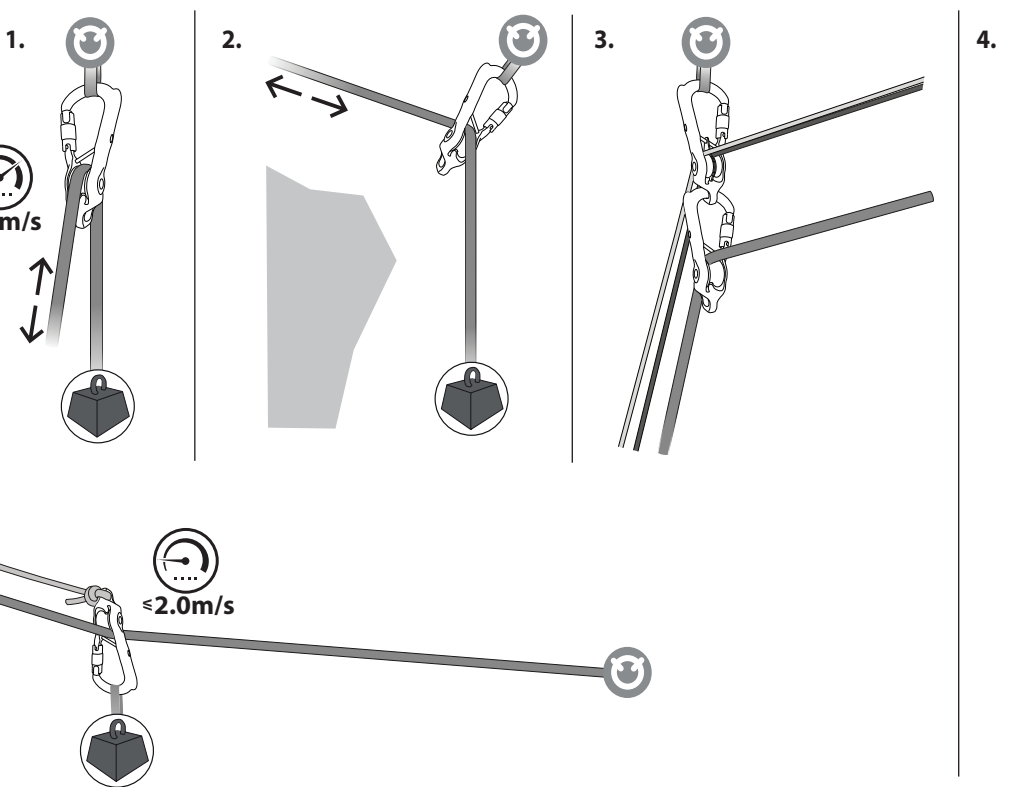
Correct Configuration
 EN Correct loading with gate mechanism secured shut.
 FR Chargement correct avec mechanisme de fermeture ferme.
 DE Richtige Belastung bei gesichertem Verschlussmechanismus.
 IT Corretto carico con il meccanismo della leva correttamente chiuso.
 ES Dirección de carga correcta con mecanismo de gatillo cerrado.
 PT Carregamento correto com mecanismo de gatilho fixado na posição fechada.
 NL Correcte belasting met gesloten sluitingsmechanisme.

Incorrect Configuration
 EN Incorrect Loading.
 FR Chargement incorrect.
 DE Falsch Belastung.
 IT Carico incorretto.
 ES Carga incorrecta.
 PT Carregamento incorreto.
 NL Onjuiste belasting.



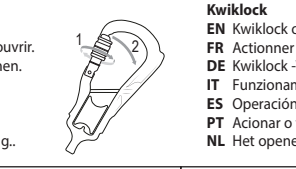
Examples of Use

EN Examples of use.
 FR Exemples d'utilisation.
 DE Anwendungsbeispiele
 IT Esempi di utilizzo
 ES Ejemplos de uso
 PT Exemplos de uso.
 NL Voorbeelden van gebruik.

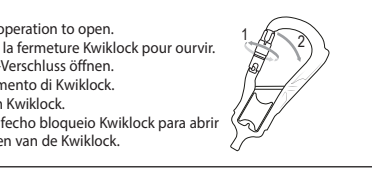


Operations EN - Operations, FR - Fonctionnement, DE - Bedienung, IT - Operazioni, ES - Operaciones, PT - Operações, NL - Gebruik

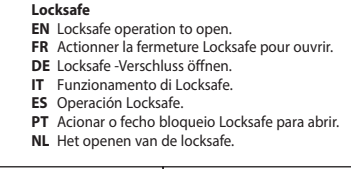
Screwgate
 EN Screwgate operation to open.
 FR Actionner la fermeture a vis pour ouvrir.
 DE Schraubkarabiner-Verschluss öffnen.
 IT Funzionamento gambo a vite
 ES Operación de dedo tornillo.
 PT Desenroscar o gatilho para abrir
 NL Het openen van de schroefsluiting.



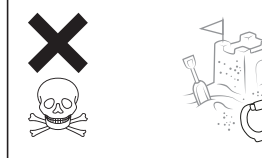
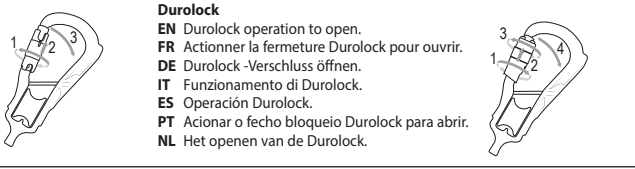
Kwiklock
 EN Kwiklock operation to open.
 FR Actionner la fermeture Kwiklock pour ouvrir.
 DE Kwiklock -Verschluss öffnen.
 IT Funzionamento di Kwiklock.
 ES Operación de dedo tornillo.
 PT Acionar o fecho bloqueio Kwiklock para abrir
 NL Het openen van de Kwiklock.



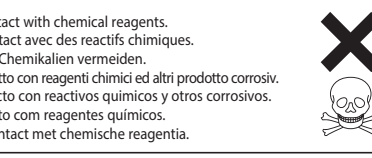
Locksafe
 EN Locksafe operation to open.
 FR Actionner la fermeture Locksafe pour ouvrir.
 DE Locksafe -Verschluss öffnen.
 IT Funzionamento di Locksafe.
 ES Operación Locksafe.
 PT Acionar o fecho bloqueio Locksafe para abrir.
 NL Het openen van de Locksafe.



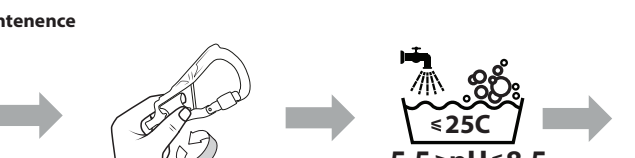
Durolock
 EN Durolock operation to open.
 FR Actionner la fermeture Durolock pour ouvrir.
 DE Durolock -Verschluss öffnen.
 IT Funzionamento di Durolock.
 ES Operación Durolock.
 PT Acionar o fecho bloqueio Durolock para abrir.
 NL Het openen van de Durolock.



EN Prevent contact with chemical reagents.
 FR Eviter le contact avec des reactifs chimiques.
 DE Kontakt mit Chemikalien vermeiden.
 IT Evitare contatto con reagenti chimici ed altri prodotto corrosiv.
 ES Evitar contacto con reactivos quimicos y otros corrosivos.
 PT Evite contacto com reagentes quimicos.
 NL Voorkom contact met chemische reagentia.



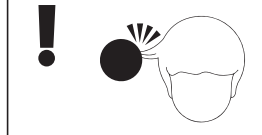
EN Avoid obstructions.
 FR Eviter les obstructions.
 DE Fehlbelastungen vermeiden.
 IT Evitare ostruzione.
 ES Evitar obstrucciones.
 PT Evite obstruções.
 NL Vermijd obstructies.



EN Do not use cable or chain.
 FR Ne pas utiliser cable/chaîne.
 DE Nicht verwenden kabel/keten.
 IT Non utilizzare cavo/catena.
 ES No utilizar con cable/cadena.
 PT Não use com cabo/corrente.
 NL Niet gebruiken kabel/kaede.

EN Do not mark or alter.
 FR Ne pas marquer ou modifier.
 DE Nicht markieren oder abändern.
 IT Non segnare o modificare.
 ES No marcar ni alterar.
 PT Não marque nem alterar.
 NL Niet markeken ofwijzigen.

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CE 0120 3σ ISO 9001 SGS F328A/QA/02/May.2018

| | |
|---|---|
| <p>EN - PRIOR TO USE THE USER IS OBLIGED TO COMPLETE THE FOLLOWING INFORMATION - User's Name: Place of Purchase: Date of Purchase: Date First Used. FR - COMPLETER OBLIGATOIREMENT LE BULLETIN CI-APRES L'EMPLOI - Nom: Point d'Achat: Date d'Achat: Date du Premier Emploi. DE - VOR GEBRAUCH SIND VOM ANWENDER FOLGENDE ANGABEN ZU MACHEN - Name des Anwenders: Einkaufs Ort: Kaufdatum: Datum der Ersten Benutzung. IT - PRIMA DELL'USO, L'UTENTE HA L'OBBLIGO DI COMPIERE LE INFORMAZIONI SEGUENTI - Nome dell'Utente: Luogo di Acquisto: Data di Acquisto: Data di Primo Impiego. ES - ANTES DE UTILIZAR, EL USUARIO DEBERA RELLENAR LA INFORMACION SIGUIENTE - Nombre del Usuario: Lugar de Compra: Fecha de Compra: Fecha del Primer Uso. PT - ANTES DA UTILIZAÇÃO, O UTILIZADOR É OBRIGADO A COMPLETAR AS SEGUINTE INFORMAÇÕES - Nome do Utilizador: Local de Compra: Data da Compra: Data da Primeira Utilização. NL - VOORDAT HET IN GEBRUIK WORDT GEVOEN, IS DE GEBRUIKER VERPLICHT DE VOLGENDE GEGEVENS IN TE VULLEN - Naam van Gebruiker: Plaats van Aankoop: Datum van Aankoop: Datum van Eerstgebruik.</p> | |
| <p>EN - Date Inspected FR - Date Contrôle DE - Inspektionsdatum IT - Data di Ispezione ES - Fecha de Inspección PT - Data Inspeccionada NL - Inspectiedatum</p> | <p>EN - Inspection Form Comments/Actions FR - Bulletin de Contrôle Observations/Actions DE - Inspektionsformular Kommentare/Maßnahmen IT - Modulo di Ispezione Commenti/Azione ES - Hoja de Inspección Comentarios/acción PT - Formulário de Inspeção Comentários / ações NL - Inspectieformulier Commentaar/acties</p> |
| <p>EN - Signature FR - Signature DE - Unterschrift IT - Firma ES - Firma PT - Assinatura NL - Handtekening</p> | <p>EN - OK (Yes/No) FR - OK (oui/Non) DE - OK (Ja/Nein) IT - OK (Sì/No) ES - OK (Si/No) PT - OK (sim/não) NL - OK (Ja/Nein)</p> |

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Revolver Rig
 EN362:2004
 EN12278
 EN, FR, DE, IT, ES, PT, NL

