



User Manual [UK]

Sliding gate: Odysseus + Delta

Motor unit: Type UT Cardin 100SL 1524HER



Odysseus



Delta

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1 GENERAL

1.1 *Manufacturer / supplier*

Manufactured by: Heras Productie Maatschappij B.V.
Hekdam 1, 5688 JE Oirschot The Netherlands

Supplied by: Heras Fencing Systems B.V.
Hekdam 1, 5688 JE Oirschot The Netherlands

1.2 *How to use this manual*

This user manual describes how cantilever sliding gates should be operated and what actions should be taken in the event of breakdown. The sliding gate is hereafter referred to as the '*gate*'. This document also deals with maintenance and safety aspects.

The contents of this document are intended for the operator of the gate and for the technician responsible for its installation.

The technician will use a separate manual for installation of the gate. The installer will use an assembly diagram for the motor unit in question, working in accordance with the Dutch NEN 1010 standard.

For technical defects of whatever nature, a qualified technician employed by the dealer must be consulted.



**This manual is only an addition to the manual enclosed with the motor unit.
Detailed information can be found in the manual enclosed with the motor unit.**

1.3 *Definitions of User / Operator / Technician*

User: Anyone using the gate.

Operator: A user who is familiar with all safety aspects dealt with in this manual. The operator is not allowed to carry out any installation work on the gate unless explicitly specified.

Technician: The technician is a Heras fitter (or a technician employed by the customer who has been explicitly given permission in writing by Heras) who is qualified to carry out technical work on the gate.

1.4 *Service / Maintenance / Dealer*

In the event of problems, failures or questions you can contact:

Dealer	Tel.:	<tel. dealer>
	Fax:	<fax dealer>

Extra or new copies of this manual can be ordered via the telephone or fax numbers listed above.

1.5 Conformity with European directives

The installation complies with the following EU directives:

98/37 EC Machinery Directive

73/23 EEC Low Voltage Directive

89/336/EEC EMC Directive (electromagnetic compatibility)

The declaration of conformity can be found in appendix C.

The nameplate is affixed on the front or the rear side of the gate.



2 Installation

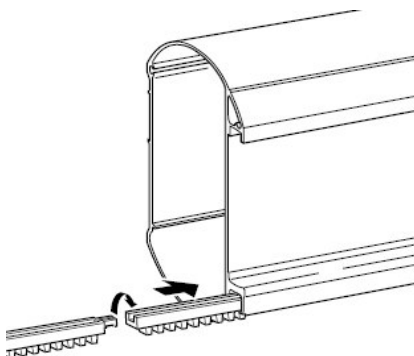


End stoppers (slam support front and rear) must be used at the "open" and "closed" positions.

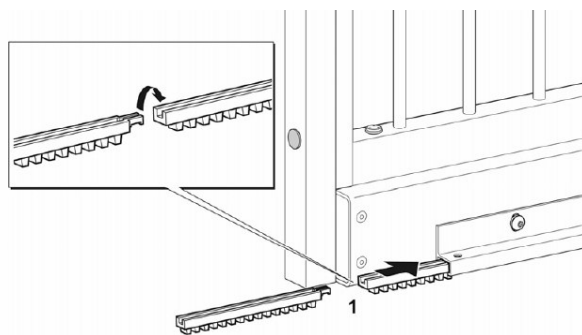
The stopper for the closed position will also prevent the existing safety contact profiles from being actuated.

2.1 Mounting the rack

The plastic rack is delivered as loose elements in lengths of approx. 500 mm. Connect these elements and insert them into the aluminium profile.



Delta

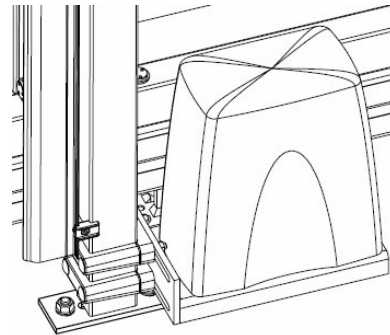
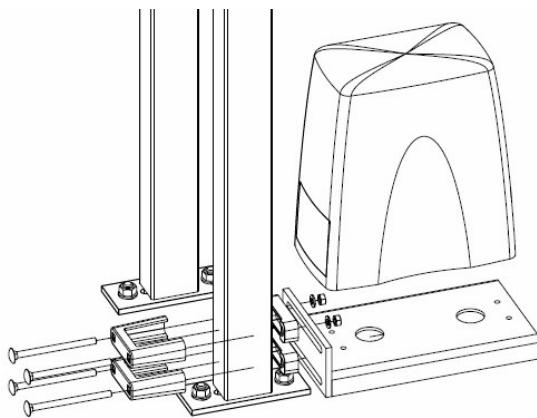


Odysseus

2.2 Installing the motor unit

The motor unit is fixed to the support provided.

This support is attached to the post by means of clamping brackets.



motor support principle

2.3 Adjusting the motor unit

- Position the toothrack holder in such a way that it can be slid upwards/downwards (Odysseus).
- Position the gate leaf in a central position.
- Adjust the height of the motor unit so that the toothed wheel falls into place in the toothrack.

Caution: The toothrack must allow approx. 1mm movement tolerance for the toothed wheel! The motor must be connected.

- Check that the motor unit runs parallel with the gate leaf and is level.
- Tighten the nuts on the motor support.
- Check that the toothed wheel runs along the centre of the toothrack.
Slide the gate open and closed all the way and check that the tolerance distance is approx. 1mm in all places. If necessary, adjust the height of the motor unit/toothrack holder.
- Check again that the toothrack has been installed correctly and that all screws, the toothrack holder and the motor unit have been tightened.

Caution: The emergency release operation must work in all gate positions.

3 Safety during use and work activities

3.1 General safety requirements, view of passage

In spite of all the safety features, when operating the gate it must be ensured that:

- the immediate vicinity is being monitored.
- there are no objects on, between, under, or protruding through the gate which might block the gate.
- a safe distance is kept from the moving gate. Warning icons to this effect have been installed in various locations (Appendix B: Locations of warning signs).
- the passage opening through which people walk is kept free of snow and ice.

On a gate with “dead man's operation”, which often has no safety facilities, the entire movement and passage of the gate must be visible



3.2 Safety during work in progress and commissioning

Safety regulations

- The operator must read the entire user manual before the gate is used for the first time. The safety regulations stated in the user manual must be observed and complied with. All other forms of use can cause unexpected hazards and are forbidden.
- When work is carried out on the electrical cabinet, the power supply to the system must be switched off and it must be ensured that it cannot be switched on unexpectedly.
- To move the gate manually, first disengage the drive system by lowering the toothed wheel of the motor unit.
- Always lock the motor unit cabinet during use. It must only be opened by a technician with electro-technical qualifications.

The following applies to Heras gates: “Safety” takes precedence over “Control” and “Opening” takes precedence over “Closing”.



The EN 13241-1, EN 12453 and EN 12445 standards must be taken into consideration during installation.

To achieve a good safety level, the national regulations must be taken into account in non-EU countries in addition to the above standards.

3.3 Safety facilities on the gate

3.3.1 Personal safety and regular inspection

Depending on the configuration of the gate and the adjacent fencing, safety strips will be affixed at various points where there is a risk of entrapment. (See appendix Appendix A: Installation of personal protection device).

The safety strips must be regularly inspected visually (once a month) to check that they are undamaged and work properly.

The inspection procedure is as follows:

- All the safety strips on the gate are passive strips. If the strip comes into contact with an object and a certain level of resistance is detected, the gate will immediately come to a standstill and reverse direction.
- Regularly check that the gate can move freely.
The area of movement and the guide (lower beam) must be free of snow, ice, weeds or any other objects that might impede the movement of the gate.

Switch off the gate if these safety facilities do not work properly, since optimum safety cannot be guaranteed. Contact Service / Maintenance / Dealer see 1.4

3.3.2 **Emergency release**

See manual with Cardin SL 100 1524HER drive

3.3.3 **General safety information**

The Installation and User Manual must be permanently available at the place where the equipment is used. It must be read thoroughly and complied with by all persons who operate, service, repair and/or transport the equipment. Improper usage or servicing or ignoring the operating instructions can be a source of danger for persons, or result in material damage. If the meaning of any part of these instructions is not clear, then please contact your supplier before you use the appliance. This also applies to all adjusting activities, trouble-shooting, disposing of fuels and consumables as well as cleaning, maintaining, inspecting and repairing the equipment. The environmental regulations and the accident prevention regulations applicable to the place of installation and application (regulations of industrial associations), as well as the relevant professional rules on working safely and professionally must be observed in addition to this Installation and User Manual.

The supplier cannot anticipate all possible risks. If a certain action is not carried out as recommended the owner/operating company must ensure that there is no personal danger to anyone and that the operating mode selected does not endanger nor damage the equipment. The equipment must only be put into use if all safety facilities are in place and work properly. All faults which might present a source of danger to the user or to third persons must be eliminated immediately.

All warning and safety notices on the equipment must be in place and clearly legible at all times. All electrically operated peripheral devices which are connected to our electrical interfaces must have a CE Mark, which ensures that they conform to the relevant EEC regulations.

Please note that no changes, neither mechanical nor electrical, may be carried out without the manufacturer's prior permission. All alterations or extensions to the appliance must be carried out by qualified personnel using parts which the supplier has defined as suitable for such alterations or extensions.

Any failure to comply with these instructions will be considered as non-compliant behaviour and will invalidate the manufacturer's guarantee and the risk will transfer entirely to the user. Our Service Department is at your disposal at all times to provide you with the relevant information. To ensure that the system is used in compliance with the regulations in the CEN countries, the applicable European safety directives and standards must be observed as well.

4 Commissioning the system, initialisation (technician)

See manual with Cardin SL 100 1524HER drive

5 Gate application and technical details

5.1 Sliding gate description

The gate was designed to enable an area to be automatically sealed off and made accessible again. This User Manual deals with the powered (cantilever) sliding gates listed below.

Gate leaf	Odysseus	Delta
Length [m]	[5.05-11.55]	[5.15-12.5]
Height [m]	[1.0-2.5]	[1.0-2.5]
Max. weight [kg]	725	120
Runner wheels	Steel cantilever	PA6G210 cantilever

5.2 Technical details

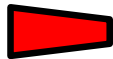
See manual with Cardin SL 100 1524HER drive

Appendix A: Installation of personal protection device

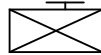
Below are the guidelines for the installation of the personal protection devices on Odysseus and Delta sliding gates.

The diagram shows the sliding gate when viewed from above.

Explanation of symbols:



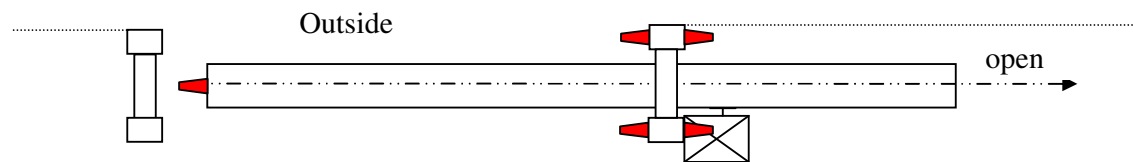
Personal protection strip



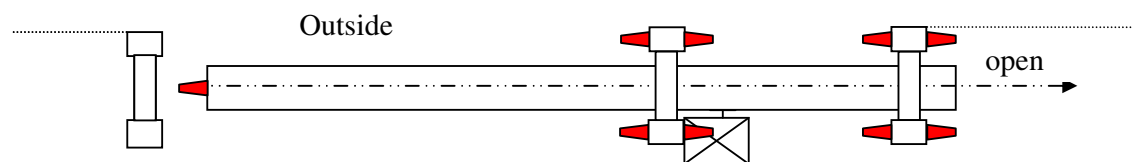
Motor unit

..... Line of mesh/fencing

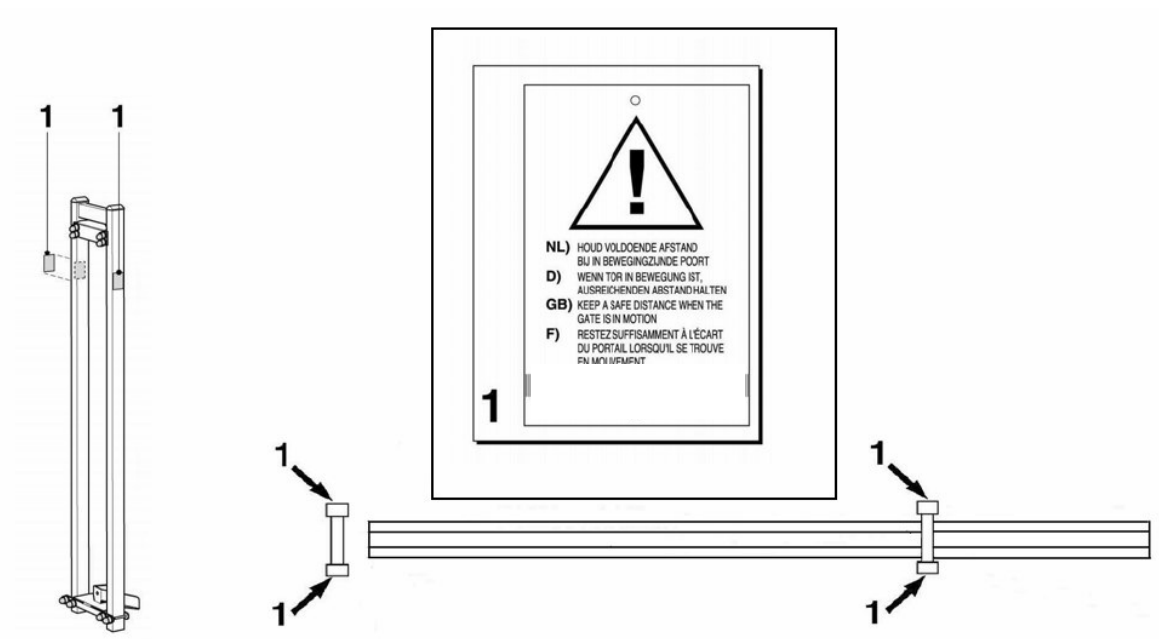
Odysseus gate with gateposts (5x passive)



Delta gate with gateposts (9x passive)



Appendix B: Locations of warning signs



Appendix C: EC Declaration of Conformity

Heras Fencing Systems B.V., Hekdam 1, 5688 JE Oirschot, the Netherlands, hereby declares that the system referred to below complies with the Commission requirements of 14 June 1989 for harmonisation by the member states in line with the Machinery Directive and the corresponding amending directives.

Type of sliding gate system	Odysseus / Delta UT	
EU Directives applied	98/37 EC	Machinery Directive
	73/23 EEG	Low Voltage Directive
	89/336/EEC	EMC Directive (electromagnetic compatibility)

The following harmonised standards have been applied:

EN 12100-1 / EN 12100-2	EN 61508:2001
NEN-EN 1050: 1996	EN 60335-1:2002
EN 954-1: 1996	EN 12978:2003
EN 1760-2	EN 12604: 2000
EN 60204-1 1997	EN 12605: 2000
EN 61000-6-3 : 2001	NEN 6770
EN 61000-6-1 : 2001	NEN 6771
EN 12453: 2005	NEN 6772
EN 12445: 2005	NVN-ENV 1991 2-4
EN 12444: 2000	NVN-ENV 1993
EN 13241-1: 2003	

Furthermore, it is forbidden for anyone to put into operation the complete installation (gate and motor unit) before the “machine” has been found and declared to be in conformity with the requirements of the machinery directive 98/37/EC, and with national legislation pursuant to this directive.

Oirschot, 12-12-2008

Hans Welting

Managing Director

Heras Fencing Systems B.V.

Notes

[illegible]