

- a full body harness complied with EN 361 is the only acceptable body holding device that can be used in a fall arrest system.
- the anchor device or anchor point for the fall arrest system should always be positioned, and the work carried out in such a way, as to minimise both the potential for falls and potential fall distance. The anchor device/point should be placed above the position of the user. The shape and construction of the anchor device/point shall not allowed to self-acting disconnection of the equipment. Minimal static strength of the anchor device/point is 12 kN. It is recommended to use certified and marked structural anchor point complied with EN795.
- it is obligatory to verify the free space required beneath the user at the workplace before each occasion of use the fall arrest system, so that, in the case of a fall, there will be no collision with the ground or other obstacle in the fall path. The required value of the free space should be taken from instruction manual of used equipment.
- there are many hazards that may affect the performance of the equipment and corresponding safety precautions that have to be observed during equipment utilization, especially:
  - trailing or looping of lanyards or lifelines over sharp edges,
  - any defects like cutting, abrasion, corrosion,
  - climatic exposure,
  - pendulum falls,
  - extremes of temperature,
  - chemical reagents,
  - electrical conductivity.
- personal protective equipment must be transported in the package (e.g.: bag made of moisture-proof textile or foil bag or cases made of steel or plastic) to protect it against damage or moisture.
- the equipment can be cleaned without causing adverse effect on the materials in the manufacture of the equipment. For textile products use mild detergents for delicate fabrics, wash by hand or in a machine and rinse in water. Plastic parts can be cleaned only with water. When the equipment gets wet, either from being in use or during cleaning, it shall be allowed to dry naturally, and should be kept away from direct heat. In metallic products some mechanic parts (spring, pin, hinge, etc.) can be regularly slightly lubricated to ensure better operation.

Other maintenance and cleaning procedures should be adhered to detailed instructions stated in the manual of the equipment.

- personal protective equipment should be stored loosely packed, in a well-ventilated place, protected from direct light, ultraviolet degradation, damp environment, sharp edges, extreme temperatures and corrosive or aggressive substances.

IT IS THE RESPONSIBILITY OF THE USER ORGANISATION TO PROVIDE THE IDENTITY CARD AND TO FILL IN THE DETAILS REQUIRED.

THE IDENTITY CARD SHOULD BE FILLED IN BEFORE THE FIRST USE BY A COMPETENT PERSON, RESPONSIBLE IN THE USER ORGANIZATION FOR PROTECTIVE EQUIPMENT.

ANY INFORMATION ABOUT THE EQUIPMENT LIKE PERIODIC INSPECTIONS, REPAIRS, REASONS OF EQUIPMENT'S WITHDRAWN FROM USE SHALL BE NOTED INTO THE IDENTITY CARD BY A COMPETENT PERSON.

THE IDENTITY CARD SHOULD BE STORED DURING A WHOLE PERIOD OF EQUIPMENT UTILIZATION.

DO NOT USE THE EQUIPMENT WITHOUT THE IDENTITY CARD.

ALL RECORDS IN THE IDENTITY CARD CAN BE FILLED IN ONLY BY A COMPETENT PERSON.

## IDENTITY CARD

MODEL AND TYPE OF EQUIPMENT				
REF. NUMBER				
SERIAL NUMBER		DATE OF MANUF.		
USER NAME				
DATE OF PURCHASE		DATE OF PUTTING INTO OPERATION		
PERIODIC EXAMINATION AND REPAIR HISTORY				
DATE	REASON FOR ENTRY PERIODIC EXAMINATION OR REPAIR	DEFECTS NOTED, REPAIRS CARRIED OUT AND OTHER RELEVANT INFORMATIONS	NAME AND SIGNATURE OF COMPETENT PERSON	PERIODIC EXAMINATION NEXT DUE DATE



## Instruction Manual

READ CAREFULLY BEFORE USE  
THE EQUIPMENT

# Lanex

CE 0082 EN 12278 Ref.: XPTU420 / XPTU421

## PULLEY XPTU420 XPTU421

**WARNING:** Any activities at height are considered dangerous and may result in serious injuries or even death. The person using this equipment is responsible for any possible damage or consequences of an accident.

### 1. Definitions

**WLL** – Working Load Limit

**MBS** – Minimum Breaking Strength

**DF** – Design Factor

### 2. Basic parameters of the device

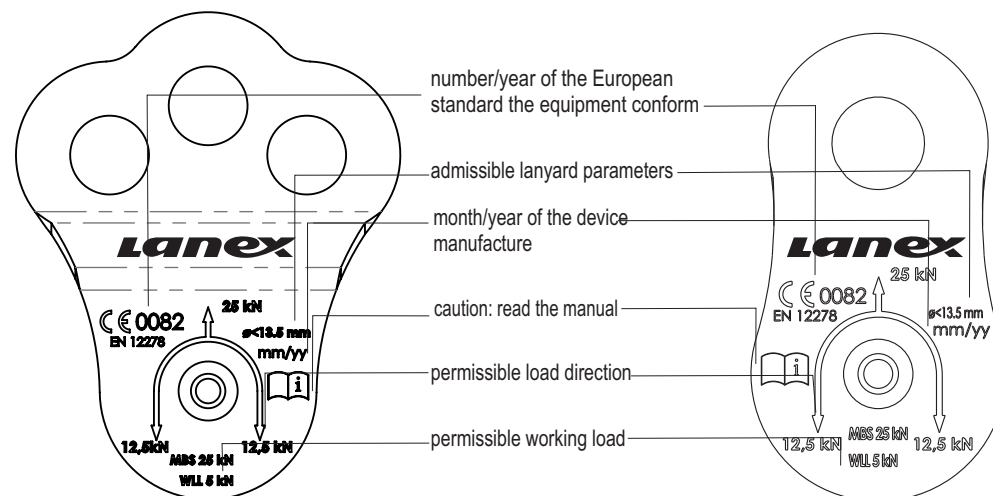
#### TECHNICAL DATA

KIND OF PULLEY	XPTU420	XPTU421
Max. diameter of rope	Ø13,5 mm	Ø13,5 mm
Material	aluminium/stainless steel	aluminium/stainless steel
Working Load Limit	500 kg	500 kg
Minimum Breaking Strength	25 kN	25 kN
Safety Factor	1:5	1:5
Weight of the set (without the lanyard)	95 g	135 g

#### MARKING

### XPTU421

### XPTU420



## BASIC PRINCIPLES OF USE AND GENERAL SAFETY RULES

- The device is not designed for use as a personal fall arrester equipment.
- The device is subject to the EU Directive 89/686/EEC.
- Prior to each application the device should be examined carefully. The inspection should be carried out by the user of the device. Should any defects be found or incorrect operation of the device detected, the device should be withdrawn from use.
- While the device is in use it should be protected against mechanical, chemical and thermal damage.
- Any upgrading or modification of the device without the prior written consent by the manufacturer is forbidden.
- Any repairs should be done solely by the manufacturer of the device or his authorised representative.
- It is forbidden to connect any elements of the device which may mutually disturb any of their functions.
- There are many hazards which may affect the operation of the device, therefore it is necessary to apply any means of precaution and follow safety rules to ensure correct operation of the device. The following should particularly be in focus:
  - Kinks, cuts or wear of the lanyard
  - Exposure to climatic conditions
  - Extreme temperatures
  - Chemical reagents
  - Electric conductivity, etc.
- This product is designed for use in normal atmospheric conditions (-40°C ... +50°C).
- Humid environment and icing may reduce the strength and load-carrying capacity of the device. In case of operation in an aggressive environment please contact the manufacturer or vendor.
- The structure on which the device is mounted must be stable. The static strength of the structure element must be at least twice greater than the weight of the hoisted load.
- The durability of connections between the structure, the pulley and the load should be checked to avoid accidental disconnecting of any of the elements.
- Particular care should be taken when blocking the lanyard with the use of the jaw cleat, do not allow any employees within the area directly beneath the hoisted load.

## INSPECTION

Inspection of the device is necessary to maintain the proper state of repair of the equipment and to ensure user safety, which depends on continuous efficiency and durability of the device.

Prior to any use of the pulley, it is necessary to:

- Inspect all elements of the device in terms of any damage (mechanical, chemical and thermal), excessive wear, corrosion, cuts, wear, incorrect operation.
- Check connections between elements to avoid accidental loosening or disconnection of elements.

In case any irregularities are found the device should be withdrawn from use.

## STORAGE

Pulleys should be stored dry and clean, away from any chemical factors,

The device should be stored without any load suspended,

Remove any dust, water and contamination with a potential of damaging anti-corrosion layer during the device storage.

## TIME OF USE

Maximum time of use of the devices is indefinite.

It is recommended to use the device for 5 years from the date of manufacture engraved on its housing.

## LUBRICATION

The device is fitted with plastic slide bearings that require no lubrication. If rolling resistance on the main roller increases, blow out the pulley with compressed air and inject small quantity of a lubricant, e.g. WD40 in between the roller and the body. MAINTENANCE pulleys are maintenance-free, except for possible lubrication as indicated above. The manufacturer provides no spare parts for this products, and performs no repairs of the device. If a pulley is damaged, take it out of service and replace with a new one.

## SHIPMENT

The device should be shipped in packaging (e.g. in a bag resistant to moisture or plastic bag or in crates made of steel or plastic), to protect it against damage and moisture.

## BASIC PRINCIPLES OF USE AND GENERAL SAFETY RULES

Rope working diameter is indicated on the device's body. Do not use ropes larger diameter than specified because of damage of pulley or incorrect working. Use only with textile ropes. Do not use with wire ropes or chains.

Never use the pulley to lift people,

Never lift the load above people or if any people are around,

Never load the device with a load greater than the value indicated on its body.

Never lift any load of unknown weight,

Never use visibly damaged and deformed pulleys,

Never use the pulley to anchor any loads,

Never allow a load to swing, jerk or vibrate,

Never pull the working rope, when it leans against an edge, Always make sure that the load-bearing structure is capable of handling the WLL,

Always warn people around that you start operating,

Always make sure that a load is properly supported in a stable position once it is lifted.

Always make sure that pulleys are operated only by people who are physically fit, authorized, trained and aged above 18,

Always make sure that the rope length is enough for the task to be completed,

Always make sure that a load is suspended correctly,

Always make sure that swivel parts of the pulley in working positions are connected by means of a snap hook and will not open once the WLL is applied.

Always use the device only to lift the load manually

## **THE ESSENTIAL PRINCIPLES FOR USERS OF PERSONAL PROTECTIVE EQUIPMENT**

- personal protective equipment shall only be used by a person trained and competent in its safe use.
- personal protective equipment must not be used by a person with medical condition that could affect the safety of the equipment user in normal and emergency use.
- a rescue plan shall be in place to deal with any emergencies that could arise during the work.
- it is forbidden to make any alterations or additions to the equipment without the manufacturer's prior written consent.
- any repair shall only be carried out by equipment manufacturer or his certified representative.
- personal protective equipment shall not be used outside its limitations, or for any purpose other than that for which it is intended.
- personal protective equipment should be a personal issue item.
- before use ensure about the compatibility of items of equipment assembled into a fall arrest system. Periodically check connecting and adjusting of the equipment components to avoid accidental loosening or disconnecting of the components.
- it is forbidden to use combinations of items of equipment in which the safe function of any one item is affected by or interferes with the safe function of another.
- before each use of personal protective equipment it is obligatory to carry out a pre-use check of the equipment, to ensure that it is in a serviceable condition and operates correctly before it is used.
- during pre-use check it is necessary to inspect all elements of the equipment in respect of any damages, excessive wear, corrosion, abrasion, cutting or incorrect acting, especially take into consideration:
  - in full body harnesses and belts - buckles, adjusting elements, attaching points, webbings, seams, loops;
  - in energy absorbers - attaching loops, webbing, seams, casing, connectors;
  - in textile lanyards or lifelines or guidelines - rope, loops, thimbles, connectors, adjusting element, splices;
  - in steel lanyards or lifelines or guidelines - cable, wires, clips, ferrules, loops, thimbles, connectors, adjusting elements;
  - in retractable fall arresters - cable or webbing, retractor and brake proper acting, casing, energy absorber, connector;
  - in guided type fall arresters - body of the fall arrester, sliding function, locking gear acting, rivets and screws, connector, energy absorber;
  - in connectors - main body, rivets, gate, locking gear acting.
- after every 12 months of utilization, personal protective equipment must be withdrawn from use to carry out periodical detailed inspection. The periodic inspection must be carried out by a competent person for periodic inspection. The periodic inspection can be carried out also by the manufacturer or his authorized representative. In case of some types of the complex equipment e.g. some types of retractable fall arresters the annual inspection can be carried out only by the manufacturer or his authorized representative.
- regular periodic inspections are the essential for equipment maintenance and the safety of the users which depends upon the continued efficiency and durability of the equipment.
- during periodic inspection it is necessary to check the legibility of the equipment marking.
- it is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in language of the country in which the product is to be used.
- personal protective equipment must be withdrawn from use immediately when any doubt arise about its condition for safe use and not used again until confirmed in writing by equipment manufacturer or his representative after carried out the detailed inspection.
- personal protective equipment must be withdrawn from use immediately and destroyed when it have been used to arrest a fall.
- a full body harness complied with EN 361 is the only acceptable body holding device that can be used in a fall arrest system.
- the anchor device or anchor point for the fall arrest system should always be positioned, and the work carried out in such a way, as to minimize both the potential for falls and potential fall distance. The anchor device/point should be placed above the position of the user. The shape and construction of the anchor device/point shall not allowed to self-acting disconnection of the equipment. Minimal static strength of the anchor device/point is 10 kN. It is recommended to use certified and marked structural anchor point complied with EN795.