

## Horizontal ANCHOR SYSTEM D I E L

Manufacturer: PROTEKT 93-403 Łódź, ul. Starorudzka 9  
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### INSTRUCTION MANUAL

#### 1. General information

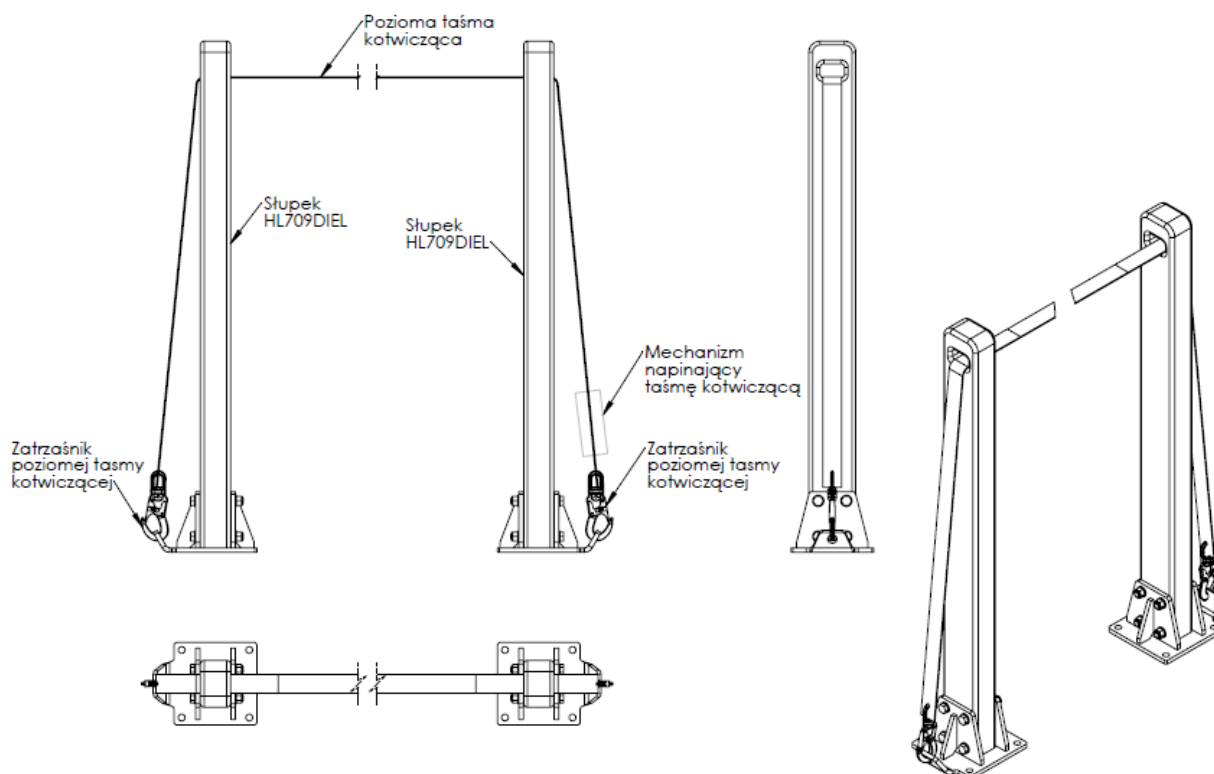


Fig. 1-1. Example installation of DIEL system

Zatrzasknik poziomej taśmy kotwiczącej	Horizontal lifeline connector
Pozioma taśma kotwicząca	Horizontal lifeline
Słupki	Pole
Mechanizm napinający taśmę kotwiczącą	Lifeline tensioner

Line horizontal anchor system DIEL (Fig. 1-1) enables attachment of personal fall protection equipment. It ensures full protection and at the same time enables movement along its guide.

The DIEL system is a C-class anchor device intended for use with personal fall protection

equipment, conforming to EN 795:2012 and CEN/TS 16415:2013 document.

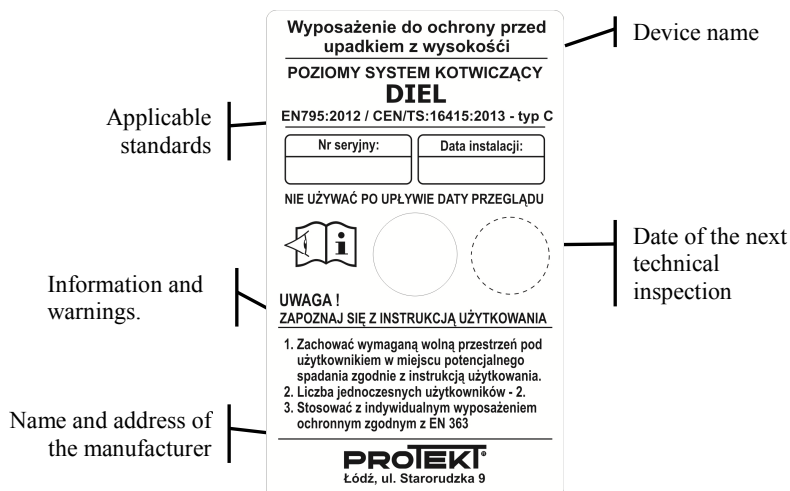
The system comprises horizontal guide made of textile webbing. The guide is attached to a fixed structure at structural anchor points by means of support poles.

The DIEL system can be used by multiple users at the same time as marked on the Data Plate.

Each anchor system has data plate; a sample data plate is shown in Fig. 1-2. The data plate

includes essential information on the system use and its unique serial number, date of installation (month and year) and date of next technical inspection.

Fig. 1-2. System nameplate



## 2. Basic safety rules related to the system usage.

Each user of the anchor system must read and understand this Operational Manual. Failure to use the system in accordance with this Manual is dangerous for users' lives. Always keep this Instruction Manual in an accessible location for reference. The system may only be used by individuals properly trained in use of the personal fall protection equipment.

The system must not be used by personnel whose physical condition may adversely influence their safety both during normal system use and possible rescue actions. A plan of a rescue action to be implemented in case of an emergency must be prepared.

The anchor system may only be used to protect its users against falls from a height and to assist works on heights and only in accordance with the guidelines provided herein. The system cannot be used for working in a harness, for suspension of loads, machinery or tools.

The Operation Sheet constitutes an integral part of this Manual and should be used to record period inspections and repairs of the equipment. The Sheet must be filled in and stored together with this Manual and presented on request to the manufacturer or an authorised service facility. The organisation in use of the system is responsible for updating records in the Sheet. This organisation is also obliged to ask the service and repair entities to properly fill in the Operation Sheet.

Follow all operating instructions for the protective equipment used with the anchorage system described herein. Moreover, observe all general industrial safety regulations and rules,

in regard of working on heights in particular.

In case any malfunction or lack of system elements is identified, do not use the system. When in doubt as for the equipment technical condition or range of application, contact the manufacturer or an authorised service facility.

If the system has been used to arrest a fall, withdraw it from use immediately. The fall arrest system may be commissioned again only after a detailed inspection is carried out by the manufacturer or an authorised service facility, and a written approval for its further use is issued.

It is obligatory to check free space below the workplace so that, while falling before the protective equipment arrests the fall, it is possible to avoid collision with other objects or surfaces located below.

When using the system, pay special attention to risks affecting the protection equipment operation or the user's safety, and in particular to kinks and rope movement on sharp edges, oscillatory falls, current conductivity, influence of extreme temperatures, equipment damage, negative influence of environmental factors, chemical substances and contamination.

Take into account risks that may result from simultaneous use of concurrent equipment sets, where functioning of one set may interfere with the other. This may be the case, e.g. when rope access systems and fall arrest systems are used at the same time.

Do not modify, repair the system components or replace them with non-original spare parts.

If the equipment is sold or handed for use in other countries, the current user must deliver manual for operation, maintenance and inspection in a language of the country, where the equipment is to be used.

Before each use of the system check whether the date of the next inspection is not expired. Do not use the device after this date.

Before each use of the system visually check the system for its integrity and technical condition and whether the work rope is tensioned. If any defect or lack of integrity is found, do not use the system.

### 3. How to use the system

- guided type fall arrester
- safety lanyard with energy absorber
- retractable type fall arrester

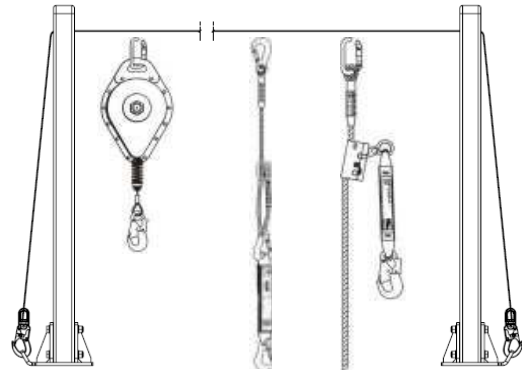


Fig. 3-1 Operation of connecting/energy absorbing components with the DIEL system

The complete fall protection system comprises the DIEL anchor system and personal protection equipment connected to the system. The system can be used to anchor personal fall protection equipment compliant with EN 363. Personal fall protection equipment should be attached to the DIEL system line by the PROTEKT connector type AZ011.

The following personal protection equipment must be used together with the DIEL anchor system:

- safety harness compliant with EN 361,
- connecting/energy absorbing components including:
  - lanyard with an energy absorber compliant with EN 354/355,
  - guided type fall arrester compliant with EN 353-2,
  - retractable type fall arrester compliant with EN 360. Please note that the DIEL system can be used only with the PROTEKT retractable type fall arresters the operation of which has been certified based on special laboratory testing,

- connectors (snap hooks) compliant with EN 362.

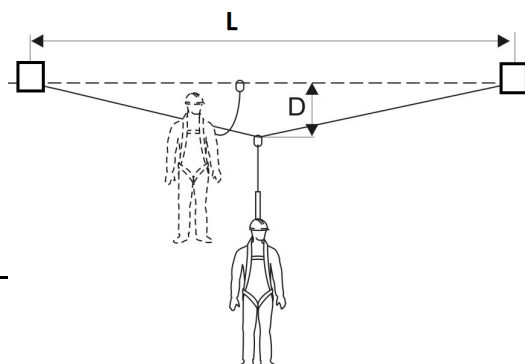
Before operating, wear safety harness in accordance with applicable operating instructions. Attachment point on the harness must be connected to the anchor system by means of one of the above-mentioned fall protection systems, in accordance with respective operating instructions (Fig. 3-1). The fall protection system connector should be attached directly to the DIEL system lifeline (if PROTEKT AZ011 connector is used) or by means of PROTEKT AZ011 connector (if fall protection system is equipped with other connector).

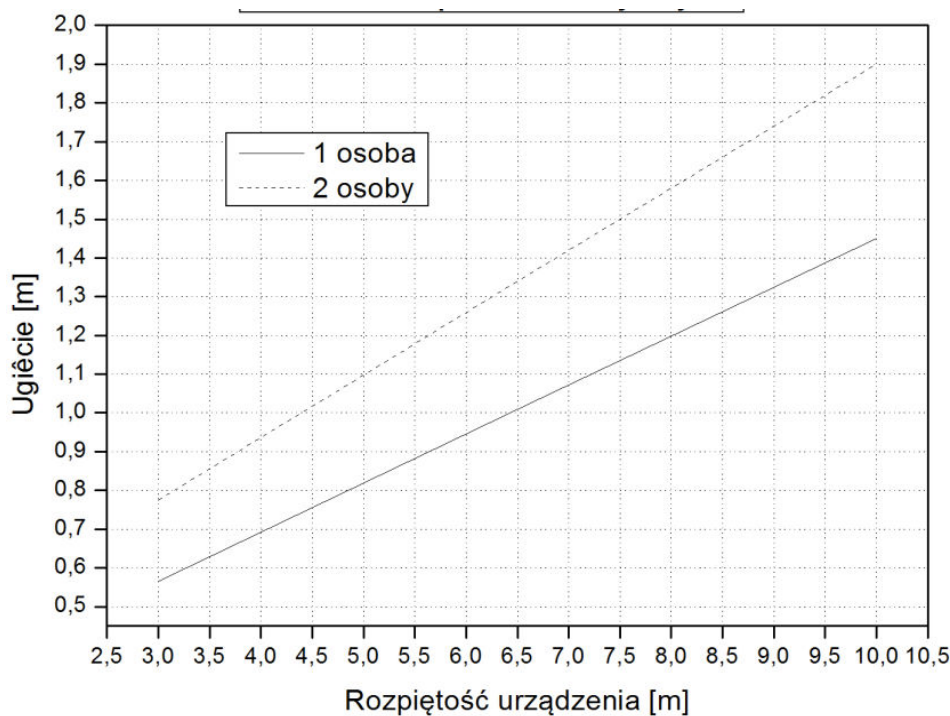
The connector allows for free movement along the system line. After work is complete take off the fall protection system from the line and store it in conditions preventing it damage or corrosion.

Maximum acceptable number of concurrent users should not be greater than the one given on data plate for a particular system.

### 4. Determining required free space below the user

Fig. 4-1 "Deflection" of lifeline due to a fall; L – total length of horizontal anchor system, D – "deflection" of lifeline.





Ugięcie[m]	Deflection [m]
Rozpiętość urządzenia [m]	Device span [m]
1 osoba	1 person
2 osoby	2 people

Correct completion and set-up of a protection system also involves provision of adequate free space below the user, in the direction of a potential fall, without any obstacles which may potentially cause an injury.

The vertical clearance below the user should at least equal the sum of: “deflection” D of horizontal anchor system (Fig.4-1), extension of fall protection system

used for operation with the system (in accordance with its operation manual) and additional back-up distance of about 1m.

Expected values of “deflection” D of horizontal lifeline for maximum number of concurrent users adopted for a particular system, are given in the diagram.

## 5. System inspection and maintenance

The DIEL line anchor system must be visually inspected by the direct user before and during its operation. Pay special attention to line guide continuity, integrity of components, presence of nuts, loosened elements which fix the system to the structure and signs of corrosion. If any of the above symptoms are found, stop using the system and contact the manufacturer or its authorised service facility.

**Periodic inspections must be carried out at least once every 12 months. The inspections must be carried out by the manufacturer or its authorised service facility. Periodic inspections together with all information regarding repairs must be registered in the Operation Sheet provided by the manufacturer. Date of the next inspection should be provided on nameplate.**

## OPERATION SHEET FOR ANCHOR SYSTEM

Do not use protective equipment without its valid Operation Sheet.

Entity using the protective equipment is responsible for issuing and keeping records in the Operation Sheet for the relevant protective equipment.

The Operation Sheet should be kept by a competent person in charge of the protective equipment in the entity.

The Operation Sheet should be filled in before the first usage of the equipment.

In the Operation Sheet, provide all information concerning periodical inspections, repairs and reasons for the equipment's withdrawal from use.

The Operation Sheet should be stored throughout the whole product's service life.

Equipment name / type:	:
Manufacturer:	PROTEKT 93-403 Łódź, ul. Starorudzka 9 Tel.: (42) 680 20 83, Fax: (42) 680 20 93
Serial number	
Date of installation (or first usage):	
Length: [m]:	
Maximum number of users:	
Expected value of line deflection when arresting a fall [m]:	
Location:	
User name:	

### Inspection and Repair Record

	Date	Type of inspection / repair	Remarks	Date of next inspection	Name and signature of technician
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					