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USER INSTRUCTION MANUAL  
**IRSQ PULLEYS**

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODELS:

AFX206001, AFX206002, AFX206003, AFX206005, AFX206007,  
AFX206008, AFX206015, AFX206016 and AFX206017

 **0598**  
EN 12278:2007



II 2G  
Ex h IIc T6 Gb  
EN 80079-36:2016  
EN 80079-37:2016

Please read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the user's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

**Note:** The user is advised to keep this user instructions document for the life of the product.

1. **INTRODUCTION:** Pulleys are classed as Personal Protective Equipment (PPE) by the European PPE Regulation (EU)2016/425 and has been shown to comply with this Regulation through the Harmonized European Standard EN12278:2007.

These Pulleys are designed to minimise the risk of/provide protection against the danger of falling from heights. However, always remember that no item of PPE can provide full protection and care must always be taken while carrying out the risk related activity.

2. **DESCRIPTION:**

PRODUCT CODE	DESCRIPTION	M.B.S
AFX206001	SS. Single Pulley Single Side Attachment	40kN
AFX206002	SS. Double Aluminum Pulley c/w Double Side Attachment	40kN
AFX206003	SS. Single Aluminum Pulley c/w Double Side Attachment	40kN
AFX206005	SS. Single Mini Pulley Single Side Attachment	30kN
AFX206007	SS. Single Mini Pulley c/w double attachment	30kN
AFX206008	SS. Double Mini Aluminum Pulley c/w double attachment	25kN
AFX206015	Single Forged Aluminum Pulley	65kN
AFX206016	Forged Aluminum Double Pulley	45kN
AFX206017	Triple Attachment Single Forged Pulley	45kN

2. **PERFORMANCE AND LIMITATIONS OF USE:**

These pulleys have been tested in accordance with EN 12278:2007 and have achieved the following performance levels as laid down in the norm.

EN 12278:2007 test	Result/Comment															
Design (Clause 4.1)	Pulley incorporates an attachment point which can accommodate a pin of at least 12 mm diameter Pass) Pulley does allow a 13 mm pin to touch the base of sheave (Pass) No sharp edges burrs that could cause additional risk to the user (Pass)															
Strength (Clause 4.2)	Under a force of 2 kN, the sheave can be rotated (Pass) Peak Force reached without failure as following- (Pass)															
	<table border="1"> <thead> <tr> <th>AFX206005</th> <th>AFX206001</th> <th>AFX206003</th> <th>AFX206002</th> </tr> </thead> <tbody> <tr> <td>30kN</td> <td>40kN</td> <td>40kN</td> <td>40kN</td> </tr> <tr> <td>Ø=12mm</td> <td>Ø=16mm</td> <td>Ø=16mm</td> <td>Ø=16mm</td> </tr> </tbody> </table>	AFX206005	AFX206001	AFX206003	AFX206002	30kN	40kN	40kN	40kN	Ø=12mm	Ø=16mm	Ø=16mm	Ø=16mm			
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**2. INSTRUCTIONS FOR USAGE**

**For single pulley :**

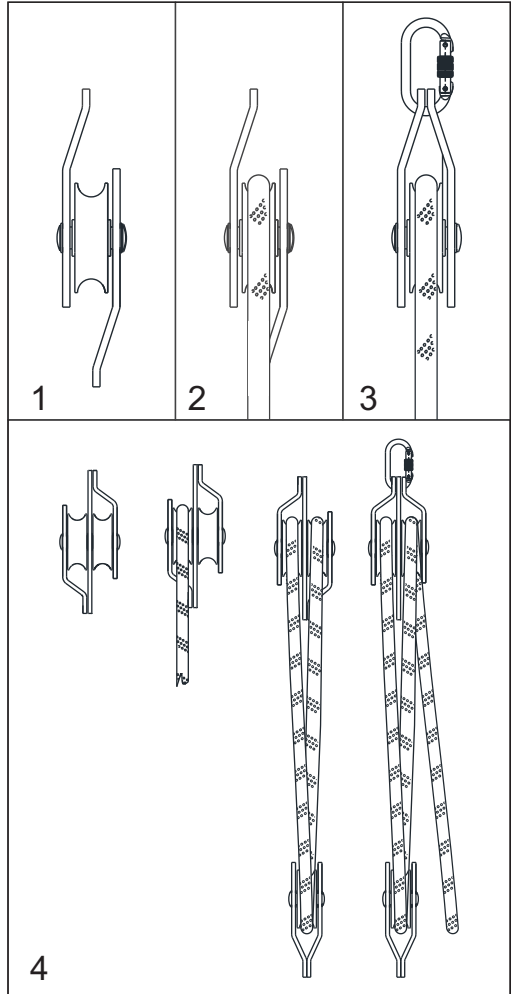
- Rotate the mobile flange of the pulley in opposite direction of the fixed flange
- Make a loop of the rope and put it on the sheave of the pulley.
- Rotate back the mobile flange at it's initial stage and connect the attachment ends of both flanges with help of a karabiner.
- Wet and icy conditions may cause the rope to become slippery. Extra care should be taken when using pulleys under these conditions.

**For double pulley:**

- Rotate one side of mobile flange of the pulley in opposite direction of the middle plate of pulley.
- Make a loop of the rope and put it on sheave of the pulley.
- Pass the rope from other side of pulley of the 3:1 or 5:1 system.
- Now rotate other side of the mobile flange of double pulley in opposite direction & insert the rope as per shown in Figures.
- Rotate back the mobile flange at it's initial stage and connect the attachment ends of both flanges with help of a karabiner.

**3. ADVICE & INFORMATION:**

- It should be the personal property of it's user.
- It should not be used in highly acidic or basic environment.
- The pulley has been tested to EN 12278:2007 and is appropriate only for single person use with an energy absorber as per EN 355:2002.
- Ensure that the structure on to which the anchor is fitted is strong enough to withstand a load of 12 kN.
- Ensure that the equipment is compatible with other items when assembled into a system.
- It is essential for the safety of the user that if the product is resold outside the original country of destination, the reseller shall provide instruction for use, maintenance, for periodic examination and for repair in the language of the country in which product is to be used.
- This is advised that Annual inspection should be done by competent person.



**4. WARNING:**

- Ensure that the medical condition of the user does not affect his safety in normal and emergency use.
- The equipment shall only be used by a person trained and competent in its safe use.
- A rescue plan shall be in place to deal with any emergencies that could arise during the work.
- Do not make any alteration or additions to the equipment without the manufacturer's prior written consent and repair shall only be carried out by personnel trained by the manufacturer & duly authorized by him.
- The equipment shall not be used outside its limitation, or for any purpose other than that for which it is intended.
- User must check for the legibility of product marking before each & every use
- Only the models with the Ⓢ marking on the product itself are suitable for use in an Explosive Atmosphere.
- Following conditions may be hazardous & may affect the performance of pulley-
  - Extreme temperature.
  - Trailing or looping of Lanyards over sharp edges.
  - Extreme acidic or basic environments.
  - Abrasive or sharp edge structures which can damage the equipment.
  - Chemical reagents.
  - Climatic exposure.

**5. INSPECTION :** Visually inspect the system before each use to ensure that it is in a serviceable condition and is operating correctly. If during inspection, doubts are raised about the safety of the system or a component, these should be replaced either by the manufacturer or a competent person.

**6. COMPATIBILITY :** To optimise protection, in some instances it may be necessary to use the anchor with suitable ppe such as boots/ gloves/ helmet/ ear defenders. In this case, before carrying out the risk-related activity, consult your supplier to ensure that all your protective products are compatible and suitable for your application.

**7. STORAGE AND TRANSPORT:** When not in use, store the pulley in a well-ventilated area away from heavily acidic or basic environment. Never place heavy items on top of it. Also ensure that it is stored away from chemically hazardous environment preferably storage should be in dry environment. Ensure that manufacturer's packing is used during transportation to prevent damage. In case original packing is not available, use polybag which is sealed to prevent moisture

**8. REPAIR :** If the product becomes damaged, it will NOT provide the optimum level of protection, and therefore should be immediately removed from service. Never use the damaged product. Repair is permitted, provided that it is either done by the manufacturer or a competent repair centre or individual approved by the manufacturer.

**9. CLEANING :** In case of minor soiling, wipe the anchor with cotton cloth or a soft brush. Do not use any abrasive material. For intensive cleaning wash the anchor in water at a temperature between 30°C to 60°C by using a neutral detergent (pH 7). The washing temperature should not exceed 60°C. Do not use acidic or basic detergents

**10. WITHDRAWAL FROM USE :** If the system has been used to arrest a fall, it should be removed from service and returned to the manufacturer or a competent repair centre for servicing and retest.

## MARKINGS

Front	<b>AFX206001</b> CE 0598 Ø=16mm EN 12278:2007 MM/YY <small>EN 12278:2007 EN 12278:2007 EN 12278:2007</small>	<b>AFX206005</b> CE 0598 Ø=12mm EN 12278:2007 MM/YY <small>EN 12278:2007 EN 12278:2007 EN 12278:2007</small>	<b>AFX206008</b> CE 0598 Ø=12mm EN 12278:2007 MM/YY <small>EN 12278:2007 EN 12278:2007 EN 12278:2007</small>	<b>AFX206007</b> CE 0598 Ø=12mm EN 12278:2007 MM/YY <small>EN 12278:2007 EN 12278:2007 EN 12278:2007</small>	
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The Pulleys are marked with:-

- i) Type or product code.
- ii) The CE Mark showing that the product meets the requirements of the PPE Regulation (EU)2016/425 .
- iii) Maximum load.
- iv) Identification of manufacturer.
- v) EN Norms to which it complies.
- vi) Compatible Rope Diameter.

**LIFESPAN:** The estimated product Lifespan is 10 years from the date of manufacture. The following factors can reduce the Lifespan of the product: intense use, contact with chemical substances, specially aggressive environments, extreme temperature exposure, UV exposure, abrasions, cuts, violent impacts, bad use or maintenance.

**DISCLAIMER:** Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on the proper usage of the product. Manufacturer is not liable or responsible for any loss, damage or injury caused or incurred by any person on grounds of improper usage or installation of this product.

<b>EQUIPMENT RECORD</b>				
Product				
Model & type/identification		Trade Name	Identification number	
Manufacturer		Address	Tel, email into use	
Year of manufacture		Purchase Date	Date first put into use	
Other relevant information (eg. document number)				
<b>PERIODIC EXAMINATION AND REPAIR HISTORY</b>				
Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date



**Certification Body :**

SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)

**Ongoing Assessment Body:**

SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland (Notified Body 0598)

For EU Declaration, please visit <https://kstrong.com/asia/eu-declaration-form/>



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ASIA

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