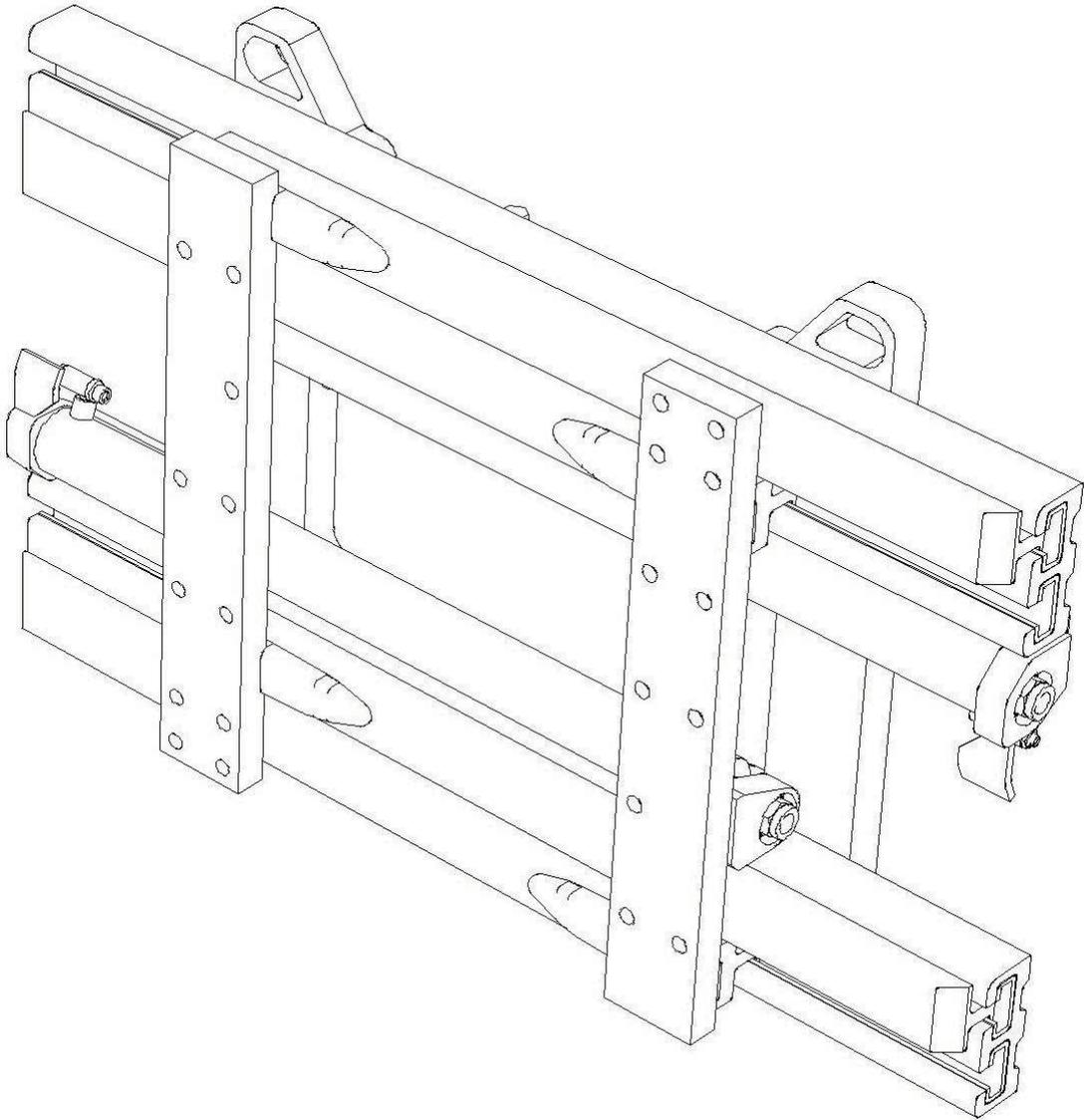


LOAD CLAMPS

H - SERIES

USE AND MAINTENANCE MANUAL



Carrefully read the manual before use

Preface	2
Manual information	3
Information on the PS series clamp body	4
List of arms that can be mounted on the PS series clamp body	5
Data for EEC certification of truck/equipment unit	7
Safety information	8
Safety regulations	9
Plates and safety symbols	10
Installation	11
Adjustments	14
Load take-up	15
Load handling	18
Maintenance	19

This manual provides you with all the information necessary for the use and maintenance of your equipment. Its efficiency and lasting wear depends on effective maintenance and the care taken in its use.

The CAM Company and your dealer are at your disposal to provide any information regarding operation and they also provide original spares to ensure perfect adaptation in the event of replacement.

Before leaving the production factory, this specific model has been subjected to test to ensure maximum reliability.

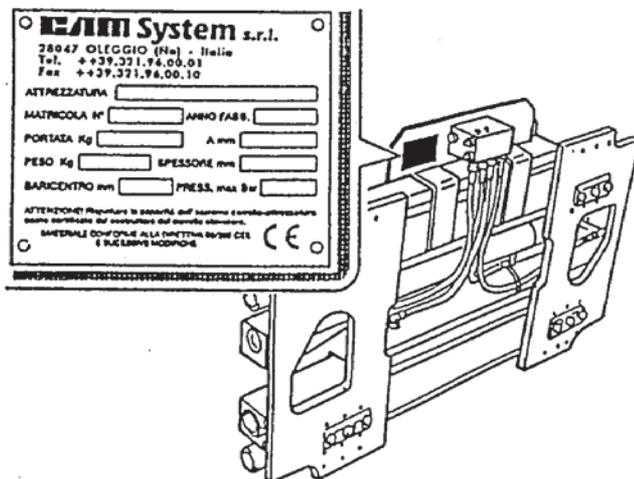
Check to ensure that the equipment has not been subjected to structural damage that may injure its functionality and safety.

The technical information provided in this manual is the property of CAM and is confidential in nature: therefore even partial diffusion or reproduction of this manual is prohibited.

All partial or total reproduction of the written matter, organization, paging, symbols of the text and illustrations contained in this manual is prohibited by law.

The subject matter of this manual is that specifically required by the "EC 89/392 Machine Directive" and subsequent amendments.

In all communication with the manufacturer or dealer always cite the information indicated on the identification plate.



The residual capacity of the equipment-lift truck unit must be certified by the lift truck constructor.

The present manual is to be considered an integral part of the device and must accompany the same until such time as it is scrapped. In the event of loss or damage, request a new manual from the manufacturing company.

This manual contains machine information, safety cautions, instructions on installation, transport, function and maintenance.

Certain illustrations of the manual may show parts or accessories that are different to your own.

Thoroughly read the manual and keep it on hand.

In the event of any problems with either the equipment or the manual, contact CAM S.r.l. for the latest information available.

The manual, complete with all enclosures must accompany the equipment in the event of re-sale.

The manual has been divided into sections to simplify reading. Each section is identified by a symbol.



Informative section

This section provides a general information on the equipment, conditions of use, models, technical data, etc.



Safety section

This section provides a list of all the basic precautions to be taken to guarantee safety. It also provides the wording that appears on the warning labels used on the equipment.



Installation section

The installation section indicates all the operations to be undertaken by the customer to make the equipment operational.

In the specific case the assembly on the lift truck clamps.



Function section

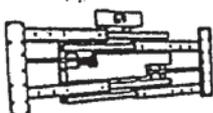
This section provides information for the operators in order to correctly carry out the work procedure.



Maintenance section

The maintenance section is a guide to the care of the equipment. This section illustrates the correct dismantling and reassembly procedures for those parts that require maintenance. Maintenance frequency indications are also provided.

Information on the PS series clamp body



The clamps of the new PS series are available in various standard models with capacities from 800 kg to 5000 kg.

- **Envisaged uses**

The clamps have been designed and constructed in order to be mounted and used together with the lift truck, in order to undertake the necessary handling according to clamp type.

- **Operator position**

The operator will control the clamp from the driver's seat on the lift truck.

- **Manufacturer identification data**

CAM System S.r.l.
Via Sempione, 100/a
28047 OLEGGIO (Novara) - Italia
Tel. ++39.321.96.00.01 - Fax ++39.321.96.00.10



- **Disposal**

In the event of the scrapping of the equipment it must be disposed of in adequate dumps in compliance with current regulations.

Collect any exhaust oils in special collection centres.

Before proceeding with scrapping, it is necessary to separate the rubber or plastic parts from the rest of the material.

Parts exclusively made of plastic, aluminium, steel material may be recycled if collected by the special disposal centres.



- **Technical assistance**

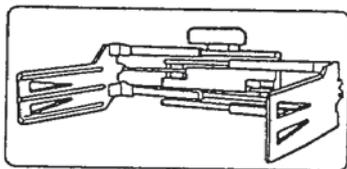
CAM System S.r.l.
Tel. ++39.321.96.00.01 - Fax ++39.321.96.00.10



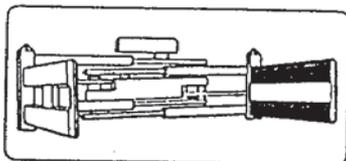
Use only CAM original spares

CAM S.r.l. declines any responsibility for the use of non-original spares.

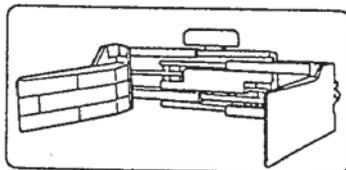
List of grippers that can be mounted on series PS clamp body



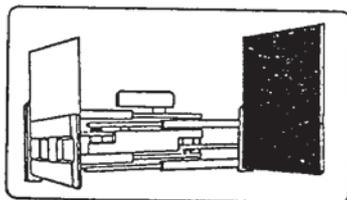
PS.Bs *Slim arm clamps*



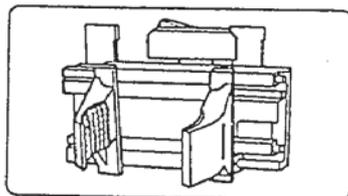
PS.Bg *Rubber coated arm clamps*



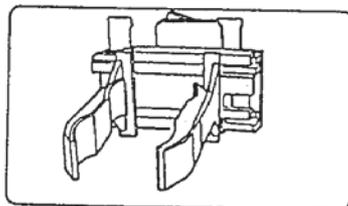
PS.Bl *Boxed arm clamps*



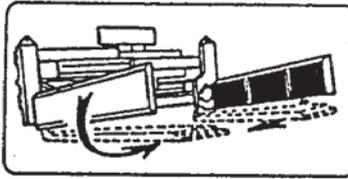
PS.Te *Applaine and carton clamps*



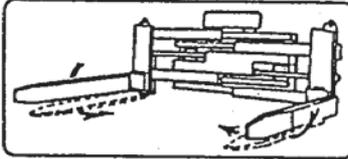
PS.2F *Drum clamps*



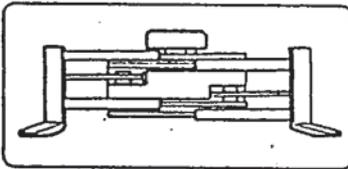
PS.4F *Drum clamps*



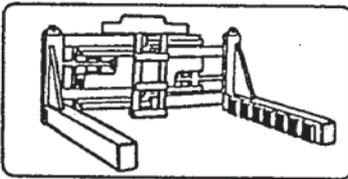
PS.Bpg *Rubber coated pivoting arm clamp*



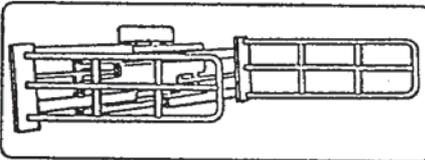
PS.Fp *Grippers with pivoting clamps*



PS.Fb *fork clamps*



PS.C *Block clamps*



PS.Gp *Foam block clamps*



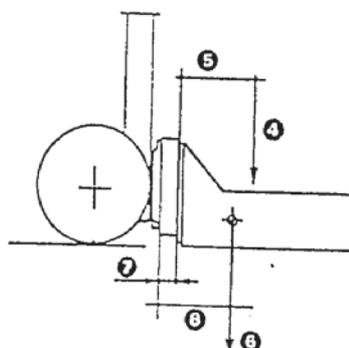
Data for EEC certification of the truck/equipment unit

The lift truck constructor will certify the truck/equipment unit applying a plate to the lift truck indicating the residual capacity of the unit.

Equipment identification plate

EAM System s.r.l.	
28047 OLEGGIO (No) - Italia Tel. ++39.321.96.00.01 Fax ++39.321.96.00.10	
ATTREZZATURA	① <input type="text"/>
MATRICOLA N°	② <input type="text"/> ANNO FABB. ③ <input type="text"/>
PORTATA Kg	④ <input type="text"/> A mm ⑤ <input type="text"/>
PESO Kg	⑥ <input type="text"/> SPESSORE mm ⑦ <input type="text"/>
BARICENTRO mm	⑧ <input type="text"/> PRESS. max Bar ⑨ <input type="text"/>
<p>ATTENZIONE! Rispettare la capacità dell'asseme carrello-attrezzatura come certificato dal costruttore del carrello elevatore.</p> <p>MATERIALE CONFORME ALLA DIRETTIVA 89/392 CEE E SUCCESSIVE MODIFICHE</p>	
	

- ① Equipment name
- ② Serial no.
- ③ Year of construction
- ④ Equipment capacity
- ⑤ Centre of gravity of the load to which the equipment capacity refers
- ⑥ Equipment weight
- ⑦ Equipment thickness from the fork-carrier plate of the load support carriage.
- ⑧ Equipment centre of gravity
- ⑨ Maximum pressure on equipment entry





Safety information

Failure to comply with the basic safety norms of precautions may lead to accidents during operation, maintenance or repair of the equipment. It is often possible to avoid accidents by recognizing potentially dangerous situations before they occur. The operator must be aware of potential dangers and possess the training, competence and the equipment necessary to correctly carry out his work.

Improper use of the equipment during operation or maintenance may be damaging and cause serious accidents.

Do not use the equipment or undertake maintenance until all the instructions have been read and understood.

The safety precautions and warnings are indicated in the manual and on the equipment by means of visual messages. Failure to pay attention to these danger messages, may jeopardize the safety of the operator with serious consequences for the same and for other people.

The safety messages are displayed with the following symbols:



The **IMPORTANT** messages are displayed before procedures which, if not observed, may cause damage to the operator.



The **WARNING** messages are displayed before messages which, if not observed, may cause damage to the equipment.

CAM S.r.l. cannot envisage each possible circumstance that may result in danger. Therefore the warnings given in this publication and which appear on the equipment are not exhaustive.

In the event that equipment, procedures, work methods or working techniques are used that are not specifically advised by the CAM S.r.l. company it is necessary to make sure that there is no danger to the operator or other people.

The information, specifications and illustrations in this publication are based on the information available at the time of preparation.



As well as the safety regulations described in this section please take note of all the information provided in the manual of the lift truck onto which the clamps are to be mounted.



Safety cautions



CAM S.r.l. cannot under any circumstances be made responsible for accidents or damages resulting from the use of the equipment by inadequately trained personnel or if inappropriate use has been made of the same, as well as the, even partial, non-observance of the safety norms and the intervention procedures contained in the present manual and in that of the lift truck.

Before using the equipment carefully read the use and maintenance manual. Should certain parts not be clear consult the constructor.

Do not wear flapping garments or with belts, cuffs, large sleeves, do not wear scarves, shirts or anything else that may get caught up in the moving parts.

In the event of injury caused by oil escape under pressure, immediately seek medical assistance.

The equipment is complete with warning plate; disposal and non-respect of these plates may result in serious injury.

In the event of non-envisaged workmanship or intervention, or following a procedure different to that indicated in the manuals, consult CAM S.r.l. before proceeding in order to ascertain its feasibility.

Before beginning any maintenance or any other operations on the equipment, switch off the lift truck and remove the key from the board.

Use tools and equipment suited to the work to be undertaken.

Do not rest any tools or equipment on any part of the machine.

Do not use the grippers for any other purposes than those that have been intended.

Do not use the truck unless in perfect working order.



Do not use the truck to transport people.

Do not exceed the maximum capacity as indicated on the identification plate.

Do not undertake manoeuvres whilst the truck is moving.

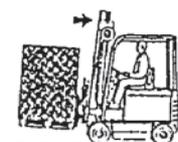
Do not leave the truck unguarded without having firstly lowered the load to the ground, pulled the hand brake and switched off the motor.



Standing under the load is severely forbidden.

Never pass the arm through the upright. Remain inside the driver's cabin.

Approach ramps or climbs backwards. Driving downhill with the load in front reduces load stability.



Lift the load to be transported 200 mm from the ground and do not proceed without having traversed backward.

Transportation of non-permitted material is forbidden.