



*INSTRUCTIONS FOR USE*

**BICYCLE MOD. BIS002**



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## **IMPORTANTE**

*Per qualsiasi informazione riguardante questa macchina/attrezzatura (utilizzo, manutenzione, ricambi) citare sempre Modello, Numero di matricola, Commessa, Anno di fabbricazione rilevabile nella targa d'identificazione della macchina.*

Questo manuale non descrive le procedure di tesatura, né si è cercato di dare istruzioni all'utilizzatore sui metodi di tesatura. Il contenuto di questo manuale prevede unicamente un testo di base per l'uso, manutenzione e l'elenco dei pezzi di ricambio della macchina stessa e come s'intende e si suggerisce di utilizzarla.

Saranno graditi suggerimenti da parte degli Utilizzatori per migliorare questa pubblicazione.

Scriveteci all'indirizzo sottoindicato.

## **IMPORTANT NOTE**

*State always "Model, Serial Number and Manufacturing Year" of the machine/equipment in case you need information on use, maintenance and spare parts. The a/m data can be found on the identification plate of the machine itself.*

This is not a stringing procedure manual, and no attempt is made or implied herein to instruct the user in stringing methods. The contents of this manual are intended as base line for operation, maintenance and part list of the unit as it stands alone and as it is intended and anticipated to be used.

Recommendation by the individual user for improving this publication is encouraged and should be forwarded to the address on this page.

## **IMPORTANT**

*Indiquer toujours le modèle, le numéro de série et l'année de fabrication de la machine/équipement même, en demandant à TESMEC renseignements sur l'utilisation, l'entretien et les pièces de rechange.*

*Ces informations se trouvent sur la plaque d'identification de la machine.*

Ce manuel ne décrit pas les procédures de déroulage, ni on a tâche de donner instructions à l'Utilisateur sur les méthodes de déroulage. Le contenu de ce manuel prévoit seulement un texte pour l'utilisation, l'entretien et la liste de pièces de rechange et comme TESMEC conseille d'utiliser la machine même.

Pour chaque suggestion pour améliorer cette machine, écrire à l'adresse au-dessous.

## **IMPORTANTE**

*Para cualquier información relativa a esta máquina/equipo (utilización, mantenimiento, repuestos) citar siempre Modelo, Número de serie, Orden de compra, Año de fabricación que se hallan en la tarjeta de identificación de la máquina.*

Este manual no describe los procedimientos de tensado y tampoco se ha tratado de dar instrucciones al utilizador acerca de los métodos de tensado. El contenido de este manual prevé únicamente un texto básico para el uso, mantenimiento y el listado de repuestos de la misma máquina y cómo se pretende y se sugiere utilizarla.

Se apreciarán sugerencias por parte de los utilizadores para mejorar esta publicación.

Nos pueden escribir a la dirección indicada abajo.

## **WICHTIG**

*Geben Sie für alle Informationen über diese Maschine/Ausrüstung (Verwendung, Wartung, Ersatzteile) immer Modell, Matrikelnummer, Bestellung und Baujahr an, was Sie dem Identifizierungsschild der Maschine entnehmen können.*

Dieses Handbuch beschreibt nicht die Verfahren des Spannens, und es wurde auch nicht versucht, dem Verwender Anleitungen über die Methoden des Spannens zu geben.

Der Inhalt dieses Handbuchs enthält allein einen Basistext für den Gebrauch und die Wartung, die Ersatzteilliste der Maschine und außerdem, welche Verwendung für sie bezweckt und empfohlen wird.

Wir freuen uns über Tipps von Seiten der Verwender, um diese Veröffentlichung zu verbessern.

Schreiben Sie uns an unten angegebene Adresse.

## **ΣΗΜΑΝΤΙΚΟ**

*Για οποιαδήποτε πληροφορία σχετικά με αυτό το μηχάνημα/εξοπλισμό (χρήση, συντήρηση, ανταλλακτικά) αναφέρατε πάντοτε το Μοντέλο, τον Αριθμό μητρώου, την Παραγγελία, το Έτος κατασκευής που προκύπτουν στην πινακίδα χαρακτηρισμού του μηχανήματος. Το εγχειρίδιο αυτό δεν περιγράφει τις διαδικασίες του τεντώματος, ούτε και θελήσαμε να δώσουμε οδηγίες στον χρήστη επί των μεθόδων τεντώματος. Το περιεχόμενο του εγχειριδίου αυτού περιλαμβάνει αποκλειστικά το βασικό κείμενο χρήσης, συντήρησης και τον πίνακα ανταλλακτικών του μηχανήματος και πώς εννοείται και συνιστάται η χρήση αυτού.*

Ευχαρίστως θα δεχθούμε τις συμβουλές εκ μέρους των Χρηστών για να βελτιώσουμε την έκδοση αυτή.

Γράψτε μας στη ακόλουθη διεύθυνση.



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# ***BICYCLE***

## ***Model: BIS002***

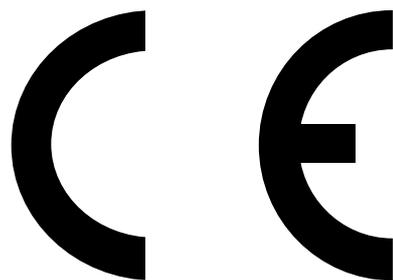
*Manufacturing year*

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*Working order*

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**USE AND MAINTENANCE INSTRUCTIONS**



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## 2. GENERAL DATA AND PRESCRIPTIONS

### 2.1 MANUFACTURER

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### 2.2 COMMUNICATIONS WITH THE MANUFACTURER

For any information related to the equipment (use, maintenance, spare parts) always state Model, Manufacturing Year and Order. Those data can be found in the equipment-identifying table.

### 2.3 TYPOLOGY AND USING FIELD

Bicycle suitable to inspection or to fit aircraft warning spheres on single lines.

By normally pedalling forward the bicycle moves backward in order to provide the operator with necessary working space in front of him.

The bicycles are equipped with a disc brake on the reaction wheel and with an additional safety brake, which directly acts on the conductor.

A meter counter and safety chains are also provided.

### 2.4 TECHNICAL CHARACTERISTICS

Capacity: 1 kN  
Mass: 19 kg

### 2.5 GENERAL PRESCRIPTIONS FOR THE EQUIPMENT USE

- a. Only authorised and trained personnel must use the equipment.  
Trained personnel are intended to be the person who has received a qualified training from the using Company or, as alternative, from the manufacturer.
- b. Equipment must be used **only** for the work it was designed for.
- c. Equipment cannot be used with non-authorised personnel on the working site.
- d. For any doubt concerning use, functioning, maintenance or everything else, contact the After-sale Service of the manufacturer.

### 2.6 GENERAL PRESCRIPTIONS FOR THE OPERATOR CHARGED OF THE EQUIPMENT USE

- a. Operator **has** to know safety directives for accident prevention in force in the equipment using country, for a correct use of the same.
- b. The operator in charge with the use of the equipment must use **suitable clothes** to the working site and to the situation where he finds himself; in particular he must avoid the use of very large clothes, chains, bracelets, rings or whatever can get entangled with moving parts of the equipment.
- c. The operator has to use the necessary protecting devices (i.e. gloves, boots, helmet, etc.).  
**It is compulsory the use of a safety harness.**
- d. The operator must not carry out on his own initiative operations or interventions that are not up to him.
- e. The operator must carefully follow danger and/or prohibition prescriptions contained in the instruction manual.

## 2.7 GENERAL PRESCRIPTIONS FOR THE OPERATOR CHARGED OF THE EQUIPMENT MAINTENANCE

- a. **It is absolutely forbidden** to carry out any work of maintenance, adjustment or setting with the equipment in working position (except for the operations indicated in the present manual).
- b. Authorised and trained personnel must carry out all the maintenance operations, ordinary and not ordinary. Trained personnel are intended to be the person who has received a qualified training from the using Company or, as alternative, from the manufacturer.
- c. The operator in charge with the maintenance of the equipment must use suitable clothes to the working site and to the situation where he finds himself; in particular he must avoid the use of very large clothes, chains, bracelets, rings or whatever can get entangled with moving parts of the equipment.
- d. The operator has to use the necessary protecting devices (i.e. gloves, boots, helmet, etc.).
- e. All the maintenance operations, ordinary and not ordinary, must be effectuated respecting the prescriptions indicated in the present manual or following technical indications written by the manufacturer. The non-respect of the prescribed restrains relieves the manufacturer from any responsibility causing also the loss of warranty.

## 2.8 KNOWLEDGE AND CARE OF THE INSTRUCTION MANUAL

- a. The information contained in the instruction manual applies to all the operators charged with the use and/or the maintenance of the equipment.
- b. The instruction manual **is not** a training manual.
- c. Before using the equipment the chief of the job site and the operator **must** read the instruction manual.
- d. The chief of the job site **is obliged** to inform all the operators about the instructions contained in the manual.
- e. The user **must** carefully follow the instructions listed in the present manual.
- f. Before using the equipment, the operator **must** be able to use it.
- g. The chief of the job site **must** verify that the instructions contained in the manual are applied.
- h. The instruction manual **must** be kept, in order to be consulted, for all the life of the equipment and also when it is given to another user.
- i. The instruction manual **must** be kept in a sheltered and dry place.



**ATTENTION: present manual belongs exclusively to the manufacturer.  
The reproduction, event partial, of the text is forbidden.**

## 2.9 USE NOT ALLOWED

The equipment **must not be used**:

- a. for lifting persons and/or goods
- b. by more than two persons at the same time
- c. with capacities higher than the indicated ones
- d. on ropes or conductors connected to supports not sufficiently steady
- e. on ropes or conductors that do not grant the necessary capacity for the equipment
- f. on aircraft, crafts, floating platforms and similar
- g. on shafts, poles or similar structures
- h. with inhibited or broken safety devices.

## **2.10 RESPONSIBILITY**

The use of the equipment for scopes different from those foreseen on paragraph 2.3 (Typology and using field), even if not well described in this manual, has to be considered extremely **dangerous** and then **forbidden**.

**The non-respect of the prescribed restrains causes a situation of improper use for technical and persons safety purposes and relieves the manufacturer from any responsibility, civil or penal, in case of accidents to persons or damages to things, causing the loss of warranty.**

The manufacturer responsibility declines even when one of the following situations happens:

- a. for the consequences caused by tampering and/or modifications carried out without the manufacturer's written acceptance (in this case the operator becomes the manufacturer with relevant obligations and responsibilities, both civil and penal)
- b. for the use of not original spare parts
- c. for bad maintenance
- d. for the use with disconnected safety devices
- e. for the connection to equipment and/or plans not produced and not directly authorised by the manufacturer in a written acceptance.

## **2.11 APPLIED NORMS**

Equipment is manufactured in conformity with the following norms:

**2006/42/CE** Norm of the European Parliament and Council, referring to the laws of the machines member States.

### 3. TRANSPORT AND POSITIONING INSTRUCTIONS

#### 3.1 EQUIPMENT LIFTING

The equipment can be easily hand-moved.

For the equipment lifting use only devices with a capacity suitable for the mass to be lifted.

The devices used for the equipment lifting (ropes, cables, hooks, etc.) have to be exactly dimensioned as compared to the mass to be lifted.

During equipment lifting operations, the presence of persons on the machine is strictly forbidden.



**DANGER:** the non-respect of the above mentioned conditions may cause dangerous situations as well as damages to the equipment with the consequent decline of any warranty condition.

#### 3.2 TRANSPORT TYPOLOGIES AND PACKAGE

##### Transport by land by truck

The equipment is protected in the most exposed and delicate parts by means of cardboard and/or plywood and/or polyethylene extensible film.

To fix the equipment on the platform of the transporting unit, use nailed wedges and/or metal brackets and/or tie rods.

##### Transport by sea in wooden cases or container

To fix the equipment on the package, use nailed wedges and/or metal brackets and/or tie rods.

At the inside, the wooden case foreseen a protection with tarpaper.

Materials usually used for the package are:

- ⇒ wooden
- ⇒ nails and/or steel screws
- ⇒ cardboard and/or paper
- ⇒ polyethylene extensible film
- ⇒ adhesive tape.

#### 3.3 UNPACKING

When receiving the equipment verify the integrity of the package; advise immediately the manufacturer and the person in charge of the transport (even with photos) when possible damages due to transport or tampering with removal, even partial, of the content happen.

Verify if the supplied material corresponds to the ordered one; immediately advise the manufacturer if there are some discrepancies.

In case of transport in wooden case, remove, in sequence, the upper cover and lateral panels before removing the equipment.

During unpacking operations, avoid any shock to the structure or to the equipment units, in order to avoid any damage to the equipment itself.



**ATTENTION:** the elimination of packaging materials must be effectuated in conformity with the norms in force in the using country.

### 3.4 POSITIONING OF THE BICYCLE ON THE LINE

Before each operation, move the safety stop (table 2, pos. 2), from "A" position to "B" position (as indicated on table 2, pos. 11) and check if the stationary brake lever (table 2, pos. 6) is on "OPEN BRAKE" position.

Now the bicycle is ready for being positioned on the line.

To position the bicycle act as follows:

- turn the stretcher ring nut (table 2, pos. 4) till moving the reacting pulley in the indicated position (as shown on table 2, pos. 3)
- position (as shown on table 2, pos. 7) on the conductor the front pulley
- turn the stretcher ring nut (table 2, pos. 4) till moving the reacting pulley in the indicated working position (as shown on table 2, pos. 1)
- move the safety stop (table 2, pos. 2) from "B" position to "A" position (as shown on table 2, pos. 11)
- now the bicycle is ready to be used.



**ATTENTION:** the non-respect of the foreseen anchoring operations may cause dangerous situations during equipment use.

## **4. INSTRUCTION FOR USE**

### **4.1 PRESCRIPTIONS FOR THE OPERATOR**

-  **PROHIBITION:** it is forbidden to walk or stop under the bicycle due to a constant residual risk of crushing in case of a possible falling of objects or giving in of the structure.

Daily, before starting the work, check if the protection and safety devices (safety harness, safety chain, stationary, backrest belt) are activated and functioning.

To correctly work with the bicycle the operator has to use the personal safety harness and foresee a safety stake around the rope or conductor connected to the belt.

### **4.2 ADJUSTMENTS**

Using the ring nut (table 2, pos. 4) adjust the inclination of the bicycle on the conductors.

### **4.3 USE OF THE BICYCLE**

The bicycle is provided with service brake (lever on the right hand of the operator, table 1, pos. 6) acting on the driving pulley and with a stationary brake (lever upwards on the right hand of the operator, table 2, pos. 6) acting directly on the conductor.

### **4.4 METER COUNTER**

On the bicycle it is mounted an electronic meter counter (table 1, pos. 7) that displays the covered meters. For its zero setting see the enclosed instruction manual.

## 5. SAFETY CONDITIONS

### 5.1 SAFETY DEVICES

The equipment has been equipped with the following safety devices:

1. safety chain (table 2, pos. 10) to be fasten to the operator's belt.



**DANGER:** it is absolutely forbidden the use of the equipment with damaged/disconnected safety devices.

### 5.2 PERIODIC OPERATIONS

Daily, before starting the work, the operator **has** to verify the functionality of the equipment safety and protecting devices.



**ATTENTION:** do not modify for any reason safety devices of the equipment because the manufacturer declines any responsibility as consequence of the non-functioning of the same.

### 5.3 RESIDUAL RISKS

During the equipment use there are still the following residual risks:

- 1. Sudden break of the anchoring.** The sudden break of the rope or the settling of the trellis may cause the equipment falling with mortal consequences for the personnel.  
To reduce to min. the risks the operator has to:
  - ⇒ follow the anchoring indications described in the present manual
  - ⇒ verify if the rope or conductor conditions allow the equipment use.
- 2. Limbs crushing during assembly or positioning of the equipment.** These operations have a large risk margin due to the use of mechanical parts to be moved.  
To reduce to min. the risks the operator has to:
  - ⇒ know the directives for accident prevention and strictly apply them.
- 3. Electrostatic discharges.** The equipment has not a proper grounding device for this reason, during stringing operations, it is possible to have dangerous electrostatics discharges on ropes and conductors.  
To reduce to min. the risks the operator has to:
  - ⇒ know the directives for accident prevention and strictly apply them
  - ⇒ check if the job site has a suitable grounding device for the equipment-rope-conductors system.
- 4. Air-works.** The equipment has been studied for suspended air-works for conductors' lines.  
To reduce to min. the risks the operator has to:
  - ⇒ know the directives for accident prevention and strictly apply them.
- 5. Moving parts not protected.** It has not been possible to protect the rotating parts of the equipment for functionality problems, and for these reason it still exist the risk of crushing-entangling. Then avoid getting in touch with the rotating part of the equipment when they are moving.

## 6. MAINTENANCE

### 6.1 GENERAL PRESCRIPTIONS



**ATTENTION:** possible repairs not carried out by the manufacturer and not allowed by a written authorisation relieve the manufacturer for any responsibility in case of accidents to persons or damages to things and/or to the equipment, causing also the loss of warranty.

### 6.2 PERIODIC OPERATIONS

Before and at the end of each single use, verify:

- ⇒ if the equipment presents damages with structural deformations
- ⇒ the condition of the safety chains
- ⇒ the condition of the stationary brakes.

Possible damaged pieces have to be immediately replaced before starting a new use.

Carry out a visual inspection of each component of the bicycle always before and after using it.

If necessary, the bicycle has to be sent to the manufacturer for an accurate maintenance operation and a new working test.



## **7. HOW TO DISABLE THE EQUIPMENT**

### **7.1 EXTENDED SERVICE STOP**

When foreseeing an extended service stop (two months at least) protect the external parts with waterproof wax.

We recommend stocking the equipment under a roof; do not cover the equipment with pieces of cloth and/or plastic materials that cause an excessive increase of temperature and humidity.

### **7.2 STRIPPING**

Equipment stripping has to be carried out by the manufacturer or by a specialised factory.

All stripping operations have to be effectuated in conformity with the norms in force for accidents prevention.

Waste materials have to be divided for typology (i.e. iron scrap, aluminium, plastic, rub, etc.) and disposed of or recycled by means of authorised structures in conformity with the laws in force in the using country.

Exhausted oils and polluting substances have to be disposed of by means of authorised structures in conformity with the laws in force in the using country.



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BICYCLE MOD. BIS002

*TABLES*

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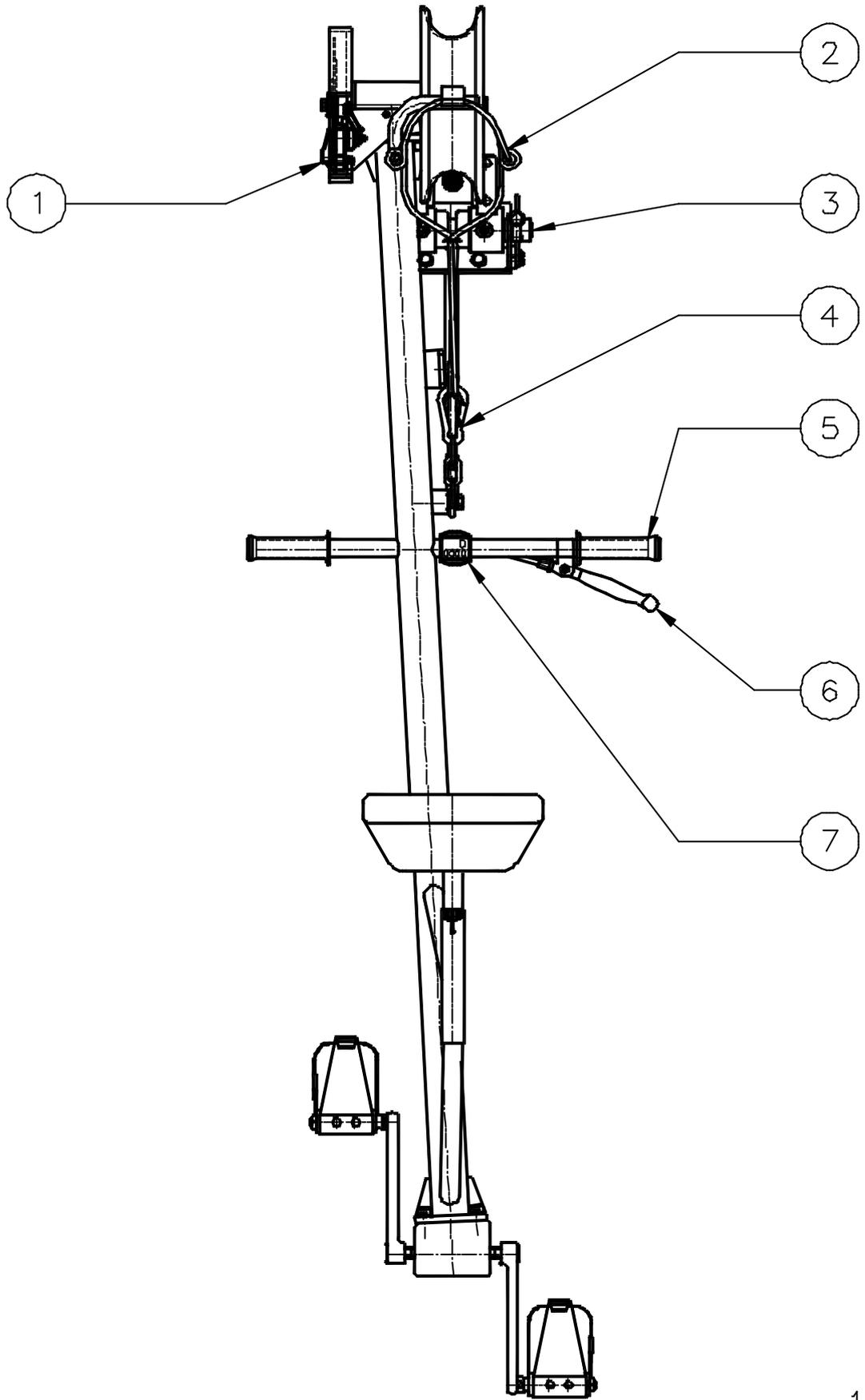


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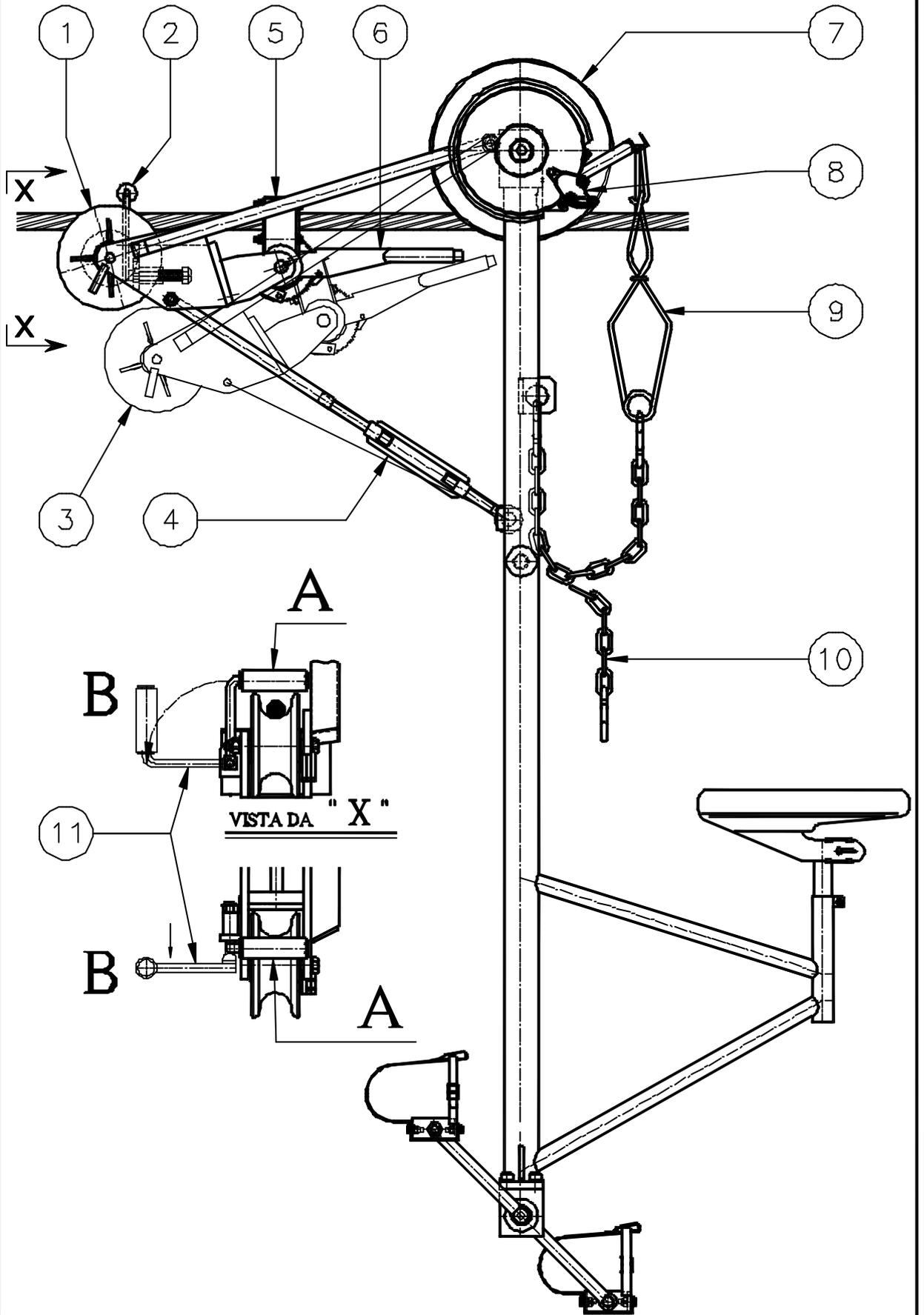
**TABLE 1.1**

- 1) Mechanical pliers for service disk brake.
- 2) Automatic safety catch.
- 3) Stationary brake.
- 4) Spring catch – safety hook.
- 5) Knob – handle.
- 6) Lever for service brake.
- 7) Electronic meter counter.



**TABLE 2.1**

- 1) Pulley in working position.
- 2) Safety stop.
- 3) Pulley in loading position.
- 4) Stretcher ring nut.
- 5) Jaws for stationary brake.
- 6) Stationary brake lever.
- 7) Towing pulley.
- 8) Mechanical pliers for service disk brake.
- 9) Automatic safety catch.
- 10) Spring catch – safety hook.
- 11) Safety stop positioning.
  - A = working position.
  - B = loading/unloading position.





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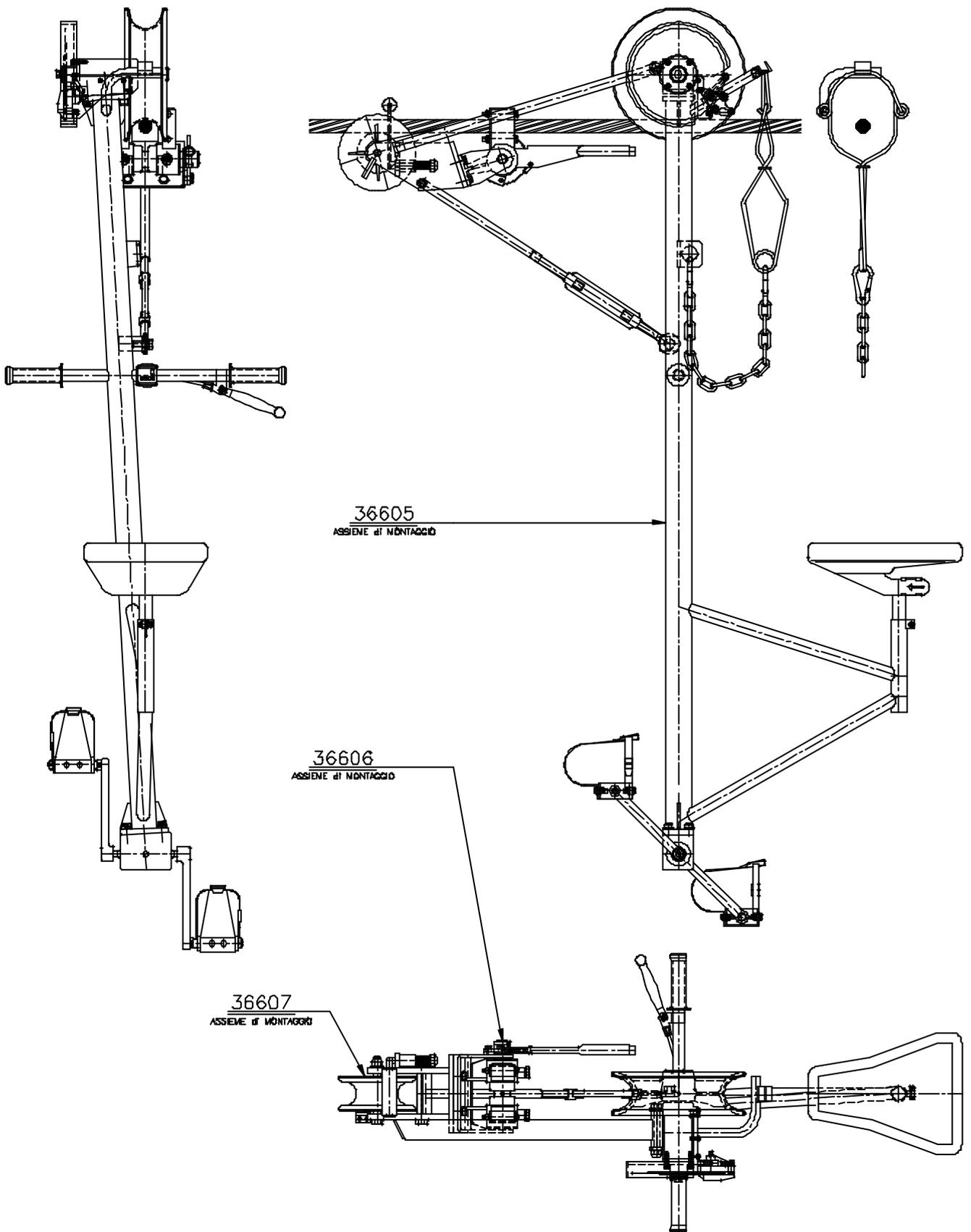
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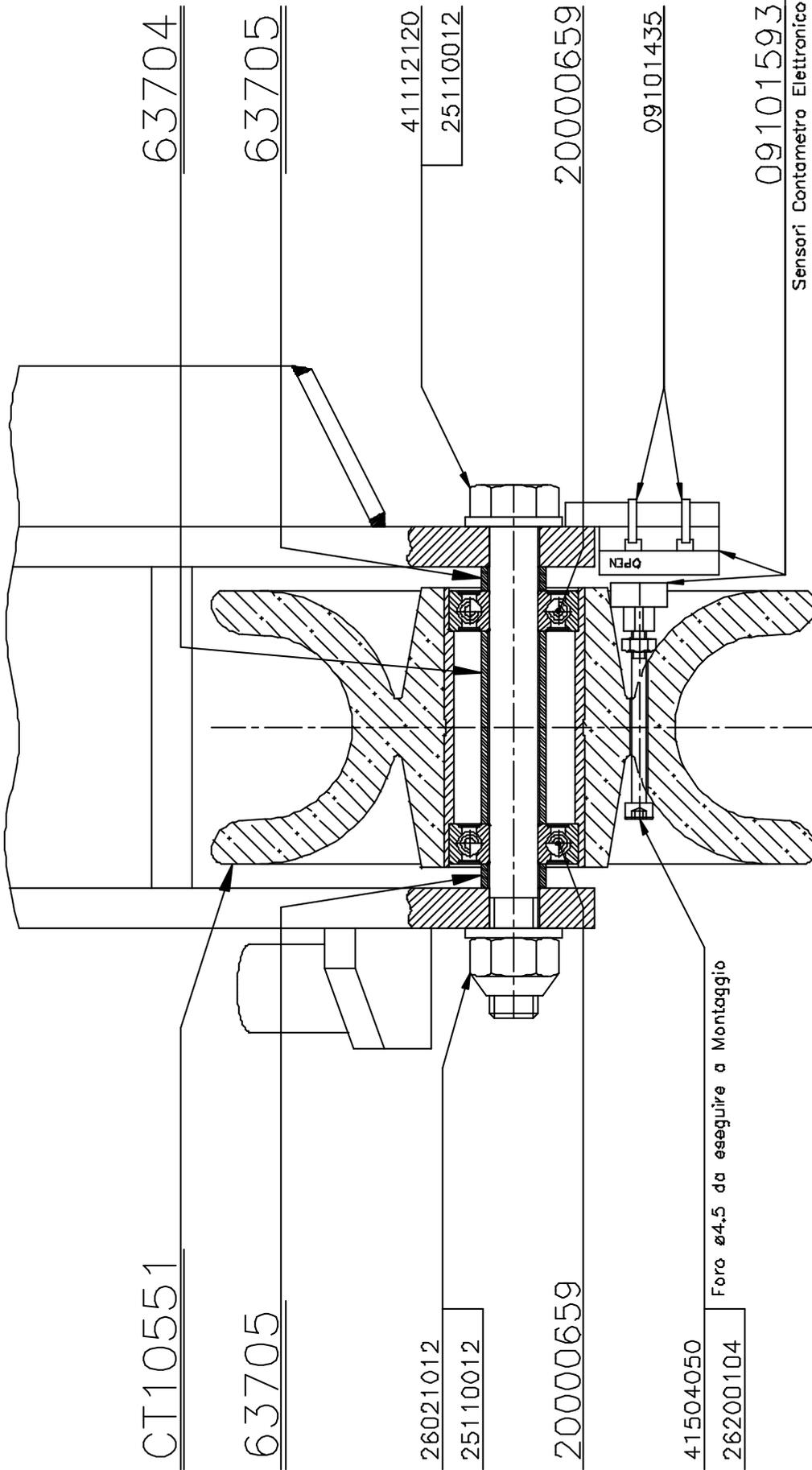
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