

Pegaso srl  
Via del Lavoro 14/16  
37045 San Bonifacio (VR)



## **INSTRUCTION MANUAL FOR USE AND MAINTENANCE**

**EQUIPMENT: ORDER PICKER OP20**



**ORIGINAL INSTRUCTIONS**



# MATRIX REVISION OF MANUAL AND ITS PARTS

MANUAL PARTS	Rev.	Date	Rev.	Date	Rev.	Date
Index	0.0	04/11/2014	1.0	12/11/2019		
Chapter 0	0.0	04/11/2014	1.0	12/11/2019		
Chapter 1	0.0	04/11/2014	1.0	12/11/2019		
Chapter 2	0.0	04/11/2014	1.0	12/11/2019		
Chapter 3	0.0	04/11/2014	1.0	12/11/2019		
Chapter 4	0.0	04/11/2014	1.0	12/11/2019		
Chapter 5	0.0	04/11/2014	1.0	12/11/2019		
Chapter 6	0.0	04/11/2014	1.0	12/11/2019		
Chapter 7	0.0	04/11/2014	1.0	12/11/2019		
Chapter 8	0.0	04/11/2014	1.0	12/11/2019		
Chapter 9	0.0	04/11/2014	1.0	12/11/2019		

Date	04/11/2014
Signature	



If the present document is modified by the manufacturer the customer is responsible for ensuring only the updated versions of the manual are actually present in the points of use.



THE OFFICIAL LANGUAGE CHOSEN BY THE MANUFACTURER IS ITALIAN  
Non si assumono responsabilità per traduzioni, in altre lingue, non conformi al significato originale.

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## Preconditions

### 1. Purpose of the instruction manual for use and maintenance

This manual was create to provide the user with general knowledge of the equipment and to allow its use in safe conditions.

This Instruction Manual is an integral part of the equipment and is intended to provide all the information necessary for:

- The handling of the equipment, packaged and unpacked in safety conditions;
- The correct installation of the equipment;
- Knowledge of the technical specifications of the equipment;
- The in-depth knowledge of its operation and its limits;
- Its correct use in safety conditions;
- Carry out maintenance and repair operations correctly and safely.

This document assumes that, in the companies where the equipment is destined, the current safety and hygiene regulations are observed.



The responsible manager has the obligation, according to the regulations in force, to read carefully the contents of this Instruction Manual and to make it read to the suppliers and maintenance personnel, for the parts that are theirs.

The instructions, documentation and drawings contained in this Manual are of a reserved technical nature, strictly owned by the Manufacturer, therefore, apart from the purposes for which it was produced, any reproduction, both integral and partial, of the content and / or format, must be take place with the prior consent of the Manufacturer.

### 2. Adressee

This Instruction Manual is intended for the installer, the operator / user and the qualified personnel authorized to use and maintain the equipment.

The equipment is intended for industrial use, so its use is reserved for authorized personnel. Authorized personnel are each person authorized by the company to use the machine. The equipment is intended for industrial use, so its use is reserved for authorized personnel in particular who:

- Have completed the age of majority;
- They are physically and psychically fit to perform work of particular technical difficulty;
- Have been adequately instructed on the use and maintenance of the equipment;
- They have been judged suitable by the employer to carry out the task assigned to him;
- They are able to understand and interpret the operator's manual and safety regulations;
- They know the emergency procedures and their implementation;
- Have included the operating procedures defined by the Equipment manufacturer.
- For the use of this type of equipment, they have been specially trained according to the provisions of current legislation.
- They have been trained for the use of PPE of III cat. which protection devices for working at height

It is completely the responsibility of the company to ensure that the authorized person has carefully read and understood this manual and the safety precautions listed here. The authorized person must not operate the machine unless: she / he has read, understood and practiced the principles of the machine safety operations contained in this operating manual.

The fundamental principles to be understood are:

1. Avoid dangerous situations
2. Always carry out an inspection before operating the machine
3. Always test functionalities before operating the machine
4. Inspect the work space and remove any obstacles
5. Use only the machine if you accept the following principles:
  - Read, understand and follow the manufacturer's instructions and safety regulations
  - Read the safety rules of this manual and the safety labels
  - Read, understand and follow operator safety regulations and work space regulations
  - Read, compute and follow all government regulations



The term QUALIFIED / SPECIALIZED PERSONNEL refers to personnel who, as a result of training and professional experience, have been expressly authorized to perform the installation, use and maintenance of the equipment.

### 3. Retention of the instruction manual

The Instruction Manual must be carefully preserved and must accompany the equipment in all the passages that it may have during its life cycle.

Storage should be favored by handling it with care, with clean hands and not depositing it on dirty surfaces.

They must not be removed, torn or arbitrarily modified of the parts.

The Manual should be stored in an environment protected from moisture and heat and in the vicinity of the equipment to which it refers.

### 4. Updating the instruction manual

The Manufacturer is only responsible for the Instructions written and validated by the same (Original Instructions); any translations MUST always be accompanied by the original instructions, in order to check the correctness of the translation. In any case, the Manufacturer is not responsible for translations not approved by the Manufacturer, therefore if an inconsistency is detected, attention must be paid to the original language and eventually contact the Manufacturer's sales office, which will make the changes deemed appropriate.

The Manufacturer reserves the right to make changes to the project, changes / improvements to the equipment and updates to the Instruction Manual without prior notice to the Customers.

However, in the event of modifications to the equipment installed at the Customer, agreed with the Manufacturer and involving the adaptation of one or more chapters of

the Instruction Manual, the Manufacturer shall send the Client the parts of the Instruction Manual involved in the modification, with the new model of global revision of the same. It will be the Customer's responsibility, following the instructions that accompany the updated documentation, to replace in all the copies owned the parts no longer valid with the new ones.

## 5. How to read the instruction manual

The manual is divided into chapters, each of which is dedicated to a specific category of information and then addressed to the operators for whom the related skills have been defined.

To facilitate the immediacy of understanding the text, terms, abbreviations and pictograms are used, the meaning of which is indicated in Paragraph 7.

### **Numbering of the figures**

Each figure is numbered progressively. The numbering is constructed as follows:

*Figure 0.1.2*

Figure	0	.	1	.	2
	↓	.	↓	.	↓
	Chapter	.	Paragraph	.	Progressive number

The progressive number starts again from 1 to each new paragraph.

### **Numbering of the tables**

Each table is numbered progressively. The numbering is constructed as follows:

*Table 0-1.2*

Table	0	-	1	-	2
	↓		↓		↓
	Chapter	-	Paragraph	.	Progressive number

The progressive number starts again from 1 to each new paragraph.

#### ABBREVIATIONS

Chap. = Chapter

Par. = Paragraph

Sect. = Section

P. = Page

Fig. = Figure

Tab. = Table



### ***Unit of measure***

The units of measurement present are those provided for by the International System (SI).

<b>Fundamental quantities</b>	<b>Unit of measure</b>	<b>Symbol</b>
Time interval	second	s
Length	meter	m
Mass	kilogram	kg
Temperature	Kelvin	K

<b>Mechanical quantities</b>	<b>Unit of measure</b>	<b>Symbol</b>	<b>Conversion</b>
Strength	newton	N	1 N = 1 kg m s <sup>-2</sup>

## **6. Definitions**

**MACHINE DIRECTIVE 2006/42 / EC (Article 2 Definitions)**

**MANUFACTURER** A natural person or legal entity designing and / or constructing a machine or a partly completed machinery which is the subject of this Directive and is responsible for the conformity of the machinery or quasi-machine with this Directive for the purpose of placing it on the market under its own name or with your own brand or for personal use. In the absence of a manufacturer as defined above, a natural or legal person who places a machine or a partly completed machinery on the market or puts into service the subject of this Directive shall be deemed to be a manufacturer.

**PLACING ON THE MARKET** First making available, within the Community, for payment or free of charge, a machine or a quasi-machine for distribution or use.

**COMMISSIONING** First use, in accordance with its destination within the Community, of a machine covered by this Directive.

**LIFTING ACCESSORIES** Components or equipment not connected to lifting machines, which allow the load to be taken, placed between the machine and the load or on the load itself, or destined to become an integral part of the load and to be placed on the market separately. Also the harnesses and their components are considered lifting accessories.

**ANNEX I MACHINE DIRECTIVE 2006/42 / EC (page 1.1.1 Definitions)**

**DANGER** A potential source of injury or damage to health.

**HAZARDOUS AREA** Any area inside and / or near an equipment where the presence of a person constitutes a risk to the safety and health of that person.

**EXPOSED PERSON** Any person who is completely or partially in a dangerous area.

**OPERATOR** The designated person / people to install / operate / regulate / clean / repair / move equipment and perform maintenance.

**RISK** Combination of the likelihood and severity of an injury or damage to health that may arise in a dangerous situation.

**REPAIR** Element of the equipment used specifically to guarantee protection through a material barrier.

**PROTECTION DEVICES** Device (different from a repairing) that reduces the risk, alone or associated with a repairing.

**INTENDED USE** The use of equipment according to the information provided in the instructions for use.

**INCORRECT USE REASONABLY FORESEEABLE** Use of the equipment in a manner other than that indicated in the instructions for use, but which may derive from easily predictable human behavior.

**RESIDUAL RISKS** Risks that remain despite the integrated protection measures adopted in the design of the equipment and in spite of the protections and complementary protection measures adopted.

## **7. Pictograms**

### ***Generality***

The pictograms must be applied in areas where they are easily visible and readable by anyone approaching and at a point where the person can react promptly to take the necessary actions to avoid the danger.

When possible, they must be applied in areas protected from the risk of damage, abrasion, chemical aggression, dust or anything else that alters the visibility and reading. The temperature range of use goes from +5° C to + 40° C provided there is no uneven distribution of temperatures that negatively affects the thermal expansion of the material. The surfaces on which the pictograms are applied must be clean, smooth and free from grease, oils or chemicals that reduce their adhesion.

The standard provides that the safety pictograms are regularly checked and cleaned to ensure good readability at a safe distance. When products are subjected to extreme environmental conditions or when the safety pictograms no longer comply with the required visibility conditions, they must be replaced.



1



Component opening system for maintenance

2



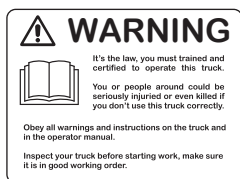
Do not stand under the raised cab  
Danger crushing

3



Danger crushing

4



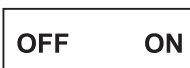
**WARNING!** By law, you must be trained to operate this forklift. You or those close to you can be seriously injured or even killed if you do not use the forklift correctly. Follow the instructions and hazard statements in the operating manual. Inspect the cart before starting work and make sure it is in good condition.

5 - 13



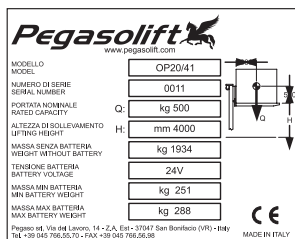
Emergency button

6 - 13



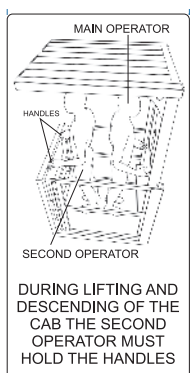
On / off button

7



ID plate

8



9



Anchoring points to lift the machine

10



Falling objects or lowering platforms can cause serious injury or death.  
**DO NOT STAY UNDER THE PLATFORM**  
During the service, it supports the platform so it will not fall.

11



**WARNING:** Avoid being crushed. Keep your head, arms, hands, legs and feet in the platform area.  
Anti-tipping and falling from the platform can cause serious injury or even death.  
Use extreme attention near the shelf.

12



**WARNING:**  
OP20/41 maximum load capacity with max. 2 operators



**WARNING:**  
OP20/51 maximum load capacity with max. 1 operator



**WARNING:**  
OP20/61 maximum load capacity with max. 1 operator


# 1. General information

## 1.1 Manufacturer identification data

<b>Manufacturer</b>	Pegaso srl
<b>Administrative legal headquarters</b>	Viale del lavoro 14/16 - 37045 San Bonifacio (VR)
<b>Telephone</b>	+39 045 7665570
<b>Fax</b>	+39 045 7665570
<b>E-Mail</b>	info@pegasolift.com
<b>After-sales service for spare parts</b>	+39 045 7665570
<b>Call center</b>	+39 045 7665570
<b>Contacts</b>	+39 045 7665570

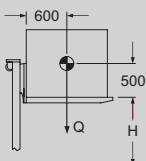
## 1.2 CE marking of the equipment


Each equipment is identified by a CE plate on which the reference data of the same are indelibly marked. For any communication with the manufacturer or service centers always quote these references.



**Pegasolift**  
www.pegasolift.com

MODELLO MODEL	OP20/41
NUMERO DI SERIE SERIAL NUMBER	00000
PORTATA NOMINALE RATED CAPACITY	Q: kg 500
ALTEZZA DI SOLLEVAMENTO LIFTING HEIGHT	H: mm 4000
MASSA SENZA BATTERIA WEIGHT WITHOUT BATTERY	kg 1934
ANNO DI COSTRUZIONE CONSTRUCTION YEAR	2019
TENSIONE BATTERIA BATTERY VOLTAGE	24V
MASSA MIN BATTERIA MIN BATTERY WEIGHT	kg 251
MASSA MAX BATTERIA MAX BATTERY WEIGHT	kg 288



  
 MADE IN ITALY

Pegaso srl, Via del Lavoro, 14 - Z.A. Est - 37047 San Bonifacio (VR) - Italy  
 Tel. +39 045 766.55.70 - FAX +39 045 766.56.98

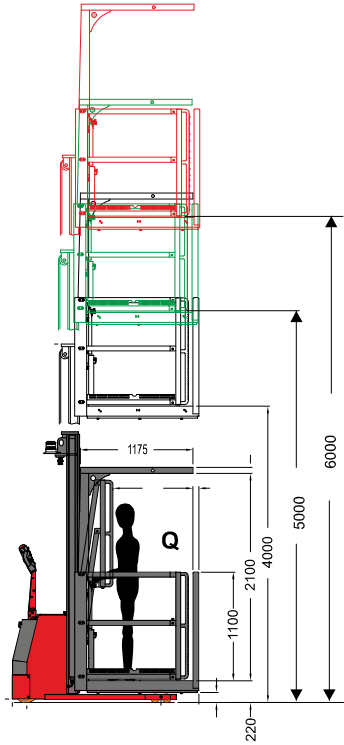
Complete the plate data as required by the manufacturer

**1.3 Flow chart**

**Q** is the total ammissible load.

This is given by the sum of:

- sum of operator(s) weight where each operator avg max weight is considered 80Kg for each operator
- remaining available weight for load



**Residual capacity  
OP20/41 DUPLEX**

H=4000	Q=500 kg
H=3000	Q=500 kg
H=2000	Q=500 kg
H=1000	Q=500 kg
H=220	Q=500 kg
BATT. 24V 315Ah - 345Ah	

**Residual capacity  
OP20/51 TRIPLEX**

H=5000	Q=400 kg
H=4000	Q=400 kg
H=3000	Q=400 kg
H=2000	Q=400 kg
H=1000	Q=400 kg
H=220	Q=400 kg
BATT. 24V 315Ah - 345Ah	

**Residual capacity  
OP20/61 TRIPLEX**

H=6000	Q=300 kg
H=5000	Q=300 kg
H=4000	Q=300 kg
H=3000	Q=300 kg
H=2000	Q=300 kg
H=1000	Q=300 kg
H=220	Q=300 kg
BATT. 24V 315Ah - 345Ah	

**1.4 Additional plates**

EN13155 standard:

- 1) Do not allow people to walk or stay in dangerous areas
- 2) The nature of the loads that can be moved by the equipment are the following:



- the machine can carry only one operator
- the individual packages loaded can not be more than 25 kg
- the dimensions of the packages must be contained in the dimensions of the cabin

## 1.5 Declaration



# Pegaso S.r.l.

Via del Lavoro, 14 - Z.A. Est - San Bonifacio (VR) Tel. 045/766.55.70 - 045/766.55.85  
Fax 045/766.56.98 P. IVA IT 02692480235 e-mail: info@pegasolift.com

### DICHIARAZIONE CE DI CONFORMITÀ – EC DECLARATION OF CONFORMITY DECLARATION CE DE CONFORMITÉ – EG KONFORMITÄTSBESCHEINIGUNG DECLARACION CE DE CONFORMIDAD

Direttiva (Directive/Directive/Direktive/Directiva) 2006/42/CE  
Allegato (Annex/Joint/Anhang/Adjunto) II A

**Nome del fabbricante**  
Name of manufacturer  
Nom du fabricant  
Name des Herstellers  
Nombre del fabricante

**PEGASO S.R.L.**

**Indirizzo del fabbricante**  
Address of manufacturer  
Adresse du fabricant  
Adresse des Herstellers  
Dirección del fabricante

**Via del Lavoro, 14  
37047 - San Bonifacio (VR)  
ITALY**

**Descrizione prodotto/uso previsto**  
inglese  
francese  
tedesco  
spagnolo

**Carrello elevatore con postazione di lavoro sollevabile**  
Lifting machine with picking platform  
Gerbeurs électronique avec poste de travail élévable  
Elektro Stapler Workstation mit Hebe  
Apiladores con elevación de estación de trabajo

**Modello**  
Model  
Modèle  
Modell  
Modelo

OP20/41

**Altre Direttive applicate**  
Other directives applied  
Autres directives appliquées  
Andere Richtlinien angewendet  
Otras directivas aplicadas

2014/30/EU

**Esame CE del tipo di macchina Allegato IV - 17**  
EC type-examination of machine type Annex IV - 17  
Examen CE de type du type de machine Annexe IV - 17  
EG-Baumusterprüfung des Maschinentyps Anhang IV - 17  
Examen de tipo CE del tipo de máquina Anexo IV - 17

**Cert. 20377**  
VENETA ENGINEERING srl  
CE 0505  
Via Lovanio 8/10 - Verona  
ITALY

**E alle seguenti norme** - and the following standards - et aux normes suivantes -  
Die erklärung entspiet den folgenden normen - y a las siguientes normas

EN 3691-1, EN 3691-3, EN  
4413, EN 60204

**Il fascicolo macchina e' a disposizione delle autorità in caso di richiesta scritta presso:**  
The technical file is a disposal to the authorities in case of written demand in:  
Le dossier technique est à disposition des autorités dans le cas de demande par écrit près:  
Die Datei wird bei schriftliche Anfrage bei:  
El dossier técnico está a disposición de la autoridad en caso de su requerimiento po escrito:

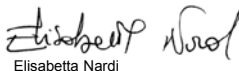
**PEGASO S.R.L.**  
Via del Lavoro, 14 37047 -  
San Bonifacio (VR) ITALY

**Persona autorizzata a compilare la relativa documentazione tecnica e firmare la presente dichiarazione**

Person authorized to complete the relevant technical documentation and sign this declaration  
"Personne autorisée à compléter la documentation technique pertinente et signez cette déclaration"

Person, die berechtigt ist, die relevante technische Dokumentation auszufüllen und unterschreibe diese Erklärung  
Persona autorizada para completar la documentación técnica pertinente y firmar esta declaración

Administratore-General Manager-Gérant-Manager

  
Elisabetta Nardi



**Prodotto a** - Made in - Fabriqué à - Hergestellt in - Fabricado en  
**San Bonifacio - Verona - ITALY**

**Data** – Date – Le – Datum

## 1.6 Safety rules

The equipment has been designed according to the Technical Standards listed below

REGULATION	Title
<b>UNI EN ISO 12100</b>	Safety of machinery - General principles of design - Risk assessment and risk reduction
<b>UNI EN ISO 3691-3</b>	Industrial Trolleys - Safety Requirements and Verification - Part 3: Additional Requirements for Elevated Forklift Trolleys and Trolleys Specifically Designed to Drive with High Loads
<b>UNI EN ISO 3691-1</b>	Industrial trolleys Safety requirements and verification Part 1: Motorized industrial trucks, excluding those without driver, telehandlers and load carriers
<b>EN 60204</b>	Electrical equipment

## 1.7 Information on technical assistance

The equipment is covered by warranty, as provided for in the general conditions of sale. If during the period of validity malfunctions or faults in parts of the equipment occur, which fall within the cases indicated by the warranty, the Manufacturer, after the appropriate checks on the equipment, will repair or replace the defective parts.

It is recalled that modifications made by the user, without the express written authorization of the manufacturer, will void the warranty and relieve the manufacturer from any liability for damage caused by a defective product.

This applies in particular when the aforesaid modifications are performed on the safety devices, degrading their effectiveness. The same considerations apply when using non-original spare parts or parts other than those explicitly indicated by the manufacturer as "safety devices".

We therefore recommend that our customers contact our Service Department before carrying out the aforementioned work on the equipment.

Any faults evidently and visibly present at the time of delivery of the product (aesthetic defects on visible parts, breakages, dents, malfunctions, missing parts, etc.) must be immediately reported to the company.



The Manufacturer is not liable for defects not reported by the customer at the time of delivery.

## 2. Safety

### 2.1 General safety warnings



Before operating the equipment, carefully read the instructions contained in this manual and carefully follow the instructions contained therein.

The manufacturer has made every effort to design this equipment to make it as safe as possible.

With this assumption, the equipment has been equipped with all the protections and safety devices deemed necessary and equipped with sufficient information to be used safely and correctly.

To this end, for each human-equipment interaction, when necessary, the following information has been indicated:

- Minimum qualification of the requested operator.
- Number of operators required.
- State of the equipment.
- Residual risks.
- Personal protection means necessary or recommended.
- Prevention of human errors.
- Bans / obligations related to reasonably foreseeable misconduct.

It is however essential to diligently follow the following indications:

- Avoid using clothes with hooks that can remain attached to parts of the equipment.
- Avoid using ties or other fluttering clothing.
- Avoid wearing bulky rings or bracelets that may catch hands on the equipment's organs.

The following are the prevention measures “designed to improve safety systems for operating conditions and above all for the risk of accidental loss of stability (overturning)”:

- control and regulation of the maximum speed or of the braking force in relation to the various lifting heights in travel and out of stroke;
- device limiting the maximum translation speed with a contrasted guide (trajectory controlled by the side wheels placed at the base of the trolley that go against the metal guides placed at the base of the shelves);
- device limiting the maximum translation speed with inductive guidance (trajectory controlled by a sensor placed under the carriage that detects the magnetic field generated in a conductor buried in the floor);
- automatic end-of-travel braking and / or increased emergency braking with inductive guidance;
- performance limiting device and / or impediment to running if the passive systems are not in the correct position;
- lifting blocking devices at certain levels of the upright;
- chains loosening control sensors;
- any contact sensor placed on the roof of the cab against downward bumps;

- performance limiting device according to the steering angle “.

Furthermore, when necessary, in the Manual further recommendations by the user will be specified on the preventive measures, on the personal means of protection, on the information suitable to prevent human errors and on the prohibitions relating to behaviors that are not permitted but reasonably foreseeable.

In any case, the user can suitably integrate the information provided by the manufacturer with additional work instructions to contribute to the safe use of the equipment, obviously not in contrast with what is reported in this Instruction Manual.

The manufacturer is relieved of all responsibility for damage caused by the equipment to persons, animals or property in the event of: use of equipment by inadequately trained personnel;

- improper use of the equipment;
- deficiencies in planned maintenance;
- unauthorized changes or interventions;
- use of non-original or non-specific parts for the model;
- total or partial failure to comply with the instructions;
- use contrary to specific national regulations;
- calamity and exceptional events;

### **General requirements**

The instruction manual must always be available to the operator at the workplace. The user must promptly inform the employer or his direct superior on any defects or anomalies presented by the device.

### **Inspections and checks**

The checks must be carried out by an expert; they must be of a visual and functional nature, with the aim of guaranteeing the safety of the equipment.

They include:

- verification of all load-bearing structures, which must not show any cracks, breakage, damage, deformation, corrosion, wear or alteration with respect to the original characteristics;
- verification of all the safety devices installed on the equipment;
- verification of all connections with pins and screws;
- verification of the tensioning of the lifting chains
- check the state of charge and storage of the battery
- check wheel wear status
- verification of the systems for closing the access door on the platform
- verification of the functioning of all the safety devices present.

The results of this verification must be reported on a specific sheet.

In the event that the technician responsible for carrying out the verification finds cracks or dangerous anomalies he must:

- put the equipment out of service and make the necessary checks and / or repairs.



If anomalies are detected, they must be eliminated before the equipment is put back into operation, and the expert who performs the check must write down the repair on the appropriate card, thus approving the use of the equipment.

If the consumed or defective parts are not promptly replaced, the manufacturer assumes no responsibility for damage caused by accidents that could result.

In order to guarantee the maximum safety of the equipment it is in any case **FORBIDDEN**:

- tamper with any part of the equipment.

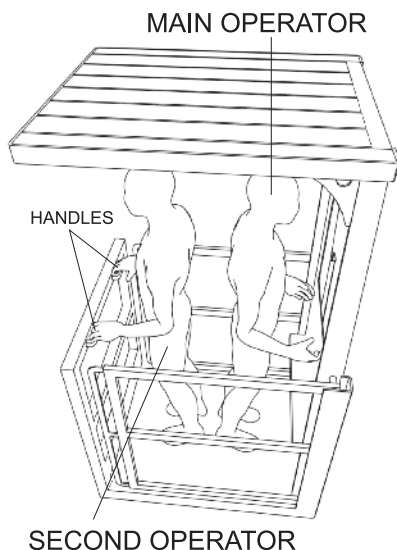
## 2.2 OP 20/41 intended use

The OP20/41 can be used by one or two operators standing on the booth to take goods to the higher shelves from the ground.

**THE OPERATORS MUST HOLD THE HANDLES DURING LIFTING AND DESCENDING THE CAB.**

### MAX. CAPACITY

500 Kg



## 2.3 OP 20/51 - OP20/61 intended use

The OP20/51 and OP20/61 can only be used by one operator standing on the booth to take goods to the higher shelves from the ground.

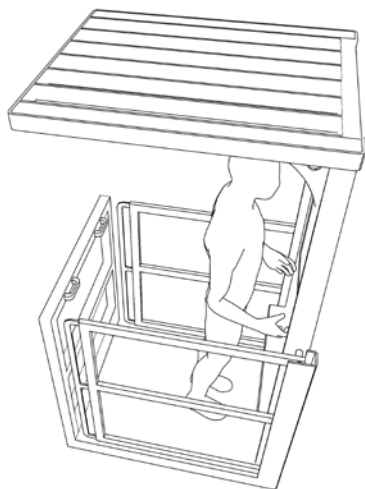
**THE OPERATOR MUST HOLD THE HANDLES DURING LIFTING AND DESCENDING THE CAB.**

### OP20/51 MAX. CAPACITY

400 Kg

### OP20/61 MAX. CAPACITY

300 Kg





**DO NOT LEAN OVER FROM THE  
CAB WHEN THE PLATFORM  
IS HIGH.**



**DURING LIFTING AND DESCENDING  
OF THE PLATFORM, THE OPERATORS  
MUST HOLD THE HANDLES**



The doors must always be closed before and during movement, only in accordance with this indication the cabin will rise and fall if enabled.



It is forbidden to open the doors during the ascent or descent of the cabin, otherwise the cab it will not move.



In case of sloping machine operation, make sure to stay on the highest side to avoid collisions.







The lower part of the cabin has a sensor. If he meets an obstacle during his descent (such as a person or something else) the descent will be immediately blocked.





If the cab is raised more than 200 mm, the stacker can not be moved. Lower the cab completely to allow the stacker to move.



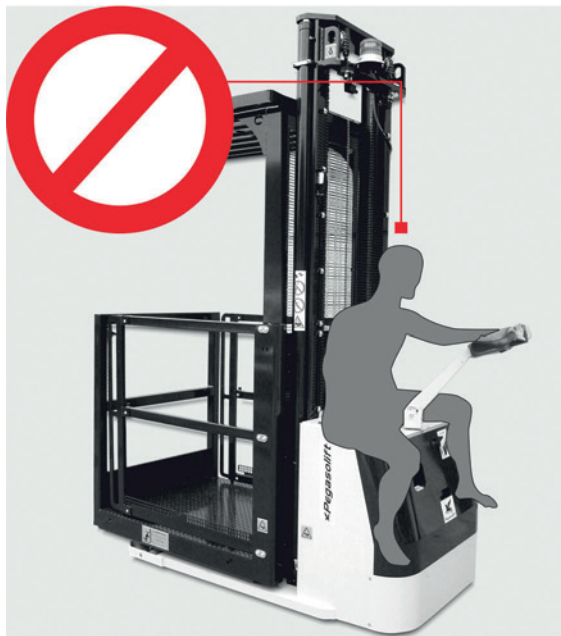
When the stacker and the cab move, a flashing light is activated. When the stacker is moving in reverse, an acoustic shock is emitted.



Pay attention to obstacles outside the cabin. During the ascent and descent of the cab, do not lean on the cabin with hands, arms, legs and / or other parts of the body.



The driver must pay attention to pedestrians, slowing or stopping by using the horn near narrow passages, intersections or crossings.



It is not possible to use the Order picker by riding it. The driver must use the order picker walking behind it and holding the rudder head in his hands.



The use of products / materials other than those specified by the Manufacturer, which may cause damage to equipment and dangerous situations for the operator and / or persons close to the equipment, is considered incorrect and improper.







## 2.4 Contraindications of use

The equipment must not be used:



- For uses other than those established by the manufacturer, different or not mentioned in this manual.
- In an explosive atmosphere, corrosive or with a high concentration of powders or oily substances suspended in the air.
- In a risk of fire.
- Weathered.
- For handling dangerous goods (explosives, etc ...).

## 2.5 Residual risks

It is necessary to pay attention to the following residual risks which are present at the time of use of the equipment and which can not be eliminated.

SYMBOL	DESCRIPTION
	Danger suspended loads
	Danger falling from above
	Electrical current danger
	Danger moving mechanical parts
	Danger crushing hands
	Danger crushing feet

***Pictograms related to obligations***

SYMBOL	DESCRIPTION
	Obligation to use gloves for mechanical and chemical risks
	Obligation to read the instructions of the machine / equipment



Obligation to use the withholding device



Obligation to use safety glasses



Obligation to travel with speed at a crawl

### Pictograms related to the prohibitions

**SYMBOL**

**DESCRIPTION**



It is forbidden to remove the protections of the machine



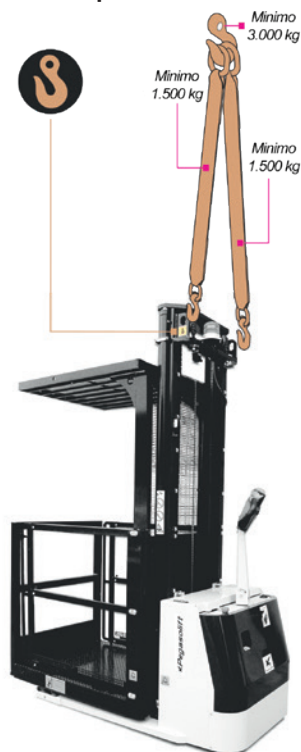
No passing under the machine



Prohibition to abandon the work platform

## 3. Installation

### 3.1 Transportation and handling



The equipment can be transported with a normal vehicle capable of bearing its weight and dimensions. It is recommended to always use means that can withstand the weight and size of the equipment, in order to avoid damage to it and to people or things around it.

Since it has been supplied totally assembled, the equipment must only be positioned / installed in the place of use.

Before starting the lifting picker operations, the user must make sure that it is deactivated and that the key has been removed. Use only the indicated anchor points (other points may damage the machine) and may be detrimental to operator safety. Use only braided belts tested for weights of at least 1500 kg (see machine weight on page 32)



The Manufacturer can not be held liable for damage caused to persons or animals due to the use of lifting systems other than those indicated.

### 3.2 Storage

In case of inactivity, the equipment must be stored using the following precautions:

- store the equipment in an enclosed area;
- grease the unpainted parts;
- protect the equipment from impact and stress;
- avoid that the equipment is subjected to extreme temperatures and protect it from high temperature ranges;
- prevent the equipment from coming into contact with corrosive substances.

### 3.3 Load tests

Before putting into service, test the correct operation of the equipment by lifting the load and check the correct functioning of the lifting device mechanisms.

## 4. Use of equipment

### 4.1 Equipment description

The Pegasolift Order Picker is a commissioner and is the most flexible solution for the manual handling of goods.

OP is designed to allow an operator to stay inside the cabin and lift to reach an upper shelf, take the goods from there and place them inside the cabin, get off with the selected goods.

OP can be used in all environments where the goods must be taken from the highest positions.

The machine has been designed to support a certain maximum load lifted and this includes, in total:

- operator weight to be calculated as 80kg avg per operator
- weight of the remaining goods not exceeding the maximum lifting capacity (depending on the OP model)



The machine has been designed to disable its movement when the cab is activated. The cab can only be activated and deactivated from its internal control panel.

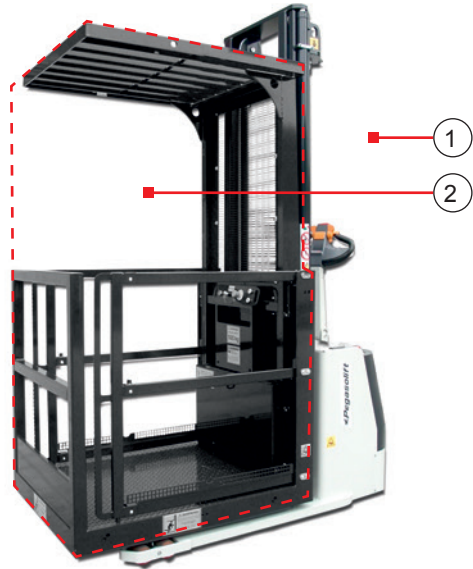
The machine's rudder head is completely deactivated when the cab is active. This is to prevent any movement of the machine driven by other people, standing on the ground floor of the rudder head when the cab is activated.

The interior control panel of the cab can only be used to raise and lower the cab to reach the higher shelves and back down to the ground level.



1. Mast
2. Cabin
3. Stacker

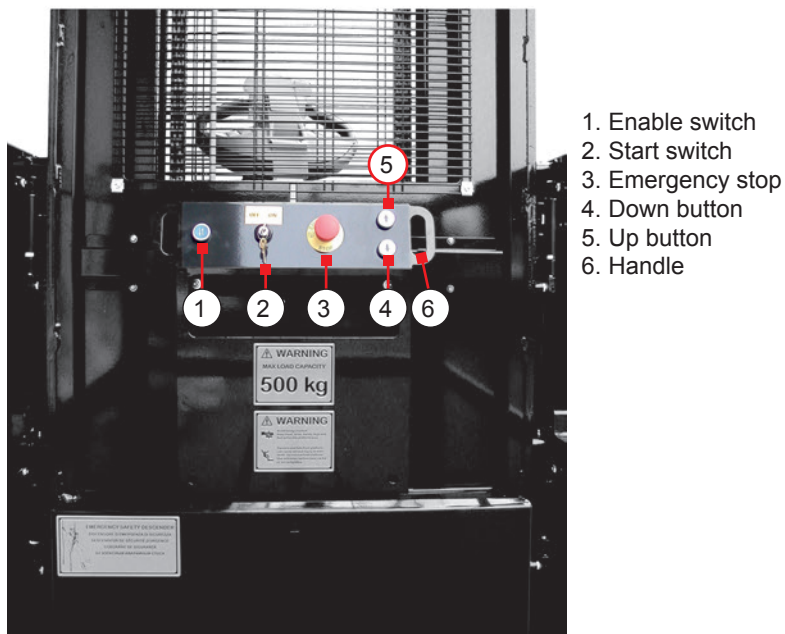
**Lifting**  
  
  
**Descending**



4. Protection grid for the upright
5. Mast
6. Battery box cover
7. Rear cover

**Movement forward**  





The equipment of the Order Picker is:

**1. Disconnect switch of the battery:**

allows to disconnect the electronic system from the battery; press it to turn off the stacker, turn it clockwise until it clicks to turn it on.

**2. Battery charge indicator:** shows the status of the battery through the illuminated LEDs. Report electronic unit errors.

**3. Start switch**



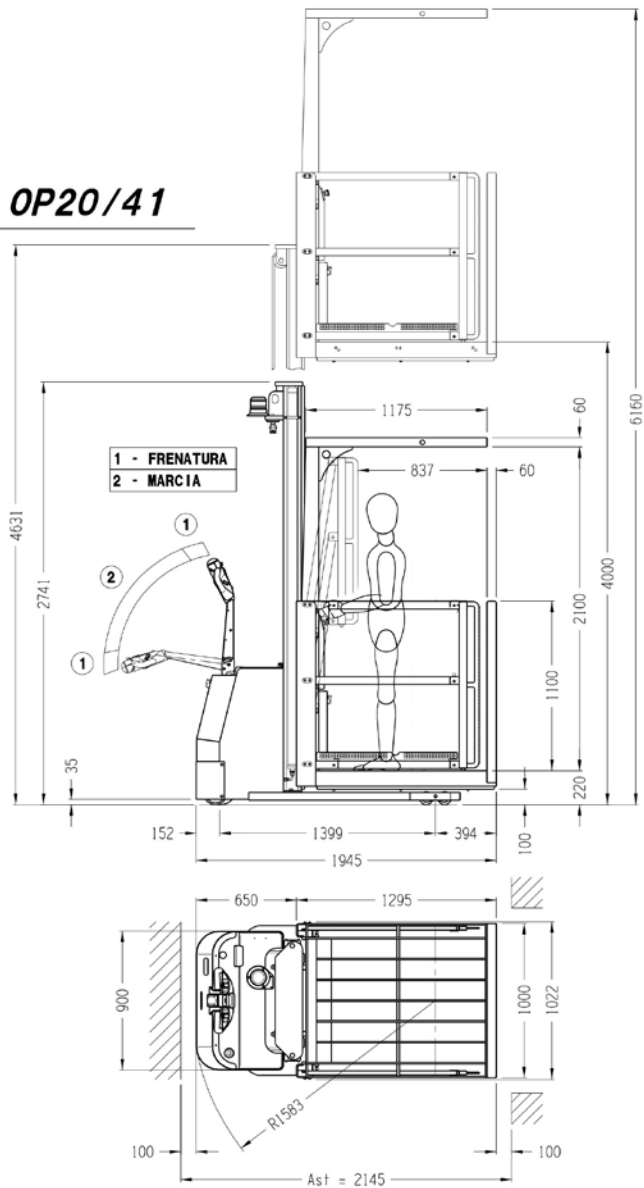
The rudder head has the following controls

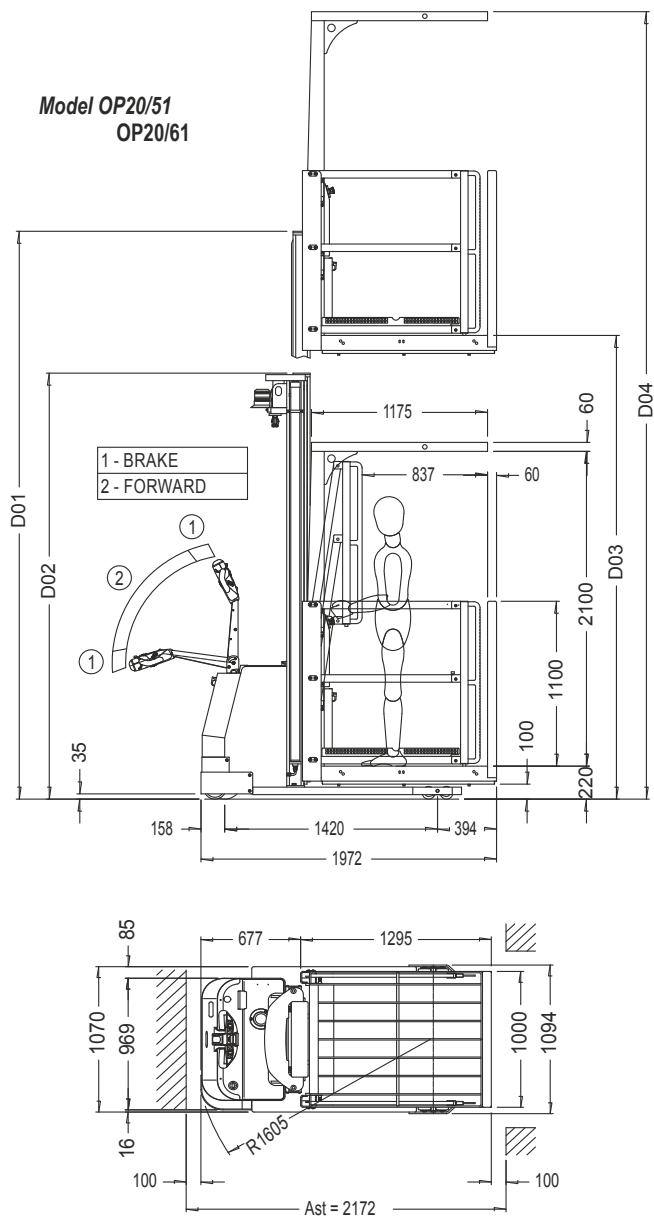
1. *Trumpet*
2. *Accelerator to move the stacker back and forth.*
3. *Fast speed selector (rabbit): the stacker has maximum speed and moves only with the tilting rudder. Slow (turtle): the stacker has a speed reduced by 50% and also moves with the rudder in a vertical position.*

4. *Antisquash button:* in the event of an impact of the order picker against the operator, the button comes into contact with the operator's body: the stacker stops and moves slightly in the opposite direction, leaving the operator free.



## 4.2 Dimensions





<b>Model</b>	<b>OP20/41</b>
Nominal capacity (operator+goods)	500 kg
Mast type	DUPLEX
Weight (without battery)	1934 kg
Battery box dimensions (W×L×H)	220 × 808 × 565 mm
Travel speed (with/without load)	5,0 - 6,0 km/h
Lifting speed (operator only)	0,16 m/s
Descending speed (operator only)	0,28 m/s
Max gradeability (with/without load)	5,0 %
Max flatness error of the floor	1,0%
Front roller size	n° 2+2 ø 85 × 90 (polyurethane)
Rear roller size	ø 230 × 75 - ø 150 × 50 (polyurethane)
Brake	Electromagnetic
Traction motor alternate current (AC)	1.200W
Traction motor direct current (DC)	3.000W
Electronic controller of alternate current (AC)	24V 250A

Note: Max 2 operators. Each operator weight max 80Kg

<b>Batteries</b>	<b>Weight</b>
Traction, acid 24V 240Ah	236 kg
Traction, acid 24V 270Ah	254 kg
Traction, acid 24V 315Ah	262 kg
Traction, acid 24V 345Ah	275 kg
Traction, acid 24V 375Ah	290 kg
Traction, GEL 24V 225Ah	--- kg
Traction, GEL 24V 261Ah	--- kg
Traction, GEL 24V 285Ah	278 kg
Traction, GEL 24V 330Ah	--- kg

<b>Model</b>	<b>OP20/51</b>	<b>OP20/61</b>
Nominal capacity (operator + goods)	400 kg	300 kg
Mast type	TRIPLEX	
Weight (without battery)	2110 kg	2152 mm
Mast extended height D01	5697 mm	6696 mm
Mast lowered height D02	2509 mm	2842 mm
Cabin lifting height D03	5000 mm	6000 mm
Max height D04	7160 mm	8160 mm
Battery box dimensions (W x L x H)	220 x 808 x 565 mm	
Travel speed (with/without load)	5,0 - 6,0 km/h	
Lifting speed (only operator)	0,16 m/s	
Descending speed (only operator)	0,28 m/s	
Max gradeability (with/without load)	5,0 %	
Max flatness error of the floor	1,0%	
Front double rollers dimensions	n° 2 + 2 rollers ø 85 x 90 (polyurethane)	
Rear wheels dimensions	ø 230 x 75 - ø 150 x 50 (polyurethane)	
Brake	Electromagnetic	
Traction motor power - alternate current (AC)	1.200 W	
Pump motor power - direct current (DC)	3.000 W	
Eletronic controller - alternate current (AC)	24V 250A	

Note: Max 2 operators. Each operator weight max 80Kg

<b>Battery</b>	<b>Weight</b>
Traction, acid 24V 240Ah	236 kg
Traction, acid 24V 270Ah	254 kg
Traction, acid 24V 315Ah	262 kg
Traction, acid 24V 345Ah	275 kg
Traction, acid 24V 375Ah	290 kg
Traction, GEL 24V 225Ah	--- kg
Traction, GEL 24V 261Ah	--- kg
Traction, GEL 24V 285Ah	278 kg
Traction, GEL 24V 330Ah	--- kg



### 4.3 Environmental conditions

The equipment does not require particular environmental conditions. It must be installed in an illuminated, aired industrial building with a solid, leveled floor.

The equipment is suitable for operating in environments that are:

- temperature between + 5° and + 40° C with average temperature around 35° C.

It is forbidden to use the equipment in environments that are:

- dusty;
- in corrosive atmosphere;
- at risk of fire;
- in an explosive atmosphere.



**NOTE: the equipment is not suitable for working in environments with an explosive / corrosive atmosphere / with an excessive presence of dust.**

### 4.4 Technical data

The following are the main technical data concerning the equipment in question:

OP20/41	Maximum capacity	500 kg	
	Equipment weight	1934 kg	without battery
	N ° person on the platform	max. 2	
OP20/51	Maximum capacity	400 kg	
	Equipment weight	2110 kg	without battery
	N ° person on the platform	max. 1	
OP20/61	Maximum capacity	300 kg	
	Equipment weight	2152 kg	without battery
	N ° person on the platform	max. 1	

**Tab. 4-4.1**

### 4.5 Standard supply

The equipment is supplied complete for commissioning.

It is supplied with:

- Instruction Manual for Use and Maintenance;
- Declaration of Conformity;
- Identification plate.

### 4.6 Operation

#### Before the use

- Read the instructions for use and be informed of the safe use of the machine;
- Check the presence and correct functioning of the safety devices;
- Check the operation of the emergency stop button;
- Before starting the machine, make sure that there are no foreign bodies (screwdrivers, keys, screws, etc.) on the machine;

- Make sure that starting up the machine is not dangerous for the machine itself or for people around it;
- Wear clothing that can not become entangled with moving parts (for example: scarves, overalls or gowns with sleeves not closed at the wrists), do not keep long hair loose;
- Wear personal protective equipment (PPE);

#### **During the use**

- The protection or safety mechanisms must never be deactivated during the production cycle of the machine, except temporarily when it is specifically requested for a maintenance or other operation and in any case with the system deactivated;
- The machine must be started only by specialized personnel, who have received specific training and training;
- Check that there are no grease or oil residues on the floor, and any objects that can cause the operator to slip or trip over the work area;
- Do not operate the machine without checking the smooth running of all operations;
- Only use the machine to carry out the operations for which it was designed;
- It is forbidden to change the settings of the control devices or the instruments applied to the machine without being authorized and without knowing how it works;
- Do not intervene on the machine in operation and do not approach the moving parts;
- While the machine is running, make sure that there are no leaks of oil or other liquids; verify the regular functioning of the electrical components, without neglecting any suspicious odors or noises;
- Pay attention to the command instruments; replace them when they are damaged;

**1**



Turn on the red knob, turning it clockwise 90 ° until the pointer is ON.

**2**



Battery indicator lights up

**3**



Turn the key la chiave on "ON"

4



Choose in which mode to activate the speed selector.

The **“turtle”** mode is the recommended option. In this mode the machine can also be driven with the tiller in a vertical position.

The traction motor is 50%.

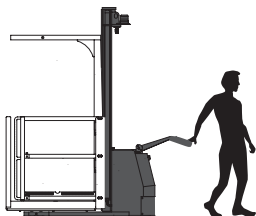
In **“hare”** mode the engine travels at maximum speed, it is recommended for long journeys. It can be activated only with a folded rudder.

5



Lower the rudder to activate it

6



During transport, the stacker must not be pushed. It must be gripped by pulling it in the desired direction.

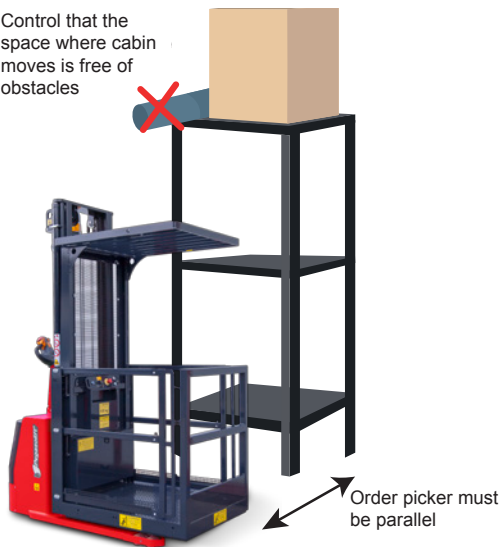
7



The yellow butterfly selector, positioned on the rudder head above the handle, allows you to drive the stacker

8

Control that the space where cabin moves is free of obstacles



The machine must be guided under the shelving, parallel by visually ascertaining that there are no obstacles that protrude. Furthermore, there must be the necessary space to allow passage to the platform.

9



Move the machine, open the door by sliding it upwards (A), get into the platform, close the door by sliding it downwards (B).

**10**

Wear the harness contained in the platform compartment (C).

**11**

Activate the platform by turning the key to ON mode. Once the cab is switched on, the rudder is automatically disabled.

**12**

During lifting and descending of the platform: the main operator must hold the handles and push with the thumbs the blue consensus button together with the up or down button. The cab doors are equipped with special sensors that stop the cab if they are opened

#### **After the use**

- Switch off the machine and remove the ignition key. The key must not remain on the cart when the operator moves away from it;
- Leave the machine (especially the workplace) clean and tidy.

## 5. Maintenance

### 5.1 Maintenance status

To keep the equipment in good condition, it is important to keep the equipment clean. Check that there are no damaged or worn parts and in this case request spare parts.

- Check that the equipment is complete with all components before using it;
- After each use check that the equipment is not damaged;
- Check the tensioning of the lifting chains
- Check the battery status
- Check the status of the wheels
- Check the correct functioning of the emergency stops and micro door and chain control

#### LIST OF PARTS TO MAINTAIN

<b>BRAKES</b>	<b>Maintenance interval</b>
Test the brakes and regulate them if it is necessary	1000 hours
Check the magnetic brake air gap, adjust it if necessary	1000 hours*

<b>ELECTRIC SYSTEM</b>	<b>Maintenance interval</b>
Test the warnings and safety devices according to the operating instructions	1000 hours*
Test the accessories for cables and motors	1000 hours
Test the instruments, screens and switches controls	1000 hours
Check the settings of the micro-switches	1000 hours
Check the contacts and transmitters	1000 hours
Check the category of fuses	1000 hours
Check the wear of the hydraulic motor's carbon brush, replace it if necessary	1000 hours
Make sure that the cable connections are secure and check if they are damaged	1000 hours

<b>POWER SUPPLY</b>	<b>Maintenance interval</b>
Visually inspect the battery and the battery elements	1000 hours*
Check that the battery cable connections are secure, grease the terminals if necessary	1000 hours*
Check the acid density, acid level and battery voltage	1000 hours*
Check the battery connector if it is damaged, test it, and make sure it is secure	1000 hours

<b>TRAVEL</b>	<b>Maintenance interval</b>
Check the transmission for noise and leakage	1000 hours
Replace transmission lubricant if service time is exceeded (10,000 hours)	1000 hours
Check the suspension and wheel accessories	1000 hours*
Check the wheels for wear and damage	1000 hours*
<b>HYDRAULIC OPERATIONS</b>	<b>Maintenance interval</b>
Test the hydraulic function checks and make sure the labels are present and complete	1000 hours*
Check the cylinders and piston rods for damage and leakage, and make sure they are secure	1000 hours*
Check the settings and wear levels of skates, moving parts in contact with each other and stops and adjust if necessary	1000 hours*
Visually inspect the mast bearing and check the surface wear level	1000 hours
Check that the hydraulic hoses, pipelines and connections are secure, check for leaks or damage	1000 hours
Check the loading chain and tensioning settings if necessary	1000 hours
Check the lateral release of the mast connections and the load connection (forks, FEM plate, ...)	1000 hours
Test the hydraulic system	1000 hours
Check the hydraulic oil level and fill if necessary	1000 hours
Replace the hydraulic oil with 2000 hours of service added	2000 hours
<b>PERFORMANCE LEVELS</b>	<b>Maintenance interval</b>
Perform a run test with the rated load	1000 hours*
General lubrication	1000 hours
Lubricate the forklift	1000 hours*
<b>STEERING</b>	
Check the cylinder head bearings, steering operation and steering teeth and / or chains. Lubricate the steering toothing and / or the steering chain	1000 hours*

**Tab. 5-1.2**

## 5.2 Special precautions

When carrying out maintenance and / or repair work scrupulously follow the instructions below:

- Before starting work, expose a sign indicating “MAINTENANCE EQUIPMENT” in a clearly visible position.
- To access the highest parts of the equipment, use the means suitable for the operations to be carried out.
- At the end of the work, restore and fix all the protections removed correctly.



**The manufacturer is not responsible for failure to comply with the above recommendations and for any other use that is not or not mentioned in these instructions.**

## 5.3 Cleaning

Cleaning of the lifting accessory can be carried out by the operator in charge and it is periodically necessary to free the structure and moving elements from accumulation of dust or dirt. Do not use flammable liquids to clean the vehicle. Before starting work, provide for and avoid anything that may cause sparks (e.g. following a short circuit). In case of battery-powered vehicles, unplug the power cord of the battery. Clean electrical and electronic building groups with weak compressed air and with a non-conductive, antistatic brush.

If you clean the vehicle with a water jet or a high-pressure cleaner, first cover all electrical and electronic groups thoroughly, as moisture can be due to malfunctions.

It is forbidden to clean the vehicle with a jet of steam.

### DETERGENTS LIST

- |   |                                 |
|---|---------------------------------|
| 1 | Water (for battery cap systems) |
|---|---------------------------------|

**Tab. 5-3.1**

## 5.4 Wear materials\*

### LIST OF WEAR MATERIALS

Code	Description
1531	Z ø 85x90 roller with bearings
EL148P-1250	Polyurethane 92 shore wheel ø 230x75
200544138029	BUCHER BUCHER 24V-3000W motor brushes (4pcs)
S502628	Castor wheel without support ø 150x50 SLG version 78SHORE
10002.102	Adjustable sliding block

**Tab. 5-4.1**

**\* Standard wear, extraordinary wear valuated case by case**



## 6. Accessories and spare parts

### 6.1 Assistance

For any kind of information concerning the installation, use and maintenance of the equipment, the Manufacturer is always considered available.

On the Client's side, it is advisable to ask the questions in clear terms, with references to this Manual and to the instructions listed.

### 6.2 Spare parts



**ALWAYS USE ORIGINAL SPARE PARTS.  
FOR ANY SPARE PARTS, CONTACT THE MANUFACTURER.**

The use of non-original spare parts is not recommended: in the event that this happens, the warranty conditions (if still existing) and Manufacturer's Responsibility in the use of the equipment and for possible damages to people and / or things will lapse. . See exploded for Spare Parts at the end of this document. For the management of spare parts the manufacturer recommends using the attached form. To request the spare parts, fill out the form, taking care to insert all the required information, and send it to the Manufacturer.

- In order to interact in the most effective way with our technicians when ordering spare parts, please follow the procedure below:
- call the Company's spare parts service and describe the type of fault found
- describe the non-functional detail (attach exploded)
- trace the part of the equipment in which the non-functional part is located (attach exploded)
- order the details using the Order Form on the next page

#### SPARE PARTS REQUEST FORM

#### APPLICANT DATA

BUSINESS NAME

NAME SURNAME

ADDRESS

LOCATION

POSTAL CODE

PROVINCE

TELEPHONE

FAX

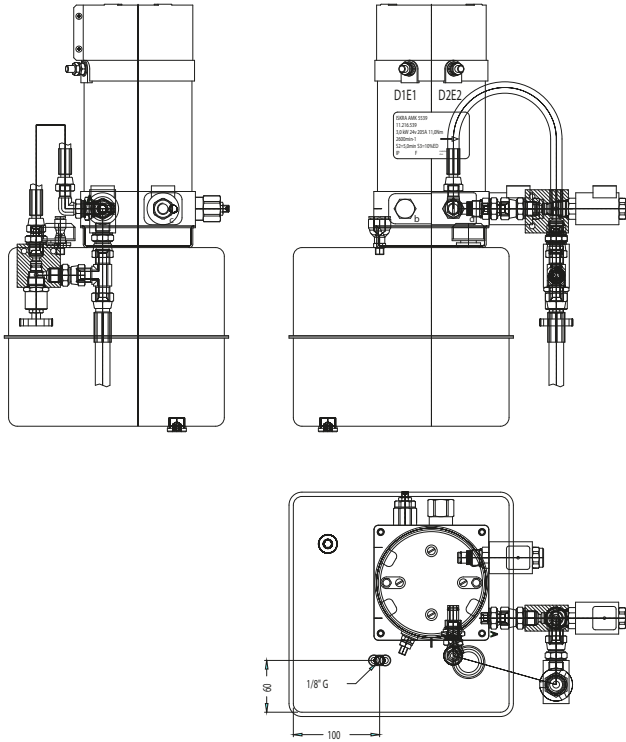
E-MAIL

EQUIPMENT DATA	EQUIPMENT NAME			
	MODEL			
	SERIAL			
	YEAR OF CONSTRUCTION			

LIST OF PARTS TO ORDER	ID	P/N	DESCRIPTION	QUANTITY

NOTES	
-------	--

## POMPA

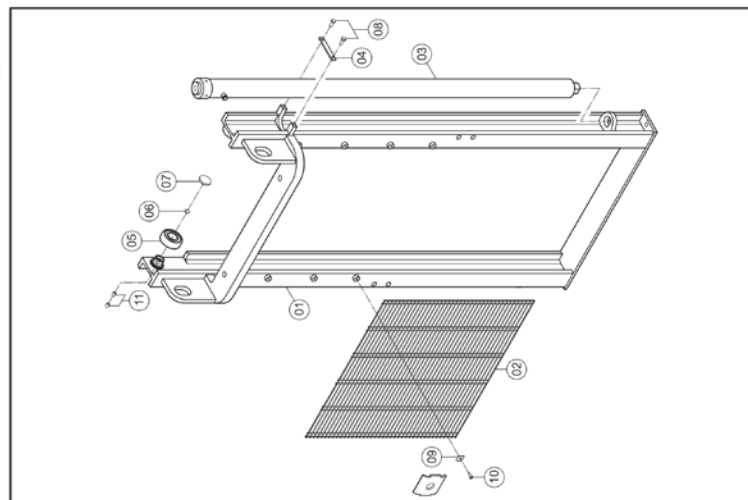


ORDER PICKER TRIPLEX - 13/11/2014  
 MONTAGGIO POMPA CON RUBINETTO DISCESA DI EMERGENZA  
 VERSIONE MONTANTE TRILPEX CON RACCORDO A 2 VIE PER TUBO RILSAN Ä 6

Tav. 02.DF.00.000.000

# ORDER PICKER

Esplso montante fisso DUPLEX (versione standard senza finecorsa di sollevamento)



POS.	CODICE	DESCRIZIONE	Q.U.
01		Montante fisso DUPLEX	01
02	MTPL13DPR2500	DUPLEX H=2500 - Rete di protezione per montante DUPLEX H2500	01
	MTPL13DPR2600	DUPLEX H=2600 - Rete di protezione per montante DUPLEX H2600	01
	MTPL13DPR3200	DUPLEX H=3200 - Rete di protezione per montante DUPLEX H3200	01
	MTPL13DPR3600	DUPLEX H=3600 - Rete di protezione per montante DUPLEX H3600	01
	MTPL13DPR4200	DUPLEX H=4200 - Rete di protezione per montante DUPLEX H4200	01
	MTPL13DPR4500	DUPLEX H=4500 - Rete di protezione per montante DUPLEX H4500	01
03	CTP1130M501155	Cilindro idrodinamico a sfere per montante DUPLEX H2500	02
	CTP1130M501455	Cilindro idrodinamico a sfere per montante DUPLEX H3200	02
	CTP1130M501555	Cilindro idrodinamico a sfere per montante DUPLEX H3600	02
	CTP1130M501755	Cilindro idrodinamico a sfere per montante DUPLEX H4200	02
	CTP1130M502055	Cilindro idrodinamico a sfere per montante DUPLEX H4500	02
04	MT054	Plastina superiore fissaggio pistoni	01
05	MRS801	PL13 & PL16 - Rotella a sfere ø70	02
06	AS 300PS	PL20 - Rotella a sfere ø78	02
07	10002.102	Contrasto patino	02
08	9142	Vite TCEI M6x20 UN5531	02
09	Commercio	Plastina di fissaggio rete di protezione	04
10	Commercio	Vite TCEI M6x16 UN5531	(*)
11	Commercio	Vite (grano) M10x12 UN5523	(*)

(\*) La quantità richiesta dei particolari pos. 09 e 10 dipende dall'altezza di sollevamento del carrello:  
 - Per H=2,5 - 2,9 - 3,2 Q.U. = 8 pz.  
 - Per H=3,6 - 4,2 - 4,5 Q.U. = 12 pz.

ATTENZIONE! PER QUALSIASI ORDINE RIGUARDANTE I PARTICOLARI DEI MONTANTI È NECESSARIO INDICARE ESPPLICITAMENTE L'ALTEZZA DI SOLLEVAMENTO DEL CARRELLO

MOTOR-DRIVE PUMP

N	Quantity	Code	Description
1	1	1250	Wheel 230x75x27.5 PU 95SHA
2	1	1564	ID plate
3	1	2455	Brake fixed couple K 2.12 Nm 24V
4	1	3100	Motor 1.2 Kw
5	1	3100	Compressor 1.2 Kw
6	1	3200	Adapter T110 R 128.9
7	6	50203	Screw TE M12x25 UNI5739 DIN933 8.8
8	5	50286	Screw TCEI M12x55 UNI5931 DIN912 8.8 galvanized
9	6	50005	Washer crower ø 12.5 UNI1751 A
10	1	55009	Sleeper for shaft ø 15 UNI7435 DIN471
11	1	56001	SAE OJ 80W/90

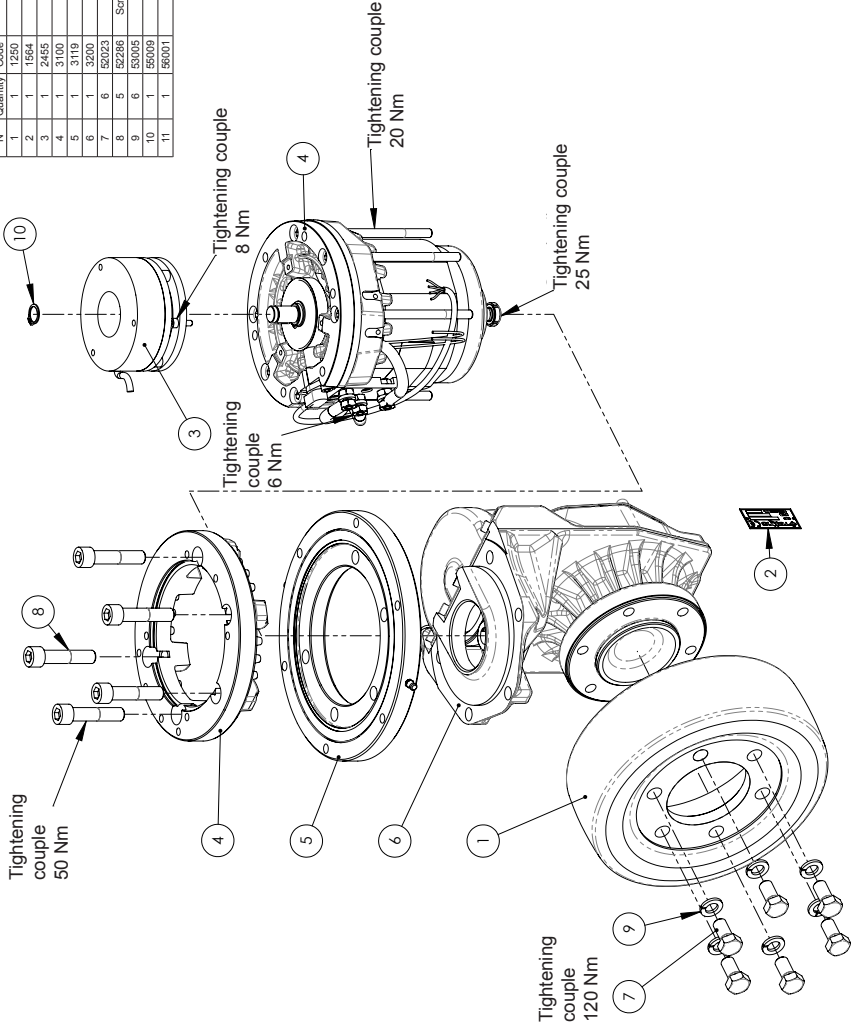
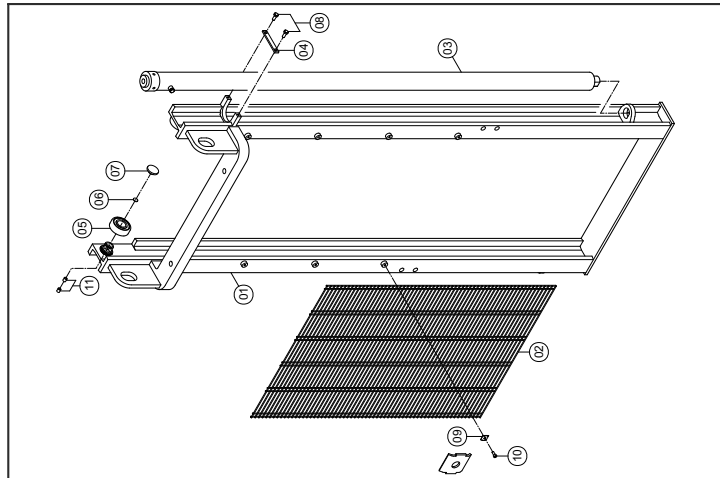


Table 02.TF-00.000.000

**TRIPLEX ORDER PICKER**

TRIPLEX fixed mast exploded view (standard version without max lifting height limit switch)

POS.	CODE	DESCRIPTION	U.Q.
01	MTPL131TR4500	TRIPLEX fixed mast	01
02	MTPL131TR4500	TRIPLEX fixed mast	01
03	MTPL131TR4500	TRIPLEX fixed mast	01
04	MTPL131TR4500	TRIPLEX fixed mast	01
05	MTPL131TR4500	TRIPLEX fixed mast	01
06	MTPL131TR4500	TRIPLEX fixed mast	01
07	MTPL131TR4500	TRIPLEX fixed mast	01
08	MTPL131TR4500	TRIPLEX fixed mast	01
09	MTPL131TR4500	TRIPLEX fixed mast	01
10	MTPL131TR4500	TRIPLEX fixed mast	01
11	MTPL131TR4500	TRIPLEX fixed mast	01

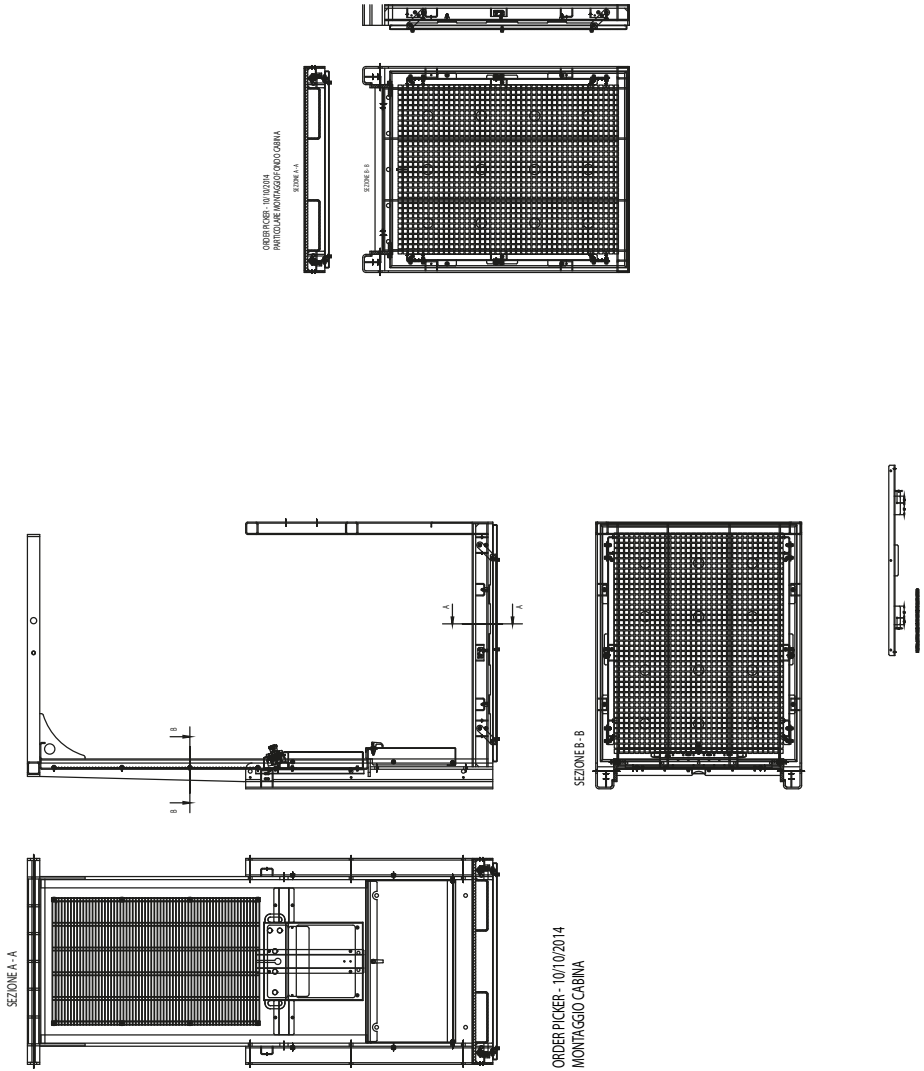


(\*) The unitary quantity of details position 08 and 10 depends from the lifting height:

- For lifting height H= 4,5 - 5,0 ..... U.Q. = 8 pcs.
- For lifting height H= 5,5 ..... U.Q. = 12 pcs.

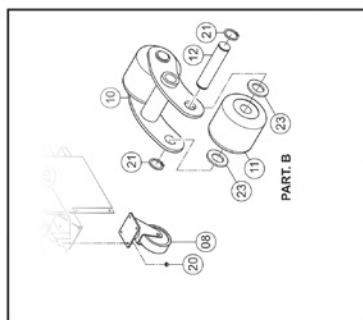
ATTENTION! FOR ANY ORDER CONCERNING DETAILS OF THE MASTS, IT IS EXPRESSLY REQUIRED THE INDICATION OF THE PALLET STACKER ELEVATION HEIGHT

## CABIN

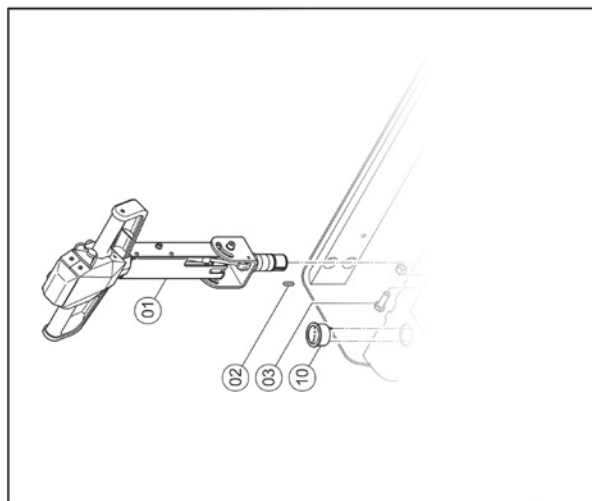


Tav. 07.00.00.000.000  
**ORDER PICKER**  
*Esposio cassoncino*

POS.	CODICE	DESCRIZIONE	Q.U.
08	7321	Complessivo ruota pinzellante	01
	0102	Supporto e traspirante ET0	01
	0103	Rullo per pneumatico Z 6150/95	01
09	CS023.T	PL 13 - Perno ruota carrellino anteriore	02
	CS019.T	PL 16 & PL 20 - Perno del carrellino anteriore	02
10	CS122	PL 13 - Complessivo carrellino anteriore	02
	CS108	PL 16 & PL 20 - Complessivo carrellino anteriore	02
11	1533	PL 13 - Rullo Z 680x70	04
		PL 16 & PL 20 - Rullo Z 680x90	04
12	CS023.T	PL 13 - Perno ruota carrellino anteriore	04
	CS020.T	PL 16 & PL 20 - Perno ruota carrellino anteriore	04
13	CS109	Staffa fissaggio connettore SB175	01
14	SB175A	Connettore a contatti sfioranti carrellino anteriore	01
15	Commercio	Vite TCEI M6x16 UNIS531	04
16	Commercio	Vite TC impronta a croce M6x25 UN1797	02
17	Commercio	Vite TE M10x25 UNIS739 + Rosetta e 10.5x20 UNIS692	02
18	Commercio	Vite TBEI M6x20 UNIS7360 + Rosetta e6.4x12.5 UNIS692	02
19	Commercio	Vite TSPEI M10x20 UNIS533	04
20	Commercio	Vite TE M10x25 UNIS739 + Rosetta e 10.5x20 UNIS692 + Dado autobloc. M10 DN935	04
21	Commercio	Anello elastico di sicurezza per alberi e20 UN17435	08
22	Commercio	Spina elastica e6x24 UNIS674	02
23	Commercio	Rosetta e27x37 UNIS692	08

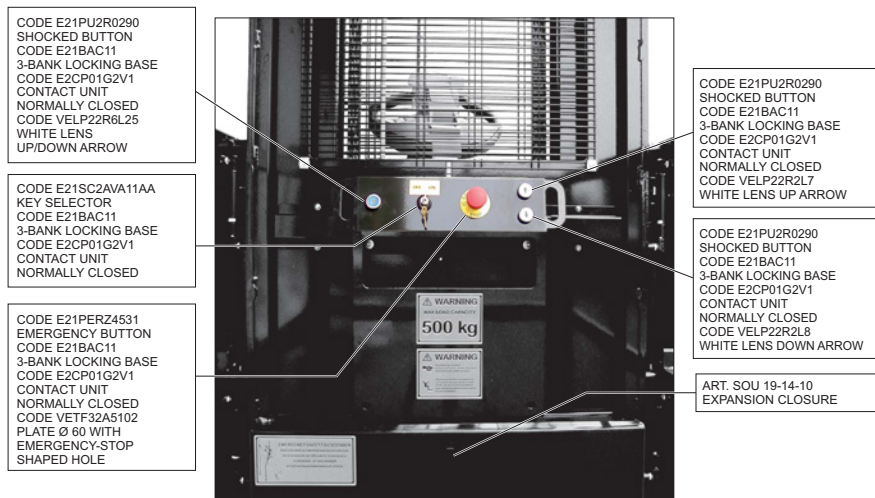
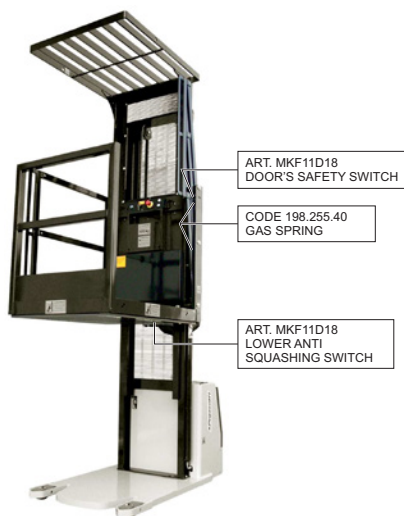




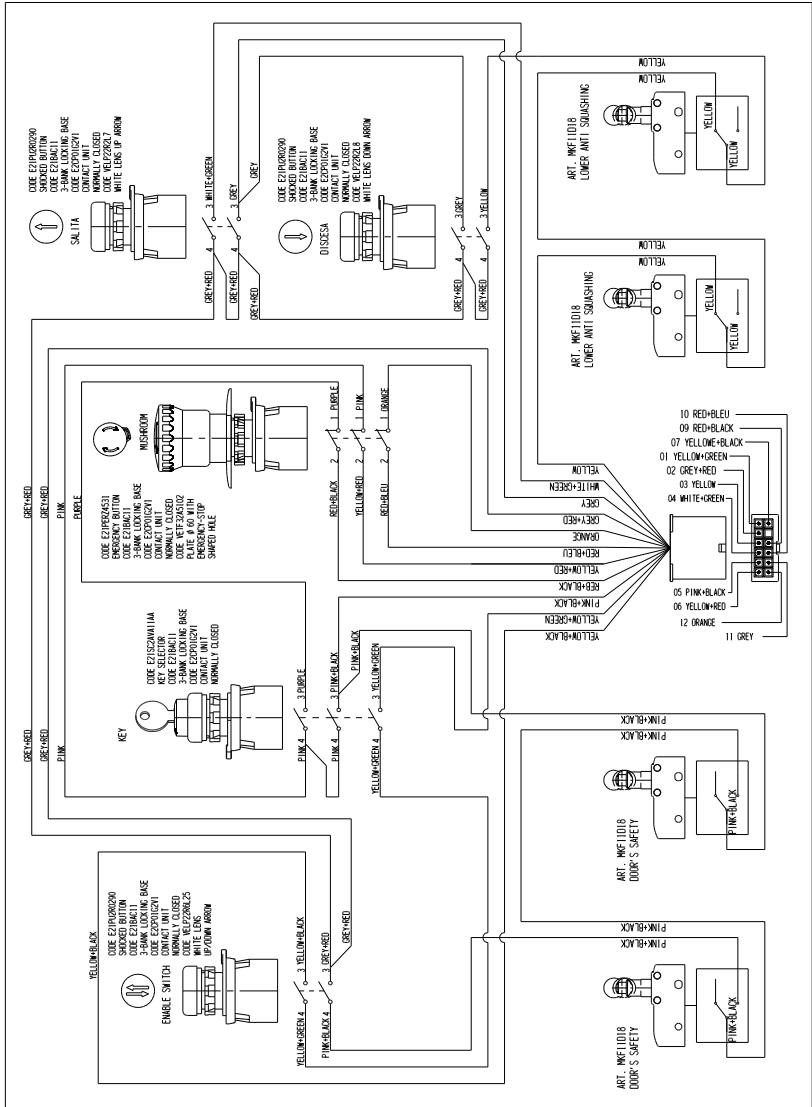


POS.	CODICE	DESCRIZIONE	Q.U.
01		Timone standard	01
02	Commercio	Lingetta 6x6x28 UNIS604-A	01
03	Commercio	Vite TE M14x40 UNIS739 + Dado M14 UNIS538	01
04	01	Centralina elettronica TRIP MOS MICRO EXO 200 424V	01
05	21.068.000	Fascetta con gomma per vite ø6 e tubo ø30	01
06	Commercio	Vite TCEI M8x16 UNI 531	01
07	CS1035.T	Puleggia dentata HTD 36-5M-25 per piantone sterzo	01
08	CS167	Flangia cuscinetto superiore piantone elettronico	01
09	32008AV	Nelco	02
10	9227	Indicatore di carica batteria	01
11	EL090	OPTIONAL - Indicatore di carica batteria con blocco forche e contatore	01
12	9227/STF	Staffa fissaggio indicatore di carica batteria (solo in kit ricambio con part. 37)	01
13	9227/BF	Boccola fissata indicatore di carica batteria (solo in kit ricambio con part. 37)	02
14	Commercio	Vite TCEI M8x16 UNI 531	04
15	CS119	Supporto cuscinetto timone	01
16	CS149	Puleggia dentata HTD 36-5M-25 per piantone elettronico	01
17	CS151	Piantone sterzo per elettronico R250MC	01
18	EL010	FL13 - Elettronica eccitazione in serie R250MC 24V 1200W	01
19	GT-665-SMGT-25	FL16 & FL20 - Elettronica eccitazione in serie R250MC 24V 1400W	01
20	6009-2RS1	Cinghia dentata	01
21	32008XQ	Cuscinetto radiale a sfere ø40xØ58x15	02
22	21.021.000	Cuscinetto a rulli conici ø40xØ58x16	02
23	21.068.000	Fascetta con gomma per vite ø6 e tubo ø6	01
24	PFT35TF	Fascetta con gomma per vite ø6 e tubo ø30	01
25		Supporto Y ø35 con grani di bloccaggio composto da:	01
26		Flangia in lamiera per cuscinetto supporto Y ø35 con grani di bloccaggio	02
27	VAR207.2F	Cuscinetto Y ø35 con grani di bloccaggio	01
28	Commercio	Arretratore di sicurezza per alberi ø40 UN17435	01
29	Commercio	Arretratore di sicurezza per alberi ø38 UN17435	01
30	Commercio	Vite TE M10x40 UNIS739 + Rosetta ø10,5x17,5 UNI1751-A + Rosetta ø10,5x20 UNIS692	02
31	Commercio	Vite TE M14x60 UNIS739 + Rosetta ø14,2x24,1 UNI1751-A + Rosetta ø15x28 UNIS692	01
32	Commercio	Vite TE M10x25 UNIS739 + Rosetta ø10,5x20 UNIS692 + Dado autoblocc. M10 DIN6935	02
33	Commercio	Giunto autobloccante M40x1,5	01
34	Commercio	Dado autoblocc. M6 DIN985	01
35	Commercio	Vite TCEI M8x20 UNI 531	01
36	Commercio	Vite TE M10x25 UNIS739 + Rosetta ø10,5x20 UNIS692	04
		Vite TC riportata a croce M5x10 UN17887 + Rosetta ø5,3x10 UNIS692	01

03/07/2019: COMPONENTS SPARE PARTS FOR THE CABIN



07/04/2015 - WIRING PLAN OF THE CABIN OF ORDER PICKER SERIES OP20 / 41  
 - DOOR'S SAFETY SWITCH CONNECTED FROM NORMALLY CLOSED AND NORMALLY OPEN  
 - YELLOW+GREEN OF ENALBE SWITCH PUT UNDER KEY



## 7. Additional instructions

### 7.1 Waste disposal

When dismantling it is necessary to separate the plastic parts and the metal parts, which must be sent to differentiated collections in compliance with the current regulations.

As far as the metallic mass of the equipment is concerned, the division between the ferrous parts and those in other metals or alloys is sufficient for a correct sending to recycling by fusion.



### 7.2 Safe working procedures

Inform appropriately and instruct the staff about the specific procedures for:

- Safe use of the equipment.
- Emergency situations.

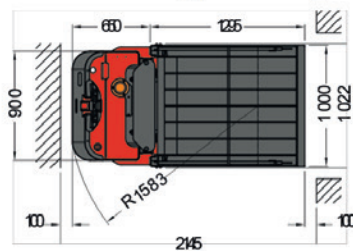
# Attachments

## Technical drawing

## Technical specifications OP20

Model	OP20/41	OP20/51	OP20/61
<b>Total external dimensions of operator platform (LxWxH)</b>	1200 x 1000 x 2100 mm		
<b>Nominal capacity (operators +goods)</b>	500 kg	400 kg	300 kg
<b>Max. number of operators</b>	02	01	01
<b>Mast type</b>	Duplex	Triplex	Triplex
<b>Weight (without battery)</b>	1934 kg	2110 kg	2152 kg
<b>Extended mast height</b>	D10 4631 mm	5697 mm	6696 mm
<b>Mast lowered height</b>	D07 2741 mm	2509 mm	2842 mm
<b>Platform lifting height</b>	D12 4000 mm	5000 mm	6000 mm
<b>Max overall height</b>	D13 6160 mm	7160 mm	8160 mm
<b>Distance between front axle and forke toe</b>	D04	394 mm	
<b>Distance between axles</b>	D03	1399 mm	
<b>Total lenght</b>	D01	1945 mm	
<b>Batery box size (WxLxH)</b>	220 x 808 x 565 mm		
<b>Travel speed, w. / w.o. load</b>	5,0 - 6,0 km/h		
<b>Lift speed(only with operator)</b>	0,16 m/s		
<b>Lower speed, w. / w.o. load</b>	0,28 m/s		
<b>Max. gradeability, w. / w.o. load</b>	5,0 %		
<b>Max. planarity, error on the floor</b>	1,0 %		
<b>Double front rollers size</b>	n°2+2 ø 85 x 90 (polyurethane)		
<b>Rear wheel size</b>	ø 230 x 75 - ø 150 x 50 (polyurethane)		
<b>Brake</b>	Electromagnetic		
<b>Traction motor power alternate current (AC)</b>	1200 W		
<b>Pump motor power direct current (DC)</b>	3000 W		
<b>Electronic controller alternate current (AC)</b>	24V 250A		

1- BRAKING
2- RUNNING





## NOTE



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