

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 Pulleys, conforming to one or more international standards. 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 (e.g. used in mountaineering centres), 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:** 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). Wet and icy conditions will not reduce the strength of this product. 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. **anchors.**

13.1 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.

13.2 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.

13.3 **Mountaineering:** the user is advised that the security of any rock, snow or ice (or any combination of these) 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.

14. **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:

14.1 **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 (14.2) not exceeding 25°C then rinse thoroughly as per (14.2).

14.2 **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.

14.3 **Lubrication:** See Fig. 4d. This should be done every 1000 hours of use or every year, if applicable. Lubricate with an SAE 30 mineral oil. Lubricate the pulley bearing liberally and allow to soak in. This should be carried out after cleaning.

14.4 **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.

15. **Lifespan and Obsolescence.**

15.1 **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.

15.2 **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.

16. **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, UK.

17. **Explanation of Markings**

DMM Wales UK - Name of manufacturer/country of origin.

PULXXX - Product code.

Max Rope Ø xmm: Maximum rope diameter to be used in pulley.

MBS xxkN - Minimum breaking strength.

WLL xxkN - Working Load limit.

EN12278:2007 - European Standard to which the device conforms.

MEETS NFPA 1983 (2017 ED) CLASS G/T - National Fire Protection Association (US) standard to which device conforms (where applicable). Additional information regarding auxiliary equipment can be found in NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1983, Standard on Life Safety Rope and Equipment for Emergency Services.

CE0120 - CE mark (notified body number and CE mark).

YRDAYXXXX# - 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 www.dmmwales.com/id

UL certifying body for NFPA 1983 (2017ED)

18. CE/EU Declaration of Conformity: dmmwales.com/EU-DoC

MEETS THE PULLEY REQUIREMENTS OF NFPA 1983, STANDARD ON LIFE SAFETY ROPE & EQUIPMENT FOR EMERGENCY SERVICES, 2017 EDITION. Emergency Services Pulley in Accordance with NFPA 1983-2017. ADDITIONAL INFORMATION REGARDING PULLEYS CAN BE FOUND IN NFPA 1500 AND NFPA 1983.

Guarantee: DMM guarantees this product for 3 years against any defects in materials or manufacturing. 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.

1. Pinto Pulley Pinto Rig Pulley Gyro Pulleys

PUL110 PUL120 PUL231 PUL230 PUL241

2.

EN Loading the pulley
FR Chargement de la poulie.
DE Laden der Seilrolle.
IT Caricamento della puleggia.
ES Carga de la polea.
PT Carregamento da polia.
NL Het laden van de katrol.

3.

4.

EN Prevent contact with chemical reagents.
FR Évitez les contacts avec des réactifs chimiques.
DE Kontakt mit Chemikalien vermeiden.
IT Impedire il contatto con reagenti chimici.
ES Evite el contacto con activos químicos.
PT Evite contacto com reagentes químicos.
NL Voorkom contact met chemische reagentia.

5.

EN Inspection and Maintenance.
FR Inspection et maintenance.
DE Inspektion und Wartung.
IT Ispezione e manutenzione.
ES Inspección y mantenimiento.
PT Inspeção e Manutenção.
NL Inspectie en onderhoud.

4.

EN Do not mark or alter. Not user repairable.
FR Ne faites aucune marque sur le dispositif et ne le modifiez pas. Non réparable par l'utilisateur.
DE Nicht markieren oder abändern. Kann nicht vom Anwender repariert werden.
IT Non segnare o alterare. Non riparabile dall'utente.
ES No lo marque o ltere. Este producto no es reparable.
PT Não marque nem altere. Não reparáveis pelo utilizador.
NL Niet markeer ofwijzigen. Niet te repareren door de gebruiker.

5.

EN Inspection and Maintenance.
FR Inspection et maintenance.
DE Inspektion und Wartung.
IT Ispezione e manutenzione.
ES Inspección y mantenimiento.
PT Inspeção e Manutenção.
NL Inspectie en onderhoud.

5.5 ≥ pH ≤ 8.5

PUL110	✓
PUL120	✗
PUL230	✗
PUL231	✗
PUL241	✗

6. Pinto, Pinto Rig Pulley

EN Attaching the pulley
IT Fissaggio della puleggia
NL Bevestigen van de poelie

FR Fixation de la poulie
ES Acoplar la polea
DE Befestigung der Seilrolle
PT Fixação da polia.

a. i. Pinto Pulley ii. Pinto Rig Pulley

b. Pinto, Pinto Rig Pulley

DMM Ultra O DMM Boa DMM Perfecto

Pinto, Pinto Rig Pulley

c. d. e.

Pinto, Pinto Rig Pulley

f. g. h.

7. Gyro Pulley

i. j.

k. l.

Products compliant with NFPA 1983:2017ED

Product	Cat. No.	MBS(kN)	Class
Gyro	PUL230-ID	50	G
Gyro PM	PUL231-ID	50	G
Gyro Twin	PUL241-ID	50	G
Pinto	PUL110	50	G
Pinto Rig	PUL120	50	G

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CE 0120

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 - COMPLÉTER OBLIGATOIREMENT LE BULLETIN CI-DESSOUS: Nom: Point d'achat: Date d'achat: Date du Premier Emploi.

DE - VOR GEBRAUCH SIND VOM ANWENDER FOLGENDE ANGABEN ZU MACHEN. - Name des Anwenders: Verkaufsort: Kaufdatum: Datum der Ersten Benützung.

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 DEBERÁ RELENAR LA INFORMACIÓN SIGUIENTE. - Nombre de Usuario: Lugar de Compra: Fecha de Compra: Fecha del Primer Uso.

PT - ANTES DA UTILIZAÇÃO, O UTILIZADOR DEVERÁ COMPLETAR AS SEGUINTE INFORMACIONES. - Nome do Utilizador: Local de Compra: Data da Compra: Data da Primeira Utilização.

NL - VOOR DAT HET IN GEBRUIK WORDT GEKOMEN, IS DE GEBRUIKER VERPLICHT DE VOLGENDE GEGEVENS IN TE VULLEN. - Naam van de Gebruiker: Plaats van Aankoop: Datum van Aankoop: Datum van Eerst Gebruik.

EN	FR	DE	IT	ES	PT	NL
-Signature	-Signature	-Unterschrift	-Firma	-Assinatura	-Handtekening	
-0120 (Yes/No)	-0120 (Oui/Non)	-0120 (Ja/Nein)	-0120 (Sì/No)	-0120 (Sim/Não)	-0120 (Ja/Nein)	
-INSPECTION FORM Comments/Actions	-BULLETIN DE CONTRÔLE Observations/Actions	-INSPEKTIONSFORMULÄR Kommentare/Maßnahmen	-MODULO DE INSPEZIONE Commenti/Azioni	-HOJA DE INSPECCIÓN Comentarios/Acción	-FORMULÁRIO DE INSPEÇÃO Comentários/ ações	-INSPECTIEFORMULIER Commentaar/Gedaan
-Date Inspected	-Date Contrôlé	-Inspektionsdatum	-Fecha de Inspección	-Data de Inspeção	-Data Inspectat	

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EN, FR, DE, IT, ES, PT, NL

