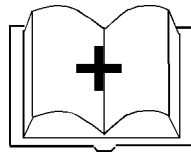


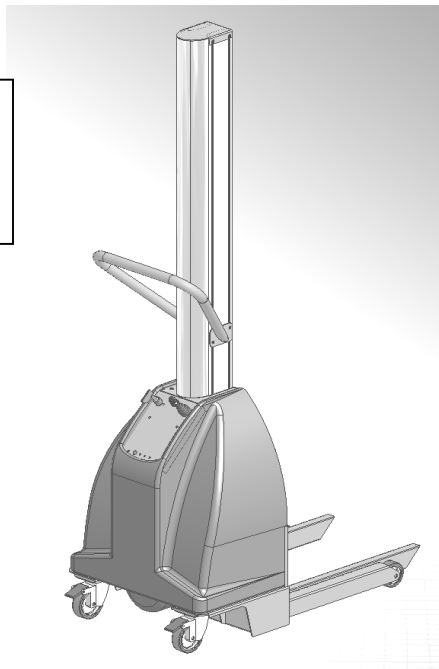
# OPERATING AND MAINTENANCE MANUAL

1



## NEW BINGO 2017

FOR THE SPECIAL  
VERSIONS Carefully read  
the recommendations  
given in the appendix



### TRANSLATION OF ORIGINAL INSTRUCTIONS

Per la vostra sicurezza, prima di eseguire qualsiasi operazione con il carrello, leggere  
con attenzione il presente manuale

For your safety and correct operations, please read carefully this manual before using it

**LEVANTE s.r.l.**

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NEWBINGO 2017-operating and maintenance+spare parts v.02072017



Congratulations on your purchase of a new lifter. Carefully read this manual containing the information necessary for personal safety, for forklift operation, its use, maintenance and driving. Always keep the Operating and maintenance booklet handy. If parts of this booklet are not understandable, contact our assistance service LEVANTE SRL SERVICE Tel. 0039 0386 801814 – Fax 0039 0386 801955.






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## 1. Main information and safety regulations

The manual is structured to be easily read and understood, using the symbols in the table, to support the operator and maintenance technician.

|   |                    |
|---|--------------------|
|  | HAZARD / ATTENTION |
|  | INDICATION         |
|  | CAUTION / WARNING  |

The instruction manual is a document issued by **LEVANTE S.r.l.** and an integral part of the machine. It is unambiguously identified to allow traceability and any subsequent references. This document must be kept and used through its operational life, even in the case of sale to third parties.

### 1.1 Purpose of the document

The main purpose of the instructions manual is to provide customers and personnel interacting with the machine the information necessary for its proper use and maintenance in optimal conditions, with particular regard for this to happen in maximum safety conditions. It is recommended to scrupulously observe the safety precautions throughout operation, service, repair and dismantling of the machine.

**Make sure that this operating and maintenance manual is read and understood by all personnel in charge of machine operation or intervention on the machine.**

### 1.2 Responsibilities and duties

The machine was built using resistant and durable materials, in full compliance with the construction standards applicable in the European Union.

**LEVANTE S.r.l.** is the machine importer on the market by the European Union and, as such, undertakes the burden to certify conformity with the legal provisions in force.

**LEVANTE S.r.l.** will not take any responsibility for non-compliance with the operating instructions provided in this manual and for use outside the machine use limits.

Pursuant to Italian Legislative Decree 81/2008, it is mandatory for the employer to ensure the safety of workers by appropriately training them on the correct use of the work equipment and informing them of the risks associated with misuse. Operators must be informed and trained by the employer of the proper use and maintenance of the forklift. Operators and maintenance technicians must comply with the general accident-prevention standards prescribed by EU Directives and legislation in the country of destination (Legislative Decree 81/2008 in Italy).

### 1.3 Maintenance/technical assistance of the machine

If you need any assistance, please contact **LEVANTE S.r.l.**

If the user fails to comply with this publication, we are not liable for problems or anomalies on the proper operation of the supply and on the validity of the warranty stipulated in the contractual phase.

### 1.4 Machine identification data

When the machine is first marketed, **LEVANTE S.r.l.** shall be identified as the importer of the machine in compliance with current legislation by means of the documents listed below:

- Declaration of conformity according to Annex II-Directive 2006/42/EC
- Marking plate
- Instructions manual



| LEVANTE SRL<br>I - 46035 Ostiglia MN<br>Tel 0386 801814<br>Fax 0386 801955 |          | CE   |          |
|--|----------|--|----------|
| Modello<br>Model<br>Modèle<br>Modell                                       | <b>1</b> | Tensione<br>Voltage<br>Voltage<br>Spannung                 | <b>5</b> |
| Serie/Anno<br>Serial/Year<br>Serie/Année<br>Serie/Jahr                     | <b>2</b> | Portata<br>Capacity<br>Charge<br>Tragkraft                 | <b>6</b> |
| Peso carrello<br>Truck weight<br>Poid chariot<br>Stapler Gewicht           | <b>3</b> | Sollevamento<br>Lifting<br>Lévé<br>Hub                     | <b>7</b> |
| Peso batteria<br>Battery weight<br>Poid batterie<br>Batterie Gewicht       | <b>4</b> | Baricentro<br>Load centre<br>Centre gravité<br>Schwerpunkt | <b>8</b> |

#### Identification plate

- |                     |                  |
|---------------------|------------------|
| (1) Model           | (5) Voltage      |
| (2) Serial no./Year | (6) Capacity     |
| (3) Forklift weight | (7) Lifting      |
| (4) Battery weight  | (8) Load centre* |

For no reason whatsoever must the data on the plate be altered.

An exact description of the lifter model and the serial number, will facilitate a quick and effective response by our technical assistance service.

\* "Load centre" is the distance of the load centre from the fixing plane of the lifting mean to the mast.

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**The lifter capacity depends on the load and the load centre distance from the heel of the fork.**

**The rated capacities refer to loads with a load centre distance from the mast not greater than 300 mm.**



For no reason whatsoever must the data on the plate be altered.

An exact description of the lift model and the serial number, will facilitate a quick and effective response by our technical assistance service.

If the plate is illegible, contact your dealer and request a replacement plate

## 1.5 Warranty

The descriptions and illustrations contained in this publication are non-binding. Without prejudice to the essential features of the described forklift, LEVANTE SRL reserves the right to change the parts, details and accessories as it deems appropriate to improve the product or for manufacturing or commercial needs, at any moment and without notice.

- The lift must only be operated by qualified personnel.
- During the time that the lift is entrusted to you, you must use it properly to avoid injury to people or damage to property.

The warranty period is set at 12 (twelve) months.

1. LEVANTE SRL commits to replace all those components which are defective due to an unequivocal manufacturing defect, excluding the battery, charger and electrical parts.

2. During the warranty period, the purchaser will be entitled to the sole replacement of the elements which, at the indisputable judgement of LEVANTE SRL are acknowledged as faulty.

3. This warranty does not cover:

- Damage caused by incorrect or improper use of the product by the user.
- Damage to property or people caused by tampering by unauthorised personnel.
- Damage deriving from atmospheric agents, fires and transport.
- All those parts that, due to their nature or destination, are subject to normal wear and tear. Also excluded: wheels and rollers, batteries, indicators, battery charger and electrical components.

4. Also excluded from this warranty are the transport or delivery expenses in general and the intervention costs for replacement or repair of the electrical or electronic faulty elements: these costs will only be reimbursed if LEVANTE SRL indisputably acknowledges, in writing, an effective and real fault at the origin.

#### LEVANTE s.r.l.

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 e-mail: commerciale@levantelift.it  
 NEWBINGO 2017-operating and maintenance+spare parts v.02072017



5. Requests for technical assistance must be sent directly to LEVANTE SRL, always specifying the type of machine and the serial number.

6. Any assistance and repair must be authorised in advance by written approval and agreed by the LEVANTE SRL assistance centre. Any intervention carried out without authorisation, or not complying with the above, automatically voids the validity of the warranty.

7. Defective parts replaced under warranty must always be returned to LEVANTE SRL within and no later than 60 days from shipment of the spare parts, for the due inspections. The non-receipt of the defective parts automatically voids the validity of the warranty with consequent immediate invoicing of the shipped replacement parts.

8. LEVANTE SRL assumes no liability for direct or indirect damages, however incurred by the purchaser or by third parties, for the employment and use of the products covered by this publication

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## 1.6 Accident prevention and forbidden uses

The Levante stackers are entirely made in compliance with the legal provisions in force regarding safety of machinery and, in particular, in compliance with the essential safety requirements of Machinery Directive 2006/42/EC and harmonised standards applicable to the product (UNI EN ISO 3691-5:2010).



**It is compulsory for operators and for personnel in charge of operating and servicing the forklift, to comply with the accident prevention standards in force. It is also recommended to pay particular attention to the following safety warnings:**

- None of the operating personnel must be under the influence of sedatives, drugs or alcohol and must be perfectly aware of the operating characteristics and hazards associated with use.
- The lift does not provide for passengers on board and should not be used to lift/transport people
- Pay attention to the warning pictograms placed on the machine.
- Observe the rules for corporate traffic.
- Prohibition to use the fork jib cranes as levers for lifting loads.
- Prohibition to lift loads beyond the capacity limit indicated on the marking plate.
- Prohibition to lift suspended loads or loads able to swing freely.
- Prohibition to handle the forklift with the forks lifted, except for goods loading and unloading operations.
- Prohibition to place the forklift in direct contact with food.
- Prohibition to place hands or feet under the forks.
- The weight of the load must always be placed in the centre of the forks, it is forbidden to load one fork only
- Use suitable clothing and footwear.
- DO NOT stand near the lift or in an area that can be reached by load falling or by lifting or lowering system. The operator is responsible for compliance with this provision.
- **DO NOT ALTER OR MODIFY THE FORKLIFT. It is forbidden to remove or modify the guards or the safety devices. If necessary, only contact qualified personnel, authorised by the manufacturer.**
- **If the guards are damaged, or any part thereof, immediately replace them. Use only original spare parts supplied by the manufacturer.**
- Perform maintenance after having discharged any residual energy from the electric circuits.
- Subject the lift to the preventive maintenance interventions provided by the manufacturer. All maintenance, repair, adjustment and inspection must be performed by authorised personnel only.
- Immediately inform management of any damage or failure that has arisen during your work shift. This applies to all incidents.
- Do not use the lift in the case of damage or defects such as to compromise the safety and working features. Not even if the lift has been repaired without the supervision or approval of authorised personnel.
- Always use original spare parts or commercial parts fully compatible with those assembled on the machine (ref. sections 3, 4, 5 and spare parts).



- Clean machine coatings with soft and dry cloths or slightly moistened with a light detergent. Do not use any type of solvent such as alcohol, benzene or thinner, as the treated surfaces may be damaged.
- Recharge machines in adequately ventilated areas and with an appropriate air exchange, in a dry place and away from heat sources.
- DO NOT open the battery covers near heat sources, naked flames or cigarettes, vapours of flammable substances.
- DO NOT tilt or overturn the battery as the corrosive liquids may leak and create a source of potential contact with the operator.

## 1.7 Notes on residual risks

### **OPERATORS MUST BE INFORMED AND TRAINED BY THE EMPLOYER ON THE RUNNING AND THE PROPER WORK PROCEDURES CONCERNING USE AND MAINTENANCE OF THE MACHINE.**

The machine was built in compliance with the rules of good practice, performing the necessary tests to verify the correct construction.

For its nature, the machine has risks due to the safety conditions during use, due to the stability and risk of tipping.

In detail there are:

- when handling heavy loads, risks pertaining to both lifting forces (in case of manual operation) and pushing/pulling and rotational power;
- risk of crushing feet under the load, for which it is mandatory to wear safety shoes;
- risk of tipping onto one side, in particular when transiting on a slope, moving with the load lifted, transporting swinging loads or with the load centre substantially offset with respect to the longitudinal median surface of the forklift, covering irregular floors, when colliding with fixed and/or mobile structures, the load centre is incorrectly evaluated;
- risk of tipping backwards, in particular when the fork jib cranes or the platform is stationary on an obstruction;
- crushing, shearing and entanglement with lifting parts, in the chains or due to the fall or tipping of the machine towards the operator's working position.



: The flat batteries and storage batteries contain solid waste and liquids that are toxic to human health and for the environment. Take the due precautions during removal and disposal against the risk of contact with corrosive products. Absorb any waste liquid generated when handling the battery or during dismantling of the hydraulic lifting system, using suitable absorbing material. Dispose of storage batteries and batteries in compliance with the environmental legislation in force: store the components, awaiting withdrawal, in airtight containers that do not leak and do not expose them to atmospheric agents (rain), and entrust their disposal to a company associated with COBAT (Consorzio Obbligatorio Batterie Esauste (Exhaust Batteries Mandatory Consortium)).

Dispose of waste oil in compliance with the environmental legislation in force, entrusting withdrawal and disposal to a company associated with the Consorzio Obbligatorio degli Oli Usati (Mandatory Consortium of Waste Oils).

### **THE FORKLIFT MUST ONLY BE USED BY AUTHORISED PERSONNEL, PROPERLY TRAINED ON THE CORRECT METHOD OF USE AND ON ITS RELATED RISKS.**

**LEVANTE TAKES NO LIABILITY FOR ACCIDENTS OR DAMAGE DIRECTLY OR INDIRECTLY CAUSED BY IMPROPER, RECKLESS OR NEGLIGENT USE OF THE EQUIPMENT, DUE TO FAILURE TO COMPLY WITH THE ACCIDENT PREVENTION REGULATIONS PROVIDED BY THE CURRENT LEGISLATION OR THE REQUIREMENTS CONTAINED IN THIS MANUAL.**





● **DO NOT CARRY OUT REPAIRS. IF THESE INTERVENTIONS ARE PERFORMED BY INEXPERIENCED PERSONNEL, THEY MAY ALTER THE MACHINE'S SAFETY LEVEL.**



Perform all work and maintenance in compliance with current health and safety at work regulations, carefully observing the recommendations contained in this manual.

### **ATTENTION! Crushing hazard between forks and spokes**

When handling the load IT IS FORBIDDEN TO PUT YOUR FEET ON THE FORKLIFT'S SPOKES.

A manoeuvring error or inattention may cause crushing between the forks and the spokes, with possible injury to the operator.

Proof of the hazard, and its predictability, the slow descent speed of the forks and the maintained type control, considerably reduce the probabilities of damage due to this type of situation.

**FOR THE SPECIAL VERSIONS CAREFULLY READ THE WARNINGS GIVEN IN THE APPENDIX**

## **1.8 Limits of use**

The semi-electric stackers are designed to work within a normal working environment, to move loads by pulling/pushing and lift loads by means of lifting devices powered by human strength (manual lifting) or by electric force (lifting with battery operated hydraulic piston).



: It is forbidden to use the semi-electric stacker as supplied, in areas classified at risk of explosion under ATEX Directive 99/92/EC and, in Italy, under Legislative Decree 81/2008.



: The machine must be used on a non-slip, hard floor without holes or obstacles. It is forbidden to use the forklift on sloping floors or on ramps, except when the forklift is empty.

The work environment must have a lighting of at least 50 lux.



: The machine is not suitable for use or to be parked outdoors, exposed to atmospheric agents.



: the machine is not suitable for intensive or continuous use.





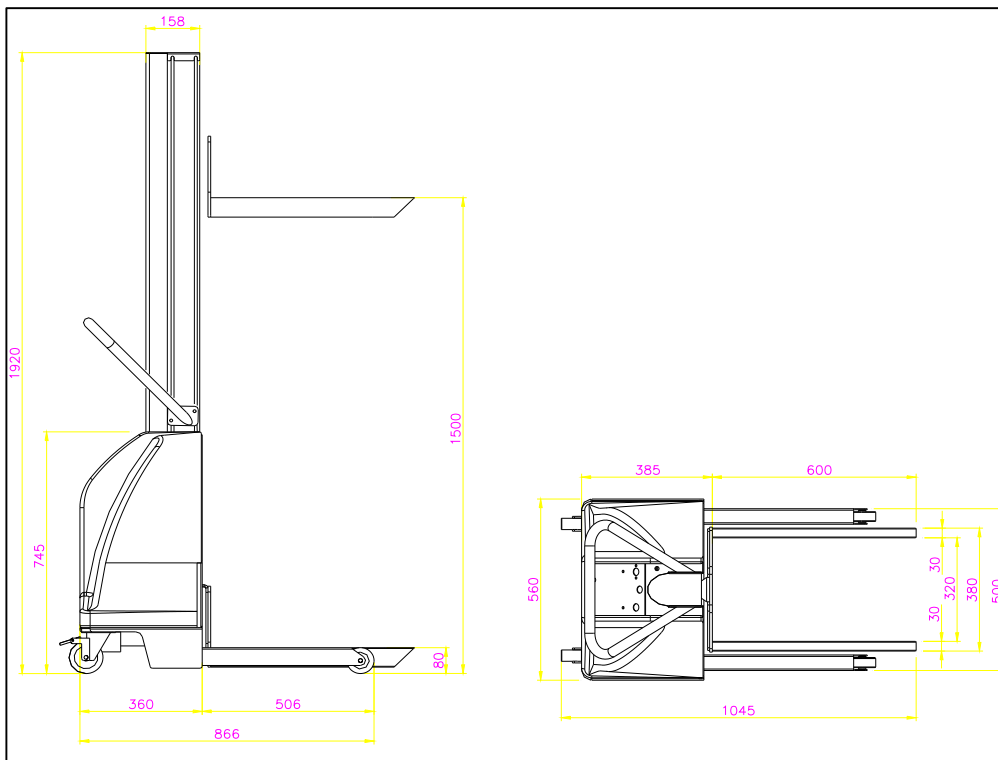
## 2. Technical features

### 2.1 General specifications

The NewBingo mini-lifter is a manual lifter with electric device for lifting forks or accessories fitted on it. The forklift is designed to work within a normal work environment, to lift loads by means of lifting devices powered by electric motor. Upon acceptance, please check that the forklift is in every way as requested by you. The NewBingo mini-lifter is available in 4 different models:

| Model          |                | BINGO100          | BINGO100.2 | BINGO200          | BINGO200.2                                       |
|----------------|----------------|-------------------|------------|-------------------|--|
| Capacity       | Kg             | 100               |            | 200               | 200 kg up to h1500<br>100kg from 1500 to 2000 mm |
| Lifting        | mm             | 80 - 1500         | 80 - 2000  | 80 - 1500         | 80 - 2000  |
| H mast         | mm             | 1920              | 2420       | 1920              | 2420   |
| Rollers        | No./m<br>m     | 2 / 80 x 30       |            |                   |  |
| Wheels         | No./m<br>m     | 2 / 100 x 30      |            |                   |  |
| Lifting motor  | V/W            | 24 / 300          |            | 24 / 330          | 24 / 330   |
| Lifting speed  | Cm/sec         | max 8.3 / min 6.0 |            | max 8.3 / min 4.2 | max 8.3 / min 4.2                                |
| Batteries      | No. x<br>V/ Ah | 2 x 12 V / 38 Ah  |            |                   |  |
| Battery weight | kg             | 15                |            |                   |  |
| Charger        | V/A            | 24 V / 6 Ah       |            |                   |  |

### 2.2 2.2 Overall dimensions



## 2.3 Fittings and accessories

Depending on the chosen model, the following accessories can/cannot be applied:

NEWBINGO 100 (Capacity 100 Kg / h. lifting 1500 mm)

Compatible accessories: forks, nylon platform (mounted on the forks), spur, spur with rollers, roller unit (mounted on the forks), cradle for reels (mounted on the forks), jib crane, roto-reels.

NEWBINGO 200 (Capacity 200 Kg / h. lifting 1500 mm)

Compatible accessories: forks, nylon platform (mounted on the forks), spur, spur with rollers, roller unit (mounted on the forks), cradle for reels (mounted on the forks).

NEWBINGO 100.2 (Capacity 100 Kg / h. lifting 2000 mm)

Compatible accessories: forks, nylon platform (mounted on the forks), spur, spur with rollers, roller unit (mounted on the forks), cradle for reels (mounted on the forks), roto-reels.

NEWBINGO 200.2 (Capacity 200 Kg up to h 1500 mm/ capacity 100 Kg from h 1500 to h 2000 mm)

Compatible accessories: forks, nylon platform (mounted on the forks), spur, spur with rollers, roller unit (mounted on the forks), cradle for reels (mounted on the forks).

The forklift is supplied with the accessory you ordered.

It is strictly forbidden to make changes to the accessory or to the forklift.

For details and limits of use of the individual accessories, see chapter 4.

## 2.4 Rated capacity

The maximum capacity of your lift is indicated on the data plate and depends on the load and the load centre distance from the heel of the fork.

**The rated capacities refer to loads with a 300 mm load centre from the fixing plane of the lifting mean.**

**When the load centre distance exceeds this value, additional precautions must be taken and the capacity must be proportionally downgraded.**

DO NOT FOR ANY REASON OVERLOAD THE FORKLIFT BEYOND THE INDICATED RATED CAPACITY

## 2.5 Storage

Store the machine in a covered, dry place and not subject to high moisture, at a temperature between 5°C and 40°C.

## 2.6 Control and command devices



### ON/OFF Key - Emergency stop

It consists of a red key to be turned anti-clockwise in the event that the machine does not respond to the operator commands.

If the weight to be lifted exceeds the maximum capacity allowed, the forks do not rise and the overload relay blocks. Reset the key to restore proper operation.





#### Fuse (see chapter 4)

Component placed inside the machine to protect the electrical and electronic part against short-circuits or over-ampereage. Component subject to wear. We recommend immediately reordering when the spare part is used.



#### Charger indicator

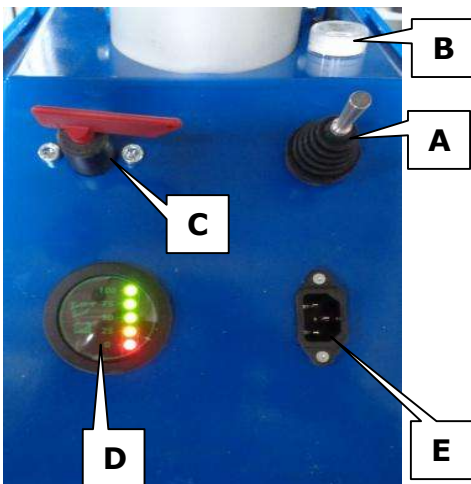
Inhibits lifting of the forks before the batteries are excessively discharged; as soon as the red LED turns on, RECHARGE.

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#### Parking brakes

To stop the forklift on a ramp, with your foot, press the brake pedal located on the two rear wheels. To release, lift the pedal by applying pressure from underneath with your toe (see section 5).



#### Commands and instruments

- (A) Forks ascent/descent command lever
- (B) Battery charge indicator
- (C) ON/OFF key (safety stop)
- (D) Battery status indicator
- (E) Socket for charger cable



### 3. Operating procedures

The stacker must be used in compliance with the current safety regulations and accident prevention regulations in chapter 2.

Before using the forklift, perform the preliminary checks described in par. 6.1.

#### 3.1 Preliminary checks

Before using the stacker, check the points listed in the table.

| OPERATION   | FREQUENCY | PROCEDURES  |
|---|-----------|---|
| Check the status of belts, wheels, mast, side handles | Daily     | Visual inspection   |
| Check the correct rolling of the wheels               | Daily     | Move the forklift forward/backward and right/left   |
| Check the locking of the wheel stop                   | Daily     | Activate the wheel stop and ensure that the forklift does not move by trying to move it       |
| Check the operation of the loads ascent/descent lever | Daily     | Move the lever up and ensure the forks lift<br>Move the lever down and ensure the forks lower |
| Check the operation of the emergency stop device      | Daily     | During ascent, switch the emergency key ensuring it locks the forks movement                  |

#### 3.2 Loading

Balance the load adequately so that the load centre is inside the forks of the machine. Do not overload the forklift beyond the rated capacity and never place the load on a single fork.

Only use pallets in good condition and avoid the load from protruding beyond the pallet itself.

Do not use the forklift to lift suspended loads or loads able to freely swing, nor to lift or transport people. Always check the load condition during use of the forklift. If the load becomes unstable, stop use and restore stability before continuing.

#### 3.3 Forklift handling

The forks are lifted via electric command located on the operator console. The forklift is manually handled, by pushing or pulling, by acting on the appropriate handles. Move the forklift slowly and steadily, keeping the load lowered.

**During loading, the command circuits of the forks are disabled.**

The forks lowering function is inactive with the key in the OFF position.



ATTENTION: The forklift is not suitable for continuous use, the actuator may be damaged. For every minute of use of the lifter, leave the motor in stand-by for one minute.



During handling operations keep your hands, feet or other body parts away from the lifting mechanisms.



### 3.4 Precautions of use during handling

The load lifting/lowering operations must be carried out with the forklift blocked by the wheel stop.

During the load lifting and lowering, warn the other operators and prevent them from standing or passing under the forks.

Prevent personnel nearing the machine during forklift handling and avoid contact with any obstacles; maintain a safe distance of at least 100 cm from people.

Remember that it is forbidden to travel on slopes, except with the forklift empty. Slightly sloping surfaces are allowed (short ramps >2%) and, however, with the operator facing away from the load placed at the lowest level.

### 3.5 Forklift parking

When the work is completed, unload the forks and place the forklift with forks lowered in a suitable place and only accessible by authorised personnel. Remove the ignition key from the housing and park the forklift by activating the wheel stop.

### 3.6 Precautions in the case of failure and emergency situations

In the case of a hazard, you can activate the emergency device on the operator console. Switching the key to OFF stops any electric movement of the forklift.

A fault in the command system can prevent the regular descent of the forks: **Pay special attention in the event of electrical failure or failure of the control circuits when forks are lifted and loads suspended.**

Do not carry out any troubleshooting under the suspended and potentially unstable load, without having first taken the necessary measures to ensure the safety of the operations!

If necessary contact an authorised assistance centre.

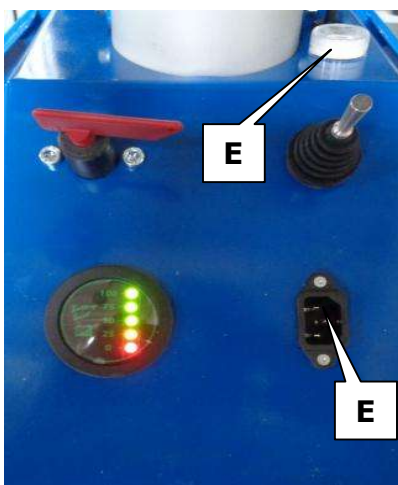
### 3.7 Battery charging procedure

The electric forks lift system is entrusted to a worm screw geared motor powered by two 12V 38Ah batteries with on-board battery charger.

The indicator (D) informs the user about the charge status of the batteries, which must be periodically recharged.



**Recharge the batteries completely when the orange light on the charge status indicator turns on!  
If the forklift is not used, the batteries must still be recharged at least once a week.**



To recharge the batteries, proceed as follows.

- Insert the spiral cable in the socket (E) and connect the other end to the 230V mains.
- The charge level indicator (F) contains 3 LEDs that indicate (from bottom to top) initial charge – final charge – recharge cycle end. At the end of the cycle, the system automatically disconnects.
- 

To recharge the batteries, make sure that the environment is adequately ventilated (for further information, see chapter 10).

Upon reactivation after a temporary suspension of the charge cycle, the battery charger detects the battery charge status and automatically starts a new charge cycle.

The new Bingo 2017 is equipped with a power off indicator during the charge cycle, therefore lifting cannot be enabled.



The supplied batteries do not require maintenance. Replace the batteries when exhausted.



## 4. Lifting accessories

List of accessories available for each model

|                        | forks | nylon platform | spur | cradle for reels | roller unit | jib crane | Roto reels | gripper |
|------------------------|-------|----------------|------|------------------|-------------|-----------|------------|---------|
| NEWBINGO 100 KG H.1500 | √     | √              | √    | √                | √           | √         | √          | √       |
| NEWBINGO 100 KG H.2000 | √     | √              | √    | √                | √           | √*        | √          | √**     |
| NEWBINGO 200 KG H.1500 | √     | √              | √    | √                | √           | √*        |            |         |
| NEWBINGO 200 KG H.2000 | √     | √              | √    | √                | √           |           |            |         |

\*: check rope length and capacity

\*\* : check capacity

### 4.1 STANDARD FORKS



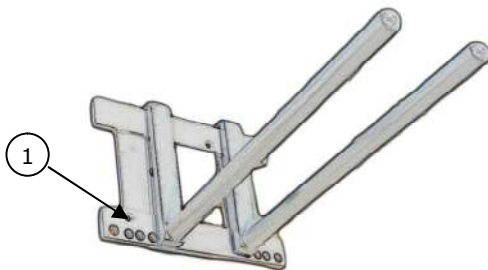
This is the accessory supplied as standard.

It can be made in special versions (rotated, shortened or narrow forks).

The maximum load capacity is always specified in the forklift's data plate.

| LEVANTE<br>handling ideas             |                        |
|---------------------------------------|------------------------|
| Lifting system                        |                        |
| Type<br>Tipo<br>Modèle                | Forche                 |
| Peso<br>Weight<br>Poid                | -                      |
| Portata<br>Capacity<br>Charge         | See lifter max load    |
| Sollevarmento<br>Max Lifting<br>Levée | See lifter max lifting |

### 4.2 ADJUSTABLE FORKS



sideways during forklift handling.

The mobile forks are anchored to the forklift plate by chains that prevent it falling during handling.

Do not remove or damage the safety chains.

Periodically check their state of maintenance and, if necessary, replace them with original spare parts supplied by the manufacturer.

ATTENTION: The forks must be placed symmetrically to the longitudinal platform of the forklift.

**DO NOT, FOR ANY REASON, USE THE FORKS IN AN ASYMMETRIC POSITION.**

With adjustable forks, the distance between the forks can be changed, so forks can be adapted to different load requirements.

To adjust the width of the forks, manually move them ensuring that

the pin on the back of the fork is inserted in the corresponding hole (1) on the support platform. This gives the forks their due stability, preventing them from slipping

| LEVANTE<br>handling ideas             |                        |
|---------------------------------------|------------------------|
| Lifting system                        |                        |
| Type<br>Tipo<br>Modèle                | Forche regolabili      |
| Peso<br>Weight<br>Poid                | -                      |
| Portata<br>Capacity<br>Charge         | See lifter max load    |
| Sollevarmento<br>Max Lifting<br>Levée | See lifter max lifting |





### 4.3 FORKS WITH PLATFORM

The platform, 600x500mm and 15 mm thick, is made of polyethylene and is fixed to the below sheet metal with M6 countersunk screws.



The capacity is that of the forklift.

Pay attention not to load objects exceeding the recommended dimensions.

Periodically check the clamping and seal of the screws.

Periodically clean with non-abrasive

cloths. Avoid using chemically aggressive detergents or solvents.

If the platform is worn, deformed or cracked, immediately repair it with an original spare part.

Maximum capacity and limits of use are stated on the data plate.

| LEVANTE<br>handling ideas   |                                |
|---|--------------------------------|
| Lifting system  |                                |
| Tipo<br>Type, Modèle  | Forche con pianale             |
| Peso<br>Weight, Poids   | --                             |
| Portata<br>Capacity, Charge   | See lifter max load            |
| Sollevarmento<br>Max Lifting, Levée   | See lifter max lifting         |
|  | L max = 450mm<br>H max = 500mm |

### 4.4 SPUR



Lifting accessory typically used to fork the reels of various types and sizes.

For a proper safe use, the maximum length of the transportable reel is shown on the label.

**It is recommended not to maintain the load on the tip but always push it to the end of the spur, paying attention not to crush your hands.**

| LEVANTE<br>handling ideas   |                        |
|---|------------------------|
| Lifting system  |                        |
| Tipo<br>Type, Modèle  | Sperone                |
| Peso<br>Weight, Poids   | --                     |
| Portata<br>Capacity, Charge   | 100Kg                  |
| Sollevarmento<br>Max Lifting, Levée   | See lifter max lifting |
|  | L max = 700mm          |

### 4.5 SPUR WITH ROLLERS

Accessory similar to the spur but fitted with rollers which facilitate loading and unloading the reels. It is fitted with a safety stop (1) which prevents the reel from slipping forward during deceleration.

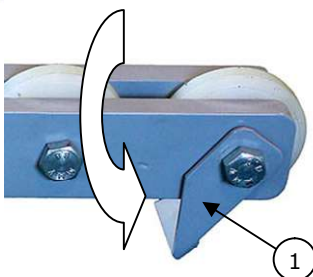


**Once the reel is loaded, make sure that the stop is in a safety position before making any movement.**

when loading and handling goods pay attention not to crush your hands and fingers between the load and the rear plate.

the use of reels longer than 430 mm is forbidden because it invalidates the function of the safety stop. The same applies when using reels having a hollow core with inner diameter greater than 95 mm.

| LEVANTE<br>handling ideas   |                                 |
|---|---------------------------------|
| Lifting system  |                                 |
| Tipo<br>Type, Modèle  | Sperone con rulli               |
| Peso<br>Weight, Poids   | --                              |
| Portata<br>Capacity, Charge   | See lifter max load             |
| Sollevarmento<br>Max Lifting, Levée   | See lifter max lifting          |
|  | 80mm < d < 95mm<br>Lmax = 430mm |



Periodically lubricate the safety stop. Do not use the equipment if the stop is not working properly.



#### 4.6 REEL-CARRIER

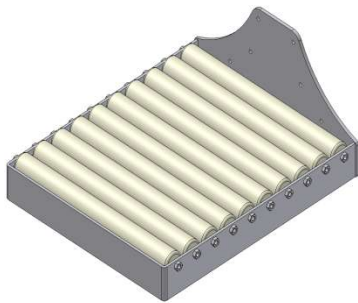


The accessory consists of a steel cradle with a "V-shaped" profile suitable for transporting reels.

Maximum capacity and limits of use are stated on the data plate.

| LEVANTE<br>handling ideas   |                               |
|---|-------------------------------|
| Lifting system  |                               |
| Tipo<br>Type, Modèle  | Portabobine                   |
| Peso<br>Weight, Poids   | --                            |
| Portata<br>Capacity, Charge   | See lifter max load           |
| Sollevarmento<br>Max Lifting, Levée   | See lifter max lifting        |
|  | D max = 500mm<br>Lmax = 600mm |

#### 4.7 ROLLER UNIT

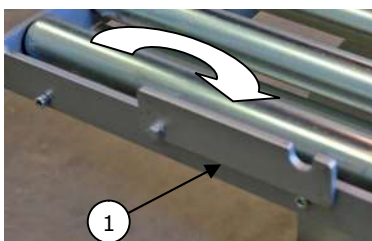


The accessory consists of a load surface with six non-frictioned and non-braked rollers which facilitate the sliding of the load.

The roller is fitted with a protection surface that prevents hands and fingers from being put between adjacent rollers, preventing body parts from being crushed

between the load and the rollers during handling. It also integrates load containment edges which prevent the load from escaping sideways during handling and prevent the loading of objects with dimensions exceeding the load surface itself and, therefore, being dangerous.

| LEVANTE<br>handling ideas   |                                |
|---|--------------------------------|
| Lifting system  |                                |
| Tipo<br>Type, Modèle  | Rulliera                       |
| Peso<br>Weight, Poids   | --                             |
| Portata<br>Capacity, Charge   | See lifter max load            |
| Sollevarmento<br>Max Lifting, Levée   | See lifter max lifting         |
|  | L max = 500mm<br>H max = 500mm |



There is a two-position manual protection stop (1) on the front part which must be placed in a blocked status.

**Once the reel is loaded, make sure that the stop is in a safety position before making any movement.**

It is strictly forbidden to remove or alter the safety stop or protection.



Periodically lubricate the safety stop. Do not use the equipment if the stop is not working properly.

#### 4.8 ROTO-REELS



The roto-reels are used to lift and rotate the reels from a horizontal to a vertical position and vice versa.

The reel is gripped by interference which is obtained between the reel core and the expansion rubber placed on the coil, inserted in the core of the reel itself.

There are two versions, respectively for inner diameters of the core between 66 mm and 72 mm or for reels with diameter between 79 mm and 82 mm.

| LEVANTE<br>handling ideas   |   |
|---|---|
| Lifting system  |   |
| Tipo<br>Type, Modèle  | Rotabobine                                      |
| Peso<br>Weight, Poids   | --  |
| Portata<br>Capacity, Charge   | 100Kg   |
| Sollevarmento<br>Max Lifting, Levée   | See lifter max lifting                          |
|  | Lmax = 300mm<br>Dmax = 500mm<br>66mm < d < 72mm |





Refer to the device data plate to check the maximum capacity and limits of use of your accessory.

To handle a reel, proceed as follows:

- Point the jib crane towards the reel and insert the coil in the core;
- Turn the handwheel to maximum expansion possible in order to ensure an optimal grip of the reel;
- Lift and transport as needed, observing all precautions recommended in this manual;
- Remove the mechanical rotation stop and rotate the jib crane by 90° with the help of the appropriate lever;
- Make sure that the reel rests on a stable and secure surface;
- Release the reel by rotating the handwheel backwards;



Before every use, always make sure that the rubber is not dirty, especially due to lubricants or slippery substances.

The rubber must be cleaned using neutral, non-corrosive water-based substances and not with solvents.

Leaving the rubber exposed to atmospheric agents such as UV rays or intense heat sources may deteriorate its quality and must, therefore, be avoided.

Leaving the rubber in excessively high or low temperatures may reduce gripping safety. Observe the operating and storage instructions provided by the manufacturer.

If the rubber shows signs of cracks, do not use the roto-reels and request a replacement of the rubber with an original spare part.

#### 4.9 DRUM ROTATOR GRIPPER



This accessory allows moving reels or drums with 300 to 600 mm diameter. Unlike the spur or the roto-reels, it does not use the central core for the grip but acts with an external dual gripper. In this way it can also be used as a drum rotator. The gripper opens by means of a crank, as does the rotation.

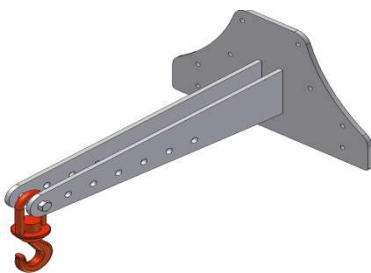
**ATTENTION: Before any handling, ensure the load is perfectly gripped.**



Periodically lubricate the screws and the gripper opening/closing parts. Do not use the equipment if the device is not working properly.

| LEVANTE<br>handling ideas   |                                    |
|---|------------------------------------|
| Lifting system  |                                    |
| Tipo<br>Type, Modèle  | Pinza                              |
| Peso<br>Weight, Poids   | --                                 |
| Portata<br>Capacity, Charge   | 100Kg                              |
| Sollevarmento<br>Max Lifting, Levée   | See lifter max lifting             |
|  | L max = 500mm<br>300mm < D < 600mm |

#### 4.10 JIB CRANE



The jib crane, 600 mm long, allows transporting suspended loads that can be connected to a specific hook via ropes or chains.

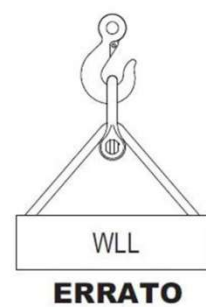
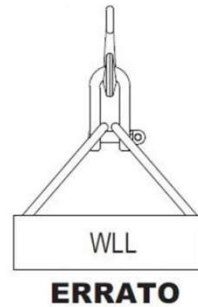
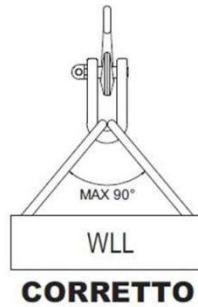
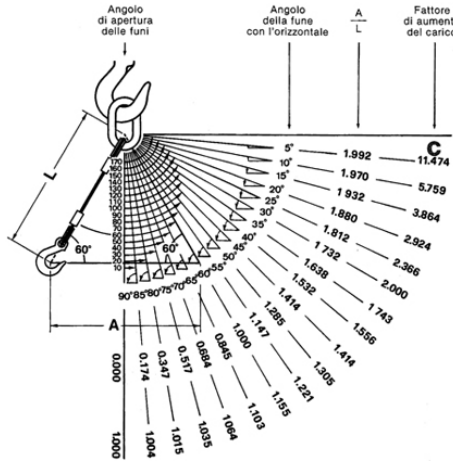
For safety purposes, it is essential to respect the capacity of ropes/chains and anchors used to hook the load, as well as certified harness systems, periodically checked according to current legislation.

**CAREFULLY CONSIDER THE RISKS DUE TO PROBLEMS OF A SWINGING LOAD.**

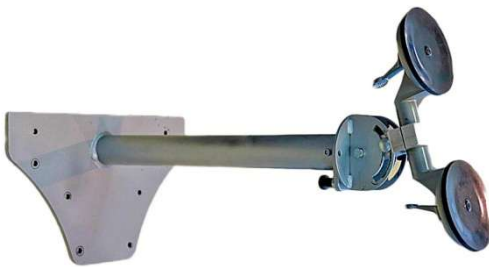
| LEVANTE<br>handling ideas   |                        |
|---|------------------------|
| Lifting system  |                        |
| Tipo<br>Type, Modèle  | Braccio                |
| Peso<br>Weight, Poids   | --                     |
| Portata<br>Capacity, Charge   | 100Kg                  |
| Sollevarmento<br>Max Lifting, Levée   | See lifter max lifting |
| Verificare lunghezza fune e portata   |                        |
|  | Lmax = .....           |



With load lifted at 1500 mm, the slope of the surface on which the machine can be used must be less than 1%. When anchoring the load, observe the safety criteria dictated by common sense and by the current regulations



#### 4.11 SUCTION CUPS



This accessory makes it possible to typically picking and handling glass or smooth panels made of such materials as to ensure appropriate efficiency. Materials, to be suitable for handling with suction cup, must have a sufficient degree of smoothness and must not exceed the sizes and weights shown on

| LEVANTE<br>handling ideas          |                        |
|------------------------------------|------------------------|
| Lifting system                     |                        |
| Tipo<br>Type, Modèle               | Ventose                |
| Peso<br>Weight, Poids              | --                     |
| Portata<br>Capacity, Charge        | 80Kg max               |
| Sollevamento<br>Max Lifting, Levée | See lifter max lifting |
|                                    | L max = 500mm          |

the data plate.



Before every use, always make sure that the rubber is not dirty, especially due to lubricants or slippery substances.

The rubber must be cleaned using neutral, non-corrosive water-based substances and not with solvents.

Leaving the rubber exposed to atmospheric agents such as UV rays or intense heat sources may deteriorate its quality and must, therefore, be avoided.

Leaving the rubber in excessively high or low temperatures may reduce gripping safety. Observe the operating and storage instructions provided by the manufacturer.

If the rubber shows signs of cracks, request a replacement of the rubber with an original spare part.



## 5. Routine maintenance

A daily check can prevent any damage to your forklift. Particular attention must be dedicated to wheels, rollers, etc, which may be blocked or damaged by residues on the ground during use.

A three-month inspection is recommended of the parts most subject to wear, such as belt, rollers, wheels, bearings and pulleys.

If you need any assistance, please contact **LEVANTE S.r.l.**

If the user fails to comply with this publication, we are not liable for problems or anomalies on the proper operation of the supply and on the validity of the warranty stipulated in the contractual phase.

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### Daily inspection and maintenance

It is necessary to inspect the device daily, in particular to check rollers, axes, so that dust, wires or similar do not block the rollers during use.

### Lubrication

Use motor oil or grease to lubricate all moving parts.



**: DO NOT USE THE FORKLIFT IF MALFUNCTIONS ARE DETECTED  
DO NOT ATTEMPT TO REPAIR THE DEVICE WITHOUT HAVING BEEN PROPERLY TRAINED AND AUTHORISED**

Below is a list of the inspections and periodic maintenance recommended by LEVANTE.



: Always follow the general warnings in par. 1.6, 1.7 and 1.8.

| OPERATION  | FREQUENCY | PROCEDURES  | SOLUTION  |
|--|-----------|---|---|
| Check fork thickness is greater than 90% of the original thickness at the heel   | Monthly   | Use a gauge   | In case of non-compliance, replace the forks                  |
| Check surface cracks of the fork jib cranes  | Monthly   | Visual inspection   | In case of non-compliance, replace the forks                  |
| Check the height difference between the tips of the fork jib cranes and the horizontal length of the fork jib crane. Value must be less than 3%. | Monthly   | Measure the height difference between the tips and divide by the length of the fork jib crane.  | In case of non-compliance, replace the forks                  |
| Check the wear of the support belts of the lifting unit  | Quarterly | Visual inspection for:<br>1. signs of cracks<br>2. wear of fixing<br>3. fixing, completeness and good condition of the anchoring device | In case of non-compliance, replace the belts                  |
| Lubricate the moving parts (mast, guides)  | Quarterly | Visual inspection   | Grease with motor oil or grease suitable for mechanical parts |

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## 6. Extraordinary maintenance

The machine extraordinary maintenance (e.g. replacement of actuator, electrical parts, rollers, wheels, belts, bearings, ...) must be carried out by qualified personnel.

It is recommended that extraordinary maintenance, that falls outside the provisions of chapter 4, is carried out by personnel authorised by Levante. It is forbidden to carry out any extraordinary maintenance, repair or replacement, without the direct consent of the manufacturer. If necessary, contact your distributor.

Parts subject to wear and, therefore, potentially subject to extraordinary maintenance are:

- Lifting belt: regularly check the tension and mechanical consistency of the belt.
- Teflon sliding rollers inside the aluminium mast: check the status and wear and keep the sliding channels lubricated.
- Front and pivoting wheels: replace when worn.
- Worm screw pinion: it wears over time and it must be replaced at an assistance centre.
- Forks: periodically check the thickness of the forks, if it reduces by 0.5 mm compared to the initial 60 mm, replace the forks unit.
- Parking brake: periodically check the efficiency of the parking brake. If the efficiency showed it was unable to stop the forklift on a gradient of at least 5%, replace the wheels complete with brake.

Use only original spare parts supplied by the manufacturer (see section "SPARE PARTS").

## 7. Troubleshooting

These cases fall within the competence of maintenance personnel.

| NUMBER | FAULT   | CAUSE   | SOLUTION   |
|--------|---|---|--|
| 1      | The machine will not turn on                            | 1. Power supply problem   | 1. Check the internal protection fuse<br>2. Check the state of the batteries   |
| 2      | The forks do not stop at the maximum and minimum height | 1. Incorrect position of the limit switches   | 1. Check the limit switch micros located in the top and bottom parts of the mast   |
| 3      | The forks are not lifted                                | 1. The load exceeds the maximum capacity allowed  | 1. Check the load weight and reduce it if necessary  |
| 4      | The lifting motor does not start                        | 1. Emergency stop engaged, power supply suspended<br>2. Voltage too low<br>3. The electric cable connectors are disconnected<br>4. Faulty motor contactor | 1. Turn clockwise to restore power supply<br>2. Charge<br>3. Fix them<br>4. Replace it   |
| 5      | The batteries do not recharge                           | 1. The current socket is disconnected<br>2. Fault on charging circuit<br>3. Old batteries   | 1. Reconnect it<br>2. check the fuse on the charger board;<br>3. check the efficiency of the batteries and replace them if necessary |

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|   |  |                           |   |
|---|--|---------------------------|---|
| 6 | The forks lifting or lowering interrupts                 | 1. Inadequate lubrication | 1. Grease, inside the aluminium mast, the sliding channels of the forklift to which the forks are applied |
| 7 | The actuator becomes noisy after a certain period of use | 1. Actuator damaged       | 2. Contact the assistance service to service the actuator   |

## 8. Ventilation of the forklift loading premises and explosion hazard

During recharging, the batteries emit gases including hydrogen. If the concentration of hydrogen in the air reaches 4%, the hydrogen-air mixture may explode.

The forklift user must take all necessary measures to prevent recharging from generating explosion hazards. The following guidelines do not exempt the user from verifying and adopting the most opportune and recent safety provisions on work environments.

Standards EN 50272-2 and EN 50272-3 require that the hydrogen concentration is kept significantly below the hazard threshold of 4% by properly ventilating the premises where recharging takes place.

The necessary flow of ventilation air, according to the above standards, is calculated with the following formula:

$$Q = 0.05 * n * I_{gas} * Crt / 1000$$

where:

Q = Q = air flow rate [m<sup>3</sup>/h]

n = number of battery elements

I<sub>gas</sub> = current producing gas [mA / Ah]<sup>1</sup>

Crt = rated capacity of battery [Ah]

<sup>1</sup> In the absence of instructions from the manufacturer, the I<sub>gas</sub> current value can be obtained from table A for drive batteries and from table B for stationary batteries.

When more than one battery is present in the same room, the ventilation flow rate must be calculated as the sum of the individual ventilation air flow rates.



In order to ensure the above air flow rate through natural ventilation, overall section A openings must be present in the battery premises, equal to:

$$A = 28 Q$$

where:

A = section of ventilation openings (cm<sup>2</sup>),  
Q = Q = ventilation air flow rate (m<sup>3</sup>/h).

Surface A of the openings must be intended as "free", meaning net of any obstacles to the airflow (grids)

Note: immediately near a battery charging, even in the presence of the above ventilation, Standards EN 50272-2 and EN 50272-3 provide the existence of a hazardous area which, due to its features, must be classified, according to Standard EN 60079-10, as area 1 (place where it is possible, during normal operation, that an explosive atmosphere forms due to the presence of gas).

According to Standard EN 50272-3, distance d for drive batteries is equal to 0.5m.

The distance varies depending on the battery features and, therefore, in the presence of more types of batteries, it must be identified for each of them.

According to Standard EN50272-2, distance d for stationary batteries is identified by the following formula:

$$d = 28,8 \sqrt[3]{I_{gas}} \sqrt[3]{C_{rt}}$$

With natural and/or artificial ventilation with adequate availability, we can consider, for the purposes of safety, providing around area 1, a boundary area 2.

Tabella A - Valori di I<sub>gas</sub> (mA/Ah) per le batterie di trazione. <sup>(1)</sup>

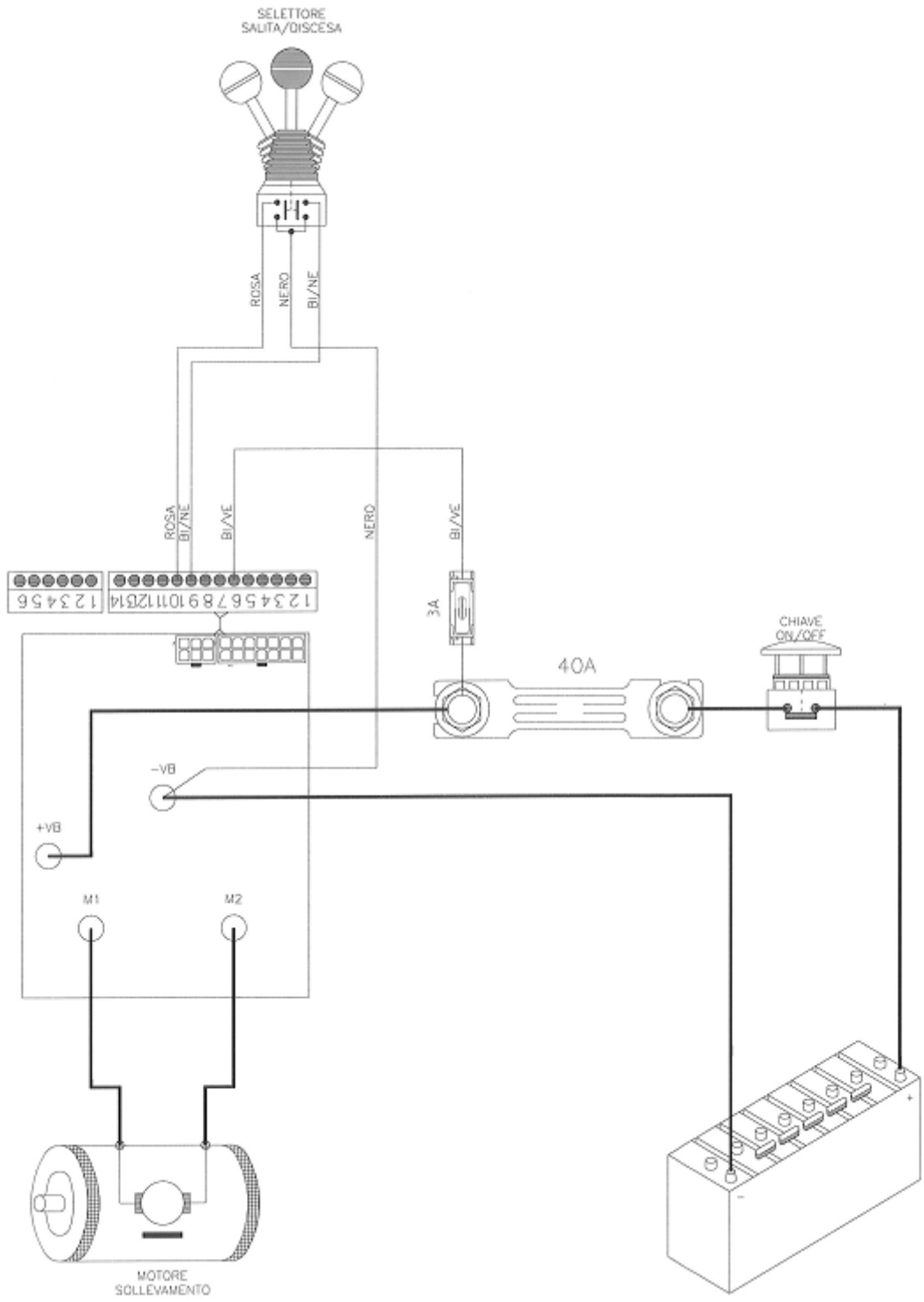
| Tipo di carica    | Tipo di accumulatore |                     |                         |
|-------------------|----------------------|---------------------|-------------------------|
|                   | Aperto al piombo     | A valvole al piombo | Aperto al nichel-cadmio |
| Carica rapida     | 60                   | 15                  | 50                      |
| Carica in tampone | 50 ÷ 70              | (2)                 | 50                      |

<sup>(1)</sup> Si ricorda che 1 mA/Ah equivale a 0,1 A/100Ah.

<sup>(2)</sup> Le batterie a valvole al piombo vengono ricaricate soltanto con la carica rapida. Per le batterie aperte al piombo ed al nichel-cadmio può essere utilizzata la carica in tampone, anche se è comunque più frequente la carica rapida.



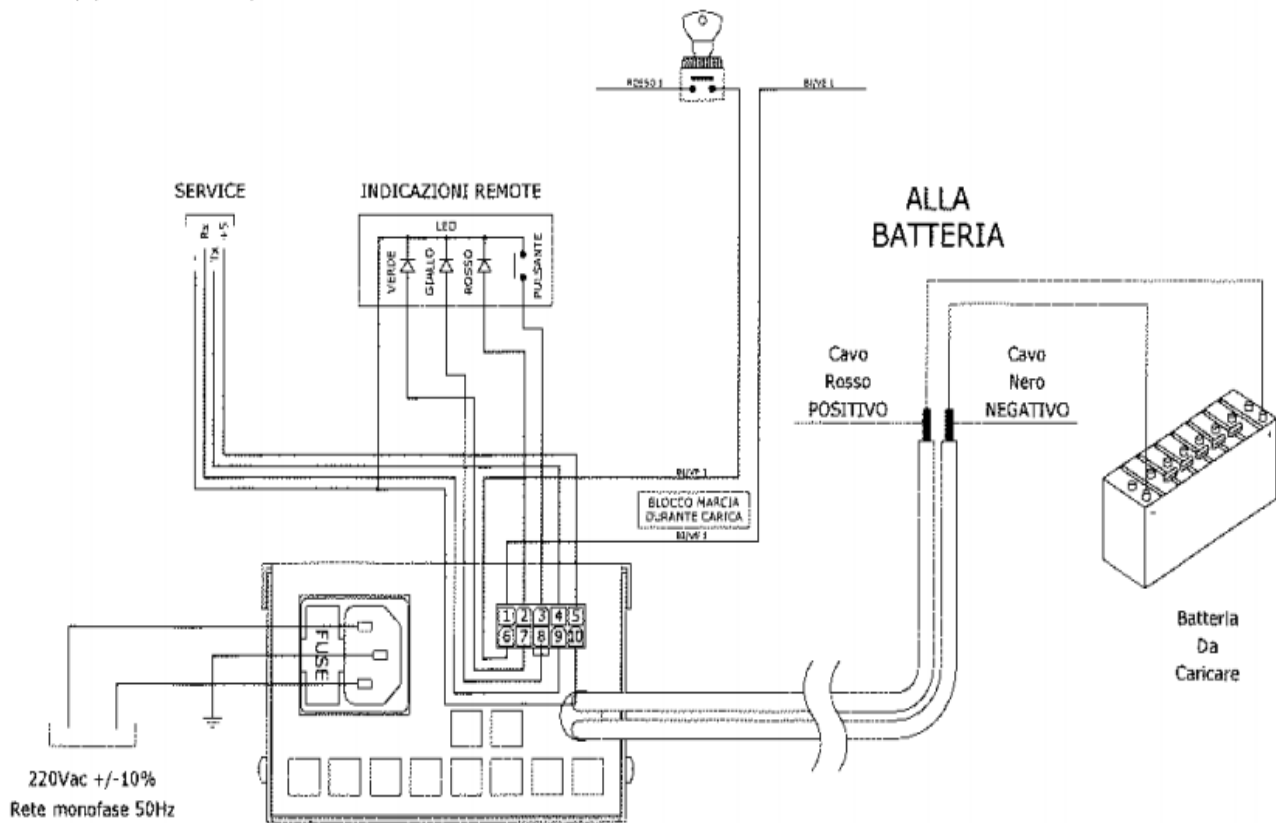
# WIRING DIAGRAM





## CHARGER ELECTRIC DIAGRAM

15 350 001 10 000 000



### WARNINGS

THE ELECTRIC MOTOR OF THE ACTUATOR IS NOT DESIGNED FOR CONTINUOUS USE. IT CAN BE STRESSED FOR A MAX TIME OF 10 MINUTES, EQUAL TO ABOUT 5 CONSECUTIVE ASCENT AND DESCENT OPERATIONS. AFTER CONTINUOUS USE, THE MOTOR NEEDS TO COOL FOR A TIME EQUAL TO THAT DURING WHICH IT WAS STRESSED. FAILURE TO OBSERVE THIS WARNING CAN SERIOUSLY COMPROMISE THE STATE OF THE MOTOR AND WILL VOID THE WARRANTY.

MAKE SURE THAT THE FORKLIFT IS ON A SOLID AND LEVEL SURFACE BEFORE ACTIVATING THE LIFTING OF THE FORKS.





# CB 350 HF caricabatteria

(CURVA PERSONALIZZATA 3011AA01)

## Selezione curva di carica

25

Il caricabatteria viene fornito con la curva 1 preselezionata.

Ad ogni accensione il led o i led lampeggiano per 2 secondi indicando la curva attualmente selezionata (vedi tabella).

Per modificare la curva di carica seguire la procedura descritta:

- 1) premere il pulsante che si trova di fianco ai led e tenerlo premuto.
- 2) inserire la spina di alimentazione e senza lasciare il pulsante attendere che il led o i led lampeggianti smettano di lampeggiare e restino accesi in modo fisso.
- 3) per cambiare la curva selezionata identificata all'accensione, lasciare e premere ripetutamente il pulsante per passare alla curva successiva (dopo l'ultima curva, che non è necessariamente la curva 5 ma dipende dalla taratura caricata, si riparte dalla Curva 1)
- 4) staccare e ricollegare la presa di rete.

**Tabella codifica curva selezionata**

| Tipo di curva | LED che lampeggia     | Tipo di Batterie da Caricare                 |
|---------------|-----------------------|--|
| Curva 1       | Led Verde             | batterie al Piombo senza gassificazione I=6A |
| Curva 2       | Led Giallo            | batterie al Gel I=6A                         |
| Curva 3       | Led Rosso             | batterie AGM I=6A.                           |
| Curva 4       | Led Rosso + Led Verde | batterie al Piombo con gassificazione I=6A   |

## Sequenza dei Pin del connettore ausiliario

1. Contatto 1 NC (per montaggio a bordo)
2. Positivo Led Rosso
3. Pulsante
4. Non Utilizzare
5. Non Utilizzare
6. Contatto 2 NC (per montaggio a bordo)
7. Positivo Led Verde
8. Positivo Led Giallo
9. Non Utilizzare
10. Negativo Comune dei Led e del Pulsante

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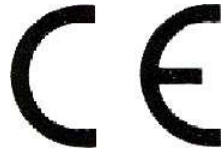
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# DICHIARAZIONE DI CONFORMITA' – DECLARATION OF CONFORMITY

DECLARATION DE CONFORMITE' – KONFORMITAETSERKLAERUNG  
DECLARACION DE CONFORMIDAD – VERKLARING VAN OVEREENKOMST



- IT** Si attesta che la macchina qui di seguito descritta è del tutto conforme ai requisiti della Direttiva Macchine 2006/42/CE e della Direttiva EMC 2004/108/CE.
- EN** We hereby certify that the machine specified hereunder is compliant in all respects with the requirements of Machinery Directive 2006/42/EC and EMC Directive 2004/108/EC.
- FR** On atteste que la machine spécifiée ci-après est en tout conforme aux exigences de la Directive Machines 2006/42/CE et de la Directive EMC 2004/108/CE.
- DE** Wir bescheinigen, dass die unten spezifizierte Maschine den Eigenschaften der Maschinenrichtlinie 2006/42/EG und der EMV-Richtlinie 2004/108/EG entspricht.
- ES** Se certifica que la maquina aquí abajo especificada está conforme a los requisitos de la Directiva Maquinas 2006/42/CE y de la Directiva EMC 2004/108/CE.
- NL** Hierbij verklaren wij, dat de hieronder gespecificeerde machine voldoet aan alle Machine Richtlijn 2006/42/EG en de EMC Richtlijn 2004/108/EG.

1. Categoria - Category - Catégorie - Kategorie - Categoria - Categorie:

transpallets manuali - hand pallet trucks - transpalettes - Gabelhubwagen - Transpaletas

2. Costruttore - Manufacturer - Constructeur - Hersteller - Constructor - Fabrikant:

**LEVANTE SRL**

3. Tipo - Type - Type - Typ - Modelo - Type

**NEW BINGO 100  
NEW BINGO 100.2  
NEW BINGO 200  
NEW BINGO 200.2**

4. Matricola - Serial number - Matricule - Seriennummer - Numero de Serie - Serie nummer:

5. Anno di costruzione - Year of manufacture - Année de construction - Baujahr - Ano de construcción - Bouwjaar:

Data - Date - Datum:

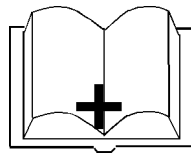
Firma – Signature – Unterschrift - Handtekening

persona autorizzata a costituire il fascicolo tecnico  
person authorised to compile the technical file  
personne autorisée à constituer le dossier technique  
Der Unterzeichner ist bevollmächtigt, die technischen Unterlagen  
zusammenzustellen.  
persona facultada para elaborar el expediente técnico  
degene die gemachtigd is het technisch dossier samen te stellen

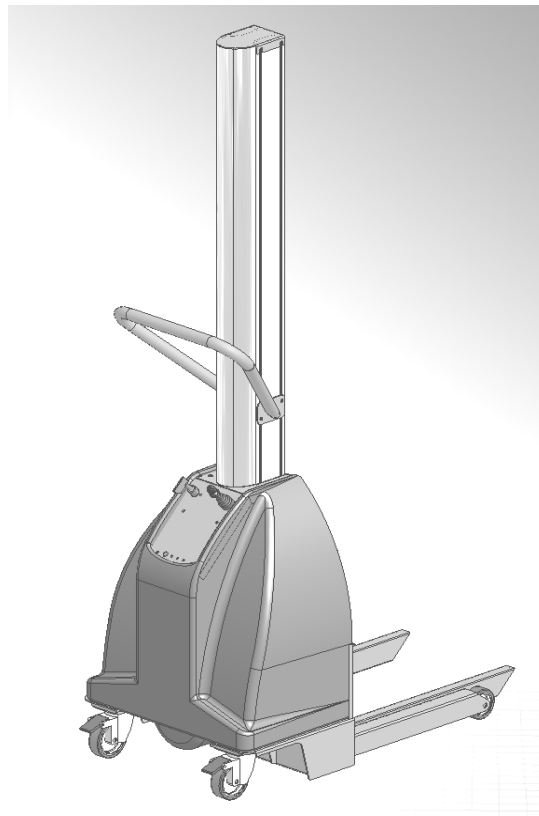
Name and address of the person.....



# RICAMBI – SPARE PARTS – ERSATZTEILE – REPUESTOS – PIECES



## NEW BINGO



**The replacement and assembly of spare parts is the task of personnel specialising in maintenance and, therefore, also on the devices and standards regulating the operator's safety.**

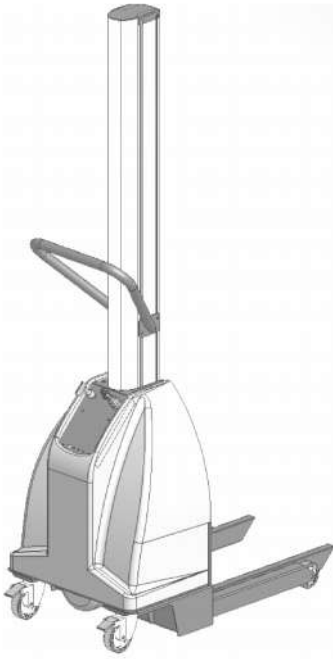


VAT NO. and TAX CODE 01730440201

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e-mail: commerciale@levantelift.it  
NEWBINGO 2017-operating and maintenance+spare parts v.02072017



## RICAMBI – SPARE PARTS



|  |  |
|--|--|
|  | <p><b>30111N = 02.0013.0018</b><br/>Spiral Mains Cable 3x0.75 Mm<sup>2</sup> With Schuko Plug (2.5 M Long)<br/>Spiral Mains Cable 3x0.75 Mm<sup>2</sup> With Schuko Plug (2.5 M Long)<br/>Les Forces En spirale Câblent 3x0.75 Mm<sup>2</sup> Avec La Prise De Schuko (2.5M) 3x0,75 Mm<sup>2</sup> Spiralförmige Kabel Mit Schuko Stecker (L = 2,5 Mt.) cable spiral de red 3x0,75 Mm<sup>2</sup> Schuko (L = 2,5 Mt.)</p> |
|  | <p><b>30111BN = 02.0013.0017</b><br/>Plug for Spiral Mains Cable<br/>Plug for Spiral Mains Cable<br/>Prise pour le câble en spirale<br/>Stecker für Spirale<br/>Enchufe para el cable espiral</p>  |
|  | <p><b>30067N = 06.0069.0056</b><br/>Interruttore A Chiave<br/>Key Switch<br/>Commutateur Principal<br/>Schlusselschalter<br/>Interruptor Dominante</p>   |
|  | <p><b>30107N = 04.0017.0493</b><br/>Manipulator 800 Em-Jr2 Complete With N.A. Contact 800 E-3x10<br/>800 E-3x10<br/>Manipulator 800 Em-Jr2 Complete With N.A. Contact 800 E-3x10<br/>Le Manipulateur 800 Em-Jr2 Accomplissent N.A. Contact 800 E-3x10<br/>Manipulator 800 Em-Jr2 Komplet Mit Kontakte N.A. 800 E-3x10<br/>Manipulador completo</p>   |
|  | <p><b>06.0043.0044</b><br/>Indicatore dell'autonomia della batteria<br/>Battery autonomy indicator<br/>Batterieanzeige<br/>Indicateur batterie<br/>Indicador bateria</p>   |
|  | <p><b>06.0043.0045</b><br/>Indicatore livello carica batteria<br/>Battery charge indicator<br/>Batterieladeanzeige<br/>Indicateur de charge de la batterie<br/>Indicador de carga de la bateria</p>  |
|  | <p><b>06.0040.0019</b><br/>24v/6a Battery Charger<br/>24v/6a Battery Charger<br/>24v/6a Chargeur De Batterie<br/>Ladegeraet Karte24v/6 A<br/>Cargador</p>  |



Repairs should be carried out by authorised personnel only.



|   |  |
|---|--|
|    | <p><b>06.0032.0035</b><br/>         Batteria Ermetica 2X 12v/40ah (3ds12/40)<br/>         Sealed Battery 12v/40ah (3ds12/40)<br/>         Batterie Scellée 12v/40ah (3ds12/40)<br/>         12v/40ah (3ds12/40) Dichtbatterie<br/>         bateria sellada 12v/40ah (3ds12/40)</p>                                 |
|    | <p>99102N = 06.0064.0036<br/>         Cinghietta per fissaggio batteria<br/>         Elastic belt to get battery fixed<br/>         ceinture élastique pour obtenir la batterie a fixé<br/>         elastischer Riemen zum Festhalten der Batterie<br/>         correa elástico para conseguir la batería fijó</p> |
|    | <p>18132N = 06.0048.0042<br/>         Cofano Posteriore In Abs<br/>         Abs Back Cover<br/>         Couverture Arrière En ABS<br/>         Abs Haube<br/>         Cofre ABS</p>  |
|   | <p>06.0099.0005<br/>         Controller DCM</p>  |
|  | <p>30108N = 06.0069.0106<br/>         Portafusibile Sezionabile 10x38 PS 10-1 Polo 32A<br/>         Fuse Holder 10x38 PS 10-1 Pole 32A<br/>         Support 10x38 Picoseconde De Fusible Polonais 10-1 32A<br/>         Versicherungshalter 10x38 PS 10-1 Polo 32A<br/>         sostenedor del fusible</p>         |
|  | <p>30109N = 06.0069.0107<br/>         Fusibile 10,3x38 Chgg 25A<br/>         Fuse 10.3x38 Chgg 25 A<br/>         Fusible 10.3x38 Chgg 25 A<br/>         Versicherung 10,3x38 Chgg 25°<br/>         Fusible</p>   |



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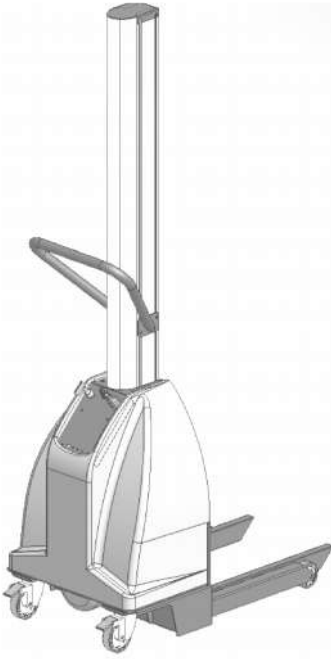




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|  | <p><b>06.0023.0043</b><br/>Rulli anteriori 80X30</p> <p>Front roller bearing<br/>Vordere Rollenlager<br/>Roulement à rouleaux avant<br/>Rodamiento de rodillos delantero</p>   |
|  | <p><b>06.0023.0044</b><br/>Ruote posteriori pivotanti c/freno</p> <p>Swivel back wheels with brakes<br/>Schwenker mit Bremsen<br/>Pivotantes à frein<br/>Giratoria con frenos</p>  |
|  | <p><b>40120N H1500 kg100 = 06.0085.0145 kg200 = 06.0085.0077</b></p> <p>Attuatore SIR A0-2/C 24 VDC<br/>Actuator SIR A0-2/C 24 VDC<br/>Déclencheur SIR A0-2/C 24 VDC<br/>SIR A0-2/C 24 VDC Aktuator<br/>Actuator</p> <hr/> <p><b>40120N H2000 = 06.0085.0078</b></p> <p>Attuatore<br/>Actuator<br/>Déclencheur<br/>Aktuator<br/>Actuator</p> |
|  | <p><b>99106N = 06.0069.0089</b></p> <p>Micro fine corsa<br/>Limit switch<br/>Commutateur de limite<br/>Begrenzungsschalter<br/>Interruptor de límite</p>   |
|  | <p><b>09025N = 06.0054.0021</b></p> <p>Puleggia<br/>Pulley<br/>Poulie<br/>Riemenscheibe<br/>Polea</p>  |
|  | <p><b>10000N = 06.0050.0028</b></p> <p>Cuscinetto Per Puleggia<br/>Bearing For Pulley<br/>Soutenir Pour La Poulie<br/>Pulley Lager<br/>Cojinete pole</p>   |
|  | <p><b>02082N = 04.0015.0283.Z</b></p> <p>Perno Per Puleggia<br/>Pulley Pin<br/>goupille de poulie<br/>Pulley Stift<br/>Perno polea</p>   |







|   |  |   |
|---|--|---|
|    | <p>11075N h 1500 (mm 1970)<br/>= 06.0083.0148<br/>Cinghia Completa Di Attacchi<br/>Belt Equipped With Connectors<br/>Ceinture Équipée Des<br/>Connecteurs<br/>Gurt Komplett Mit Attachments</p>  | <p>11075N h 2000 (mm 2470)<br/>= 06.0083.0137<br/>Cinghia Completa Di Attacchi<br/>Belt Equipped With Connectors<br/>Ceinture Équipée Des<br/>Connecteurs<br/>Gurt Komplett Mit Attachments</p> |
|    | <p><b>99107N = 11.0020.0263.V</b><br/>Carrello porta accessori<br/>Trolley for fittings<br/>Ceinture Équipée Des Connecteurs<br/>Correa Equipada De los Conectores<br/>Riemen Mit Steckern Ausgerüstet</p>   |   |
|    | <p><b>99108N = 06.0054.0022</b><br/>Rullo carrello porta accessori<br/>Trolley roller<br/>rouleau de chariot<br/>Laufkatzerolle<br/>rodillo de la carretilla</p>   |   |
|   | <p><b>12454N = 11.0005.0137.V</b><br/>Forca Di Sollevamento Doppia<br/>Double Lifting Fork<br/>Double Fourchette De Levage<br/>Gabeln<br/>Horquillas</p>   |   |
|  | <p><b>18133N = 04.0071.0001 / 21.0020.0097</b><br/>Polyethylene Lifting Platform ( Mm. 600x500x15)<br/>Polyethylene Lifting Platform (600x500x15 Mm)<br/>Plateforme De Levage De Polyéthylène<br/>Poly Platform (600x500x15 Mm)<br/>Plataforma</p> |   |
|  | <p><b>12456N = 04.0058.1004</b><br/>Reel Platform (Dim. Mm. 600x380)<br/>Reel Platform (Dim. Mm. 600x380)<br/>Plateforme De Bobine (Dim. Mm. 600x380)<br/>Prismenplattform (Dim. Mm. 600x380)<br/>Plataforma bobinas</p>                           |   |



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|    | <p><b>12455N = 11.0020.0262</b><br/>         Forca Di Sollevamento Singola<br/>         Double Lifting Fork<br/>         Simple Fourchette De Levage<br/>         Dorn<br/>         Espolon</p>  |
|    | <p><b>04.0058.1328 (applicable only on NEWBINGO 100)</b><br/>         Turnable Pliers For Reels (H Max 300 mm ; Ø Max Mm. 500)<br/>         Turnable Pliers For Reels (H Max 300 mm ; Ø Max Mm. 500)<br/>         Pinces De Turnable Pour Des Bobines (H max 300 mm ; Ø Maximum Millimètre. 500<br/>         Fassdrehklammer (H. max 300 mm ; Ø Max Mm. 500)</p> |
|    | <p><b>99109N</b><br/>         Pianale con rulli<br/>         Platform with cylinders<br/>         Platform mit Rollen<br/>         Plataforma con rodillos</p>   |
|    | <p><b>99110N = 11.0020.0264 (applicable only on NEWBINGO 100)</b><br/>         Braccio<br/>         Jib crane<br/>         Grue<br/>         Kran<br/>         grua</p>  |
|  | <p><b>11.0020.0267</b><br/>         Forca Di Sollevamento Singola completa di rulli di scorrimento<br/>         Single Lifting Fork with rollers<br/>         Simple Fourchette De Levage avec galets<br/>         Dorn mit Rollen<br/>         Espolon com rodillos</p>   |
|  | <p><b>99111N = 04.0058.1000.V</b><br/>         Cappello superiore del montante<br/>         Mast cap<br/>         chapeau de mât<br/>         Mastkappe<br/>         casquillo del mástil</p>  |
|  | <p><b>99112N = 06.0083.0130.V</b><br/>         Timone<br/>         Tiller<br/>         Deichsel<br/>         Timon<br/>         Timon</p>  |



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