



CE

HD 700

Cod. 4-407043D del 11/2017

English

Operator's manual

37

TRANSLATION OF ORIGINAL INSTRUCTIONS (ITALIAN)

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INTRODUCTION

The purpose of this manual is to provide the owner and operator of this machine with a set of practical and safe instructions for the use and maintenance of the wheel aligner.

If these instructions are carefully followed, the machine will give you the efficient and long-lasting service that has always characterised our products, thus making your work considerably easier.

The following paragraphs define the levels of danger regarding the machine, associated with the CAUTION captions found in this manual:



DANGER

Refers to immediate danger with the risk of serious injury or death.

ATTENTION

Dangers or unsafe procedures that can cause serious injury or death.

CAUTION

Dangers or unsafe procedures that can cause minor injuries or damage to property.

Read these instructions carefully before powering up the machine. Keep this manual and all illustrative material supplied with the machine in a folder near the tyre changer, where it is readily accessible for consultation by the machine operator.

The technical documentation supplied is considered an integral part of the machine, and must always accompany the equipment if it is sold or transferred to a new owner.

The manual is only to be considered valid for the machine of the model and serial number indicated on the nameplate applied to it.

ATTENTION

Comply with the contents of this manual: any uses of the machine that are not specifically described are under the full responsibility of the operator.

Note

Some of the illustrations in this manual have been taken from photographs of prototypes; the standard production model may differ slightly in certain respects.

These instructions are for the attention of persons with basic mechanical skills. We have therefore condensed the descriptions of each operation by omitting detailed instructions regarding, for example, how to loosen or tighten the fixing devices on the machine, etc.

Do not attempt to carry out procedures which exceed your level of proficiency, or which you do not have experience with.

If assistance is required, contact an authorised service centre.

MACHINE HANDLING AND STORAGE

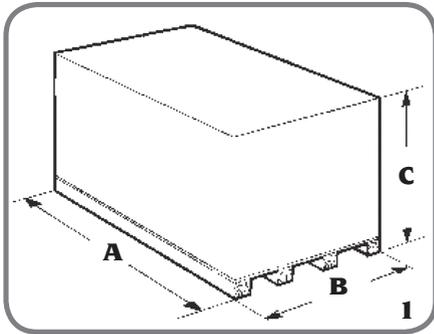
Machines in their packaging must be stored in a dry place, with ventilation if possible. Place the packs far enough apart to allow the information provided on the sides of the packaging to be read easily.



CAUTION

Do not stack more than two packs to avoid damaging them.

- Packaging dimensions: (fig. 1).....
- Depth (B) 2000 mm
- Width (A) 1720 mm
- Height (C) 1030 mm



- Weight
- Machine with packaging 615 kg
- Machine 555 kg
- Ambient temperature for storing the equipment: -25° - +55°C

Handling



CAUTION

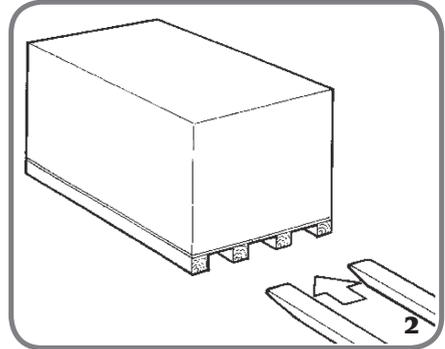
Carry out carefully the assembly and handling operations described. Failure to observe these instructions can damage the machine and compromise the operator's safety.



CAUTION

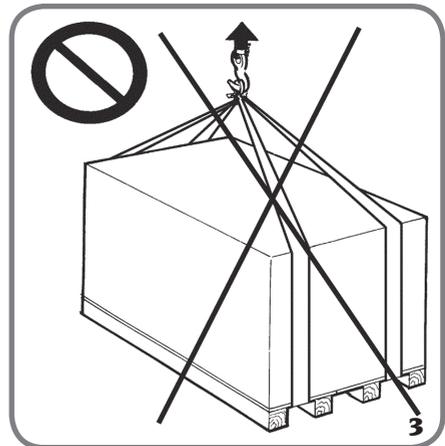
Before handling the machine, compare its weight with the capacity of the wheel lifter you have chosen.

To move the packaged machine, insert the tines of a fork-lift truck into the slots on the base of the packaging itself (pallet) (Fig. 2).



CAUTION

The packaged machine must not be lifted using a crane or hoist (Fig. 3).



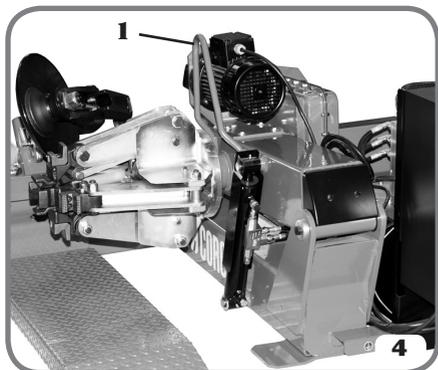
Use the hooking point to handle the machine without its packaging (1, Fig.4).

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CAUTION

Gripping the various projecting parts of the structure in a manner not recommended here is absolutely forbidden. When moving it after installation, position the machine as shown in Fig. 4 to guarantee that the load is correctly balanced: the turntable holding arm completely lowered, the turntable closed, the tool holder carriage at its end of stroke, near the arm.



INSTALLATION



CAUTION

Take the utmost care when unpacking, assembling, lifting and setting up the machine as indicated below.

Failure to observe these instructions can damage the machine and compromise the operator's safety.

Remove the original packaging materials after positioning them as indicated on the packaging and keep them for possible future shipping.

Installation clearances



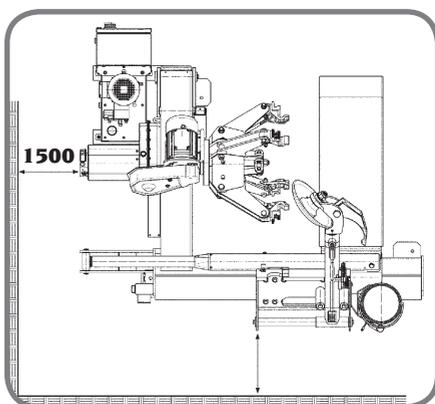
CAUTION

Choose the place of installation in strict observance of local regulations regarding safety in the workplace.

The floor must be able to support a load equal to the sum of the weight of the equipment plus the maximum load allowed, taking into consideration also the resting base and any fixing means envisaged.

Position the machine in a manner that guarantees access to all four sides. In particular, check the minimum space required for the work indicated in Fig. 5:

- at the rear for wheel loading and unloading;
- at the front to be able to view the work being performed.



IMPORTANT: for correct, safe use of the equipment, we recommend a lighting level of at least 300 lux in the place of use.



CAUTION

If the machine is installed outdoors, it must be properly sheltered under a roof.

Working environment conditions

- Relative humidity: 30-95% without condensation
- Temperature range: 0° - +55°

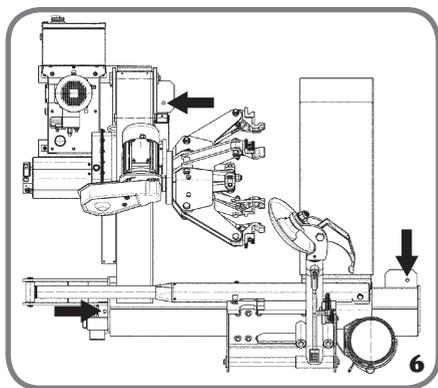


CAUTION

Use of the machine in a potentially explosive atmosphere is not permitted.

Fixing to the ground

It is not necessary to anchor the machine to the ground, which must simply not be uneven to permit the platform wheels to slide easily. If the machine is to be fixed to the ground, use M16 expansion plugs in the areas indicated in Fig. 6.



ELECTRICAL HOOK-UP

The tyre changer must be powered with three-phase current plus a neutral wire. The power supply voltage must be specified in the purchase order.



CAUTION

All operations required for the electrical connections of the equipment must be carried out exclusively by a qualified electrician.

- The electrical supply must be suitably sized in relation to:
 - Absorbed power specifications indicated on the machine data plate.
 - The distance between the machine and the power supply hook-up point, so that voltage drops under full load do not exceed 4% (10% during start-up) compared with the rated voltage specified on the data plate.
- The user must:
 - A dedicated power plug in compliance with the relevant electrical safety standards.
 - Connect the machine to its own electrical connection fitted with a suitable differential circuit breaker.
 - Mount power line protection fuses, suitably sized according to the specifications indicated on the main wiring diagram contained in this manual;
 - Install an efficient grounding circuit to protect the workshop electrical system.
- To prevent unauthorised use of the machine, always disconnect the mains plug when the machine is not used (switched off) for extended periods of time.
- If the machine is connected directly to the power supply by means of the main electrical board without a separate plug, install a key-operated switch (or at least a switch that can be locked) to restrict machine use to authorised personnel only.

ATTENTION

For the correct functioning of the machine it is vital to have a good ground connection. NEVER connect the machine ground wire to the gas pipe,

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water pipe, telephone wire or other makeshift systems.

SAFETY REGULATIONS

The equipment is intended for professional use only.



CAUTION

Only one operator may work on the equipment at a time.



CAUTION

Failure to comply with the instructions and danger CAUTIONs can cause serious injuries to the operator or other persons.

Before starting up the equipment, always ensure you have read and understood all the danger/CAUTION signs in this manual.

In order to operate the machine correctly, it is necessary to be a qualified and authorised operator, able to be trained and to know the safety regulations. Operators are expressly forbidden from using the machine under the influence of alcohol or drugs capable of affecting their capacity to perceive danger. The following conditions are essential:

- read and understand the information and instructions described in this manual;
- have a thorough knowledge of the features and characteristics of the machine;
- keep unauthorised persons well clear of the working area;
- make sure that the machine has been installed in compliance with all relevant standards and regulations in force;
- make sure that all machine operators are suitably trained, that they are capable of using the machine correctly and safely and that they are adequately supervised during work;
- do not touch power lines or the inside of electric motors or other electrical equipment before making sure that they have been powered off;
- read this booklet carefully and learn how to use the machine correctly and safely;
- always keep this operator manual in a place where

it can be easily accessed and do not neglect to consult it.



CAUTION

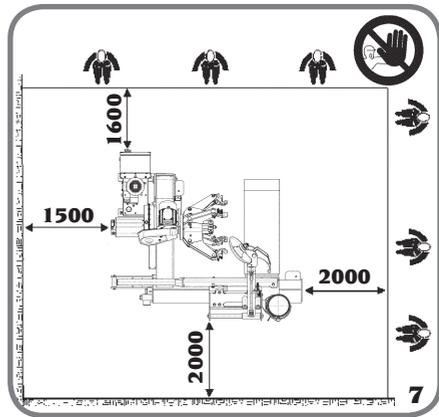
Do not remove or deface the DANGER, CAUTION, CAUTION or INSTRUCTION decals. Replace any missing or illegible decals. If one or more decals have been detached or damaged, replacements can be obtained from your nearest manufacturer dealer.

- Observe the unified industrial accident prevention regulations relating to high voltages and rotating machinery whenever the machine is in use or being serviced.
- Any unauthorised alterations made to the machine automatically release the manufacturer from any liability in the case of damage or accidents attributable to such alterations. Specifically, tampering with or removal of the machine safety devices is a breach of the regulations relating to Safety at Work.



CAUTION

During work and maintenance operations, always tie back long hair and do not wear loose clothing,



ties, necklaces, wristwatches or any other items that may get caught up in the moving parts.



CAUTION

Keep unauthorised persons away from the working area (Fig. 7).



CAUTION

Before performing any service operations on the hydraulic system, position the machine in the resting mode with the turntable bar lowered and the turntable completely closed.

TYRE CHANGER DESCRIPTION

This machine is electro-hydraulically operated, with exclusive technologies patented by the manufacturer.

It works on any type of integral wheels (drop centre and with a side ring) with the maximum dimensions and weights indicated in the TECHNICAL DATA paragraph.

The machine is solidly constructed and has relatively reduced dimensions in comparison to its operative capacity. It holds the wheel in a vertical position and is activated by the operator by means of a special radio control.

TECHNICAL DATA

- Maximum width.....2220 mm
- Maximum depth.....2000 mm
- Maximum height.....1220 mm
- Gear unit motor.....1.5 kW
- Hydraulic pump motor.....1.1 kW
- Machine weight.....555 kg
- Rim dimensions..... between 14" and 26"
- Maximum wheel diameter.....1600 mm
- Maximum wheel weight.....700 kg
- Maximum wheel length.....780 mm
- Oil tank capacity.....12 l
- Wheel lifter cylinder capacity 1200 kg

- Noise level:

- A-weighted sound pressure level (L_{pA}) at the working position... < 70 dB (A)

The noise levels indicated correspond to emission levels and do not necessarily represent safe operating levels. Although there is a relationship between emission levels and exposure levels, this cannot be used reliably to establish whether or not further precautions are necessary. The factors which determine the level of exposure

to which the operator is subject to include the duration of the exposure, the characteristics of the workplace, other sources of noise, etc. The permitted exposure levels may also vary according to the country. However, this information will enable machine users to make a more accurate assessment of hazard and risks.

ACCESSORIES INCLUDED WITH THE MACHINE

- Rim pliers
The locking pliers, when fixed firmly to the rim edge prior to mounting, makes it easier to lift the tyre, insert it into the rim well and keep it in position.
- Bead lifting lever
The bead lifting lever keeps the bead in position on the tool when demounting agriculture wheels.
- Side ring lever
The side ring lever is used to make it easier to remove the side rings from the earthmoving wheels that use them.
- Grease gun
The grease gun is used for the monthly greasing recommended for all moving machine parts.

OPTIONAL ACCESSORIES SUPPLIED ON REQUEST

Please refer to the relevant accessories catalogue.

SPECIFIED CONDITIONS OF USE

The tyre changer was designed exclusively for tyre mounting and demounting.



CAUTION

Any other operations carried out on the machine



are considered as improper use and shall be construed as negligence.



The manufacturer does not intend the machine to be used for inflation operations. If the operator decides to proceed with partial bead insertion in the tyre on the machine using his own equipment, a pressure of 0.5 bar must NOT be exceeded (unless the tyre manufacturer does requires lower pressure levels), as indicated in the UNI Standard 10588.



Only original manufacturer equipment is recommended for use with the machine.

Figure 8 shows the operator positions during the various work phases.

These positions are referred to in the user instructions

MAIN WORKING ELEMENTS OF THE MACHINE

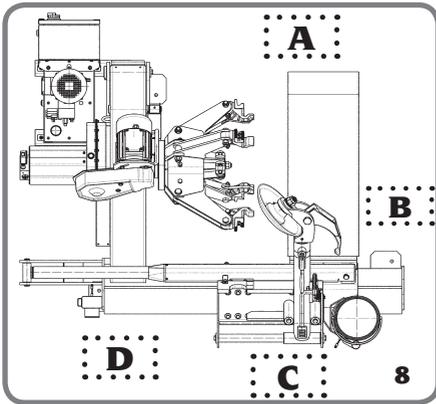


Get to know your machine: your familiarity with its exact operation is the best guarantee of safety and performance.

Learn the function and location of all commands.

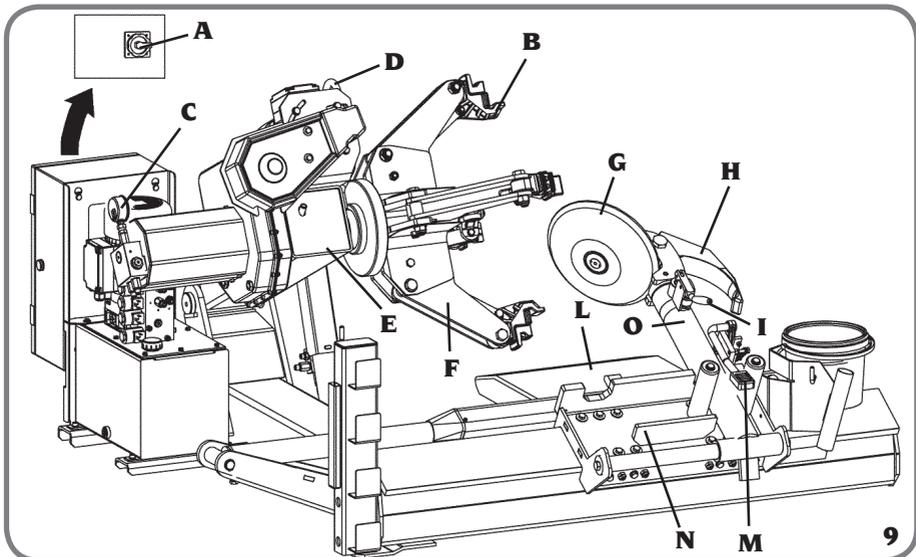
Carefully check that all controls on the machine are working properly.

The machine must be installed properly, operated correctly and serviced regularly in order to prevent accidents and injuries.

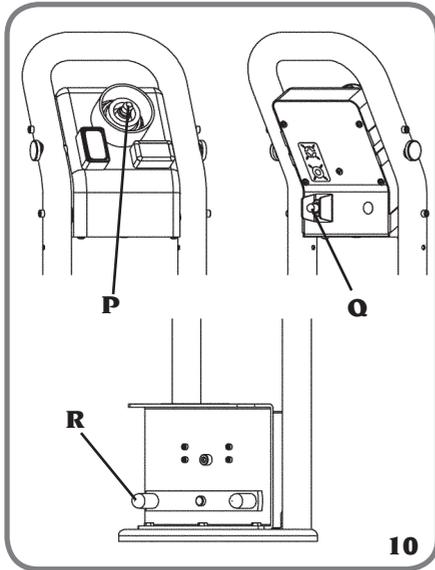


See fig.9.

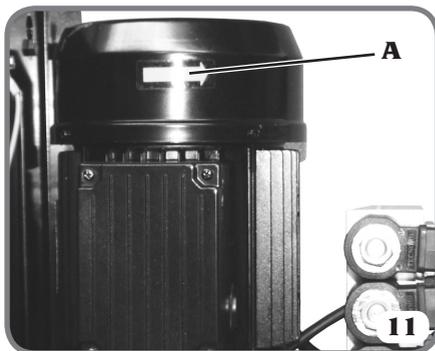
A Main switch



- B Locking clamp
- C Pressure gauge
- D Lifting point
- E Turntable holder arm
- F Turntable
- G Bead breaker disc
- H Hook tool
- I Tool rotation lever



- L Platform
- M Tool holder arm release pedal
- N Carriage
- O Tool holder arm



See fig.10.

- P Control lever
- Q Turntable opening/closing control
- R Turntable rotation pedal

Start the machine with the main switch (A, Fig. 9) and make sure that the hydraulic power unit motor is rotating in the direction indicated by the arrow (A, Fig. 11) which can be seen on the motor cap.

Otherwise, the rotation direction must be corrected immediately in order not to damage the pump unit.

All machine parts are powered by low voltage (24V), with the exception of the hydraulic power unit and the turntable rotation motor, which are powered with mains voltage.



CAUTION

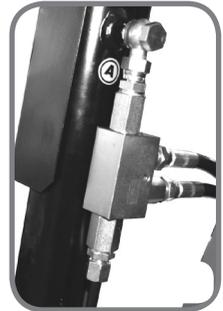
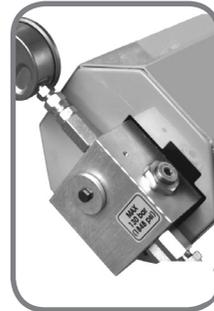
Make sure that all parts of the hydraulic circuit are tightened correctly. If pressurised oil escapes, it can cause serious injury.



CAUTION

The machine is equipped with devices that guarantee the operator's safety:

1) Check valve on the turntable opening line (located inside the swivel connector, see Fig.



12A).

Prevent the wheel from falling due to accidental breakage of the oleodynamic circuit.

2) Dual seal, pilot-operated check valve (see Fig.12B).

Prevent the turntable holder arm from falling suddenly in the case of accidental breakage to the oleodynamic circuit.

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CAUTION

To prevent accidents when using the included or optional accessories, make sure that the mechanical parts have been correctly installed and well fixed to the parts.
When working, firmly grip the manual accessories.

NOTE

The machine may also be used for tyre grooving. Operate the turntable intermittently for this operation.



CAUTION

Always check that the tyre size is compatible with the rim size prior to assembly.



CAUTION

Do not clean or wash the wheels mounted on the machine with compressed air or jets of water.

KEY TO DANGER/ CAUTION DECALS



NEVER insert hands, arms or anything else inside the turntable while it is opening or closing.



While the turntable is being lowered, both with a mounted wheel or with the turntable open, maintain a safe distance to prevent crushing.



NEVER come between the tool unit and the rim or locked wheel on the turntable.



Keep a safe distance when the tool unit is tilting to prevent crushing.



For safety reasons, never leave the wheel locked on the turntable during work breaks.



Before continuing, always check that the tool holder arm ratchets are correctly hooked to the carriage.



If replacing the tool unit, pay attention during insertion to keep your hands from being crushed.



Do not open the control unit door before disconnecting the tyre changer from the mains.

DESCRIPTION OF THE MOBILE CONTROL UNIT CONTROLS

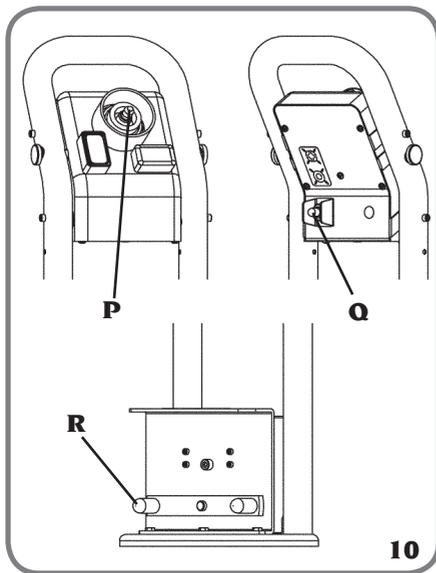
Fig. 10

CONTROL LEVER (P)

- Horizontal movement → platform and tool carriage translation
- Vertical movement → turntable unit lowering and lifting

SWITCH (Q)

- Vertical movement → turntable unit opening



and closing control.

PEDAL (R)

- Tilting movement → clockwise and anticlockwise rotation of the turntable unit



CAUTION

When locking a rim, continue to operate the control to make sure that the maximum pressure (130 bar) has been reached, which can be checked on the pressure gauge (C, Fig. 9).



CAUTION

The distributor-turntable pressure tests are performed with the wheel mounted.



CAUTION

When working, always control the pressure of the turntable

NOTE

Also check the pressure during tyre mounting and demounting operations; to solve rim settling problems, continue to operate the locking control.



CAUTION

The control unit must never be positioned in an area where water can stagnate.

WHEEL LOCKING INSTRUCTIONS



CAUTION

During the clamping phase, make sure that the clamps are positioned correctly on the rim to prevent the wheel from falling.

- 1) Move the mobile control unit to working position B.
- 2) Tilt the tool holder arm to the non-working position.
- 3) Use the control lever to move the mobile platform away from the turntable and raise the wheel, keeping it in a vertical position.



CAUTION

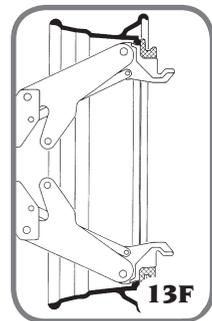
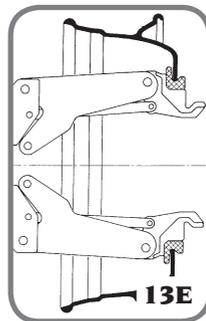
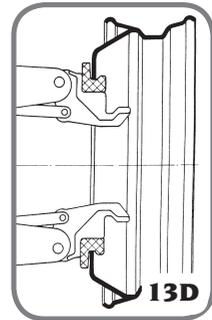
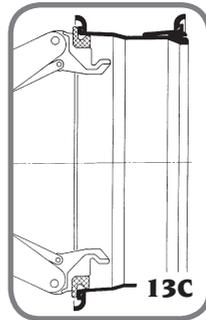
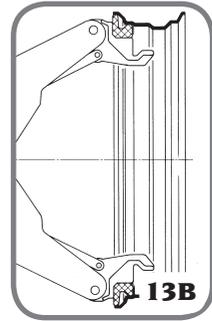
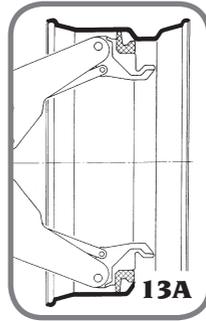
This operation can be extremely dangerous!

Perform it manually if you are absolutely certain you can maintain the wheel equilibrium only.

For heavy, large sized wheels you MUST use a suitable lifting device.

- 4) Always using the control level, raise or lower the turntable holder arm until centring the turntable as much as possible with the rim.
- 5) With the clamps in a closed position, move the wheel towards the turntable, moving the mobile platform, then use the switch to open the turntable, then clamp the rim internally and in the best position that is selected base on the rim type, as shown in figures 13A -13B - 13C - 13D 13E - 13F.
Please remember that clamping on the central flange is always considered the safest approach.

N.B.: for wheels with a rim well, clamp the rim so that the well is located on the outer side (see fig. 13A).

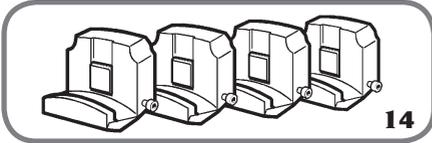


CAUTION

Never leave your work station with the wheel clamped on the turntable and lifted off the ground.

CLAMPING ALLOY RIMS

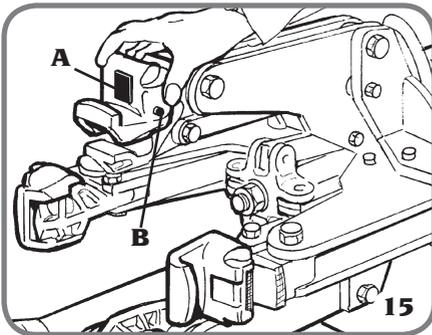
To clamp wheels with a light alloy rim, a **set of alloy rim clamps (Fig. 14)** that were specially designed in order to work on these rims without the risk of damaging them is available upon request.



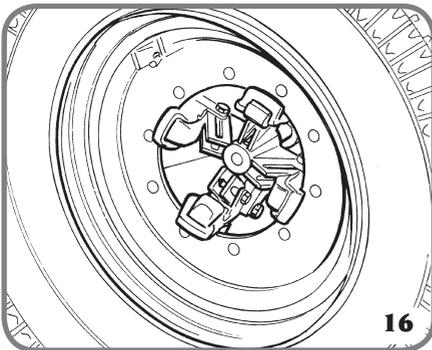
The clamps are to be inserted (bayonet-like mounting) into the clamp support of the turntable as shown in **figure 15**.

Lock the clamp by manually tightening the screw **A, Fig. 15**.

The clamps are supplied with three different types of plastic inserts (**B, Fig. 15**), which are used based on the thickness of the rim flange.



Lock the rim as shown in **fig. 16**.



CAUTION

The turntable may "slip" during the various operating phases when the rims are clamped on the central hole (especially with alloy wheels where the specific clamps are used).

By using the STOP PIN accessory (**Fig. 17A**) this problem can be averted, inserting it in one of



the wheel fixing holes (**see Fig. 17B**).



As the pin turns it rests against the clamp, pulling the rim with it and preventing it from slipping.

To work on wheels with light alloy rims, a **gripper for alloy rims (see Fig. 18)** is available.



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TUBELESS AND SUPERSINGLE WHEELS

BEAD BREAKING

1) Clamp the wheel on the turntable, as previously described, and ensure that it is deflated.

2) Move the mobile control unit to working position C.

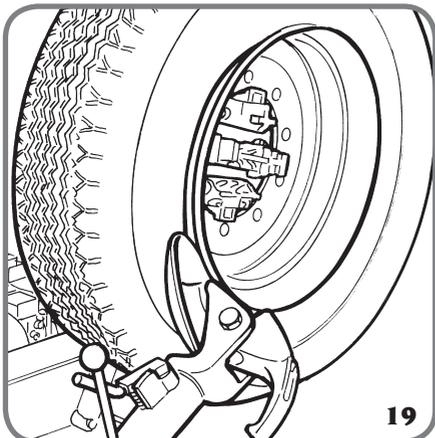
3) Lower the tool holder arm into its working position until it hooks with the ratchet.



CAUTION

Always make sure that the arm is correctly hooked to the carriage.

4) Using the control lever, position the wheel so that the external rim profile skims the bead breaker disc (fig. 19).



CAUTION

The bead breaker disc must not press against the rim but the tyre bead.

5) Rotate the wheel and, at the same time, advance the bead breaker disc with small forward movements, following the rim profile as much as possible with the disc.

6) Continue until the first bead is completely detached.

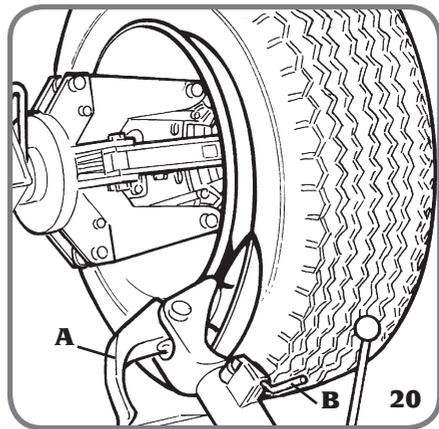
To facilitate the operation, lubricate the bead and the shoulder of the rim using the specific grease or a soapy solution, keeping the wheel in movement.



CAUTION

To avoid all risk, lubricate the beads turning the wheel **CLOCKWISE** if you are working on the outer side or **ANTICLOCKWISE** if working on the inner side.

N.B.: remember that the disc must be moved forward more slowly in relation to the tyre greater adherence to the rim.



7) Move the tool holder arm away from the rim edge.

Release the ratchet, raise the arm to its non-working position, shift it and rehook it in its second working position (fig. 20).



CAUTION

Never hold onto the tool with your hand when moving it to the working position: it could be crushed between the tool itself and the wheel.

8) Press the lever (B, Fig. 20) and rotate the tool 180°, locking it automatically.

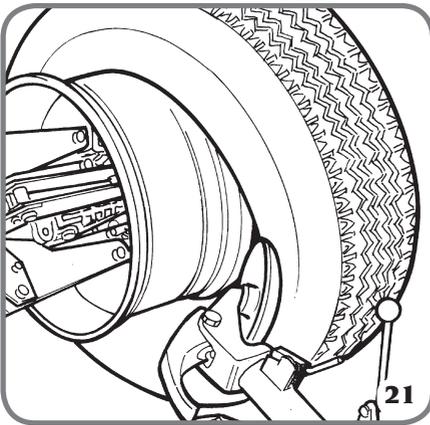
9) Move the mobile control unit to working position D.

10) Repeat the operations described above in points 5 and 6 until the second bead is completely detached.

N.B.: during bead breaking, the hook tool (A, Fig. 20) can be lowered so it is out of the way.

DEMOUNTING

Tubeless tyres can be demounted in two ways:



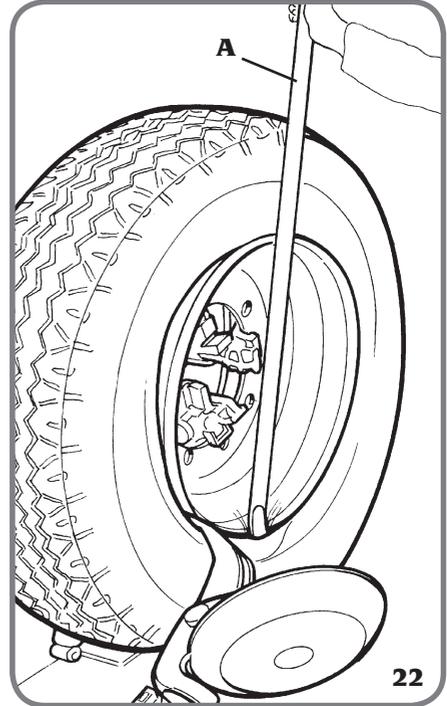
a- If the tyre is not difficult to demount, once the beads have been broken, use the bead breaking disc to push against the inner side of the tyre until both beads come out of the rim (see fig. 21).

b- With SUPERSINGLE or very hard tyres the

procedure described above in point a cannot be used. The hook tool must be used as follows:

1) Move the tool holder arm to the external side of the tyre.

2) Move the mobile control unit to work-



ing position C.

3) Rotate the wheel and at the same time move the hook tool forward inserting it between the rim and bead until it is anchored to the bead (see Fig. 22).

4) Move the rim about 4-5 cm away from the tool making sure the bead does not detach from the tool.

5) Move the hook tool outward so that its red reference dot is moved near the external rim edge.

6) Move the mobile control unit to working position B.

7) Insert the lever (A, Fig. 22) between the rim

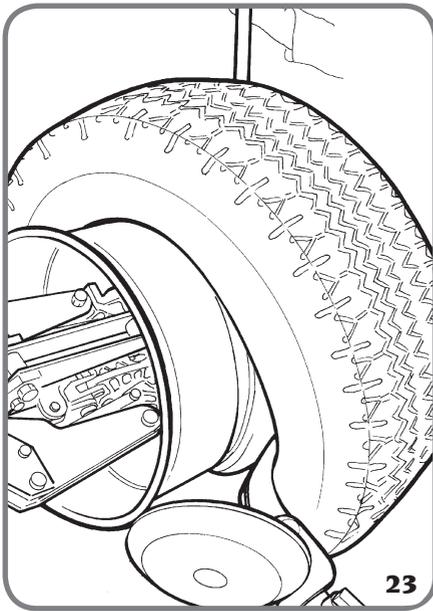
and the bead to the right of the tool.

8) Keeping the lever pressed down, lower the wheel to bring the rim edge about 5 cm from the hook tool.

9) Turn the wheel anticlockwise keeping the lever pressed down (**A, Fig. 22**) until the bead exits completely.

10) Position the tool holder arm in the non-working position and move it to the inner side of the wheel.

11) Move the mobile control unit to working position D.



12) Turn the hook tool 180°, insert it between the rim and bead (**see fig. 23**) and move it until the bead is near the front rim edge (it is recommended to perform this operation turning the wheel at the same time).

13) Move the rim about 4-5 cm away from the tool making sure the bead does not detach from the tool.

14) Move the mobile control unit to working position B.

15) Move the hook tool so that its red reference dot is positioned 3 cm. inside the rim.

16) Insert the lever (**A, Fig. 22**) between the rim and the bead to the right of the tool.

17) Keeping the lever pressed down, lower the wheel to bring the rim edge about 5 cm from the hook tool, then turn the wheel anticlockwise until the tyre comes completely off the rim.



When the beads come off the rim, the tyre will fall.

Make sure that no one is accidentally located in the work area.

MOUNTING

Tubeless tyres can be mounted using the bead breaker disc or the hook tool.

If the wheel is not difficult to mount, use the bead breaker disc; otherwise, the hook tool must be used.

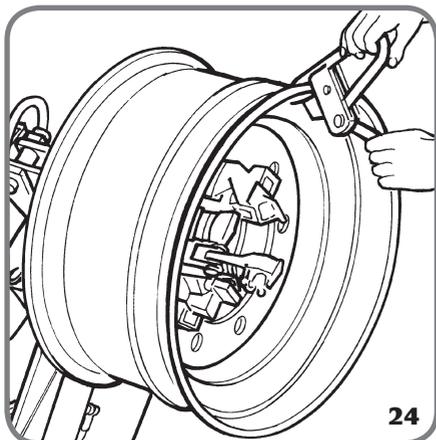
MOUNTING WITH THE DISC

Follow these steps:

1) If the rim has been removed from the turntable, reclamp it as described in the "WHEEL CLAMPING" paragraph.

2) Lubricate the tyre beads and rim using the recommended soapy solution.

3) Tighten the **rim gripper** on the outer side of the rim at the highest point (**see fig. 24**).



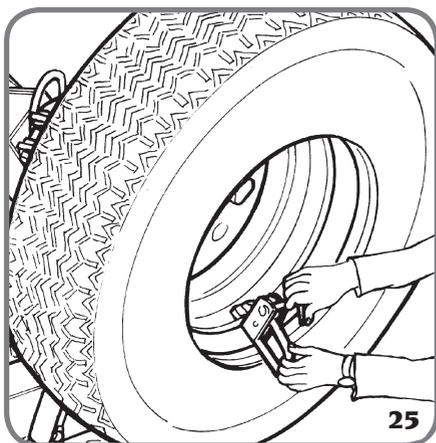
CAUTION

Make sure that the gripper is well attached to the rim.

4) Move the mobile control unit to working position B.

5) Position the tyre on the platform and lower the turntable (making sure to keep the gripper in the highest point) to hook the first bead to the gripper.

6) Lift the rim with the tyre hooked to it and turn it anticlockwise about 15-20 cm. The tyre will be positioned tilted across the rim.



7) Move the mobile control unit to working position C.

8) Position the bead breaker disc against the second bead of the tyre and turn the turntable until the gripper is at the lowest point (6 o'clock).

9) Move the bead breaker disc away from the wheel.

10) Remove the gripper and refit it in the same position (6 o'clock) outside the second bead (see fig. 25).

11) Turn the turntable clockwise 90° until the gripper is in the 9 o'clock position.

12) Move the bead breaker disc forward until it is 1-2 cm inside the rim edge, making sure it remains approx. 5 mm from the profile. Start the clockwise rotation making sure that after a 90° turn, the second bead starts to slip into the rim well.

13) When mounting is complete, move the tool away from the wheel, tip it into a non-working position and remove the gripper.

14) Position the platform under the wheel, lower the turntable until the wheel rests on the platform.

15) Move the mobile control unit to working position B.

16) Completely close the turntable clamps, making sure that the wheel is supported to prevent it from falling.



CAUTION

This operation can be extremely dangerous!

Perform it manually if you are absolutely certain you can maintain the wheel equilibrium only.

For heavy, large sized wheels you MUST use a suitable lifting device.

17) Move the platform to move the wheel away from the turntable.

18) Remove the wheel.

N.B.: If the tyre permits it, the operation described above can be speeded up by mounting both beads at the same time:

- Follow the steps described above in points 1-5, but instead of attaching the gripper to just the first bead (see point 5), attach both of them.
- Lift the rim with the tyre hooked to it and turn it 15-20 cm anticlockwise (gripper at 10 o'clock).
- Follow the steps described in points 12-18 in this paragraph.

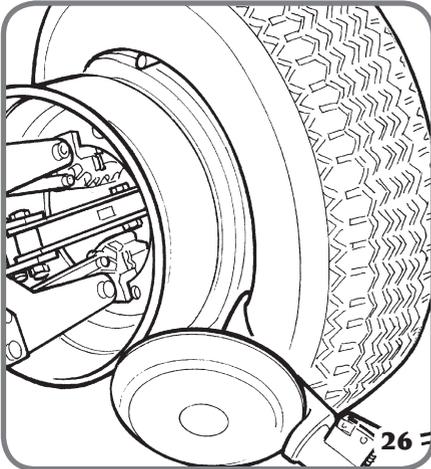
MOUNTING WITH THE HOOK TOOL

1) Follow the steps described in points 1-6 for mounting with the bead breaker disc.

2) Move the tool holder arm to the non-working position; move it to the inner side of the tyre and rehook it in this position.

3) Make sure that the hook tool is positioned to the side of the wheel. Otherwise, press the tool rotation lever and turn it 180°.

4) Move the mobile control unit to working position D.



5) Move the tool forward so that its red reference dot is aligned with the external edge of the rim, 5 mm. away from it (see Fig. 26).

6) Move the mobile control unit to working position C.

7) Move to the outside of the wheel and visually check the exact position of the tool and adjust it as needed. Then turn the turntable clockwise until the gripper is at the lower point (6 o'clock). The first bead will be inserted in the rim.

8) Remove the gripper.

9) Move the mobile control unit to working position D.

10) Remove the tool from the tyre.

11) Move the tool holder arm to the non-working position; move it to the outer side of the tyre and rehook it in this position.

12) Turn the tool 180° using the tool rotation lever.

13) Attach the gripper at the lowest point (6 o'clock) outside of the second bead.

14) Move the mobile control unit to working position C.

15) Turn the turntable clockwise approx. 90° (until the gripper is in the 9 o'clock position).

16) Move the tool forward until its red reference dot is aligned with the external edge of the rim, 5 mm. away from it.

Start the clockwise rotation making sure that after a 90° turn, the second bead has started to slip into the rim well.

Turn it until the gripper is at the lower point (6 o'clock). The second bead will also be inserted in the rim.

17) Proceed as described in points 13-18 for mounting with the disc to correctly remove the wheel.

WHEELS WITH AN INNER TUBE

BEAD BREAKING

CAUTION: When deflating the wheel, the ring nut that fastens the valve must be unscrewed so that the valve does not create an obstacle during bead breaking when it reenters the rim.

Proceed with the bead breaking operations, proceeding exactly as described for the tubeless tyres.

For wheels with an inner tube, stop the bead breaker disc from moving forward immediately after the bead is detached to prevent damaging the valve and the inner tube.

DEMOUNTING

1) Move the mobile control unit to working position C.

2) Tilt the tool holder arm to the non-working position, move it to the outer side of the wheel and rehook it in the working position.

3) Turn the turntable and move the hook tool forward at the same time, inserting it between the rim and bead until the latter hooks to the tool.

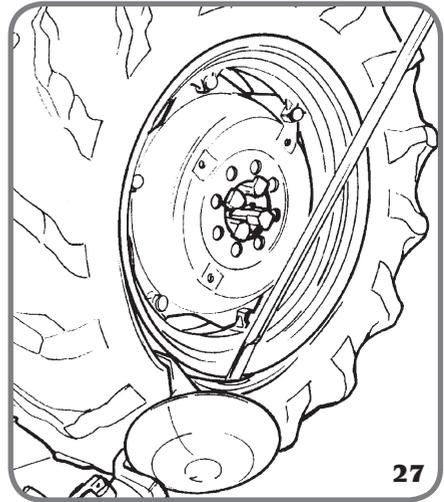
4) Move the rim about 4-5 cm away from the tool making sure the bead does not detach from the tool.

5) Move the hook tool outward so that its red reference dot is moved near the external rim edge.

6) Move the mobile control unit to working position B.

7) Insert the bead lifting lever (see Fig. 27) between the rim and the bead to the right of the tool.

8) Keeping the lever pressed down, lower the



wheel to bring the rim edge about 5 mm. from the hook tool.

9) Turn the wheel anticlockwise keeping the lever pressed down until the bead exits completely.

10) Move the tool holder arm away to the non-working position.

Lower the turntable until the wheel presses up against the mobile platform that, when moved outward slightly, creates the space needed to remove the inner tube.

11) Remove the inner tube and lift the wheel back up.

12) Move the mobile control unit to working position D.

13) Move the tool holder arm to the inner side of the wheel, turn the tool 180° and lower the arm to the working position. Insert it between the rim and bead and move it until the bead is near the front edge of the rim (it is recommended to perform this operation turning the wheel at the same time).

14) Move the rim about 4-5 cm away from the tool making sure the bead does not detach from the tool.

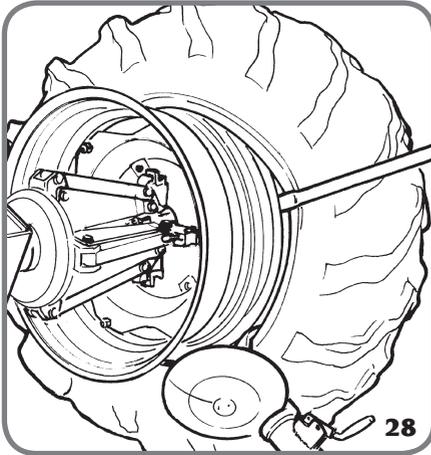
15) Move the mobile control unit to working position B.

UK

16) Move the hook tool so that its red reference dot is positioned 3 cm. inside the rim.

17) Insert the bead lifting lever between the rim and the bead to the right of the tool (see Fig. 28).

18) Keeping the lever pressed down, lower the wheel to bring the rim edge about 5 cm from



the hook tool, then turn the wheel anticlockwise until the tyre comes completely off the rim.



CAUTION

When the beads come off the rim, the tyre will fall. Make sure that no one is accidentally located in the work area.

MOUNTING

1) If the rim has been removed from the turntable, reclamp it as described in the "WHEEL CLAMPING" paragraph.

2) Lubricate the tyre beads and rim using the recommended soapy solution.

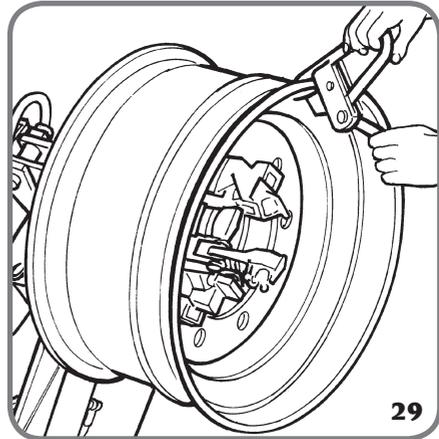
3) Tighten the **rim gripper** on the outer side of the rim at the highest point (see fig. 29).



CAUTION

Make sure that the gripper is well attached to the rim.

4) Move the mobile control unit to work-



ing position B.

5) Position the tyre on the platform and lower the turntable (making sure to keep the gripper in the highest point) to hook the first bead to the gripper.

6) Lift the rim with the tyre hooked to it and turn it anticlockwise about 15-20 cm. The tyre will be positioned tilted across the rim.

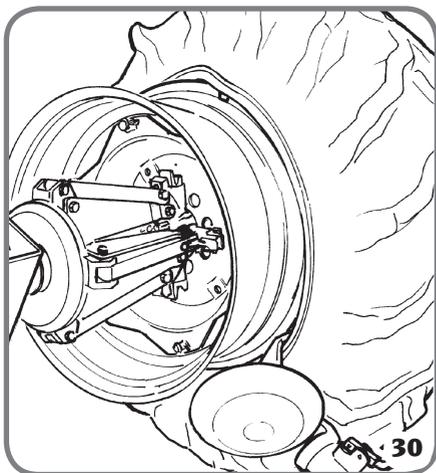
7) Move the tool holder arm to the non-working position; move it to the inner side of the tyre and rehook it in this position.

8) Make sure that the hook tool is positioned to the side of the wheel. Otherwise, press the tool rotation lever and turn it 180°.

9) Move the mobile control unit to working position D.

10) Move the tool forward so that its red reference dot is aligned with the external edge of the rim, 5 mm. away from it (see Fig. 30).

11) Move the mobile control unit to



working position C.

12) Move to the outside of the wheel and visually check the exact position of the tool and adjust it as needed. Then turn the turntable clockwise until the gripper is at the lower point (6 o'clock).
The first bead will be inserted in the rim.
Remove the gripper.

13) Move the mobile control unit to working position D.

14) Remove the tool from the tyre.

15) Move the tool holder arm to the non-working position; move it to the outer side of the tyre.

16) Turn the tool 180° using the tool rotation lever.

17) Move the mobile control unit to working position B.

18) Turn the turntable until the valve hole is at the lower point (at 6 o'clock).

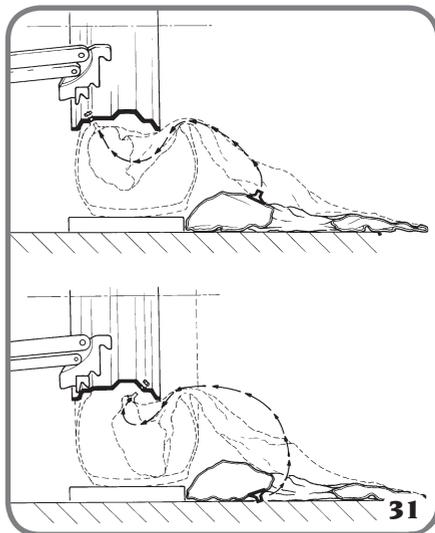
19) Move the mobile platform under the wheel and lower the turntable until the turntable rests on the platform.
Move the platform outward to create space

between the tyre and the rim into which the inner tube can be inserted.

N.B.: The valve hole may be asymmetrical to the centre of the rim. In this case position and insert the inner tube as shown in fig. 31.

Insert the valve through the hole and fix it with its ring nut.

20) Place the inner tube in the rim well.



N.B.: To facilitate this operation, turn the turntable at the same time clockwise.

21) Turn the turntable until the valve is at the bottom (at 6 o'clock).

22) Inflate the inner tube a little (until it has no folds) so as not to pinch it while mounting the second bead.

23) Attach an extension to the valve and then remove the fastening ring nut.

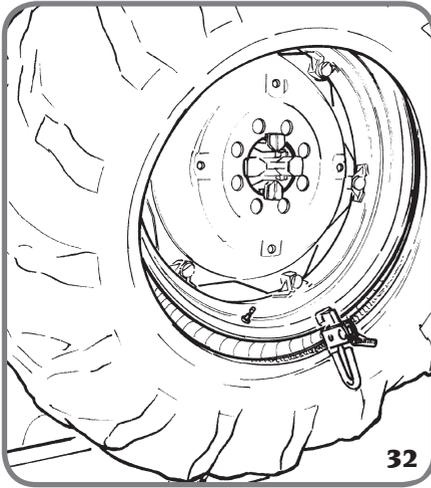
N.B.: The purpose of this operation is to allow the valve to be loose and not be ripped out when the second bead is mounted.

24) Move the mobile control unit to working position C.

25) Lift the wheel again and attach the rim gripper outside the second bead, approx. 20 cm. to the right of the valve (see Fig. 32).

UK

26) Turn the turntable clockwise until the grip-



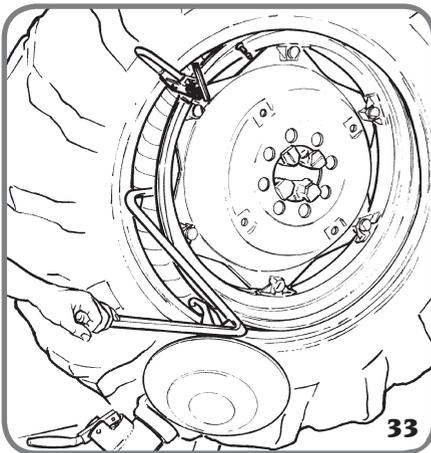
per is in the 9 o'clock position.

27) Move the tool holder arm to the working position.

28) Move the tool forward until its red reference dot is aligned with the external edge of the rim, 5 mm. away from it.

29) Turn the turntable slightly clockwise until the **bead guide lever** (see fig. 33), available upon request, can be inserted into its seat in the hook tool.

30) Hold back the lever, which will guide the bead



into the rim well and continue rotation until the tyre is completely mounted.

31) Remove the rim gripper.

Remove the tool by turning the turntable anti-clockwise and moving it outward.

32) Tilt the tool holder arm to the non-working position.

33) Position the platform under the wheel, lower the turntable until the wheel rests on the platform.

34) **Move the mobile control unit to working position B.**

35) With the tyre resting on the platform, check that the valve is perfectly centred with its hole. Otherwise, turn the turntable slightly to adjust its position.

Fasten the valve with the ring nut and remove the extension.

36) Completely close the turntable clamps, making sure that the wheel is supported to prevent it from falling.



CAUTION

This operation can be extremely dangerous!

Perform it manually if you are absolutely certain you can maintain the wheel equilibrium only.

For heavy, large sized wheels you MUST use a suitable lifting device.

37) Move the platform in order to free the wheel from the turntable.

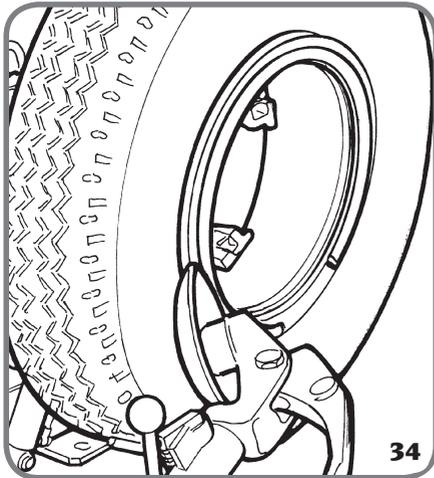
38) Remove the wheel.

WHEELS WITH A SIDE RING

BEAD BREAKING AND DEMOUNTING

WHEELS WITH 3-PIECE SIDE RINGS

- 1) Clamp the wheel on the turntable, as previously described, and ensure that it is deflated.
- 2) Move the mobile control unit to working position C.
- 3) Lower the tool holder arm into its working position until it hooks with the ratchet.
- 4) Position the bead breaker disc flush with the side ring, see Fig. 34.
- 5) Turn the turntable and advance the bead



breaker disc with small forward movements following the side ring profile until the first bead is completely detached.

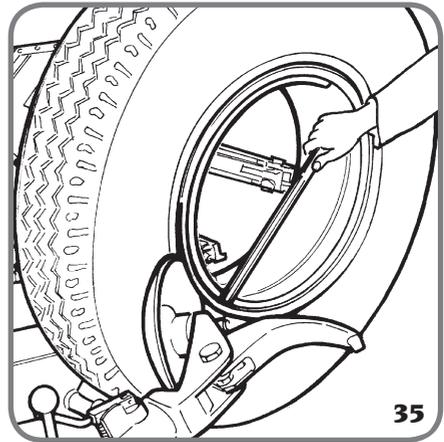
N.B.: lubricate during this operation.



CAUTION

For wheels with an inner tube, be extremely carefully when stopping the bead breaker disc from moving forward immediately after the bead is detached to prevent damaging the valve and the inner tube.

- 6) Repeat the operation, making the bead breaker disc move forward against the side ring (see fig. 35) until the locking ring is freed, which will be removed using the side ring lever or with the help of the bead breaker disc.



- 7) Remove the side ring.

8) Move the tool holder arm away from the rim edge. Release the ratchet and lift the arm to the non-working position. Move the tool holder arm to the inner side of the wheel.

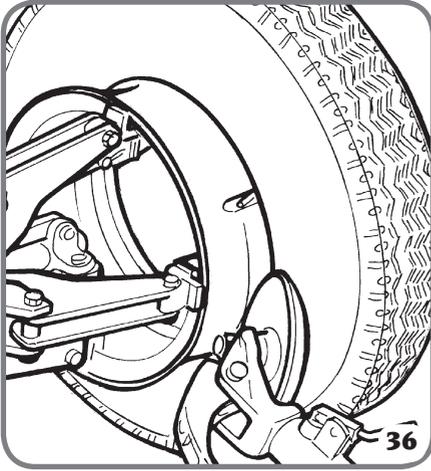
9) Press the tool rotation lever and turn it 180°, the tool will lock automatically. Lower the arm to the working position.

10) Turn the turntable and advance the bead breaker disc with small forward movements following the side ring profile until the second bead is completely detached.

N.B.: lubricate during this operation.

UK

Continue to push the tyre, moving the bead breaker disc forward until about half the tyre has come out of the rim (**see Fig. 36**).



11) Move the tool holder arm to the non-working position.

12) Move the mobile platform directly under the tyre.

13) Lower the turntable until the tyre rests on the platform.

14) Move the mobile control unit to working position B.

15) Move the platform outward until the tyre is completely removed from the rim, making sure the valve is in its seat.

WHEELS WITH 5-PIECE SIDE RINGS

1) Clamp the wheel on the turntable, as previously described, and ensure that it is deflated.

2) Move the mobile control unit to working position C.

3) Lower the tool holder arm into its working position until it engages with the ratchet.

4) Using the control lever, position the wheel

so that the bead breaker disc skims the outer edge of the shoulder side rim.

5) Turn the turntable and at the same time move it forward until detaching the side ring from the rim, being careful not to damage the O-ring.

6) Repeat the operation, making the bead breaker disc move forward against the side ring (**see fig. 35**) until the locking ring is freed, which will be removed using the side ring lever or with the help of the bead breaker disc.

7) Remove the O-ring.

8) Move the tool holder arm away from the rim edge. Release the ratchet and lift the arm to the non-working position. Move the tool holder arm to the inner side of the wheel.

9) Press the tool rotation lever and turn it 180°, the tool will lock automatically. Lower the arm to the working position.

10) Move the mobile control unit to working position D.

11) Turn the turntable and lower it at the same time in order to insert the bead breaker disc between the bead and the rim edge.

Only when the bead starts to detach, move the disc forward until positioning the external bead flush with the eternal rim edge.

N.B.: Lubricate during this operation.

12) Tilt the tool holder arm to the non-working position.

13) Move the mobile control unit to working position B.

14) Move the mobile platform directly under the tyre.

15) Lower the turntable until the tyre rests on the platform.

16) Move the platform outward until the tyre (with the attached side ring) comes off the rim.

17) Remove the rim from the turntable.

18) Position the tyre on the platform with the side ring turned towards the turntable.

19) Clamp the side ring on the turntable as described for WHEEL CLAMPING.



CAUTION

**The tyre is not fastened securely to the side ring.
Any strain on it during positioning and/or clamping could cause it to detach and fall.**

20) Move the mobile control unit to working position D.

21) Lift the wheel.

22) Return the tool holder arm to the working position.

23) Position the turntable so the bead breaker disc is perfectly lined up with the tyre bead.

24) Turn the turntable and at the same time move the bead breaker disc forward until the tyre exits the side ring completely.

N.B.: This double bead breaking procedure can be avoided by using the **PAIR OF CLAMPS** (upon request) that make it possible to fasten the side ring to the rim and break them at the same time.

The **pair of clamps (Fig. 37)** is provided with instructions for proper mounting and use.



CAUTION

**When the beads come off the rim, the tyre will fall.
Make sure that no one is accidentally**

located in the work area.

MOUNTING

WHEELS WITH 3-PIECE SIDE RINGS

1) Move the turntable arm to the non-working position.

If the rim has been removed from the turntable, reclamp it as described in the "WHEEL CLAMPING" paragraph.

N.B.: If the wheel has an inner tube, position the rim with the valve slot at the bottom (at 6 o'clock).

2) Lubricate the tyre beads and rim using the recommended soapy solution.

3) Move the mobile control unit to working position B.

4) Move the mobile platform outward in order to place the tyre on it.

N.B.: If the wheel has an inner tube, position the tyre with the valve at the bottom (at 6 o'clock).

5) Lower or lift the turntable in order to exactly centre the rim to the tyre.

6) Move the platform inward to make the rim enter the tyre.

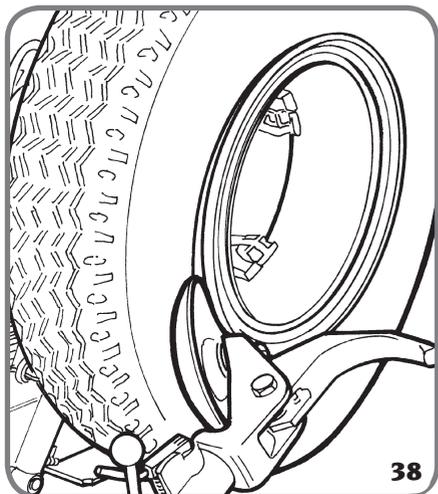
CAUTION: If the tyre has an inner tube, push the valve inside so it will not be damaged. Move forward with the platform until the rim is completely inserted in the tyre.

7) Move the tool holding arm to the external side then lower it to the working position with the bead breaker disc turned towards the wheel.

N.B.: If the tyre is not inserted sufficiently on the rim, move the turntable until the tyre bead is positioned in correspondence of the bead breaker disc. Move the disk forward (and at the same time turn the turntable) until it is completely inserted.

8) Put the side ring on the rim and then install the locking ring with the help of the bead breaker disc as shown in **Fig. 38**.

9) Move the tool holder arm to its non-working position and completely close the turntable clamps being careful to support the wheel to



keep it from falling.



CAUTION

This operation can be extremely dangerous!

Perform it manually if you are absolutely certain you can maintain the wheel equilibrium only.

For heavy, large sized wheels you MUST use a suitable lifting device.

10) Move the platform to move the wheel away from the turntable.

11) Remove the wheel.

WHEELS WITH 5-PIECE SIDE RINGS

1) Move the tool holder arm to the non-working position.

If the rim has been removed from the turntable, reclamp it as described in the "WHEEL CLAMPING" paragraph.

2) Lubricate the tyre beads and rim using the recommended soapy solution.

3) Move the mobile control unit to working position B.

4) Move the mobile platform outward in order to place the tyre on it.

5) Lower or lift the turntable in order to exactly centre the rim to the tyre.

6) Move the platform inward to make the rim enter the tyre. Move it forward until it is completely inserted.

7) Insert the shoulder side ring on the rim (with the lock ring already mounted).

N.B.: If the rim and the side ring have slits for fixing devices, make sure they are lined up with each other.

8) Move the mobile control unit to working position C.

9) Move the tool holder arm to the external side then lower it to the working position with the bead breaker disc turned towards the wheel.

N.B.: If the shoulder side ring is not inserted sufficiently on the rim, move the turntable until the tyre bead is positioned in correspondence of the bead breaker disc. Move the disk forward (and at the same time turn the turntable) until the sealing O-ring seat is "uncovered".

10) Lubricate the O-ring and insert it in its seat.

11) Move the mobile control unit to working position B.

12) Put the locking ring on the rim with the help of the bead breaker disc as shown in **Fig. 38**.

13) Move the tool holder arm to its non-working position and completely close the turntable clamps being careful to support the wheel to keep it from falling.



CAUTION

This operation can be extremely dangerous!

Perform it manually if you are absolutely certain you can maintain the wheel equilibrium only.

For heavy, large sized wheels you MUST use a suitable lifting device.

14) Move the platform to move the wheel away from the turntable.

15) Remove the wheel.



CAUTION

Do not inflate the tyre with the wheel still mounted on the turntable.

Tyre inflation is dangerous and should only be done by removing the wheel from the turntable and placing it inside a safety cage.

MAINTENANCE



CAUTION

CORGIHI declines all liability for claims deriving from the use of non-original spare parts or accessories.

ATTENTION

Unplug the machine from the socket and make sure that all moving parts have been locked before performing any adjustment or maintenance operation.

ATTENTION

Do not remove or modify any parts of this equipment except in the case of service operations.

ATTENTION

Before removing unions or pipes, make sure that the fluids are not pressurised. If pressurised oil escapes, it can cause serious injury.

CAUTION

Keep the work area clean.

Do not use pressurised water jets to wash the machine

You are strongly advised not to use compressed air to clean moving components.

When cleaning, take care not to create and raise dust as far as possible.

UK

For perfect operation and greater duration of your tyre changer, following these instructions carefully:

1) Lubricate the following parts periodically after cleaning them carefully with naphtha:

- the various joints on the turntable;
- the tool holder arm guide;
- the carriage guide plate.

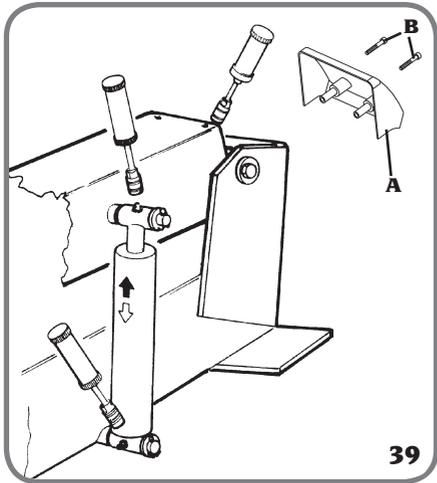
2) Grease the turntable arm lifting cylinder and the arm joint periodically through the grease nipples (**see fig. 39**).

Use ordinary lubricating grease.

N.B. To reach the grease nipple on the arm, first

remove the plastic cap (**A, Fig. 39**) unscrewing the two self-threading screws (**B, Fig. 39**).

3) Periodically check the oil level in the

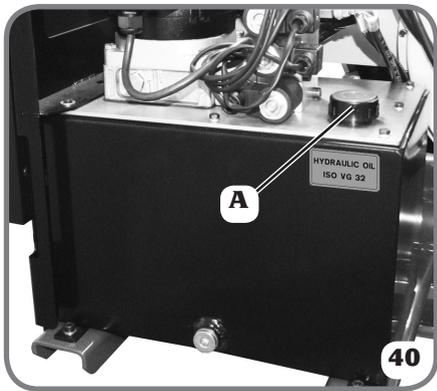


hydraulic power unit using the dipstick (**A, Fig. 40**).

If the level is below the minimum notch, top up with ESSO NUTO H 32 or an equivalent oil (ex.: AGIP OSO 32, SHELL TELLUS OIL 32, FINA HYDRAN 32, API CIS 32).

Unscrew the cap, add the oil and then close the cap.

4) Periodically check the oil level in the gear

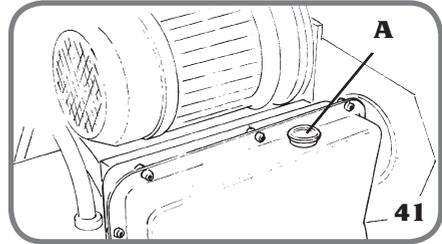


unit that, when the turntable arm is completely lowered to its end of stroke, should never completely uncover the sight glass on the gear

unit casing.

If necessary top up with ESSO SPARTAN EP 320 or an equivalent oil (ex.: AGIP F1 REP 237, BP GRX P 320, CHEVRON GEAR COMPOUND 320, MOBIL GEAR 632, SHELL OMALA OIL 320, CASTROL ALPHA SP 320).

Unscrew the cap (**A, Fig. 41**), add the oil and then close the cap.



CAUTION

Any top-ups or fluid changes using fluid of qualities different from those indicated may reduce the machine's lifetime and impair its performance.

N.B.: If the oil in the gear unit or the hydraulic power unit has to be changed, note that the gear unit casing and the power unit reservoir have specific drain plugs.



CAUTION

Dispose of the used oil following current regulations.

TOOL-HOLDER CARRIAGE SLIDING BLOCK ADJUSTMENT

Check the horizontal carriage periodically: the clearance between the guides and the sliding blocks must not be evident.

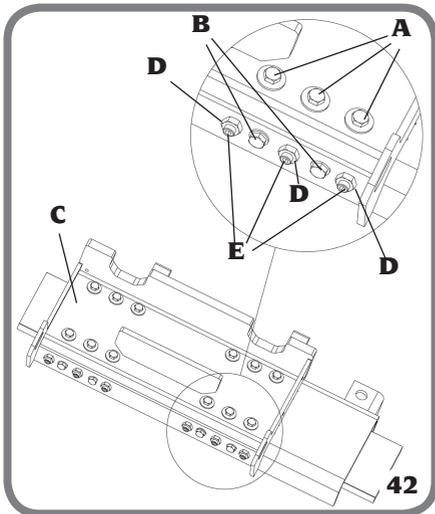
N.B.: Any mechanical clearance, even if small, can be detected during the mounting/demounting operations with the tool holder arm.

For longer component working life, it is advisable to adjust the sliding blocks as

described below:

- a) Disconnect the equipment from the power supply.
- b) Lift the tool holder arm to the non-working position.
- c) Loosen the front screws (**A**, Fig. 42) and the lateral screws (**B**, Fig. 42) relative to the two lower carriage sliders (**C**, Fig. 42).
- d) Loosen the 6 adjuster screw lock nuts (**D**, Fig. 42).
- e) Tighten each of the 6 slider adjuster screws by a quarter of a turn (**E**, Fig. 42).
- f) Tighten the fastener screws (**A** and **B**, Fig. 42) for the lower sliders.
- g) Tighten the 6 adjuster screw lock nuts (**D**, Fig. 42).

N.B.: If the adjustment is insufficient, and there is still clearance, adjust the screws further, repeating the procedure described above until all mechanical clearance has been eliminated.



INFORMATION AND CAUTIONS ABOUT OIL

Disposing of spent fluid

Do not dispose of used oil in sewers, storm drains, rivers or streams; collect it and consign it to an authorised disposal company.

Fluid leaks or spills

Contain the spilled product from spreading using soil, sand or any other absorbent material. The contaminated zone must be degreased with solvent, taking care not to allow vapours to form or stagnate, and the residual material from the cleaning process must be disposed of as envisaged by law.

Precautions for the use of hydraulic fluid

- Avoid contact with skin.
- Avoid formation and spreading of oil mists into the atmosphere.
- Adopt the following simple sanitary precautions:
 - protect against oil splashes (appropriate clothing, protective guards on machines);
 - wash frequently using water and soap; do not use cleaners or solvents that can irritate your skin or remove its natural protective oil;
 - do not dry hands with dirty or greasy rags;
 - change clothing if impregnated with oil, and in any case at the end of each work shift;
 - never smoke or eat with oily hands.
- Adopt the following preventive and protective measures as well:
 - gloves resistant to mineral oils, with lining;
 - goggles, in case of splashes;
 - aprons resistant to mineral oils;
 - screens to protect against oil splashes.

Mineral oil: first aid procedures

Mineral oil: first aid procedures

- Swallowing: seek medical attention immediately and provide all characteristics of the oil type ingested.
- Inhalation: for exposure to high concentrations of fumes or oil mist, move the affected person to the open air and seek medical attention immediately.
- Eyes: bathe with plenty of running water and seek medical attention immediately.
- Skin: wash with soap and water.

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DEMOLITION

If the machine is to be scrapped, remove all electrical, electronic, plastic and metal parts and dispose of them separately in accordance with current provisions as prescribed by law.

ENVIRONMENTAL INFORMATION

The disposal procedure described below only applies to machines with the symbol of the waste bin with a bar across it on their data plates



This product may contain substances that can be hazardous to the environment and to human health if it is not disposed of properly.

We are therefore providing you with the information below in order to prevent these substances from being released into the environment, and to improve the use of natural resources.

Electrical and electronic equipment must never be disposed of in the usual municipal waste but must be separately collected for their proper treatment.

The crossed-out bin symbol, placed on the product and on this page, reminds the user that the product must be disposed of properly at the end of its life.

Thus, the hazardous consequences that non-specific treatments of the substances contained in these products, or improper use of parts of them, may have on the environment or on human health are prevented. Furthermore, this helps to recover, recycle and reuse many of the materials contained in these products.

Electrical and electronic manufacturers and distributors set up proper collection and treatment systems for these products for this purpose.

At the end of the product's working life, contact your supplier for information about disposal procedures.

When you purchase this product, your supplier will also inform you that you may return another worn-out appliance to him free of charge, provided it is of the same type and has provided the

same functions as the product just purchased.

Any disposal of the product performed in a different way from that described above will be liable to the penalties provided for by the national regulations in force in the country where the product is disposed of.

Further measures for environmental protection are recommended: recycling of the internal and external packaging of the product and proper disposal of used batteries (only if contained in the product).

With your help, we can reduce the amount of natural resources used to produce electrical and electronic equipment, minimise the use of landfills to dispose of old products, and improve quality of life by preventing the discharge of potentially hazardous substances into the environment.

RECOMMENDED FIRE- EXTINGUISHING DEVICES

For the choice of the most suitable extinguisher, see the following table.

	Materials dry	Liquids inflammable	Equipment electric
Water	YES	NO	NO
Foam	YES	YES	NO
Powder	YES*	YES	YES
CO2	YES*	YES	YES



CAUTION

The indications given in this table are of a general nature and should be used as a general guide. The possible uses of each type of extinguisher must be requested from the manufacturer.

TROUBLE SHOOTING

After switching the main switch located on the electric control unit, the main indicator light will remain off and the controls will not work.

No current

- No current, provide power.

After switching the main switch, the main indicator light will turn on but the hydraulic power unit motor and/or turntable rotation motor will not work.

The thermal magnetic switch that protects the motor was activated.

- Open the electrical board, move the main switch to 0, then reactivate the overload cut motor protector using the switch (A, fig.43); when complete, reclose the electrical board.

Fuses burned

- Open the electrical board, moving the main switch to 0, then recheck the primary of the transformer fuses and replace them if necessary (B, fig.43); when complete, reclose the electrical board.

The pressure gauge indicates pressure below 130 bar $\pm 5\%$ and/or there is a slowing down of the tyre changer movements, as well as low power.

The oil in the power unit is below the minimum level.

- Refer to the "MAINTENANCE" paragraph to top up the oil.

The hydraulic power unit motor starts but the machine does not perform any commands

- Check the rotation direction of the hydraulic power unit motor.



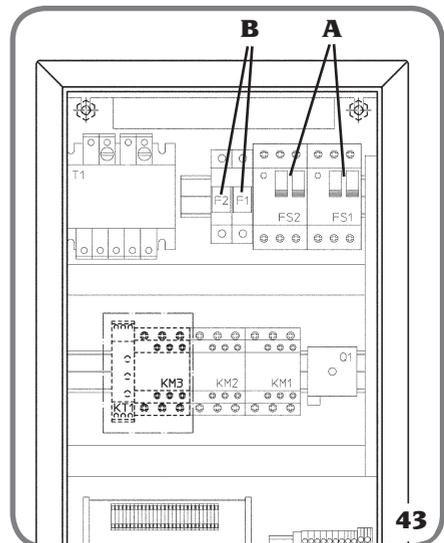
CAUTION

If, in spite of the above mentioned indications the tyre changer does not work properly, do NOT use it and contact your technical assistance centre.



CAUTION

The "Spare parts" handbook does not authorise users to carry out work on the machine with the exception of those operations expressly described in the user manual. It only enables users to provide the technical assistance service with precise information in order to minimise delays.



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GLOSSARY

Locking ring

Semi-ring in steel that locks the side ring.

Sealing ring

Rubber gasket that prevents the air in the wheel from escaping.

Turntable

Turntable with clamps that centres and supports the part.

Tool holder arm

Part that supports the tool unit.

Side ring

External support for the bead of the tyre mounted on the rim.

Wheel rim

Monolithic rim without mobile parts on which the tyre is mounted.

Rim with side ring

Rim with an open side for axial tyre mounting.

Bead breaker disc

Tool used for tyre bead breaking.

Clamps

Hooked mechanical part for holding or moving.

Hydraulic power unit

Assembly consisting of an electric motor and a hydraulic pump.

Tool unit

Group of equipment for tyre bead breaking and demounting.

Mobile control unit

Remote control unit used to make the machine perform all the movements necessary for the various operations.

Grooving

Operation for restoring the grooves in the tyre tread.

Inner/outer bead breaking

Separation of the tyre bead from the rim edge.

Supersingle

Extra wide tyres that replace twin tyres.

Bead

Each enlarged edge of the tyre that is in contact with the wheel rim.

Tubeless

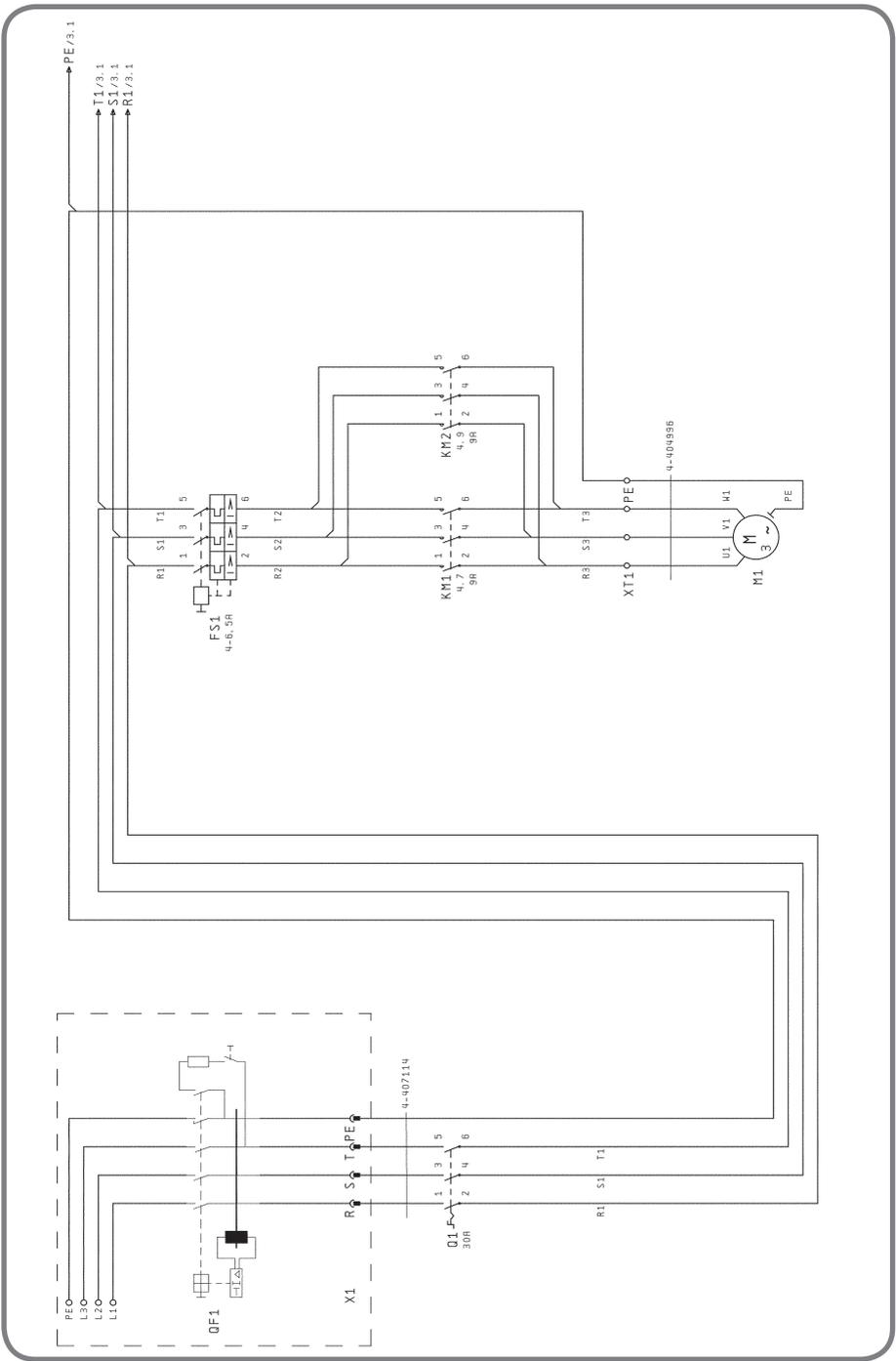
Tyre that does not have an inner tube.

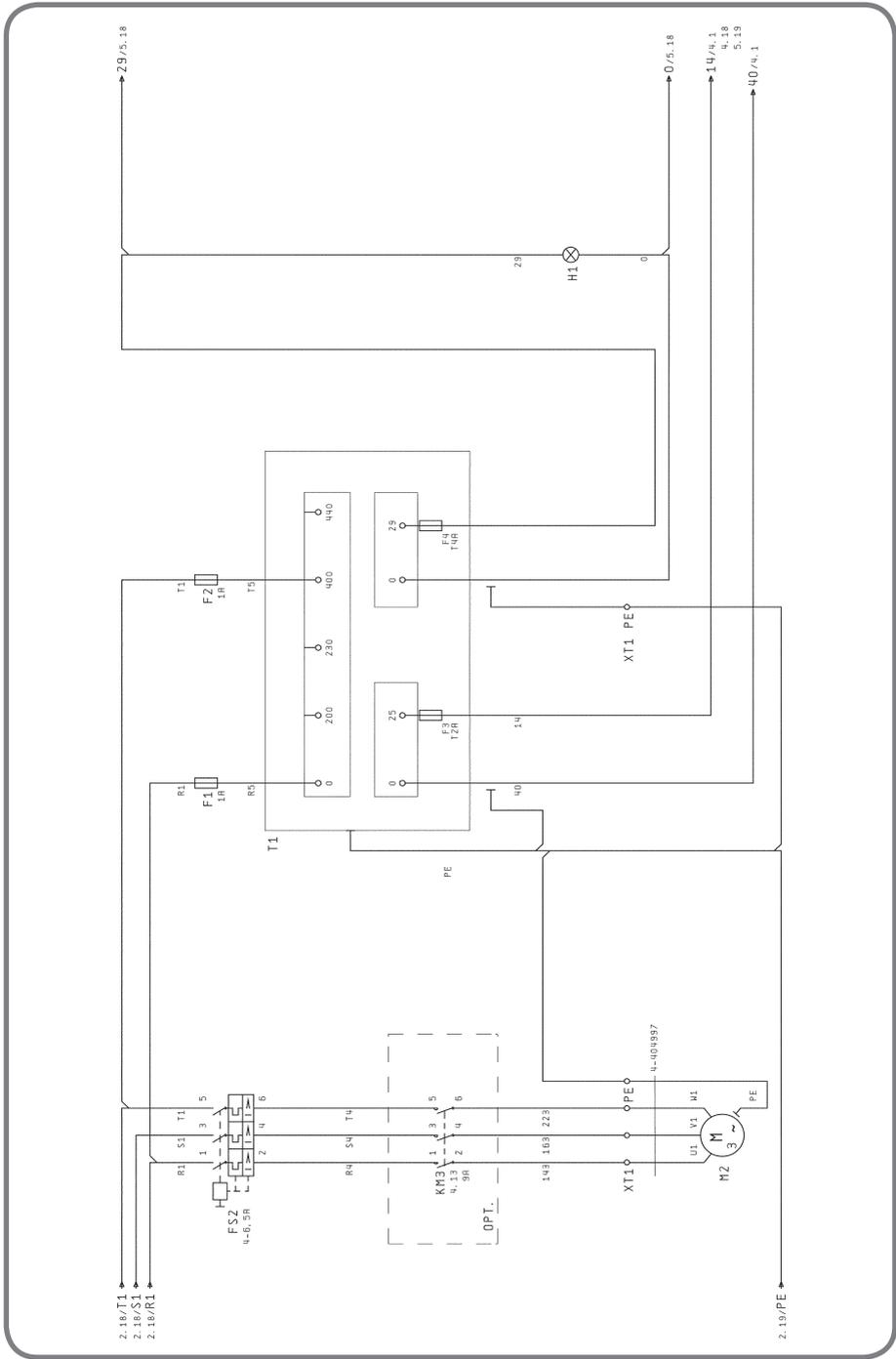
Tool

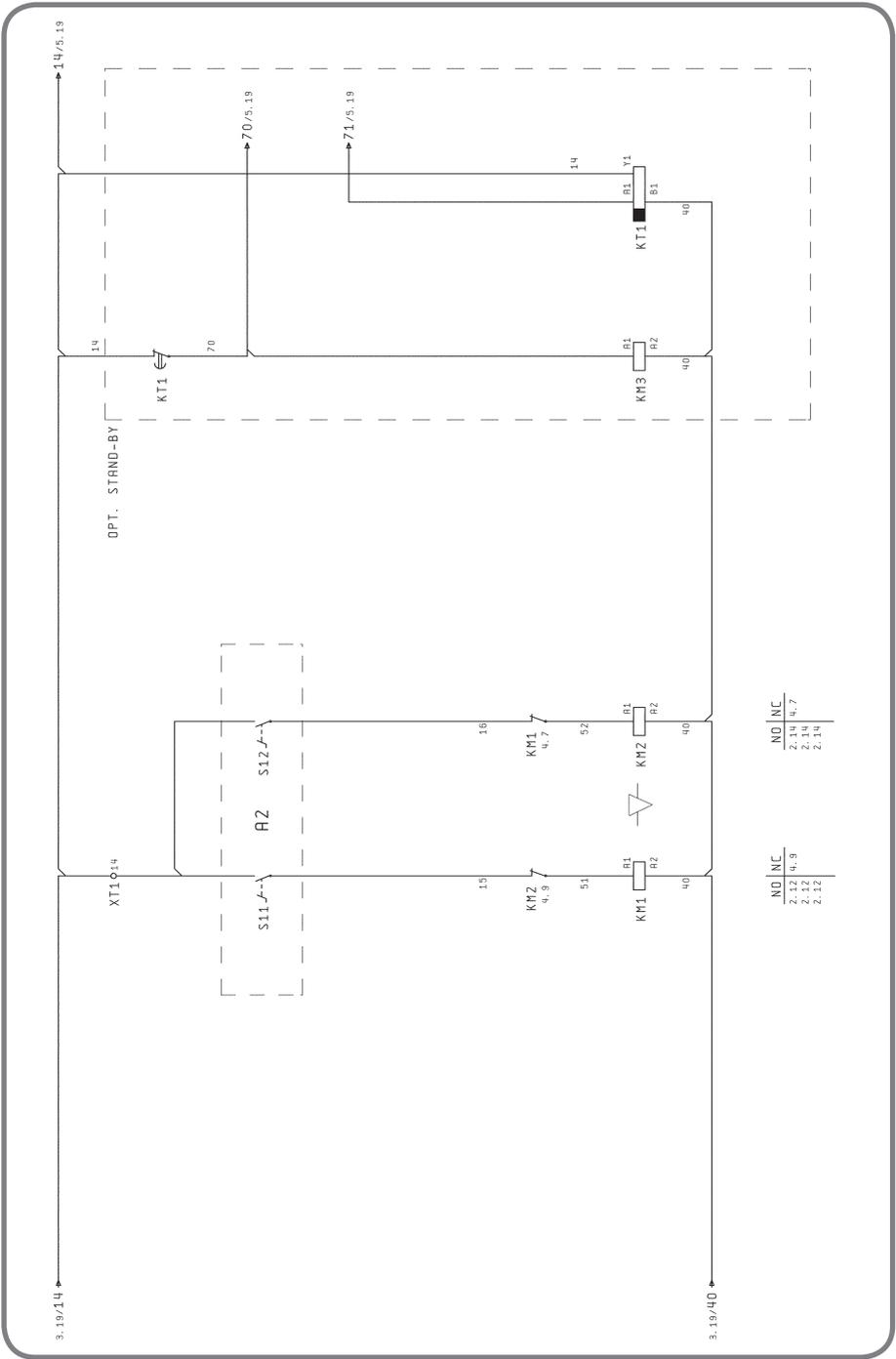
A specifically shaped part that is used for mounting and demounting.

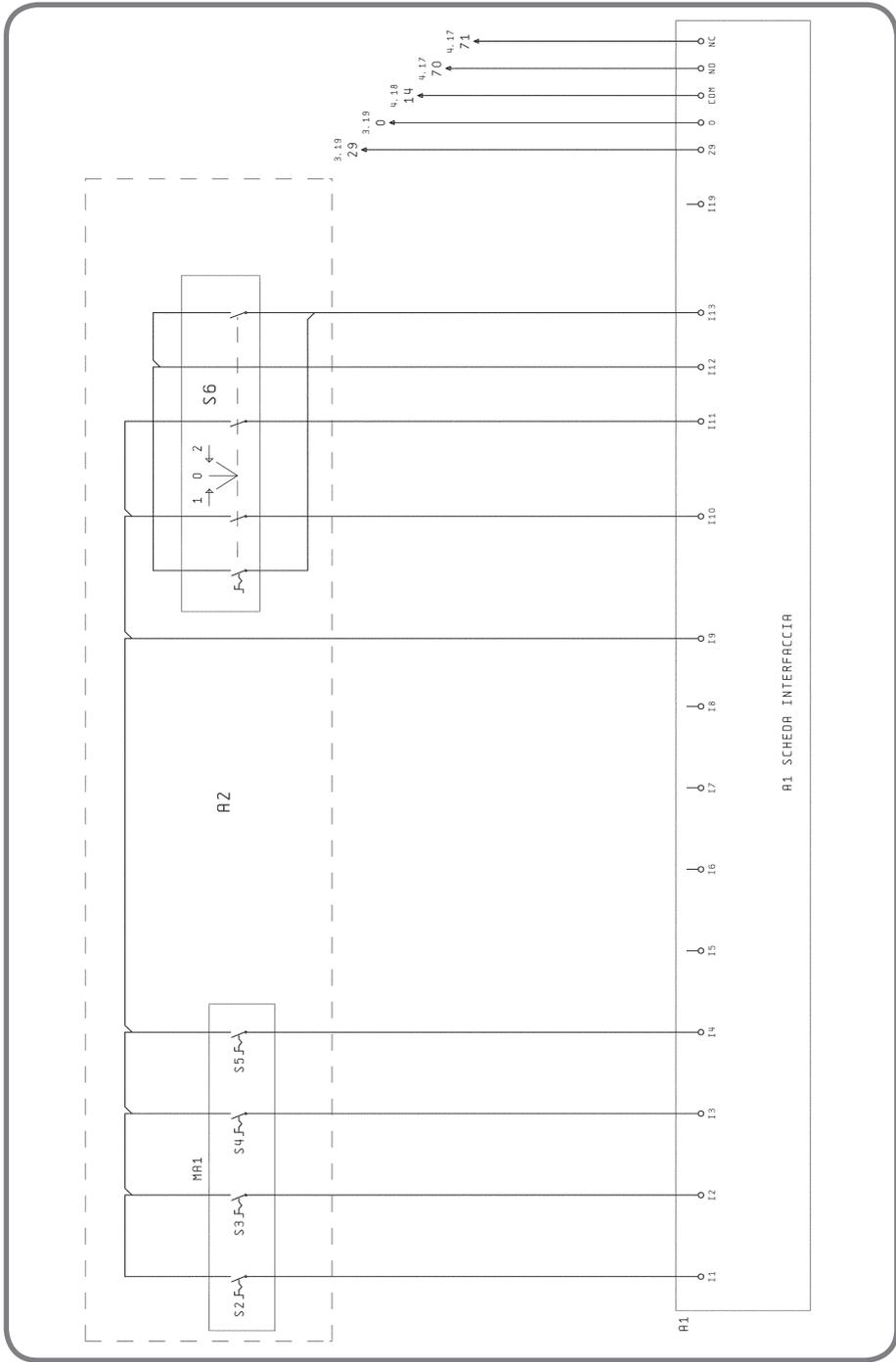
Schema elettrico
Wiring diagram
Schema électrique
Schaltplan
Esquema eléctrico

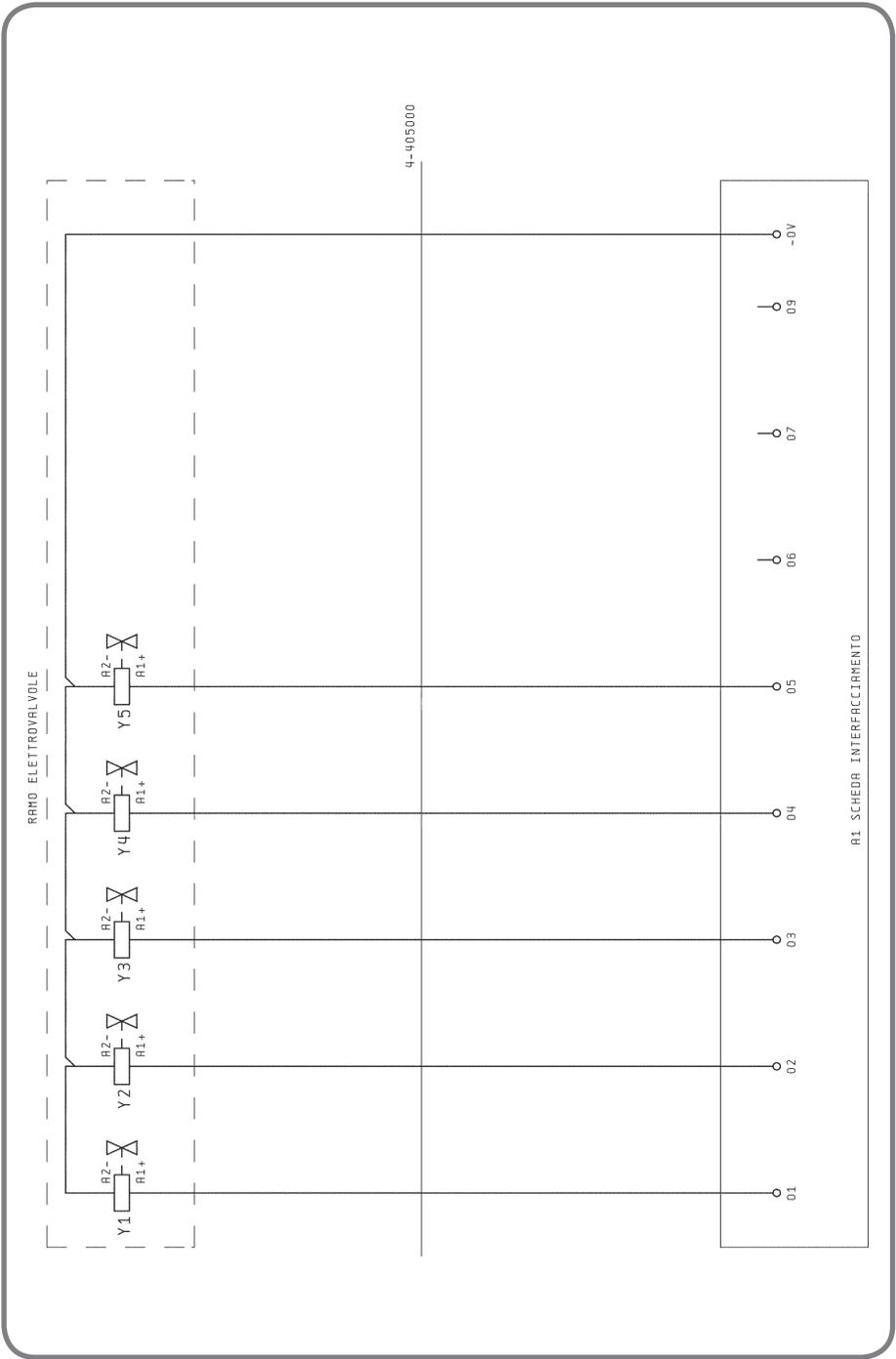
Interruttore differenziale (a carico dell'utilizzatore)	QF1	Differential switch (user installation)
Presa allacciamento macchina	X1	Feeding socket
Sezionatore principale blocco porta	Q1	Main control switch
Magnetotermico motore autocentrante	FS1	Chuck motor safety switch
Motore autocentrante	M1	Chuck motor
Magnetotermico motore centralina idraulica	FS2	Hydraulic system motor safety switch
Motore centralina oleodinamica	M2	Hydraulic system motor
Trasformatore	T1	Transformer
Lampada spia rete	H1	Feeding warning light
Marcia oraria autocentrante	KM1	Clockwise chuck rotation contactor
Marcia antioraria autocentrante	KM2	Anti-clockwise chuck rotation contactor
Teleruttore centralina idraulica (optional)	KM3	Hydraulic box contactor (optional)
Scheda interfaccia pedaliera	A1	Mobile control system PCB
Pedaliera di comando	A2	Mobile control system
Comando rotazione antioraria autocentrante	S12	Anti-clockwise chuck rotation control
Comando rotazione oraria autocentrante	S11	Clockwise chuck rotation control
Salita braccio	S2	Arm lifting microswitch
Discesa braccio	S3	Arm lowering microswitch
Apertura carrello	S4	Carriage opening microswitch
Chiusura carrello	S5	Carriage closing microswitch
Manipolatore	MA1	Handle
Switch comando chiusura/apertura autocentrante	S6	Chuck opening/closing microswitch
Fusibile 1A	F1 - F2	Fuse 1A
Fusibile 2AT	F3	Fuse 2AT
Fusibile 3,15A	F4	Fuse 3,15A
Temporizzatore (optional)	KT1	Timer (optional)
Bobina elettrovalvola	Y1 ÷ Y5	Electric valve coil





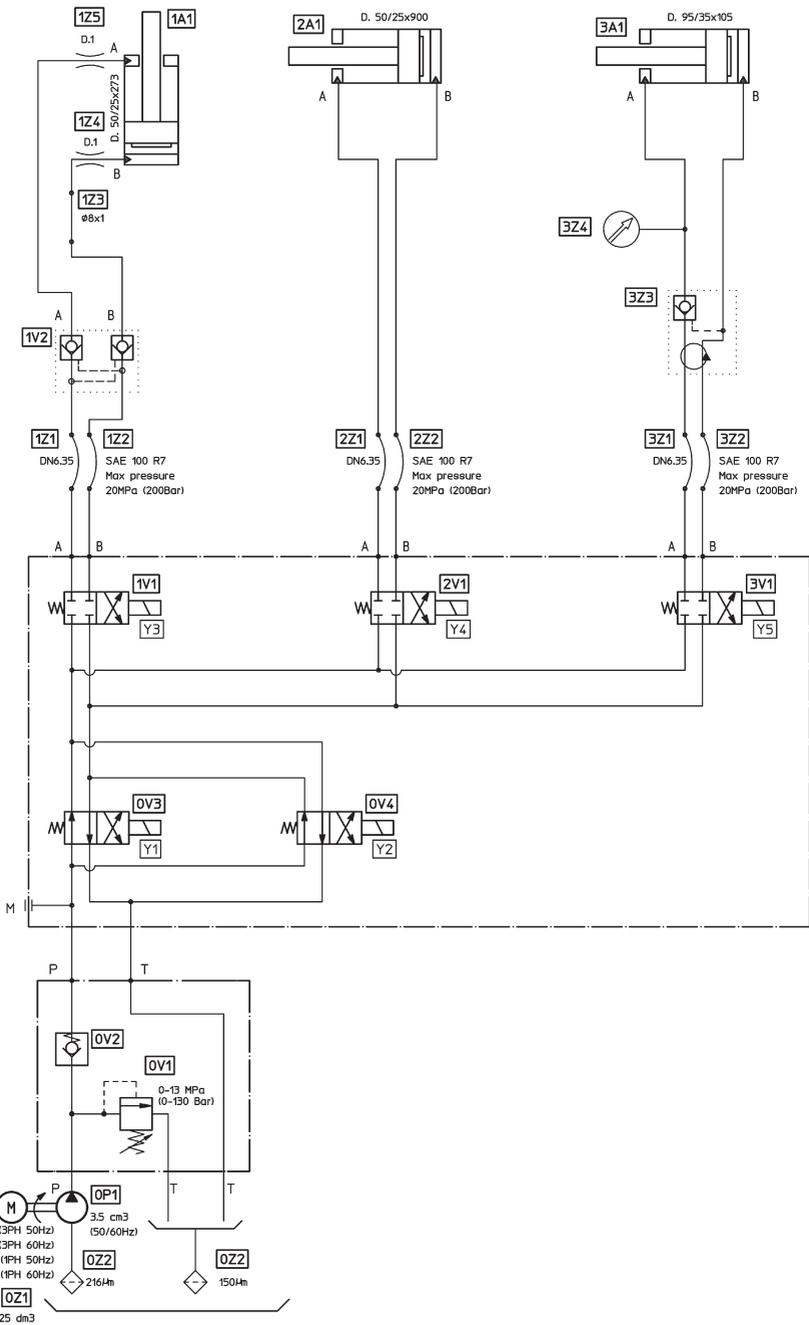






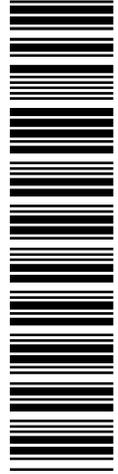
Schema idraulico
Hydraulic diagram
Schema hydraulique
Hydraulikschema
Esquema hidráulico

Motore centralina oleodinamica	0A1	Hydraulic gearbox motor
Pompa ad ingranaggi	0P1	Pump with gears
Valvola limitatrice di pressione	0V1	Pressure limit valve
Valvola unidirezionale	0V2	Unidirectional valve
Elettrovalvola selezione circuito	0V3	Circuit selection electric-valve
Elettrovalvola selezione circuito	0V4	Circuit selection electric-valve
Serbatoio centralina	0Z1	Oil tank
Filtro aspirazione	0Z2	Suction filter
Filtro scarico	0Z3	Discharge filter
Cilindro braccio autocentrante	1A1	Self-centering arm cylinder
Elettrovalvola comando cilindro	1V1	Cylinder control electric-valve
Valvola di ritegno	1V2	Non-return valve
Tubo flessibile	1Z1	Flexible hose
Tubo flessibile	1Z2	Flexible hose
Tubo rigido	1Z3	Rigid hose
Strozzatura fissa	1Z4	Fix choke
Strozzatura fissa	1Z5	Fix choke
Cilindro carrello	2A1	Carriage cylinder
Elettrovalvola comando cilindro	2V1	Cylinder control electric-valve
Tubo flessibile	2Z1	Flexible hose
Tubo flessibile	2Z2	Flexible hose
Cilindro autocentrante	3A1	Self-centering chuck cylinder
Elettrovalvola comando cilindro	3V1	Cylinder control electric-valve
Tubo flessibile	3Z1	Flexible hose
Tubo flessibile	3Z2	Flexible hose
Raccordo girevole completo	3Z3	Rotating union assembly
Manometro	3Z4	Pressure gauge





IT - Dichiarazione CE di conformità - Dichiarazione di conformità UE*
EN - EC Declaration of conformity - EU Declaration of conformity*
FR - Déclaration EC de conformité - Déclaration UE de conformité*
DE - EG – Konformitätserklärung - EU-Konformitätserklärung*
ES - Declaración EC de conformidad - Declaración UE de conformidad*



COMIM - Cod. 4-407043D del 11/2017



- IT** Quale fabbricante dichiara che il prodotto: **HD 700**
al quale questa dichiarazione si riferisce e di cui abbiamo costituito e deteniamo il relativo fascicolo tecnico è conforme alle seguenti normative e Direttive:
*: Valida solo per macchine marcate CE
- EN** As producer declare that the product: **HD 700**
to which this statement refers, manufactured by us and for which we hold the relative technical dossier, is compliant with the following standards and Directives:
*: Valid only for EC-marked machines
- FR** Déclarons que le matériel: **HD 700**
objet de cette déclaration, dont nous avons élaboré le livret technique, restant en notre possession, est conforme aux normes et Directives suivantes :
*: Valable uniquement pour les machines avec marquage CE
- DE** Erklärt hiermit dass das product: **HD 700**
Worauf sich die vorliegende Erklärung bezieht und dessen technische Akte diese Firma entwickelt hat und innehält, den anforderungen folgender normen und Richtlinien entspricht:
*: Gilt nur für EG-gekennzeichnete Maschinen
- ES** Declara que el producto: **HD 700**
al cual se refiere la presente declaración y del que hemos redactado y poseemos el correspondiente expediente técnico, se conforma a las siguientes normas y Directivas:
*: Válida sólo para máquinas con mercado CE

Conforme a/Conforms to:/Conforme à/ Entspricht:/Conforme a: EN ISO/IEC 17050-1 - EN ISO/IEC 17050-2