



7300-M009-0_P

**GA2645.XX - GA2645I.XX
GA2645IT.30
GA2645D.XX - GA2645ID.XX
GA2645ITD.30
GA2645V.XX - GA2645IV.XX
GA2645ITV.30**

INSTRUCTION MANUAL

GB

TRANSLATION FROM THE
ORIGINAL INSTRUCTIONS

For spare parts drawings refer to the section "LIST OF COMPONENTS" enclosed to this manual.

- For any further information please contact your local dealer or call:

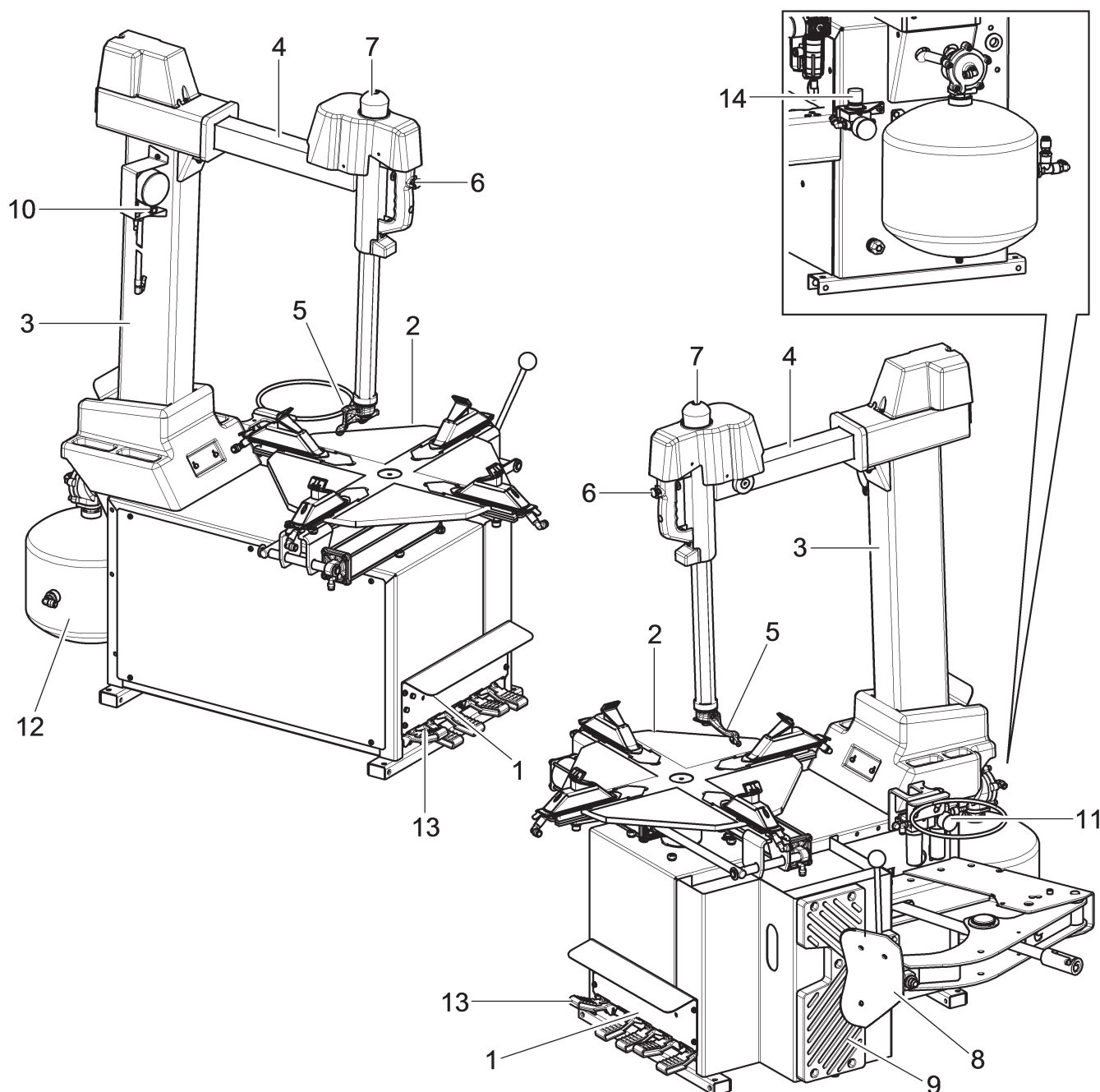
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7300-M009-0_P - Rev. n. 0 (03/2017)

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Fig. 1









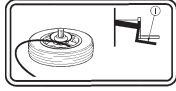




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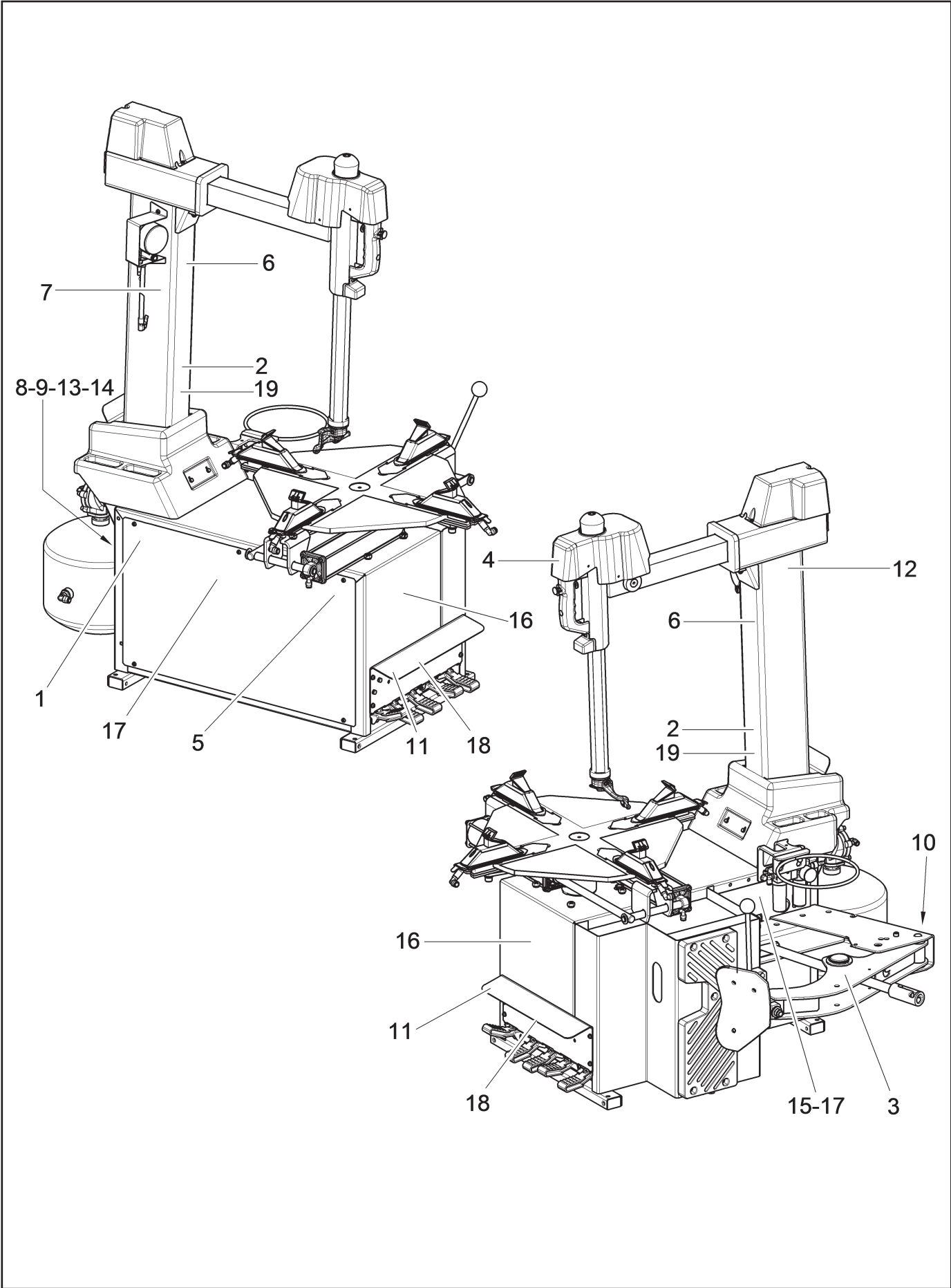
- 1 -Control pedal
- 2 -Mandrel
- 3 -Vertical rod
- 4 -Horizontal arm
- 5 -Head
- 6 -Head shaft and horizontal arm securing/releasing knob push-button
- 7 -Handle
- 8 -Vane
- 9 -Pad
- 10 -Tyre deflating push-button
- 11 -Lubricator filter unit
- 12 -Tubeless inflating device (only for I versions)
- 13 -Inflation pedal (only for I - IT versions)
- 14 -Microregulator (valid for version with pressure regulator - GA2645ID.26)

SYMBOLS USED IN THE MANUAL AND ON THE MACHINE

Symbols	Description
	Read instruction manual.
	FORBIDDEN!
	Wear work gloves.
	Wear work shoes.
	Wear safety goggles.
	Wear safety earcaps.
 99990758	Shock hazard.
 999911770	Danger! Moving mechanical parts.
	Caution: hanging loads.
	Mandatory. Operations or jobs to be performed compulsorily.
	Warning. Be particularly careful (possible material damages).

Symbols	Description
	Danger! Be particularly careful.
	Move with fork lift truck or pallet truck.
	Lift from above.
	Tyre burst danger.
	Spindle rotation direction.
	Hands crushing danger.
	General danger.
	Max inflation pressure rating.
	Inflation pedal.
	Technical assistance necessary. Do not perform any intervention.
	Note. Indication and/or useful information.

INFORMATION PLATE LOCATION TABLE



Ref.	Code	Description
1	99990758	Electricity danger plate
2	999910050	Protection device use plate
3	999910060	Bead breaker danger plate
4	999910070	Head danger indicating plate
5	999911770	Unit move indicating plate
6	999911870	Headphones plate
7	999911890	Bursting tyre hazard plate
8	999912380	Voltage plate 400V 50Hz 3Ph
	999912550	Voltage plate 110/60/1
9	999912390	230V 50 Hz 3 Ph plate
10	999912460	Supply pressure indicating plate
11	999913060	Pedal plate
12	999913280	Column tilting plate
13	999914620	200/265V 50/60Hz 1Ph voltage plate
14	999912530	Valid for 220V 60Hz 1Ph kW0.75 version
15	999916311	Rubbish skip label
16	-	Manufacturer nameplate
17	-	Serial number plate
18	999921010	5 pedals pedalboard plate
19	B4219000	Rotation indicating plate
	999916011	Motoinverter plate



IF ONE OR MORE PLATES DISAPPEAR FROM THE MACHINE OR BECOMES DIFFICULT TO READ. REPLACE IT AND QUOTE ITS/THEIR CODE NUMBER/S WHEN REORDERING.



SOME OF THE PICTURES PRESENT IN THIS MANUAL HAVE BEEN OBTAINED FROM PICTURES OF PROTOTYPES, THEREFORE THE STANDARD PRODUCTION MACHINES AND ACCESSORIES CAN BE DIFFERENT IN SOME COMPONENTS.

1.0 GENERAL INTRODUCTION

This manual is an integral part of the product and must be retained for the whole operating life of the machine.

Carefully study the warnings and instructions contained in this manual. It contains important instructions regarding **FUNCTIONING, SAFE USE and MAINTENANCE.**



KEEP THE MANUAL IN A KNOWN, EASILY ACCESSIBLE PLACE FOR ALL ACCESSORY OPERATORS TO CONSULT IT WHENEVER IN DOUBT.



THE MANUFACTURER DISCLAIMS ALL RESPONSIBILITY FOR ANY DAMAGE OCCURRED WHEN THE INDICATIONS GIVEN IN THIS MANUAL ARE NOT RESPECTED: AS A MATTER OF FACT, THE NON-COMPLIANCE WITH SUCH INDICATIONS MIGHT LEAD TO EVEN SERIOUS DANGERS.

1.1 Introduction

Thank you for preferring electro-hydraulic tyre-changer. We feel sure you will not regret your decision. The machine has been designed for use in professional workshops and in particular it stands out for its reliability, safe and rapid operation: with just a small degree of maintenance and care, this will give you many years of trouble-free service and lots of satisfaction. This manual contains all operating instructions and details on how to service and use the machine correctly.

2.0 INTENDED USE

The machines of model **"GA2645 - GA2645D - GA2645V"** and relevant versions, are car tyre changers intended for use solely for mounting, demounting and inflating wheels having max. diameter of 45"- and max. width of 17".



THIS ACCESSORY MUST ONLY BE USED FOR THE PURPOSE FOR WHICH IT IS SPECIFICALLY DESIGNED. ANY OTHER USE IS CONSIDERED IMPROPER AND THEREFORE UN-ACCEPTABLE.



THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY IMPROPER, ERRONEOUS, OR UNACCEPTABLE USE.



AN INTENSIVE USE OF THE EQUIPMENT IN INDUSTRIAL ENVIRONMENT IS NOT RECOMMENDED.

2.1 Training of personnel

The machine may be operated only by suitably trained and authorized personnel.

Given the complexity of the operations necessary to manage the machine and to carry out the operations safely and efficiently, the personnel must be trained in such a way that they learn all the information necessary to operate the machine as intended by the manufacturer.



A CAREFUL READING OF THIS INSTRUCTION MANUAL FOR USE AND MAINTENANCE AND A SHORT PERIOD OF TRAINING WITH SKILLED PERSONNEL CAN BE AN ENOUGH PREVENTIVE PREPARATION.

3.0 SAFETY DEVICES

All the machines are equipped with:

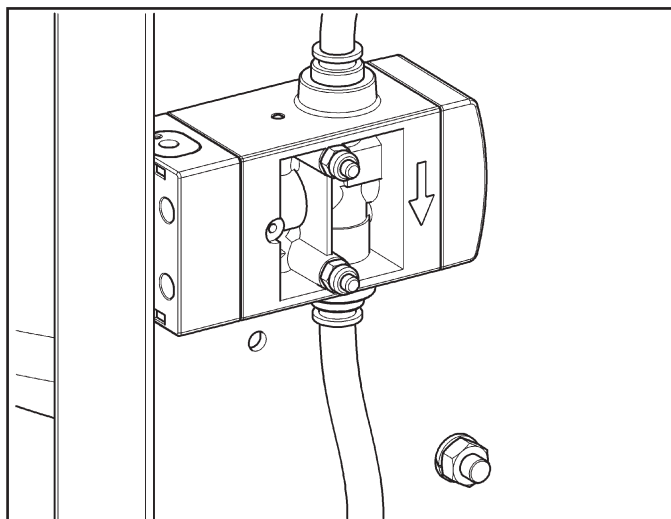
- **Fixed guards.**

The machine is fitted with a number of fixed guards intended to prevent potential crushing, cutting and compression risks.

- **“operator attending” controls** (immediate stop by releasing control) for: mandrel rotation, bead breaker vane motion, inflating; other drives such as rim clamping on spindle, head clamping cannot be of the operator-attending type, seen their function. In these cases safety is guaranteed by compliance with indications or precautions on machine residual risks (warning plates) also mentioned in the user's guide.

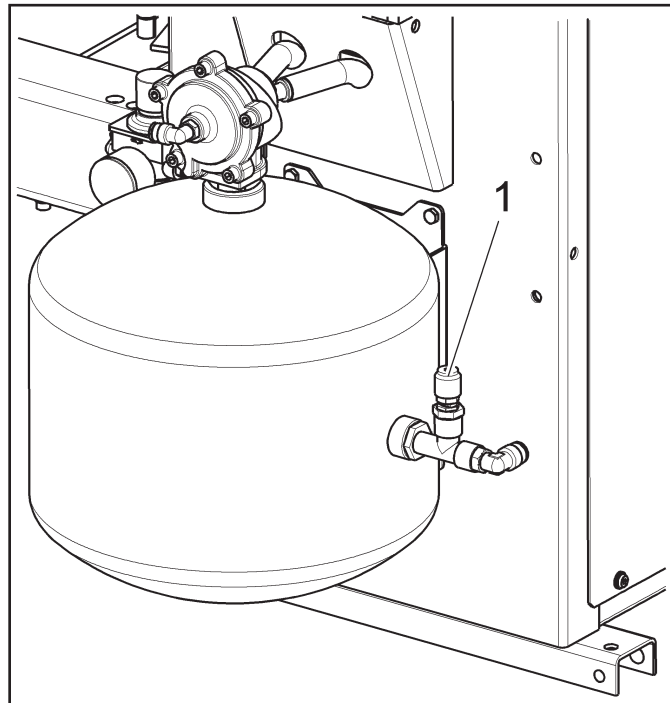
Moreover all machines that can be used for inflating tires (“I” and “IT” versions) are equipped with the following:

- pressure gauge for tyre pressure reading, EC-certified and in compliance with 86/217/EEC Standard;
- motor protection devices (for GA2645D.XX - GA2645ID.XX - GA2645ITD.30 models). The new “Invemotor” motor is equipped with electronic protection devices. They stop the motor if working defected conditions appear to avoid that the motor itself can be damaged and that the operator safety can be compromised (overvoltage, overload, over-temperature). For other details, see the chapter 14 “Fault-Finding”.
- Max. pressure valve fitted on compressed air reservoir (preset – see pneumatic diagram) in compliance with 87/404/EEC Standard;
- **Non-adjustable (balancing valve) pressure limiter.** This allows inflation of tyres in reasonable safety. Inflation of tyres to over $4,2 \pm 0,2$ bar (60 PSI) is not allowed.



- **Safety valve 12bar on tank (valid for version with pressure regulator - GA2645ID.26).**

The safety valve (see the following figure **ref. 1**) avoids that the inflation tank is under a pressure above 12 bar.



3.1 Residual risks

The machine was subjected to a complete analysis of risks according to reference standard EN ISO 12100. Risks are as reduced as possible in relation with technology and product functionality.

This manual stresses possible residual risks, also highlighted in pictograms on the present manual and adhesive warning signals placed on the machine: their location is represented in “PLATE LOCATION ON MACHINE INFORMATION TABLE” on page 5.

4.0 GENERAL SAFETY RULES



- Any tampering with or modification to the machine not previously authorized by the manufacturer exempts the latter from all responsibility for damage caused by or derived from said actions.
- Removing of or tampering with the safety devices or with the warning signals placed on the machine leads to serious dangers and represents a transgression of European safety rules.
- The machine may be used only in areas free from the danger of explosion or fire.
- The use of only original accessories and spare parts is advised. Our machine is designed to function only with original accessories.
- Installation must be conducted only by qualified personnel exactly according to the instructions that are given below.
- Ensure that there are no dangerous situations during the machine operating manoeuvres. Immediately stop the machine if it miss-functions and contact the assistance service of an authorized dealer.
- In emergency situations and before carrying out any maintenance or repairs, disconnect all supplies to the machine by using the main switch.
- Ensure that the work area around the machine is free of potentially dangerous objects and that there is no oil since this could damage the tyre. Oil on the floor is also a potential danger for the operator.



THE MANUFACTURER DENIES ANY RESPONSIBILITY IN CASE OF DAMAGES CAUSED BY UNAUTHORIZED MODIFICATIONS OR BY THE USE OF NON ORIGINAL COMPONENTS OR EQUIPMENT.



OPERATORS MUST WEAR SUITABLE WORK CLOTHES, PROTECTIVE GLASSES AND GLOVES, AGAINST THE DANGER FROM THE SPRAYING OF DANGEROUS DUST, AND POSSIBLY LOWER BACK SUPPORTS FOR THE LIFTING OF HEAVY PARTS. DANGLING OBJECTS LIKE BRACELETS MUST NOT BE WORN, AND LONG HAIR MUST BE TIED UP. FOOTWEAR SHOULD BE ADEQUATE FOR THE TYPE OF OPERATIONS TO BE CARRIED OUT.

- The machine handles and operating grips must be kept clean and free from oil.
- The workshop must be kept clean, dry and not exposed to atmospheric agents. Make sure that the working premises are properly lit. The machine can be operated by a single operator. Unauthorised personnel must remain outside the working area, as shown in **Figure 4**. Avoid any hazardous situations. Do not use air-operated or electrical equipment when the shop is damp or the floor slippery and do not expose such tools to atmospheric agents.
- During inflation do not lean on the tyre or remain above it. When beading in the tyre, keep hands away from tyre and the rim edge.
- During inflation always stay to the side of the machine and never in front of it.
- When operating and servicing this machine, carefully follow all applicable safety and accident-prevention precautions. The machine must not be operated by professionally unskilled persons.



IN CASE OF A CHANCE SUPPLY FAILURE (WHETHER ELECTRICITY OR COMPRESSED AIR), MOVE THE PEDALS TO THE NEUTRAL POSITION.

5.0 PACKING AND MOBILIZATION FOR TRANSPORT



HAVE THE MACHINE HANDLED BY SKILLED PERSONNEL ONLY.

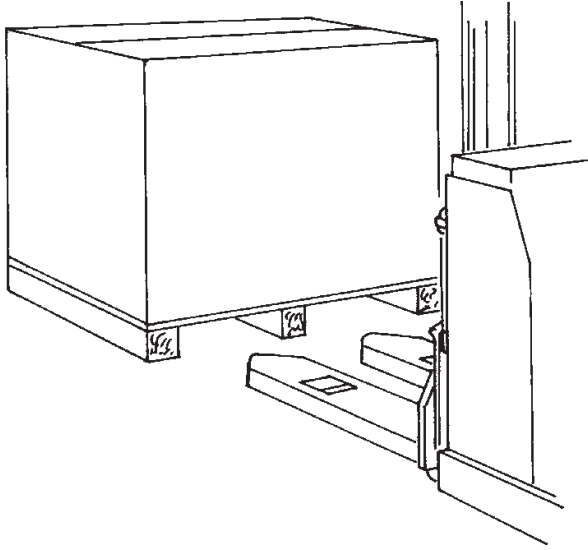
THE LIFTING EQUIPMENT MUST WITHSTAND A MINIMUM RATED LOAD EQUAL TO THE WEIGHT OF THE PACKED MACHINE (see paragraph "TECHNICAL SPECIFICATIONS").

The machine is packed in a carton box which size is mm 1150x1120x1900.

Movement must be by pallet-lift or fork-lift trolley.

The fork lifting points are indicated on the packing.

Fig. 2



6.0 UNPACKING



DURING UNPACKING, ALWAYS WEAR GLOVES TO PREVENT ANY INJURY CAUSED BY CONTACT WITH PACKAGING MATERIAL (NAILS, ETC.).

The cardboard box is supported with plastic strapping. Cut the strapping with suitable scissors. Use a small knife to cut along the lateral axis of the box and open it like a fan.

It is also possible to unnailed the cardboard box from the pallet it is fixed to. After removing the packing, and in the case of the machine packed fully assembled, check that the machine is complete and that there is no visible damage.

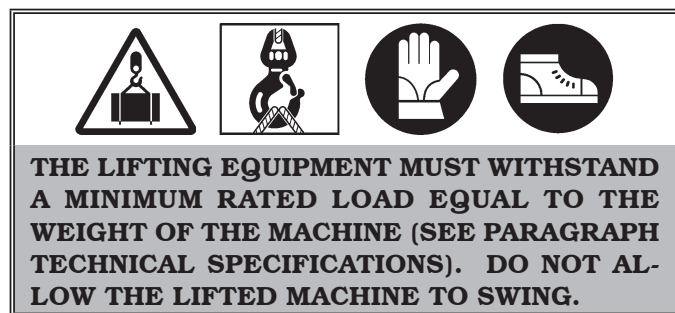
If in doubt **do not use the machine** and refer to professionally qualified personnel (to the seller).

The packing (plastic bags, expanded polystyrene, nails, screws, timber, etc.) should not be left within reach of children since it is potentially dangerous. These materials should be deposited in the relevant collection points if they are pollutants or non biodegradable.



THE BOX CONTAINING THE FIXTURES IS CONTAINED IN THE WRAPPING. DO NOT THROW IT AWAY WITH THE PACKING.

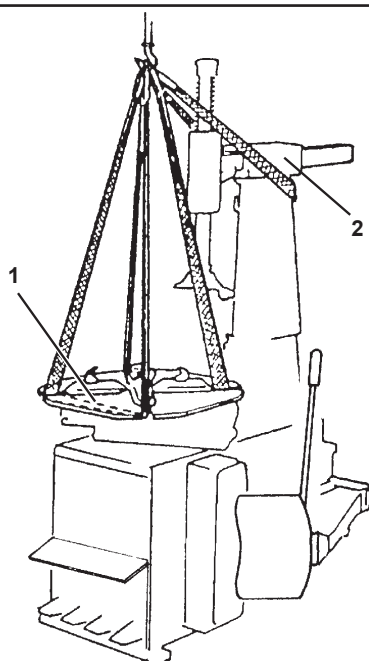
7.0 MOBILIZATION



If the machine has to be moved from its normal work post, the movement must be conducted following the instructions listed below (see **Fig. 3**).

- close completely mandrel jaws;
- turn the mandrel until its straight sides are aligned with machine sides;
- disconnect all machine power supply sources;
- move to limit switch in central position the arm (**Fig. 3 ref. 2**);
- remove horizontal arm guard by unscrewing the provided fixing screws;
- sling the machine using belts with a minimum width of 60 mm;
- pass the first belt behind the horizontal arm as shown in the figure;
- pass the second belt between the two front openings of the self-centring table (**Fig. 3 ref. 1**);
- pass the third belt between the two rear openings of the self-centring table (**Fig. 3 ref. 1**);
- tie up support belt ends above the machine using a suitable belt ring;
- lift and transport with suitable device with adequate dimensions.

Fig. 3



8.0 WORKING ENVIRONMENT CONDITIONS

The machine must be operated under proper conditions as follows:

- temperature: 0° + 55° C
- relative humidity 30 - 95% (dew-free)
- atmospheric pressure: 860 - 1060 hPa (mbar).

The use of the machine in ambient conditions other than those specified above is only allowed after prior agreement with and approval of the manufacturer.

8.1 Working position

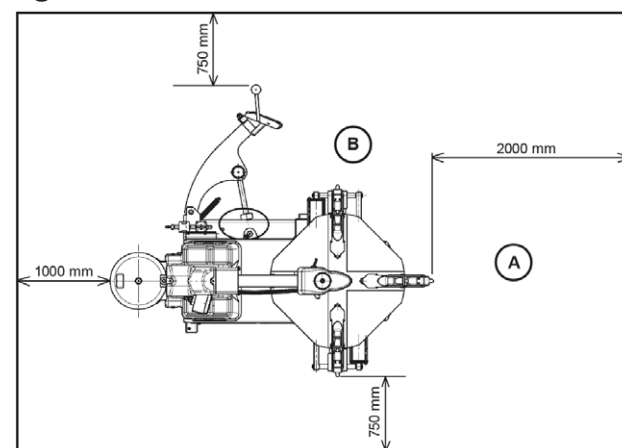
In **Figure 4** it is possible to identify working positions **A** and **B**.

Position **A** is the main position for wheel fitting and removal with the mandrel, while position **B** is ideal to follow wheel bead breaking operations.

Working in these positions allows better precision and speed during operating phases as well as greater safety for the operator.

8.2 Installation space

Fig. 4



USE THE MACHINE IN A DRY AND ADEQUATELY LIT PLACE, POSSIBLY INDOORS OR ANYWAY IN A ROOFED AREA, THIS PLACE MUST BE IN COMPLIANCE WITH APPLICABLE SAFETY REGULATIONS.

The location of the machine requires a usable space as indicated in **Figure 4**. The positioning of the machine must be according to the distances shown. From the control position the operator is able to observe all the machine and surrounding area. He must prevent unauthorized personnel or objects that could be dangerous from entering the area.

The machine must be fixed on a flat floor surface, preferably of cement or tiled. Avoid yielding or irregular surfaces.

The base floor must be able to support the loads transmitted during operation. This surface must have a capacity load of at least 500 kg/m².

The depth of the solid floor must be sufficient to guarantee that the anchoring bolts hold.

8.3 Lighting

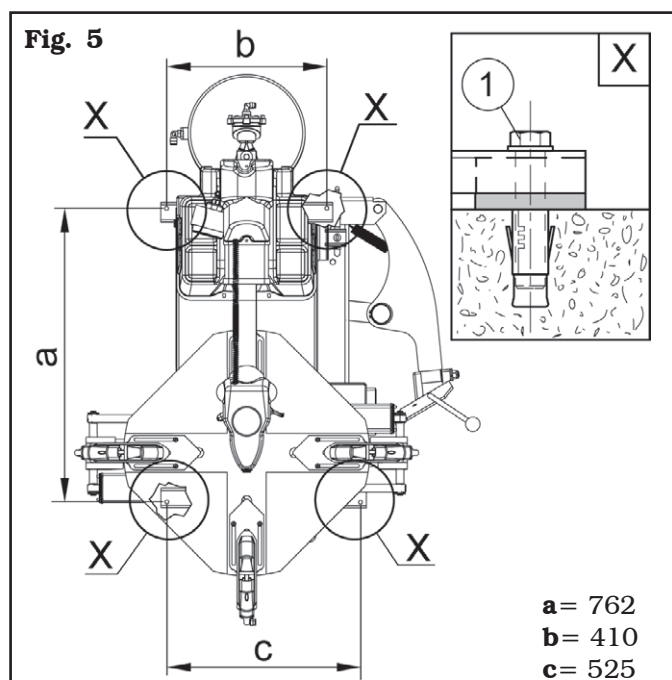
The machine does not require its own lighting for normal working operations.

However, it must be placed in an adequately lit environment.

For correct lighting, use lamps having total power 800/1200 Watt as envisaged by UNI 10380.

9.0 ANCHORING SYSTEM

The packed machine is fixed to the support pallet through the holes prearranged on the frame. Such holes can be used also to fix the machine to the ground, through floor anchor small blocks (excluded from supply). Before carrying out the definitive fixing, check that all the anchor points are laid down flat and correctly in contact with the fixing surface itself. If not so, insert shimming profiles between the machine and the fixing lower surface, as indicated in **Fig. 5**.



- Execute 4 holes with 10 mm diameter on the floor by the holes on the bottom floor;
- insert the small blocks (excluded from supply) into the holes;
- fix the machine to the ground with 4 M8x80 mm screws (excluded from supply) (**Fig. 5 ref. 1**) (or with 4 8x80 mm stud bolts (excluded from supply)). Tighten the screws with an approximate tightening torque of 70 Nm.

10.0 ASSEMBLY AND PREPARATION FOR USE

After having freed the various components from the packing check that they are complete, and that there are no anomalies, then comply with the following instructions for the assembly of the components making use of the attached series of illustrations.

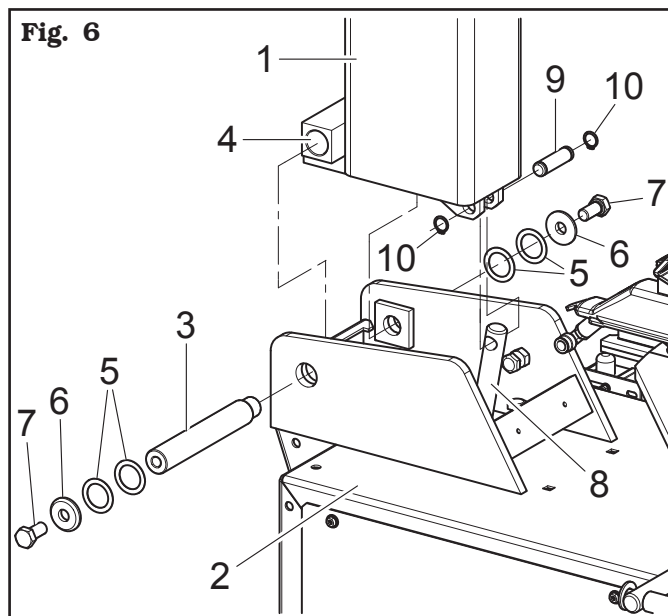
10.1 Assembly procedures

Remove the packaging and free the machine from the wrapping. Lift the machine and position it on the floor.

10.2 Post assembly

In case the post is supplied demounted, proceed following the instructions below.

1. Remove the fixing elements needed to fix the machine to the pallet.
2. Unpack the vertical post (**Fig. 6 ref. 1**) and put it vertically onto the base.
3. Put the post (**Fig. 6 ref. 1**) onto the base (**Fig. 6 ref. 2**) and fit the pin (**Fig. 6 ref. 3**) into the special hole (**Fig. 6 ref. 4**) and block it through the washers (**Fig. 6 ref. 5**), the spacers (**Fig. 6 ref. 6**) and the screws (**Fig. 6 ref. 7**). Fix the post control cylinder (**Fig. 6 ref. 8**) using the pin (**Fig. 6 ref. 9**) and the seegers (**Fig. 6 ref. 10**).



4. At the end mount the rod covering by means of the supplied screws and washers.

10.3 Bead breaker arm mounting

Secure the beading arm vane (**Fig. 7 ref. 1**) using the washers (**Fig. 7 ref. 2**) and the nut (**Fig. 7 ref. 3**), on issue (nut and washers are clamped on the bead breaker vane).

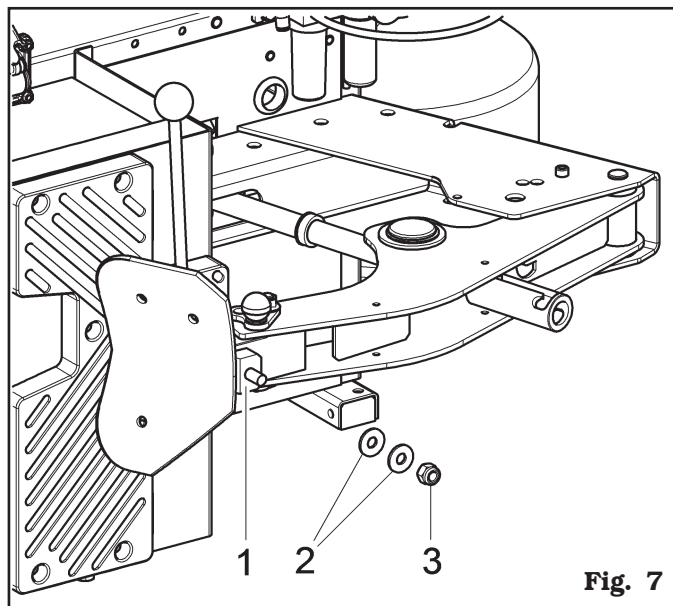


Fig. 7

10.4 Tubeless inflation mounting (only for I and IT version)

1. Mount the tank (**Fig. 8 ref. 1**) on the base rear part, as shown in **Fig. 8**, using the screws (**Fig. 8 ref. 2**) (tightening torque approx. 8 N·m), the washers (**Fig. 8 ref. 3**) and the nuts (**Fig. 8 ref. 4**).

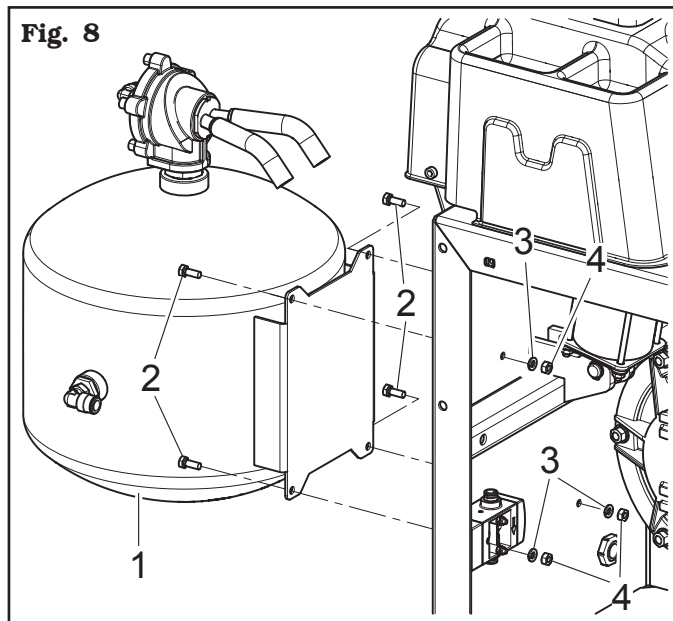
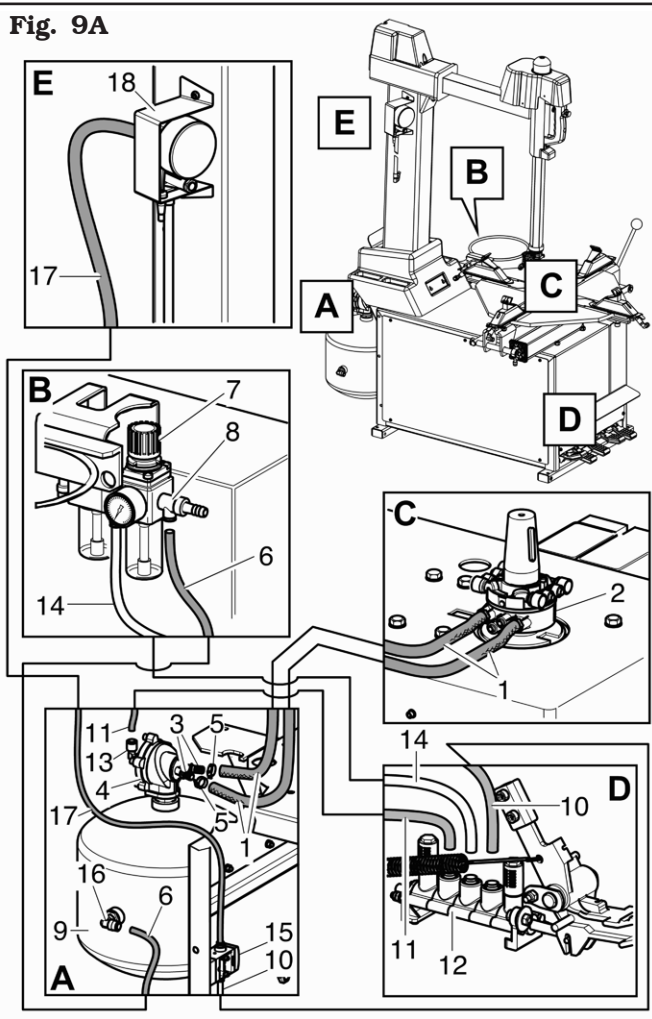


Fig. 8

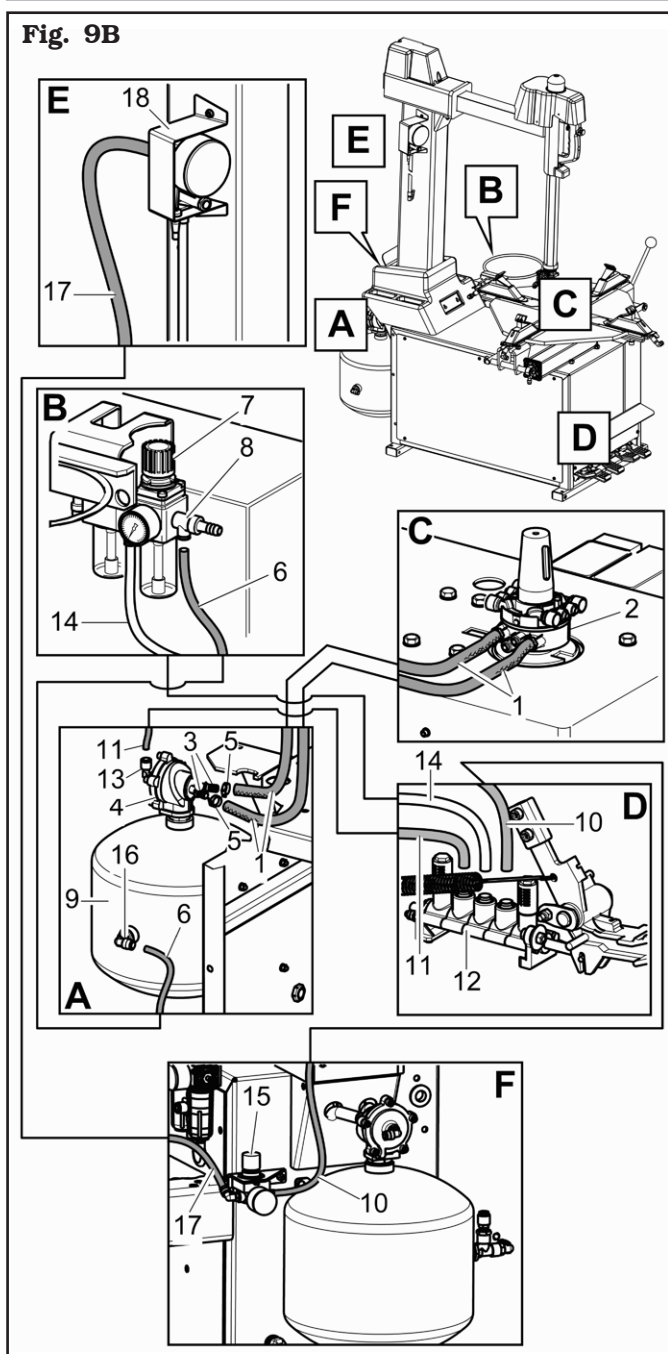
2. Connect the flexible pipes (**Fig. 9A-9B ref. 1**) preassembled on the mandrel rotary distributor (**Fig. 9A-9B ref. 2**), on the valve (**Fig. 9A-9B ref. 4**) hosenipple (**Fig. 9A-9B ref. 3**). Fasten the pipes (**Fig. 9A-9B ref. 1**) with the prepared clamps (**Fig. 9A-9B ref. 5**).
3. Connect the pipe (**Fig. 9A-9B ref. 14**) from the greaser reduction gear filter (**Fig. 9A-9B ref. 7**) (air not lubricated) to the pedalboard (**Fig. 9A-9B ref. 12**).
4. Connect the pipe (**Fig. 9A-9B ref. 11**) from the pedal board lower valve (**Fig. 9A-9B ref. 12**) to the blow valve (**Fig. 9A-9B ref. 4**) union (**Fig. 9A-9B ref. 13**).
5. Connect the pipe (**Fig. 9A-9B ref. 6**) to the T coupling (**Fig. 9A-9B ref. 8**) and the coupling (**Fig. 9A-9B ref. 16**) placed on the tank (**Fig. 9A-9B ref. 9**).
6. Connect the pipe (**Fig. 9A-9B ref. 10**) from the valve (**Fig. 9A ref. 15**) or the microregulator (**Fig. 9B ref. 15**) to the pedalboard (**Fig. 9A-9B ref. 12**).
7. Connect the pipe (**Fig. 9 ref. 17**) from the valve (**Fig. 9A ref. 15**) or the microregulator (**Fig. 9B ref. 15**) to the inflation unit (**Fig. 9 ref. 18**).

Fig. 9A



Valid for version with pressure regulator -
GA2645ID.26

Fig. 9B



IN CASE OF A CHANCE SUPPLY FAILURE, AND/OR BEFORE ANY PNEUMATIC CONNECTIONS, MOVE THE CONTROLS TO THE NEUTRAL POSITION.

10.5 Electrical connections



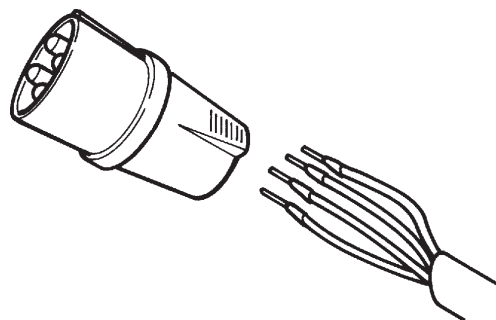
EVEN THE TINIEST PROCEDURE OF AN ELECTRICAL NATURE MUST BE CARRIED OUT BY PROFESSIONALLY QUALIFIED STAFF.



BEFORE CONNECTING THE MACHINE MAKE SURE THAT:

- **THE MAIN POWER RATING CORRESPONDS TO THE MACHINE RATING AS SHOWN ON THE MACHINE PLATE;**
- **ALL MAIN POWER COMPONENTS ARE IN GOOD CONDITION;**
- **THE ELECTRICAL SYSTEM IS PROPERLY GROUNDED (GROUND WIRE MUST BE THE SAME CROSS-SECTION AREA AS THE LARGEST POWER SUPPLY CABLES OR GREATER);**
- **MAKE SURE THAT THE ELECTRICAL SYSTEM FEATURES A CUTOUT WITH DIFFERENTIAL PROTECTION SET AT 30 MA.**

As envisaged by the regulations in force, the machine is not equipped with a master circuit breaker, but simply has a plug-socket connection to the electrical mains.



The machine is supplied with free cable of mt. **3**. A plug corresponding to the following requirements must be connected to the cable:

- **Conformity to Norm IEC 309**
- **230/400 Volt – 16A**
- **3P + Ground**
- **IP 44**

Only for versions with inverter

- **Conformity to Norm IEC 309**
- **220/240 Volt – 32A**
- **2P + Ground**
- **IP 44**

Only for 110V - 60Hz monophasic version

- Conformity to Norm **IEC 309**
- **110V - 60Hz - 32A**
- **1P + N + Ground**
- Protection degree **IP 44** or equivalent

**Only for monophasic 110V - 60Hz version with
CSA cable**

The machine is supplied with bipolar cable of **2 m**, CSA certified. A plug corresponding to the following requirements must be connected to the cable:

- Conformity to Norm **UL/CSA**
- **110V - 60Hz - 32A**
- **1P + N + Ground**
- Protection degree **IP 44** or equivalent

On delivery, the machines are preset to operate at a voltage of 230/400 V - 50-60 Hz three-phase (for version GA2645) or at a voltage of 230/400 V - 50 Hz three-phase (for version GA2645V) and with a monophasic voltage from 200 to 265 V - 50-60 Hz (for version GA2645D).

For any other type of power supply, ask the manufacturer at the time of purchase: a machine functioning under the required voltage conditions will be prepared.



FIT A TYPE-APPROVED PLUG TO THE MACHINE CABLE (THE GROUND WIRE IS YELLOW/GREEN AND MUST NEVER BE CONNECTED TO ONE OF THE TWO PHASE LEADS). MAKE SURE THAT THE ELECTRICAL SYSTEM IS COMPATIBLE WITH THE RATED POWER ABSORPTION SPECIFIED IN THIS MANUAL AND APT TO ENSURE THAT VOLTAGE DROP UNDER FULL LOAD WILL NOT EXCEED 4% OF RATED VOLTAGE (10% UPON START-UP).

10.6 Direction of rotation of motor (versions with three phase motor)

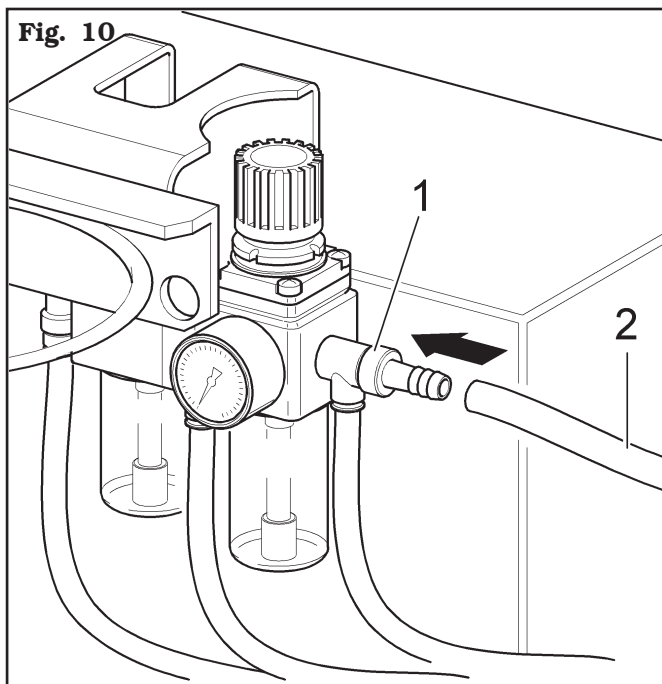
Once all power connections have been made, make sure that the mandrel is rotating in the right direction (pedal lowered, clockwise rotation). If the direction of rotation is wrong, swap two phase wires in the plug.



FAILURE TO OBSERVE THE ABOVE INSTRUCTIONS WILL IMMEDIATELY INVALIDATE THE WARRANTY.

10.7 Air connection

Connect the tyre changer to the workshop compressed air system by means of plug (**Fig. 10 ref. 1**).



The pressurized pipe coming from the mains must have a section of 1/4x10 (**Fig. 10 ref. 2**). The filter unit is already mounted on the machine.

10.8 Controls



BEFORE STARTING UP THE TYRE-CHANGER, BE SURE TO BECOME FAMILIAR WITH THE LOCATION AND OPERATION OF ALL CONTROLS AND CHECK THEIR PROPER OPERATION (SEE PAR. "CONTROLS").



CARRY OUT A DAILY CHECK OF MAINTAINED-TYPE CONTROLS CORRECT FUNCTIONING, BEFORE STARTING MACHINE OPERATION.

11.0 CONTROLS

The pedal control unit comprises 5 (five) pedals.

11.1 5 pedals control unit

“Pedal 1” on this type of pedal control unit activates the automatic post and has two fixed operative functions:

the first one (with pedal up) overturns the post from the operator's opposite side; the second one (with pedal down) brings back the post to working position.

“Pedal 2” opens and closes the locking jaws of the self-centering device. It has three stable positions: open – close – approach jaws.

“Pedal 3” controls turntable rotation and has 3 stable positions:

1. 0 position, turntable stopped;
2. Pressed down, the turntable is rotated clockwise;
3. Raised, the turntable is rotated anti-clockwise.

ONLY FOR VERSIONS WITH THREE-PHASE 230/400 V - 50 HZ 2 SPEED

“Pedal 3” controls turntable rotation and has 4 stable positions:

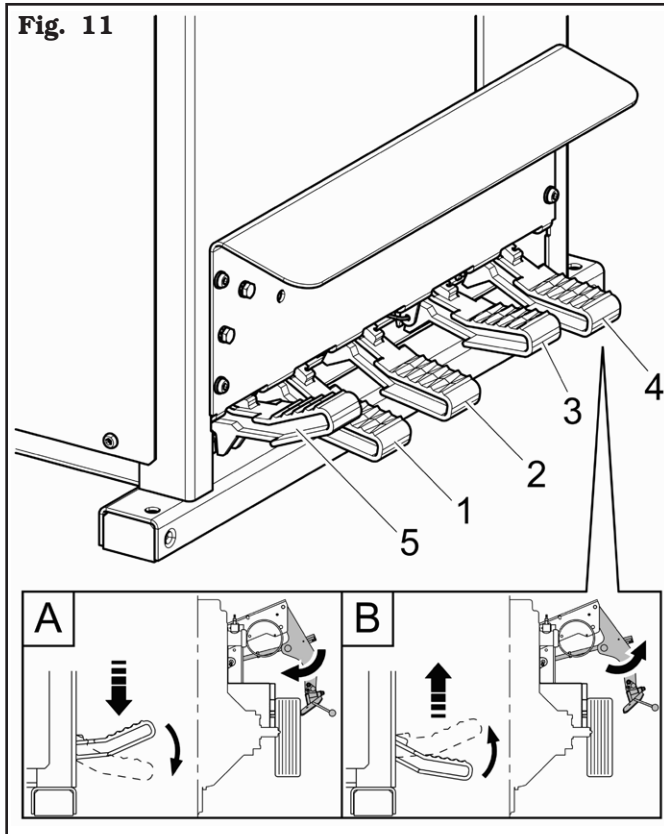
1. 0 position, turntable stopped;
2. Position 1 downwards - clockwise rotation of turntable;
3. Position 2 downwards from position 1 - clockwise rotation of turntable at double speed;
4. Position 1 upwards - counterclockwise rotation of turntable;

“Pedal 4” has 2 operative positions: when it is pressed downwards, the cylinder for bead breaking with lateral arm (A) is operated; when such pedal is released, the bead breaking arm is moved back to the initial position (open bead breaker) (B).

The inflation **“pedal 5”** (only for “I” and “IT” versions) has three positions:

1. completely lowered “unstable”: to cause air (contained in the reservoir) to be jetted out through air lances;
2. middle stroke “unstable” position: it lets air out from inflating head;
3. released “stable” position: it closes air outlets.

Fig. 11



11.2 Inflation pedal (on demand)

The pressure on the inflation pedal and the keeping it pressed, delivers air at controlled pressure (max 4,2 ± 0,2 bar).



DO NOT CHANGE THE SET OPERATING PRESSURE VALUE BY MEANS OF THE MAXIMUM PRESSURE VALVES. THE MANUFACTURER SHALL NOT BE RESPONSIBLE FOR INJURY OR DAMAGE ARISING FROM UNAUTHORISED CHANGES.



DO NOT CHANGE THE SET OPERATING PRESSURE VALUE BY MEANS OF THE MAXIMUM PRESSURE VALVES. THE MANUFACTURER SHALL NOT BE RESPONSIBLE FOR INJURY OR DAMAGE ARISING FROM UNAUTHORISED CHANGES.

11.3 Post handle manual adjustment

On the post is placed a pneumatically controlled handle that allows the locking and unlocking of the vertical and horizontal arm.

Pushing the push-button located on this handle (**Fig. 12**) the following operations can be carried out:

- 1st tripping:** locking of the vertical and horizontal arm in working position;
- 2nd tripping:** unlocking of vertical and horizontal arm and manual rise of vertical arm in rest position (all upward).

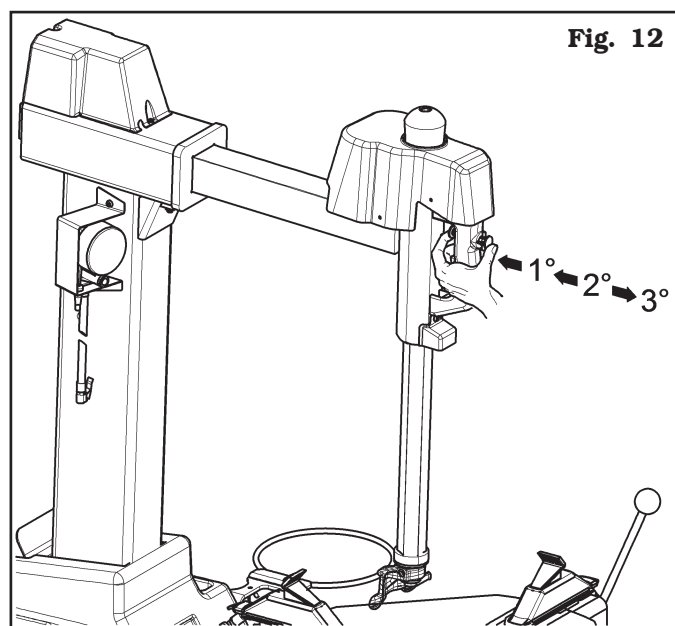


Fig. 12

12.0 USING THE MACHINE

12.1 Precaution measures during tyre removal and fitting



Before fitting a tyre, observe the following safety rules:

- rim and tyre must be clean, dry and in good condition; if necessary, remove the balancing weights and clean the rim. Check that:
 - neither the bead nor the tread of the tyre are damaged;
 - the rim does not produce dents and/or deformation (especially for alloy rims, dents can cause internal micro-fractures, that pass unobserved at visual inspection, and can compromise the solidity of the rim and constitute danger even during inflation);
- adequately lubricate the contact surface of rim and tyre bead, using specific tyre lubricants only;
- replace the inner tube valve with a new valve, if the tyre tube has a metal valve, replace the grommet;
- make sure that the tyre is the right size for the rim; on the contrary, never fit a tyre unless you are sure it is the right size (the rated size of the rim and tyre is usually printed directly on each of them);
- do not use compressed air or water jets to clean the wheels on the machine.

12.2 Preliminary operations - Preparing the wheel

- Remove the wheel balancing weights from both sides of the wheel.



**REMOVE THE VALVE STEM AND
 ALLOW THE TYRE TO COMPLETE-
 LY DEFLATE.**

- Establish from which side the tyre should be de-mounted, checking the position of the groove.
- Find the rim locking type.
- Try to establish the special types of wheels, such as "TD" and "AH", in order to improve locking, bead breaking, assembly and disassembly performances.

12.3 Bead breaking



TYRE BEADING MUST BE CARRIED OUT AFTER THE TYRE HAS BEEN COMPLETELY DEFLATED AND OBSERVING ALL SAFETY RULES: BEADING PEDAL START-UP CAUSE SUDDEN, STRONG ARM CLAMPING, THUS REPRESENTING POTENTIAL CRUSHING DANGER FOR ANYTHING WITHIN THE OPERATING AREA. DURING TYRE BEADING DO NOT LEAN HANDS ON TYRE SIDES. DURING TYRE BEADING SUDDEN NOISE LEVEL PEAKS CAN OCCUR: THEREFORE THE USE OF SAFETY EARCAPS IS RECOMMENDED.

After preparing the wheel as described in the previous point, follow the instructions given below to carry out the bead breaking procedure:

1. Position the wheel as indicated in **Fig. 13** and move the bead breaker tool toward the edge of the rim.



PLACE THE VANE SO THAT IT CAN OPERATE ON TYRE SIDE AND NOT ON THE RIM.

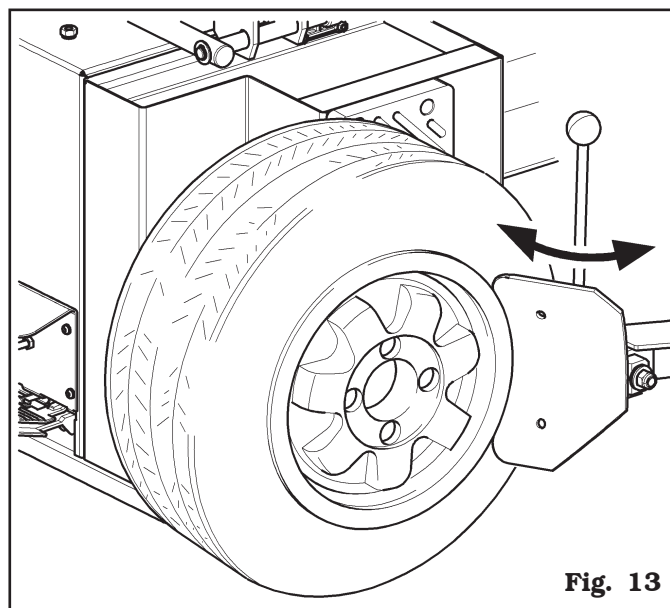


Fig. 13



NEVER INSERT ANY PART OF YOUR BODY BETWEEN THE BEAD BREAKER TOOL AND THE TYRE, OR BETWEEN THE TYRE AND THE WHEEL SUPPORT.

2. Operate the bead breaker vane by pressing the relative pedal until the bead has detached. If the bead does not detach the first time, repeat the operation, on different points of the wheel, until it has come away completely.
3. Reverse the position of the wheel and repeat the operation on the other side.
4. Lubricate the tyre carefully along the entire circumference of the bead on both sides. Failure to lubricate might cause friction between the mounting tool and the tyre, and would cause damage to the tyre and/or the bead.

12.4 Wheel clamping on the mandrel

To block the wheel from inside:

1. Grease tyre edges with the grease contained in the appropriate cup (see operating figure **Fig. 14**).
2. Release the hexagon shaft (**Fig. 14 ref. 2**) through the relevant push-button on handle (**Fig. 14 ref. 1**) and take it up, fully home. Control horizontal arm (**Fig. 14 ref. 3**) tilting through the pedal.
3. The wheel can be secured to the mandrel by placing jaws either inside or outside the rim (see Chapter 15 "Technical specifications" for required rim size).



WHEN SECURING THE WHEEL DO NOT KEEP HANDS UNDER THE TYRE.

Make sure that the wheel is placed at the centre of the self-centring table (**Fig. 14 ref. 6**). Make sure the wheel is clamped by jaws (**Fig. 14 ref. 7**) symmetrically.

A) WHEEL SECURING (OUTSIDE THE RIM) (for allowed rim size see Chapter 15. "Technical specifications")

In order to carry out the clamping of the wheel from the outside:

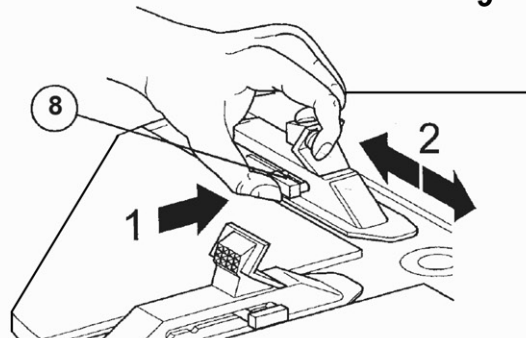
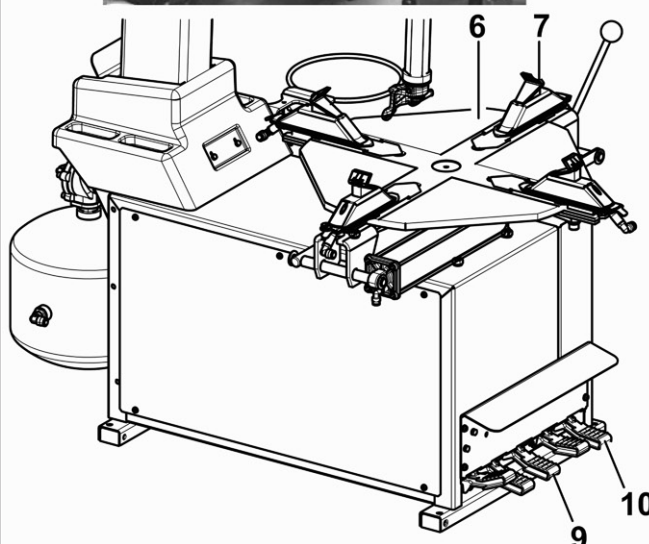
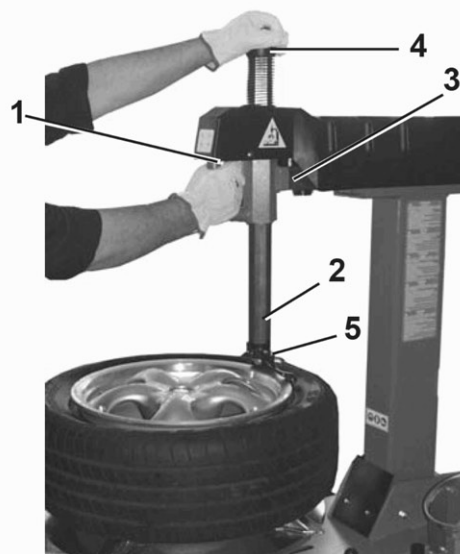
1. place the 4 self-centering jaws by using the appropriate sub base (**Fig. 14 ref. 8**) in correspondence to the required clamping range.
2. pressing pedal (**Fig. 14 ref. 9**) in intermediate position, place the 4 fixing jaws (**Fig. 14 ref. 7**), so that the reference notch on the mandrel is at about the same level of the tyre diameter notched on the sliding element.
3. Place the wheel on the mandrel, press the rim downward and completely lower pedal (**Fig. 14 ref. 9**) to secure the wheel.

B) WHEEL SECURING (INSIDE THE RIM) (for allowed rim size, see Chapter 15. "Technical specifications")

To block the wheel from inside:

1. place the 4 self-centering jaws by using the appropriate sub base (**Fig. 14 ref. 8**) in correspondence to the required clamping range.
2. close preventively fixing jaws (**Fig. 14 ref. 7**), by means of pedal (**Fig. 14 ref. 9**). Place the wheel on the mandrel. Push down the rim while completing lowering the pedal and releasing it. The jaws release, thus securing the rim.

Fig. 14



12.5 Demounting



KEEP YOUR HANDS AND BODY AWAY FROM MOUNTING TOOL DURING DISASSEMBLY/ASSEMBLY OPERATIONS TO AVOID SQUASHING DANGER.

After clamping the wheel, the tyre is demounted following the instructions given below, with reference to **Fig. 15**.

1. Press the rotation pedal to rotate the wheel clockwise until the valve stem reaches "hour 1" position.
2. Place arm (**Fig. 14 ref. 3**) in working position.



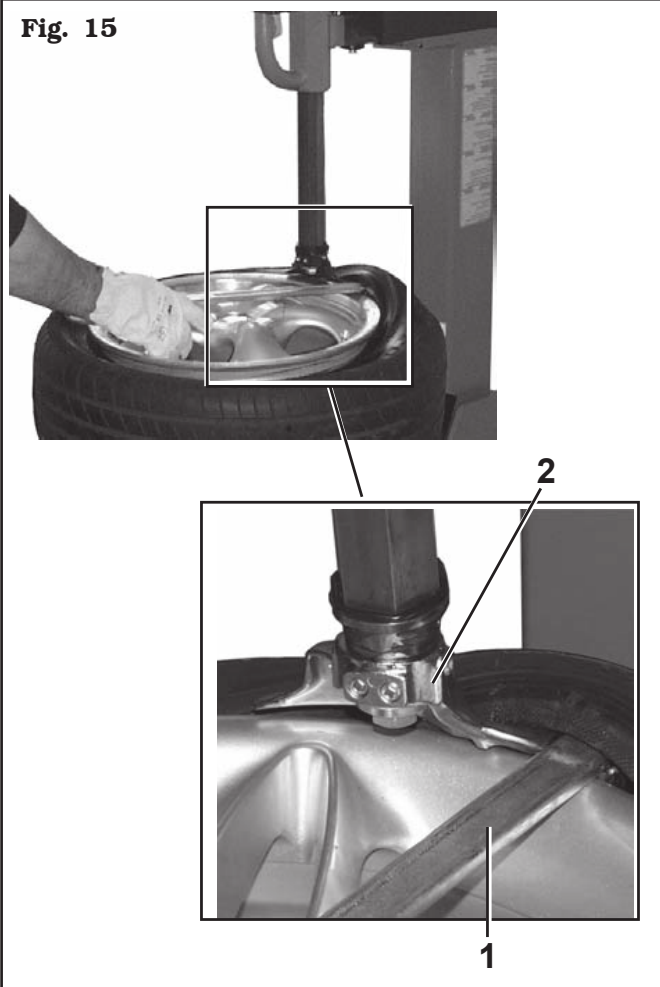
WHEN PLACING ARM IN WORKING POSITION, DO NOT LEAN HANDS ON THE RIM: DANGER OF SQUEEZING BETWEEN HEAD AND RIM.

3. Release the hexagon shaft (**Fig. 14 ref. 2**) and set tool (**Fig. 14 ref. 5**) radially and vertically on rim and lock it in place using the push-button on handle (**Fig. 14 ref. 1**);
4. operate lever (**Fig. 15 ref. 1**) to place tyre bead on the head nail (**Fig. 15 ref. 2**).
5. While keeping the lever in this position, turn the mandrel clockwise by means of pedal (**Fig. 14 ref. 10**), until the bead is out of the rim. Operate the pedal by quickly pressing and releasing it.



WHEN OPERATING ON VERY "HARD" RIMS, THE TYRE BEAD TENDS TO SLIP DOWN THE HEAD. BEFORE TURNING THE MANDREL CLOCKWISE, TURN IT ANTICLOCKWISE BY A FEW CENTIMETERS WHILE KEEPING LEVER (Fig. 15 ref. 1**) IN THE SAME POSITION.**

Fig. 15



- 6 remove the inner tube (if fitted);
- 7 place the head as indicated at point 3; then by means of lever (**Fig. 16 ref. 1**) place the other tyre bead on the head nail (**Fig. 16 ref. 2**);
8. while keeping the lever (**Fig. 16 ref. 1**) in this position, turn the mandrel clockwise until the bead is out of the rim.
9. place the arm in idle position and remove the tyre from the rim.

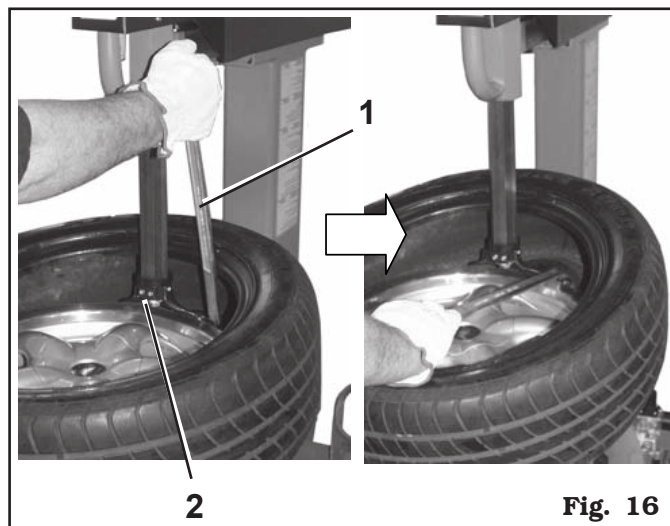
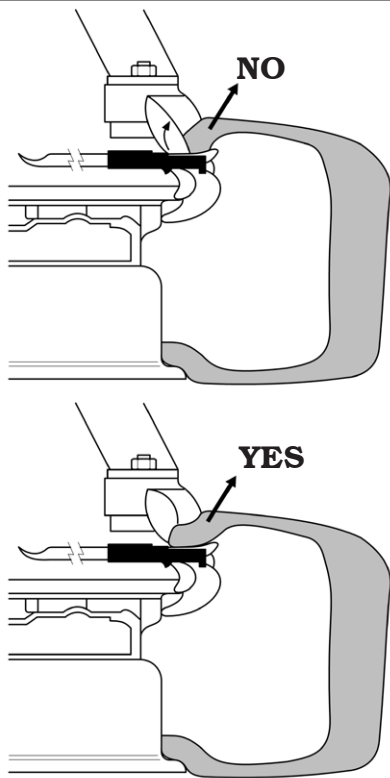


Fig. 16

10. When demounting hard tyres, it may happen that the bead comes onto the mounting tool with the lip turned. This causes the bead to slide from the lever when clockwise rotation begins. To avoid this problem rotate the wheel slightly anti-clockwise until the bead flattens. Now the clockwise demounting cycle can begin (See **Fig. 17**).

Fig. 17



If the motor slows down or stops during tyre demounting and mounting, make the following checks:

- check that the bead has been lubricated;
- check that the bead has been pushed into the groove;
- check that the right side of the rim has been chosen for demounting or mounting the tyre;
- check that the rim groove is not off-centre.

12.6 Setting the tool for tyre fitting and removal

The tool is locked in position to an hexagon stand through 4 upper horizontal-axis dowels and a lower vertical-axis screw. The adjusting clamps lock the tool in its working position. Adjusting clamps also set head distance from the wheel rim. Head top is concave for smoother positioning. For tool setting a **14" rim with good concentricity degree and standard profile, better if with flat upper edge and proper right angle to its spin axis, is required.**

12.6.1 Setting the clamps travel



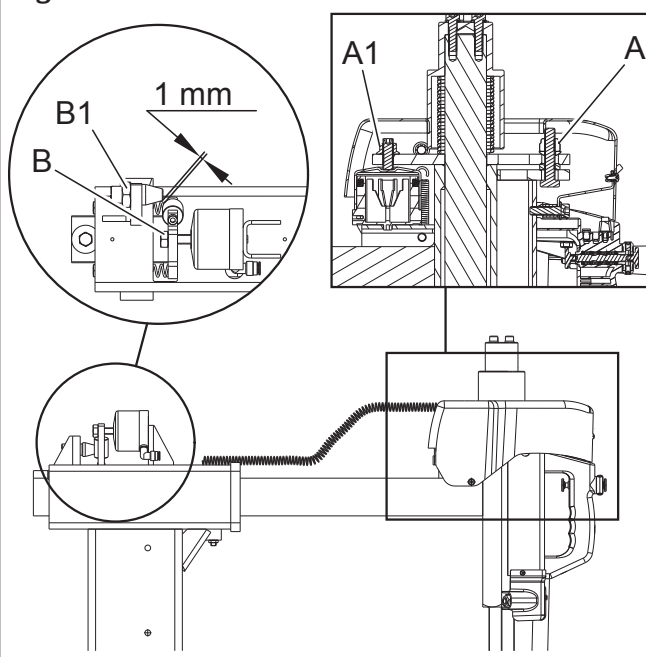
SET THE CLAMPS BEFORE POSITIONING THE HEAD. AT THIS STAGE THE HEAD HAS NOT BEEN SET TO ITS FINAL POSITION YET BUT IT IS CLOSE TO ITS FINAL POSITION BEING LOCKED THROUGH THE UPPER DOWELS.

• **Setting the travel (Fig. 18)**

Tyre changers equipped with collapsible stand and telescopic arm, tire changers, have both horizontal and vertical adjusting clamps for horizontal and vertical distance of the head from the rim, respectively. Depressurize the air-operated cylinder (remove upper guard and **tighten the nut A1 first so to keep the adjusting clamp horizontally, that is it should be perpendicular to the hex. shaft**) and then turn the nut **A** to adjust:

- turn the nut **A** clockwise for shorter travel of the head;
 - turn the nut **A** anti-clockwise for longer travel of the head.
- Depressurize the air-operated cylinder (remove upper guard and **tighten the nut B1 first to lock the cone with respect to the roller – see figure 18**). and then turn the nut **B** to adjust the vertical clamp.
- turn the nut **B** clockwise for shorter travel of the head;
 - turn the nut **B** anti-clockwise for longer travel of the head.

Fig. 18



12.6.2 Setting the tool for tyre fitting and removal

When finished with clamp adjustment, set head position along its three orthogonal axes using the 14" diameter sample rim. Tighten the dowels and the lower screw firmly to lock the head in position. When finished, **correct head working position** (equipped with roller or insert) **when locked** should be as shown in **Fig. 19A-19B**. Tighten bolts and nuts to the following torque values:

- lower screw: 70 Nm.
- adjusting clamp bolts: 40 Nm.

Fig. 19A

Car rim

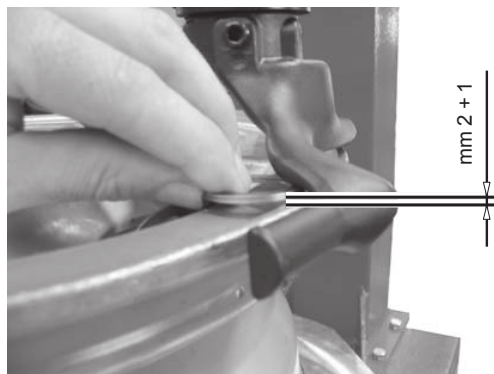
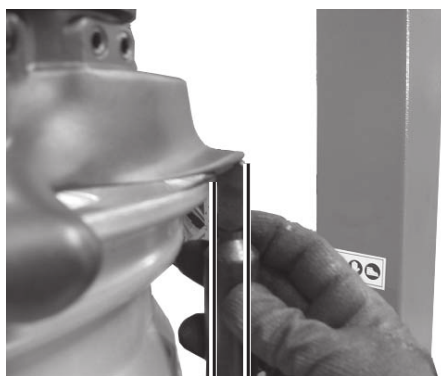
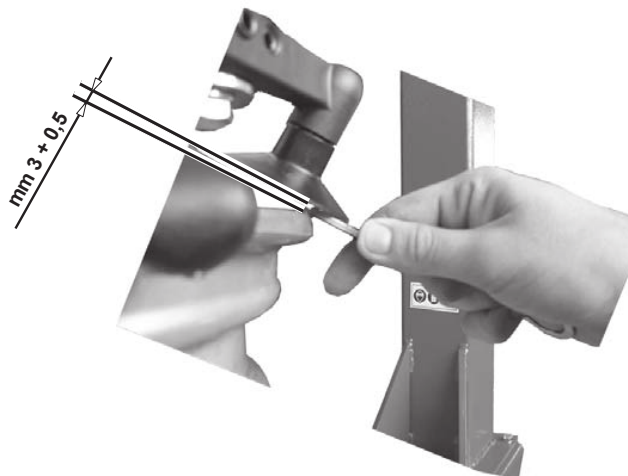


Fig. 19B

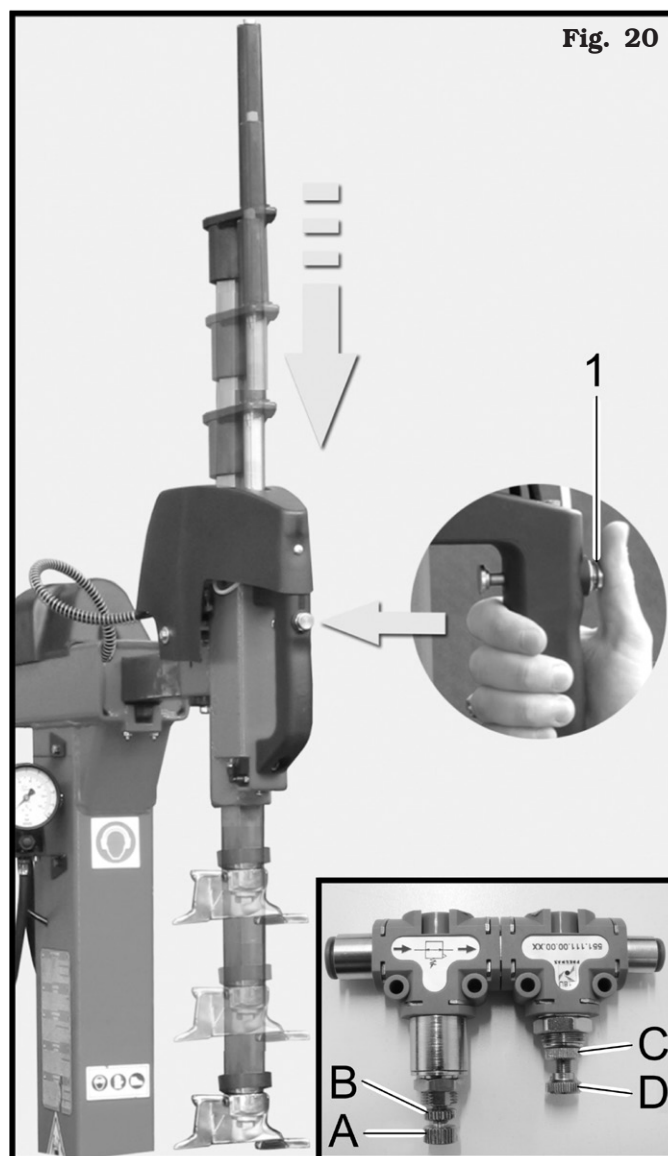
Rims with projecting spokes



12.7 Adjusting descent of the hexagonal shaft (on demand)

On models with pneumatic movement of the hexagonal arm, in order to adjust the descent speed, please follow the instructions listed below (see **Fig. 20**):

1. Regulators **A** and **D** are pre-calibrated at the warehouse.
2. To modify the descent speed of the tool shaft, please follow the instructions listed below:
 - Unscrew nut **C**
 - Press and release the push-button placed on the handle repeatedly in order to move the hexagonal shaft downward and upward and set the speed through nut **D** so that the descent of the hexagon is slower than the rising or equal. To slow the descent, rotate nut **D** counterclockwise. To speed the descent, rotate nut **D** clockwise.
3. When regulation is done, lock the arm in an intermediate position acting the button, then unlock the arm to the rest position. Start the arm descent pressing the button and check if the speed descent is the same as previously scheduled.
4. Screw nut **C**.
5. To vary the tool arm rising speed, please follow the instructions listed below:
 - Unscrew nut **B**
 - Press and release the push-button placed on the handle repeatedly in order to move the hexagonal shaft downward and upward and set the speed through nut **A**.
To slow the rising, rotate nut **A** counterclockwise.
To speed the rising, rotate nut **A** clockwise.
6. Check if the speed descent is the same as previously set. If not, please repeat operations b) c) d).
7. Screw nut **B**.



12.8 Mounting the tyre



KEEP YOUR HANDS AND BODY AWAY FROM MOUNTING TOOL DURING DISASSEMBLY/ASSEMBLY OPERATIONS TO AVOID SQUASHING DANGER.

To mount the tyre, proceed as follows:

1. Position the work arm in working position depressing pedal (Fig. 21 ref. A).

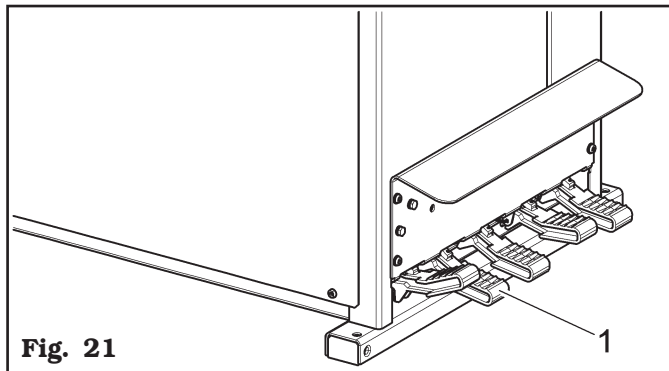


Fig. 21



WHEN PLACING ARM IN WORKING POSITION, DO NOT LEAN HANDS ON THE RIM: DANGER OF SQUEEZING BETWEEN HEAD AND RIM.

2. Place head (Fig. 22 ref. 1) against the rim edge and lock arm (Fig. 22 ref. 2).



IF TYRE IS FITTED ON THE WHEEL PREVIOUSLY REMOVED OR WHEEL SIZE CORRESPONDS TO RIM SIZE, IT IS NOT NECESSARY TO OPERATE HANDLE (Fig. 22 ref. 3) TO SECURE AND RELEASE THE HEAD, ONLY ARM (Fig. 22 ref. 2) NEEDS TO BE RE-POSITIONED.

3. Place the tyre so that the bead passes under head nail (Fig. 22 ref. 1) and outside head support (see Fig. 22 for lower bead).



WHEN TYRE IS TUBELESS TYPE, START ASSEMBLY PROCEDURES WITH VALVE SET AT 180° WITH RESPECT TO THE HEAD ("5/6 O' CLOCK").

4. Turn mandrel (Fig. 22 ref. 4) clockwise. Keep the corresponding lowered and the tyre bead pressed with one's hands in the inner rim groove.

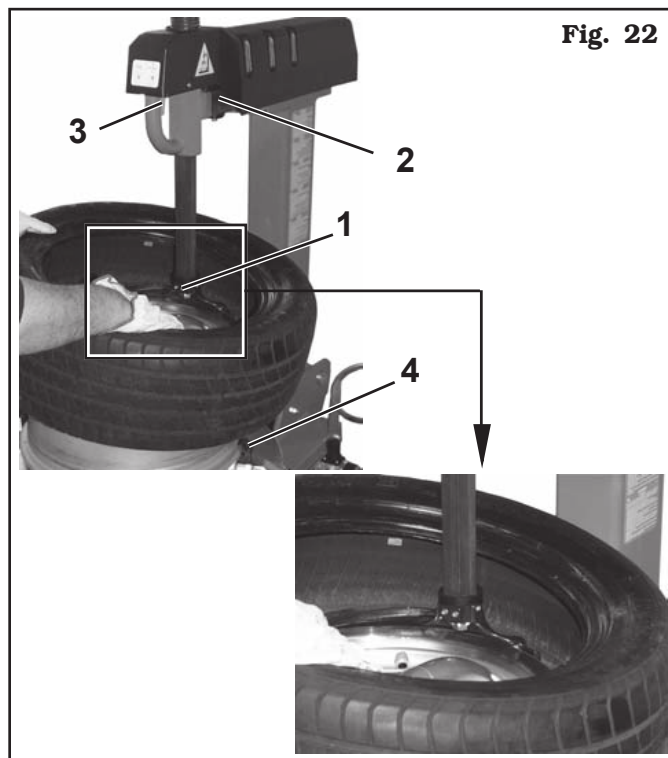


Fig. 22



BE VERY CAREFUL, KEEP HANDS AND OTHER BODY PARTS FAR OFF THE HEAD WHEN THE MANDREL IS TURNING: DANGER OF SQUEEZING.

5. If an inner tube tyre must be fitted, insert the inner tube after the first bead is completely inside the rim;
6. repeat the same operations for the upper tyre bead, as shown in Fig. 23;
7. once assembly is completed, remove arm and take it to rest position by depressing pedal (Fig. 21 ref. A);
8. push the pedal to release the wheel from the mandrel.

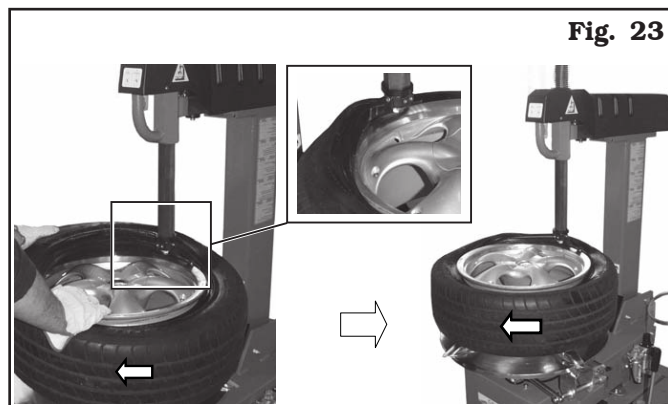


Fig. 23



BOTH TYRE FITTING AND REMOVAL MUST BE CARRIED OUT WITH THE MANDREL TURNING CLOCKWISE. TURN THE CHUCKING TABLE ANTICLOCKWISE ONLY IF ADJUSTMENTS ARE REQUIRED.

12.9 Tyre inflation



TYRE INFLATING OPERATIONS ARE HAZARDOUS FOR THE OPERATOR. IF NOT PROPERLY EXECUTED THEY CAN CAUSE DAMAGE FOR USERS OF VEHICLES WHERE TYRES ARE FITTED.



STANDARD OR OPTIONAL INFLATING UNITS FITTED ON TYRE CHANGERS ARE EQUIPPED WITH A PRESSURE LIMITING DEVICE WHICH ALMOST ELIMINATES ANY RISK OF TYRE EXPLOSION DURING TYRE INFLATING. AN OUTSTANDING RISK OF EXPLOSION STILL EXISTS. THEN THE FOLLOWING PRECAUTIONS MUST BE RESPECTED:

- **OPERATORS SHOULD WEAR SUITABLE PROTECTIVE CLOTHING LIKE: GLOVES, SAFETY EYEWEAR AND EARCAPS.**
- **BEFORE FITTING A TYRE, CHECK TYRE AND RIM CONDITIONS AS WELL AS PROPER COUPLING.**
- **MAKE SURE THAT TYRE IS PROPERLY POSITIONED ON THE MACHINE: THE WHEEL OUTER PART MUST NOT BE SECURED ON THE JAWS.**
- **CORRECT WORKING POSITION: DURING TYRE BEADING AND INFLATING THE OPERATOR MUST KEEP BODY AS FAR AS POSSIBLE FROM THE TYRE.**
- **COMPLIANCE WITH TYRE MANUFACTURER'S SPECIFICATIONS FOR TYRE INFLATION PRESSURE.**



IF MEASURED PRESSURE EXCEEDS 4,2 BAR, IT MEANS THAT THE PRESSURE LIMITING VALVE AND/OR PRESSURE GAUGE IS NOT WORKING PROPERLY. IN THIS CASE, DEFLATE THE TIRE ON THE SPOT AND CONTACT AN AUTHORIZED SERVICE CENTRE TO VERIFY EQUIPMENT OPERATION. MAKE SURE OF PROPER OPERATION BEFORE USING ANY INFLATING EQUIPMENT.

12.9.1 Tyre inflation with pressure gauge (on demand)

Connect the inflation device to the tyre valve and inflate the tyre using the left pedal.

Well lubricated beads and rims make the beading in and inflation much safer and easier.



A LIMITATION DEVICE IS PRESENT IN THE AIR SUPPLY LINE FOR THE TIRE INFLATION (4,2 ± 0,2 BAR/60 PSI).

In case the beads are not seated at 4.2 ± 0.2 bar, release all the air from the wheel, remove it from the tyre changer and put it in a safety cage to complete the inflation procedure.

12.9.2 Tubeless tyre inflation device

Some types of tyres can be difficultly inflated if the beads are not in contact with the rim.

The tubeless inflating device, assembled only on some models, supplies air at high pressure to the selfcentering chuck nozzles (**Fig. 24 Pos.1**) and therefore facilitates the positioning of the beads against the rim starting the normal inflation of the tyre.

In order to carry out the inflation of the tyre on these models follow these indications:

- Connect the inflation terminal to the valve of the tyre.
- Lift the lower bead while the pedal, placed on the left side of the machine, is pushed at its second stage, supplying that way the required air jet.
- Go on inflating the tyre until the required pressure is reached with the lateral pedal pushed on its first stage.



**IN ORDER TO ALLOW THE AIR
JET TO BREAK BOTH BEADS,
DO NOT KEEP THE BEAD LIFTED
FORCING IT.**

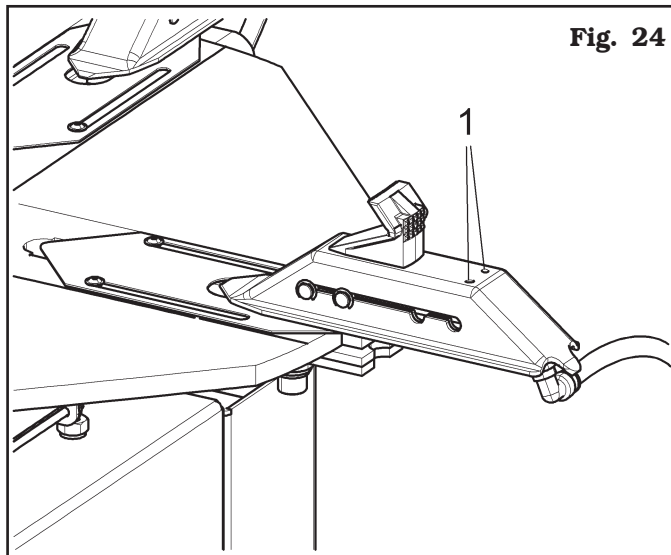


Fig. 24

12.10 Version with pneumatic balancing (on demand)

On the automatic column a handle equipped with a pneumatic control is housed to allow the locking/unlocking and the motion of the vertical arm. Pushing the push-button located on this handle (see **Fig. 25**) the following operations can be carried out:

1st tripping: vertical arm descent;

2nd tripping: locking of the vertical and horizontal arm in working position;

3rd tripping: unlocking of vertical and horizontal arm and rise of vertical arm in rest position (all upward).

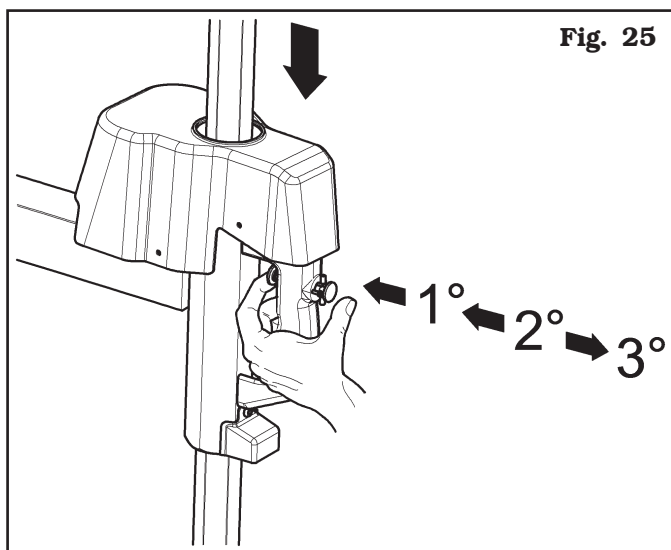


Fig. 25

12.10.1 Demounting

After clamping the wheel, the tyre is demounted following the instructions given below, with reference to **Fig. 26**.

1. Press the rotation pedal to rotate the wheel clockwise until the valve stem reaches "hour 1" position.
2. Release the arm using the push-button placed on the barrel handle until the 3rd tripping and releasing arms.
3. Position the demount/mount arm on the outer edge of the rim pushing the push-button until the 1st tripping.
4. Lock it in position acting again the push-button until the 2nd tripping.
5. Proceed with the operations, following the indications in chapter 12.6 starting from step 4.

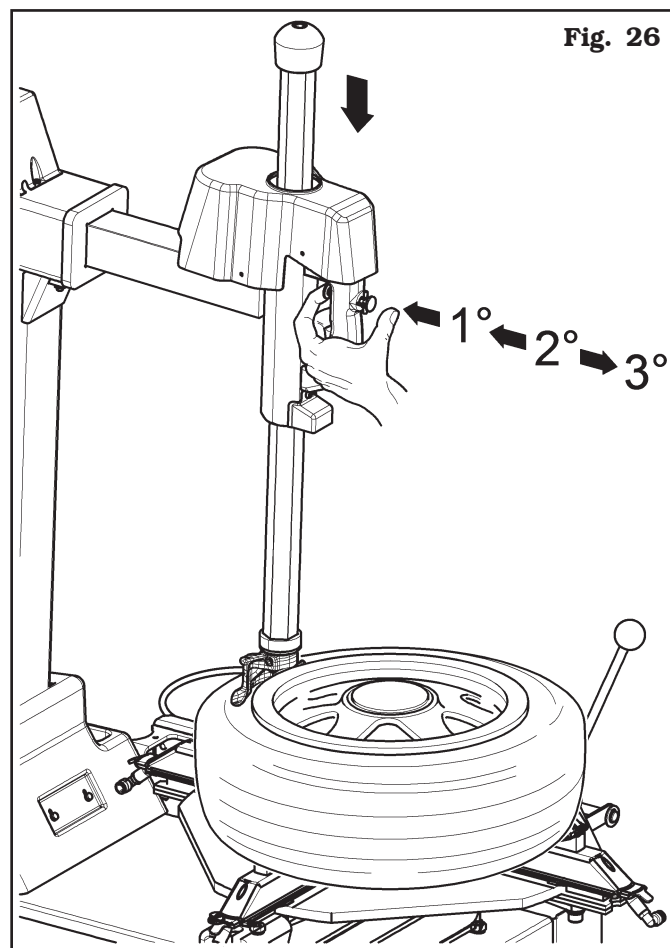


Fig. 26

13.0 ROUTINE MAINTENANCE



BEFORE CARRYING OUT ANY ROUTINE MAINTENANCE PROCEDURE, DISCONNECT THE MACHINE FROM ITS POWER SUPPLY SOURCES, TAKING SPECIAL CARE OF THE ELECTRICAL PLUG/SOCKET CONNECTION.

To guarantee the efficiency and correct functioning of the machine, it is essential to carry out daily or weekly cleaning and weekly routine maintenance, as described below.

Cleaning and routine maintenance must be conducted by authorized personnel and according to the instructions given below.

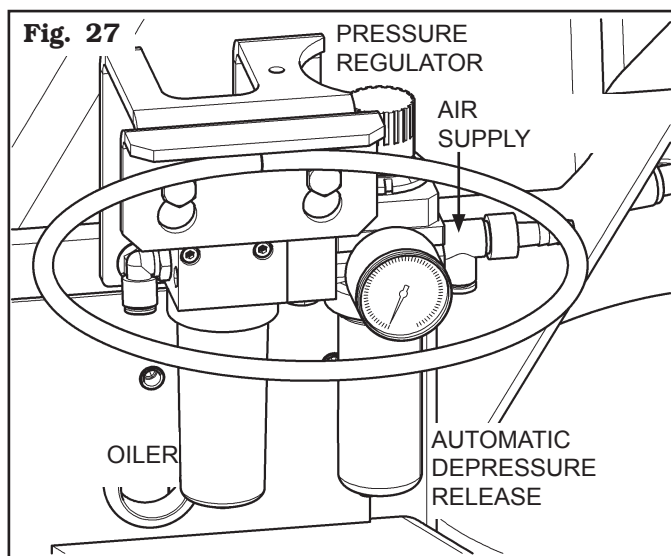
- Disconnect the mains power supply before starting any cleaning or routine maintenance operations.
- Periodically check the calibration of the lubricator of the pressure regulator/oiler unit: 1 oil drop every four complete strokes of self-centering chuck jaws.
- Remove deposits of tyre powder and other waste materials with a vacuum cleaner.



BEFORE CARRYING OUT ANY MAINTENANCE OPERATIONS, MAKE SURE THERE ARE NO WHEELS CLAMPED ON THE MANDREL AND THAT ALL SUPPLIES TO THE MACHINE HAVE BEEN DISCONNECTED.

DO NOT BLOW IT WITH COMPRESSED AIR.

- Do not use solvents to clean the pressure regulator.
- The conditioning unit is equipped with an automatic vacuum-operated drain therefore it requires no manual intervention by the operator (see **Fig. 27**).



IN ORDER TO ALLOW A LONGER LIFE OF THE FILTER AND OF ALL MOVING PNEUMATIC DEVICES, YOU HAVE TO MAKE SURE THAT THE SUPPLIED AIR IS:

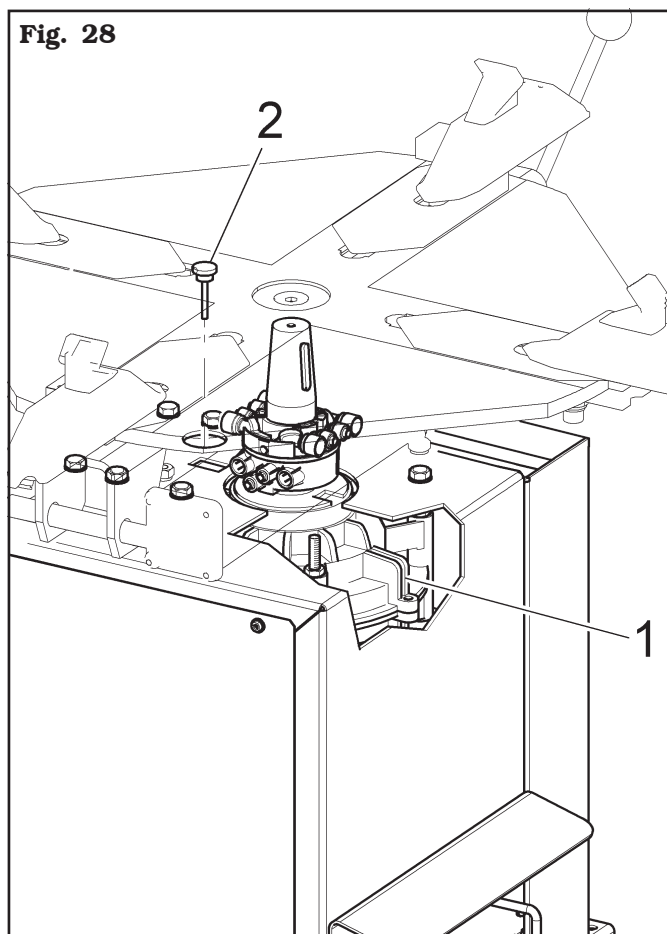
- EXEMPT FROM THE LUBRICATING OIL OF THE COMPRESSOR;
- EXEMPT FROM HUMIDITY;
- EXEMPT FROM IMPURITY.

- Every **week** and/or when necessary, top up the oil tank using the filler hole provided closed by a cap or screw on the lubricator filter.

NOTE: This operation should not be carried out by unscrewing the cup of the lubricator filter.

- The use of synthetic oil might damage the pressure regulator filter.
- Replace worn pieces (tool supports, rubber pads, lever guard, mounting tool) immediately.
- Periodically (preferably once a month) make a complete check on the controls, ensuring that they provide the specified actions.
- **Every week** check operation of the safety device.
- **Periodically** (at least each 100 working hours) check the lubricant level into the reduction unit (**Fig. 28 ref. 1**) removing the plug (**Fig. 28 ref. 2**) through the spy hole prearranged on the frame.

Fig. 28



Interventions every 1000 working hours

- Clean and/or replace silencers (**Fig. 29 ref. 1**):
 1. Undo the four retaining screws and remove the left side of the tyre changer or undo the fastening screws to remove the whole pedal support unit from machine front;
 2. Undo the silencers (**Fig. 29 ref. 1**) onto the pedal distributor controlling mandrel and bead breaker;
 3. Blow compressed air to clean or replace in case of damages referring to spare parts catalogue;
 4. Fit the filters onto their distributors;
 5. Fit the tyre changer pedal support or side and secure with the screws.
- Check the transmission belt (**Fig. 30 ref. 3**) for wear or proper tensioning:
 1. Undo the four retaining screws and remove tyre changer side panel;
 2. To tension up the belt (**Fig. 30 ref. 3**) Turn the screws (**Fig. 30 ref. 4**) motor support (**Fig. 30 ref. 5**);
 3. Replace the belt (**Fig. 30 ref. 3**) if worn out using genuine parts;
 4. Fit the tyre changer side panel before continuing with assembly and disassembly procedure;

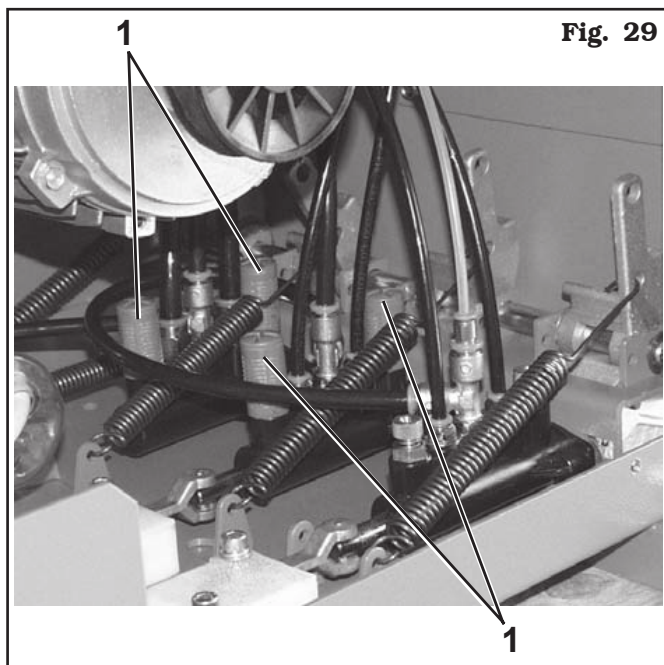
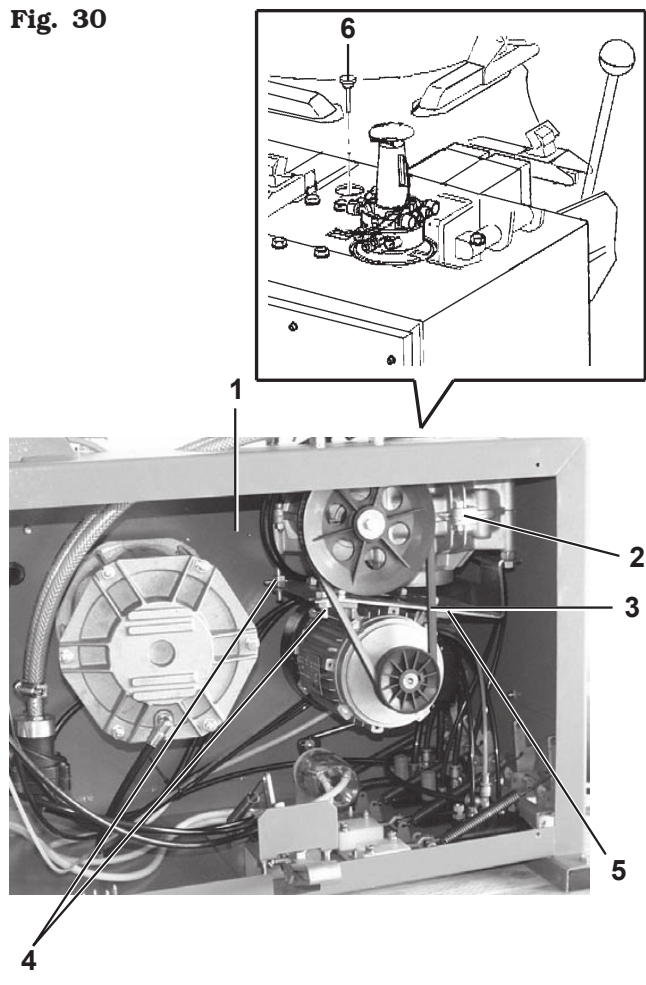


Fig. 29

Fig. 30



ANY DAMAGE TO THE MACHINE DEVICES RESULTING FROM THE USE OF LUBRICANTS OTHER THAN THOSE RECOMMENDED IN THIS MANUAL WILL RELEASE THE MANUFACTURER FROM ANY LIABILITY!!

13.1 Lubricants

Special lubricant for mandrel movement control gearbox. Use **ESSO GEAR OIL GX140** (for GA2645 and GA2645V versions) and **ESSO GEAR OIL GX90 GX90** (for GA2645D version).

Lubricate slides and screws/nut screws or racks and pinion with a soft brush using lubricant of **ESSO GP**.



ANY DAMAGE TO THE MACHINE DEVICES RESULTING FROM THE USE OF LUBRICANTS OTHER THAN THOSE RECOMMENDED IN THIS MANUAL WILL RELEASE THE MANUFACTURER FROM ANY LIABILITY.

14.0 TROUBLESHOOTING TABLE


Possible troubles which might occur to the tyre-changer are listed below. The manufacturer disclaims all responsibility for damages to people, animals or objects due to improper operation by non-unauthorised personnel. In case of trouble, call Technical Service Department for instructions on how to service and/or adjust the machine in full safety to avoid any risk of damage to people, animals or objects.

In an emergency and before maintenance on tyre-changer, set the main switch to "0" and lock it in this position.





CONTACT AUTHORIZED TECHNICAL SERVICE

do not try and service alone

Problem	Possible cause	Remedy
The mandrel does not work if pedal is pressed.	<ol style="list-style-type: none"> 1. No voltage available. 2. Motor faulty. 3. Safety fuses for machine system blown. 	<ol style="list-style-type: none"> 1. Check that the plug is properly connected and power supply is working. 2. Check for correspondence of electric data of the machine with the mains. 3. Check for proper working conditions. Check connections and parts (motors and switches).
The self-centring device stops during tire assembly/disassembly.	Transmission belt slow or worn out.	Check for proper working conditions of the transmission belt. Tension up and/or replace, if necessary.
The mandrel does not clamp the rim properly.	<ol style="list-style-type: none"> 1. Clamps worn out. 2. One or more pneumatic cylinders faulty. 	<ol style="list-style-type: none"> 1. Replace clamps. 2. Replace pneumatic cylinder gaskets.
The head gets in contact with the rim during assembly/disassembly.	<ol style="list-style-type: none"> 1. Clamping plate not adjusted or faulty. 2. Mandrel retaining screw loose. 	<ol style="list-style-type: none"> 1. Adjust or replace the clamping plate. 2. Tighten the screw.
One or more pedals do not return to their original position.	<ol style="list-style-type: none"> 1. Return spring released. 2. Return spring broken. 	<ol style="list-style-type: none"> 1. Fasten the spring. 2. Replace the spring.
Pneumatic controls do not work (mandrel, bead breaker, post tilting and tool clamping).	<ol style="list-style-type: none"> 1. Machine pneumatic system not connected. 2. Air lines clogged. 	<ol style="list-style-type: none"> 1. Check pneumatic connections and supply. 2. Ensure that the air filter is clean and undamaged, if fitted. If no air filter is fitted, remove all dirt into the pneumatic system and then fit a suitable filter. Clean and/or replace the silencers.
Some single pneumatic devices do not work (bead-breaker, clamps or post tilting device).	Ensure that device and/or distributor seals are not damaged.	Call for technical assistance. 

ONLY FOR GA2645D.XX - GA2645D.XXFI - GA2645D.30FIT MODELS

Problem	Possible cause	Remedy
The mandrel doesn't rotate.	Inverter overload alarm Or Inverter undervoltage alarm Or Inverter overvoltage alarm Overtemperature alarm	Shorten the length of a possible machine extension cable or increase the conductors section (disconnect and connect again). Lift the motor pedal and wait for the automatic reset. Wait until the motor system cools (the machine does not restart if the temperature level does not go below the set safety threshold).
The mandrel does not rotate in counter-clockwise direction.	Pedalboard microswitch breakage.	Replace microswitch.
The mandrel rotates slowly but it does not operate on the motor pedal.	Pedalboard reversible de-calibration.	1. Keep the pedal in rest position. 2. Keep the machine connected to the net. 3. Wait for 30 seconds that the pedalboard recalibration automatic attempt ends.
The mandrel doesn't rotate, but it attempts rotation when the machine is switched on again.	Pedalboard irreversible de-calibration.	Call for technical assistance. 
The mandrel does not reach the maximum rotation speed.	The mechanical resistance of the gearmotor system has increased.	Turn the mandrel without wheel for a few minutes so that the system heats, thus reducing frictions. If in the end the mandrel does not accelerate again, call for technical assistance. 

15.0 TECHNICAL DATA

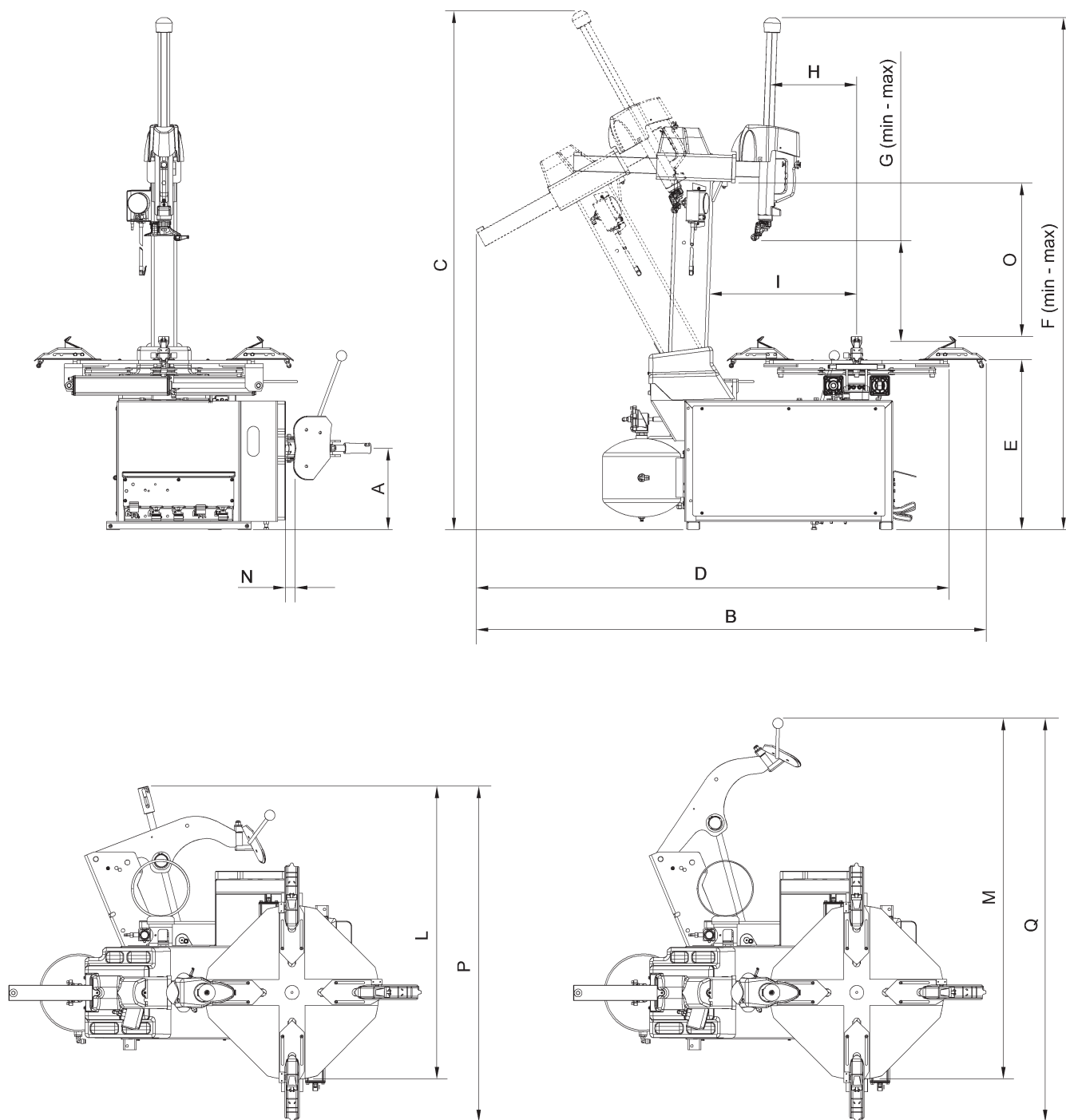
	GA2645.XX GA2645I.XX GA2645IT.30	GA2645D.XX GA2645ID.XX GA2645ITD.30	GA2645V.XX GA2645IV.XX GA2645ITV.30
Motor power	0.75 kW	/	0.8-1.1kW
Invenmotor power	/	0.75 kW	/
Power supply	230/400V 3ph (50-60Hz)	180/260V 1ph (50-60Hz)	230/400V 3ph (50Hz)
Mandrel rotating speed	7.3 rpm	From 0-16 rpm	6.5-13 rpm
Rotation max. torque	1200 Nm (885 Ft/L bs)		
Max. tyre diameter	1143 mm / 45"		
Tool working area	8" - 32"		
Wheel max. width	431 mm (17")		
Bead breaking cylinder force	3600 Kg (8000 lbs)		
Self-centering table locking	18" from outside (10" - 18") / from inside (12" - 20,5")		
	20" from outside (10" - 20") / from inside (12" - 22,5")		
	22" from outside (11" - 22") / from inside (13" - 24,5")		
	26" from outside (10" - 26") / from inside (12" - 28,5")		
	30" from outside (8" - 30") / from inside (10" - 33")		
Operating pressure	8-10 bar		

15.1 Weight

Machine net weight		Machine net weight Versions with tubeless inflation	
GA2645.18	250 kg	GA2645I.20	268 kg
GA2645.20	258 kg	GA2645I.22	280 kg
GA2645.22	270 kg	GA2645I.26	283 kg
GA2645.26	273 kg	GA2645I.30	290 kg
GA2645.30	280 kg	GA2645IT.30	290 kg
GA2645D.18	273 kg	GA2645ID.20	285 kg
GA2645D.20	275 kg	GA2645ID.22	283 kg
GA2645D.22	273 kg	GA2645ID.26	290 kg
GA2645D.26	280 kg	GA2645ID.30	290 kg
GA2645D.30	280 kg	GA2645ITD.30	290 kg
GA2645V.18	260 kg	GA2645IV.20	270 kg
GA2645V.20	260 kg	GA2645IV.22	285 kg
GA2645V.22	275 kg	GA2645IV.26	285 kg
GA2645V.26	275 kg	GA2645IV.30	290 kg
GA2645V.30	280 kg	GA2645ITV.30	290 kg

15.2 Dimensions

Fig. 31



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)		G (mm)		H (mm)	GB (mm)	L (mm)	M (mm)	N (mm)		O (mm)	P (mm)	g (mm)
						Min.	Max.	Min.	Max.					Min.	Max.			
GA2645.18	312	1877	1973	1775	670	1614	1981	49	416	367	575	1076	1380	46		580	1192	1496
GA2645.20	312	1905	1973	1795	670	1614	1981	29	396	367	575	1096	1400	46		580	1220	1524
GA2645.22	312	1929	1973	1815	670	1614	1981	29	396	367	575	1115	1441	46		580	1242	1569
GA2645.26	312	1990	1973	1840	670	1614	1981	32	399	367	575	1140	1466	46		580	1303	1630
GA2645.30	312	1989	1973	1855	670	1614	1981	32	399	367	575	1155	1481	46		580	1303	1630
GA2645I.20	312	1905	1973	1795	670	1614	1981	29	396	367	575	1096	1400	46		580	1220	1524
GA2645I.22	312	1929	1973	1815	670	1614	1981	29	396	367	575	1115	1441	46		580	1242	1569
GA2645I.26	312	1990	1973	1840	670	1614	1981	32	399	367	575	1140	1466	46		580	1303	1630
GA2645I.30	312	1990	1973	1855	670	1614	1981	32	399	367	575	1155	1481	46		580	1303	1630
GA2645IT.30	312	1990	1973	1855	670	1614	1981	32	399	367	575	1155	1481	46		580	1303	1630
GA2645D.18	312	1877	1973	1775	670	1614	1981	49	416	367	575	1076	1380	*PA 65 *PC 19		580	1192	1496
GA2645D.20	312	1905	1973	1795	670	1614	1981	29	396	367	575	1096	1400	*PA 65 *PC 19		580	1220	1523
GA2645D.22	312	1929	1973	1815	670	1614	1981	29	396	367	575	1115	1441	*PA 38 *PC -1		580	1242	1569
GA2645D.26	312	1990	1973	1840	670	1614	1981	32	399	367	575	1140	1466	*PA 38 *PC -1		580	1303	1630
GA2645D.30	312	1990	1973	1855	670	1614	1981	32	399	367	575	1155	1481	*PA 65 *PC 19		580	1303	1630
GA2645ID.20	312	1905	1973	1795	670	1614	1981	29	396	367	575	1096	1400	*PA 65 *PC 19		580	1220	1523
GA2645ID.22	312	1929	1973	1815	670	1614	1981	29	396	367	575	1115	1441	*PA 38 *PC -1		580	1242	1569
GA2645ID.26	312	1990	1973	1840	670	1614	1981	32	399	367	575	1140	1466	*PA 38 *PC -1		580	1303	1630
GA2645ID.30	312	1990	1973	1855	670	1614	1981	32	399	367	575	1155	1481	*PA 65 *PC 19		580	1303	1630
GA2645ITD.30	312	1990	1973	1855	670	1614	1981	32	399	367	575	1155	1481	*PA 65 *PC 19		580	1303	1630
GA2645V.18	312	1877	1973	1775	670	1614	1981	49	416	367	575	1076	1380	46		580	1192	1496
GA2645V.20	312	1905	1973	1795	670	1614	1981	29	396	367	575	1096	1400	46		580	1220	1524
GA2645V.22	312	1929	1973	1815	670	1614	1981	29	396	367	575	1115	1441	46		580	1242	1569
GA2645V.26	312	1990	1973	1840	670	1614	1981	32	399	367	575	1140	1466	46		580	1303	1630
GA2645V.30	312	1990	1973	1855	670	1614	1981	32	399	367	575	1155	1481	46		580	1303	1630
GA2645IV.20	312	1905	1973	1795	670	1614	1981	29	396	367	575	1096	1400	46		580	1220	1524
GA2645IV.22	312	1929	1973	1815	670	1614	1981	29	396	367	575	1115	1441	46		580	1242	1548
GA2645IV.26	312	1990	1973	1840	670	1614	1981	32	399	367	575	1140	1466	46		580	1303	1630
GA2645IV.30	312	1990	1973	1855	670	1614	1981	32	399	367	575	1155	1481	46		580	1303	1630
GA2645ITV.30	312	1990	1973	1855	670	1614	1981	32	399	367	575	1155	1481	46		580	1303	1630

* PA - Bead breaker open vane
 * PC - Bead breaker closed vane

16.0 STORING

If storing for long periods disconnect the main power supply and take measures to protect the machine from dust build-up. Lubricate parts that could be damaged from drying out. When putting the machine back into operation replace the rubber pads and the mounting tool.

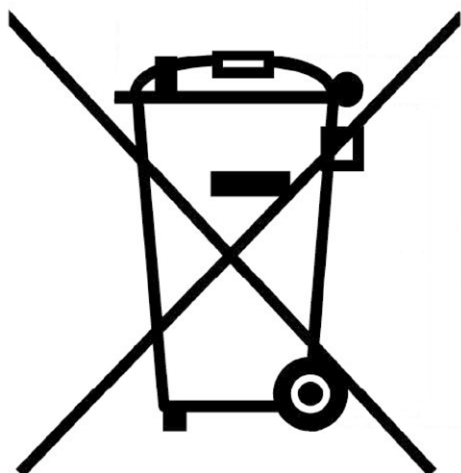
17.0 SCRAPPING

When the decision is taken not to make further use of the machine, it is advisable to make it inoperative by removing the connection pressure hoses. The machine is to be considered as special waste and should be dismantled into homogeneous parts. Dispose of it in accordance with current legislation.

Instructions for the correct management of waste from electric and electronic equipment (WEEE) according to the Italian legislative decree 49/14 and subsequent amendments.

In order to inform the users on the correct way to dispose the product (as required by the article 26, paragraph 1 of the Italian legislative decree 49/14 and subsequent amendments), we communicate what follows: the meaning of the crossed dustbin symbol reported on the equipment indicates that the product must not be thrown among the undifferentiated rubbish (that is to say together with the "mixed urban waste"), but it has to be managed separately, to let the WEEE go through special operations for their reuse or treatment, in order to remove and dispose safely the waste that could be dangerous for the environment and to extract and recycle the raw materials to be reused.

Fig. 32



18.0 REGISTRATION PLATE DATA

SPACE		SPACE s.r.l. 10090 TRANA (TO) Via Sangano 48 Tel 011-93440300 Fax 011-9338864
MODEL		CE
SERIAL N°	YEAR	

The validity of the Conformity Declaration enclosed to this manual is also extended to products and/or devices the machine model object of the Conformity Declaration can be equipped with.

Said plate must always be kept clean from grease residues or filth generally.



ATTENTION: TAMPERING WITH, CARVING, CHANGING ANYHOW OR EVEN REMOVING MACHINE IDENTIFICATION PLATE IS ABSOLUTELY FORBIDDEN; DO NOT COVER IT WITH TEMPORARY PANELS, ETC., SINCE IT MUST ALWAYS BE VISIBLE.

WARNING: Should the plate be accidentally damaged (removed from the machine, damaged or even partially illegible) inform immediately the manufacturer.

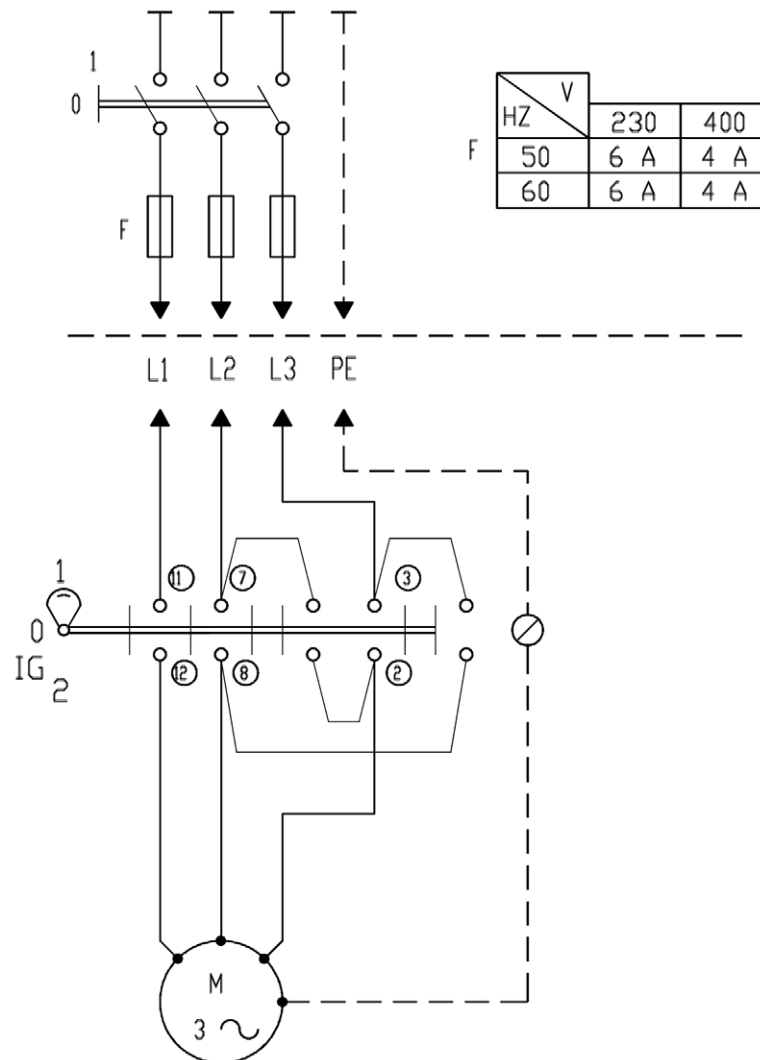
19.0 FUNCTIONAL DIAGRAMS

Here follows a list of the machine functional diagrams.

SCHEMA ELETTRICO SINGOLA VELOCITÀ 3 Ph 3 PHASE SINGLE SPEED MOTOR WIRING DIAGRAM

Installazione a carico del cliente
Installation to be made by the user
L'installation doit etre faite per le client
Die Installation geht zu Lasten des Kunden
La instalación corre a cargo del cliente

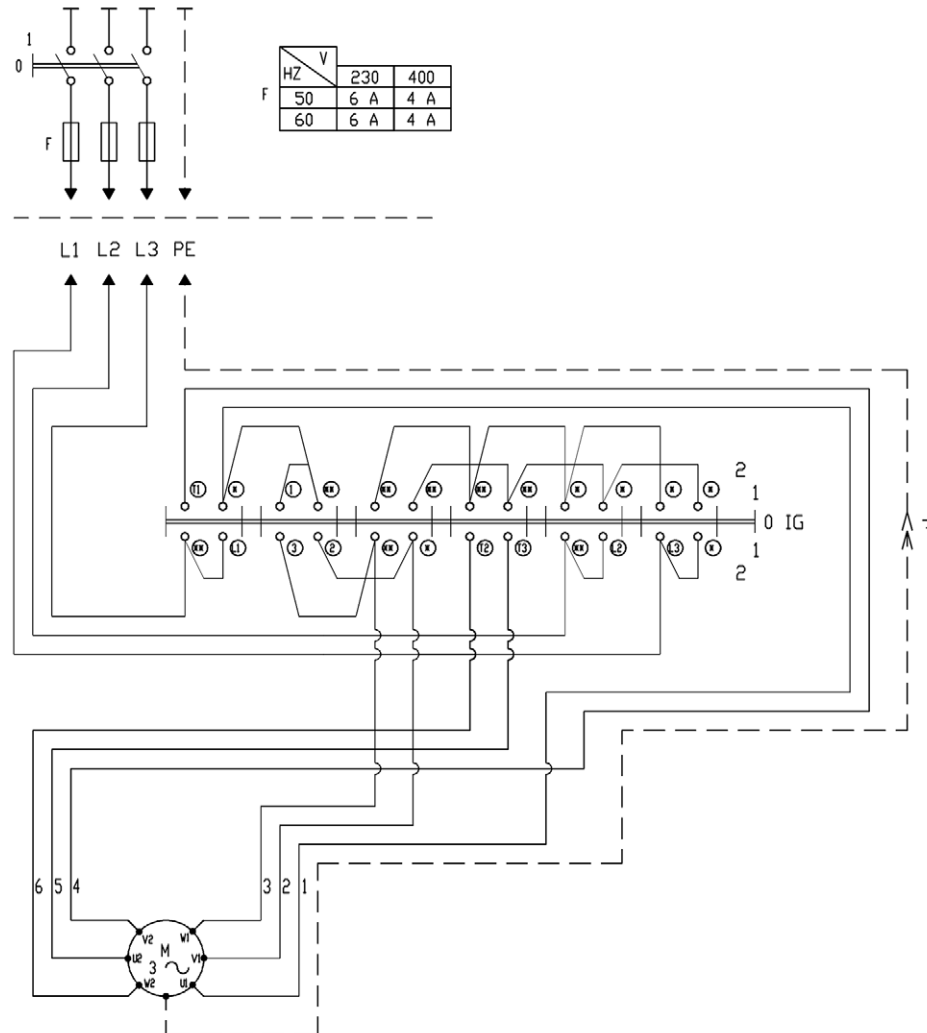
Cavo d'alimentazione 3P + GND x 1,5 mm²
Supply cable 3P + GND x 1,5 mm²
Cable d'alimentation 3P + GND x 1,5 mm²
Versorgungskabel 3P + GND x 1,5 mm²
Cable de alimentación 3P + GND x 1,5 mm²



SCHEMA ELETTRICO DOPPIA VELOCITÀ 3 Ph **3 PHASE DOUBLE SPEED MOTOR WIRING DIAGRAM**

Installazione a carico del cliente
 Installation to be made by the user
 L'installation doit etre faite per le client
 Die Installation geht zu Lasten des Kunden
 La instalación corre a cargo del cliente

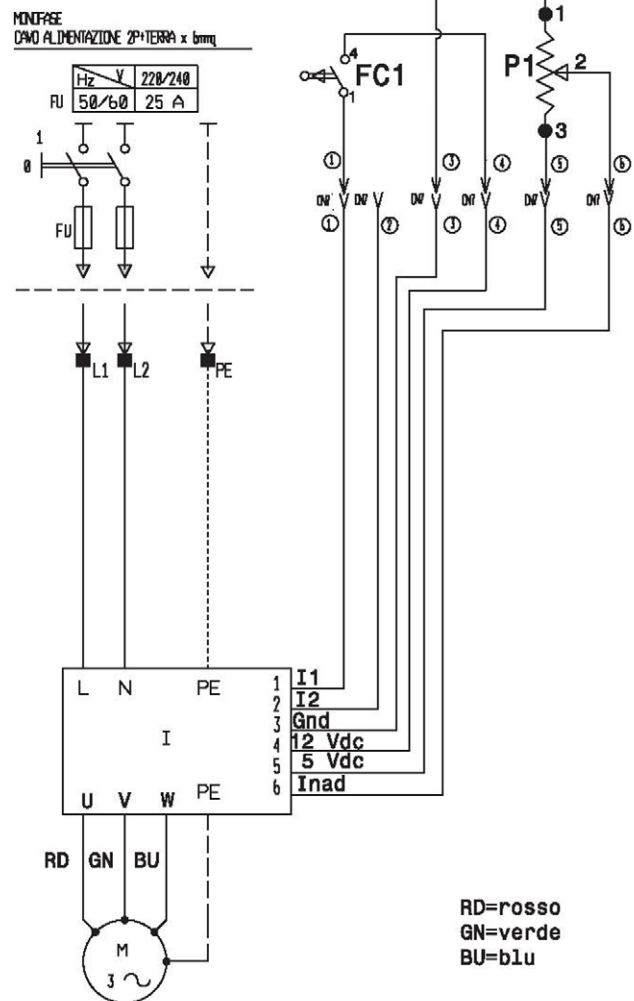
Cavo d'alimentazione 3P + GND x 1,5 mm²
 Supply cable 3P + GND x 1,5 mm²
 Cable d'alimentation 3P + GND x 1,5 mm²
 Versorgungskabel 3P + GND x 1,5 mm²
 Cable de alimentación 3P + GND x 1,5 mm²



SCHEMA ELETTRICO SINGOLA VELOCITÀ 1 Ph (INVEMOTOR) 1 PHASE SINGLE SPEED MOTOR WIRING DIAGRAM

Installazione a carico del cliente
Installation to be made by the user
L'installation doit être faite par le client
Die Installation geht zu Lasten des Kunden
La instalación corre a cargo del cliente

Cavo d'alimentazione 2P + GND x 2,5 mm²
Supply cable 2P + GND x 2,5 mm²
Cable d'alimentation 2P + GND x 2,5 mm²
Versorgungskabel 2P + GND x 2,5 mm²
Cable de alimentación 2P + GND x 2,5 mm²



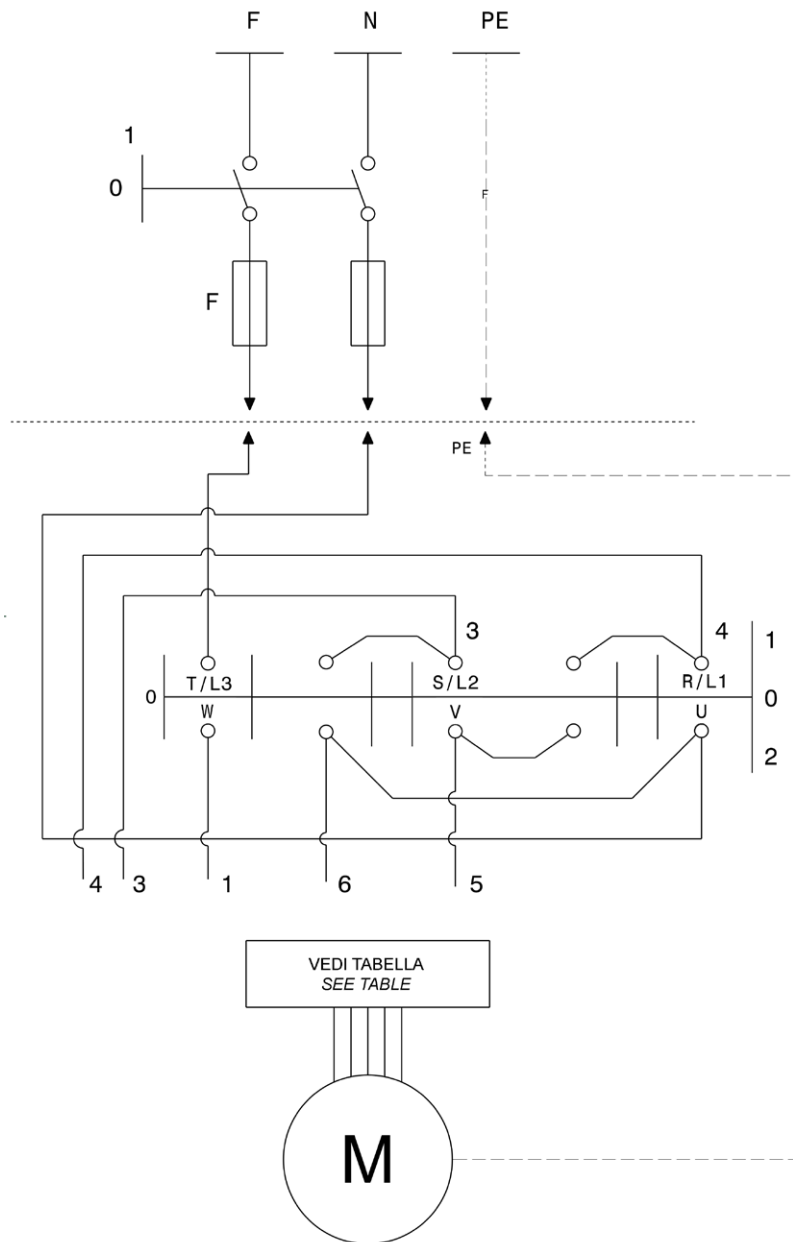
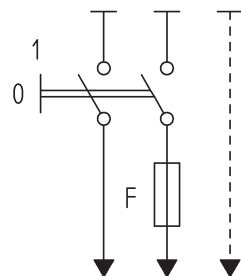


TABELLA - COLLEGAMENTI ELETTRICI MORSETTIERA
TABLE - TERMINAL BOARD ELECTRICAL CONNECTION

	CON PEDALE A DX * WITH PEDAL ON THE RIGHT *	CON PEDALE A SX * WITH PEDAL ON THE LEFT *
ME. 900003960		
ME. 900000311		
* VISTA FRONTE MACCHINA / MACHINE FRONT VIEW		

Valido per le versioni: 110V 1Ph 60Hz 1 velocità con cavo CSA
110V 1Ph 60Hz 2 velocità
110V 1Ph 60Hz 1 velocità

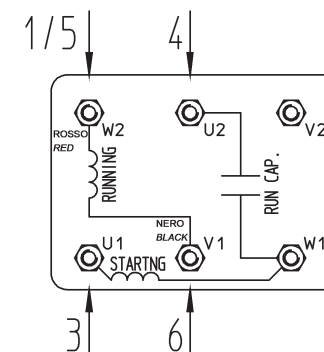
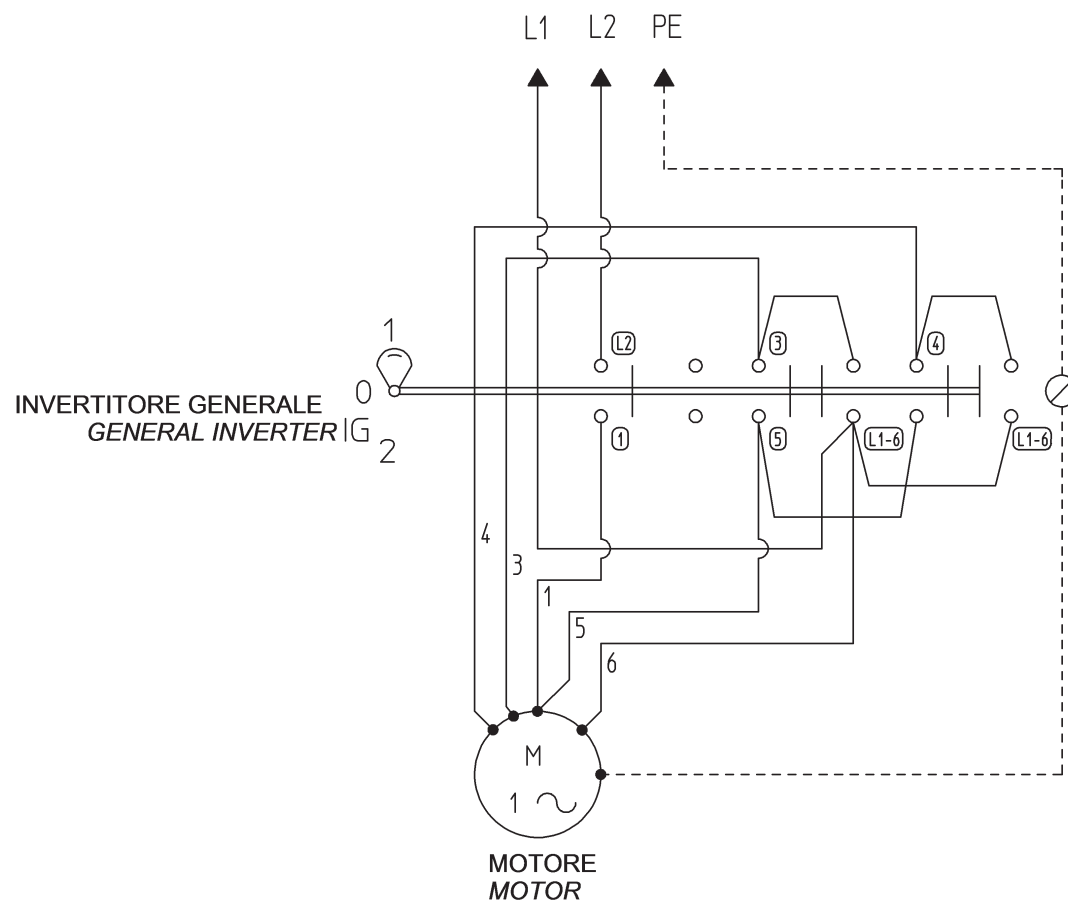
Valid for: 110V 1Ph 60Hz 1-speed with CSA cable versions
110V 1Ph 60Hz 2-speed versions
110V 1Ph 60Hz 1-speed versions



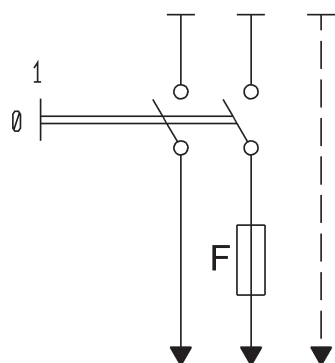
INSTALLAZIONE A CARICO DEL CLIENTE
INSTALLATION AT CUSTOMER'S EXPENSE

F	HZ	V
		110
50		20A dM
60		20A dM

CAVO ALIMENTAZIONE 2P+TERRA x 2.5mmq
SUPPLY CABLE 2P+GROUND x 2.5mmq



COLLEGAMENTO MOTORE
PER INVERTIRE LA ROTAZIONE
SCAMBIARE IL FILO n°3 CON IL n°4
NB: TOGLIERE LE LAMELLE
MOTOR CONNECTION
TO REVERSE ROTATION
EXCHANGE WIRE NR 3 WITH WIRE NR 4
NOTE: REMOVE THE REEDS



INSTALLAZIONE A CARICO DEL CLIENTE
INSTALLATION AT CUSTOMER'S EXPENSE

F \ V	V	
	110	220
50		6A aM
60	10A aM	6A aM

CAVO ALIMENTAZIONE 2P+TERRA x 2.5mm² (BLU/MARRONE/GV) (N) BLU - (T) MARRONE
SUPPLY CABLE 2P+GROUND x 2.5mm² (BLUE/BROWN/GV) (N) BLUE - (T) BROWN

MORSETTI IG
IG TERMINALS

11=T/L3

7=S/L2

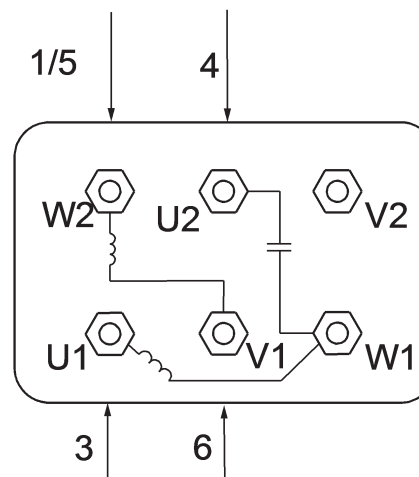
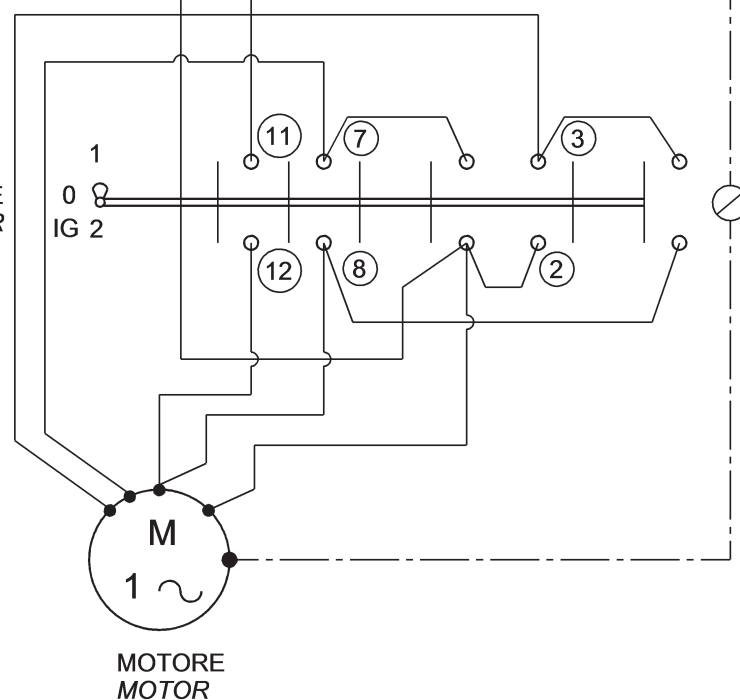
3=R/L1

12=W

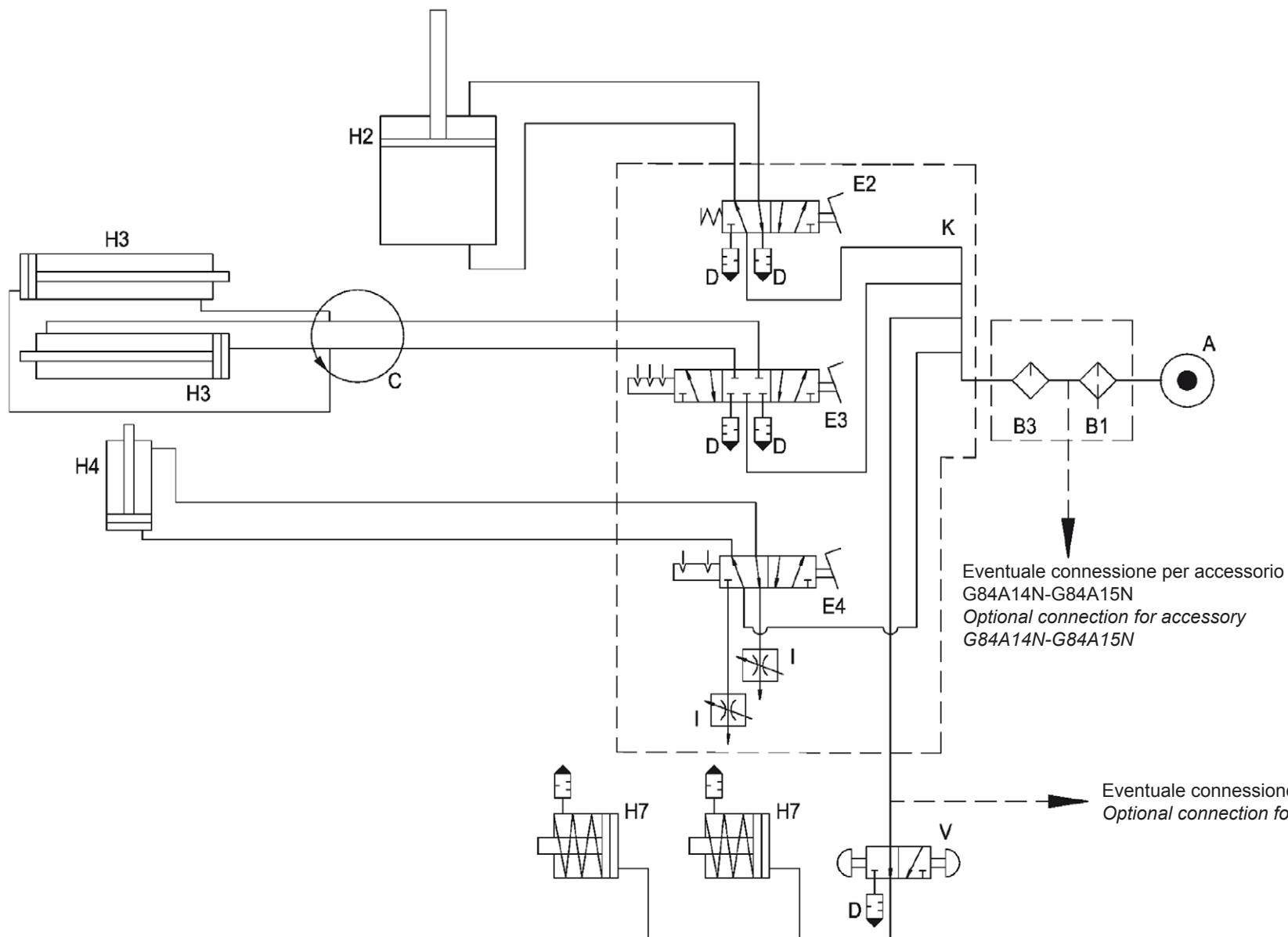
8=V

2=U

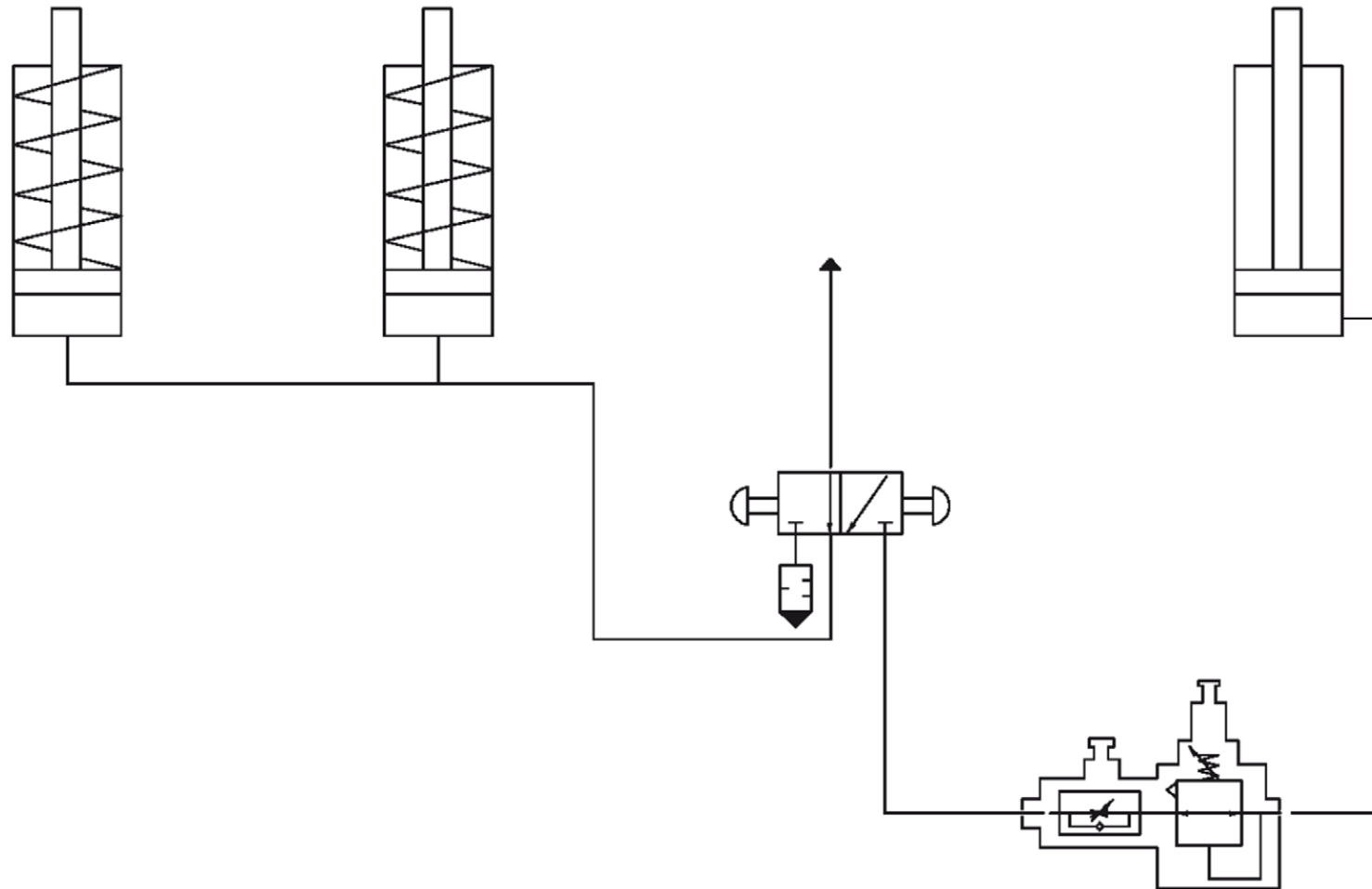
INVERTITORE GENERALE
GENERAL INVERTER

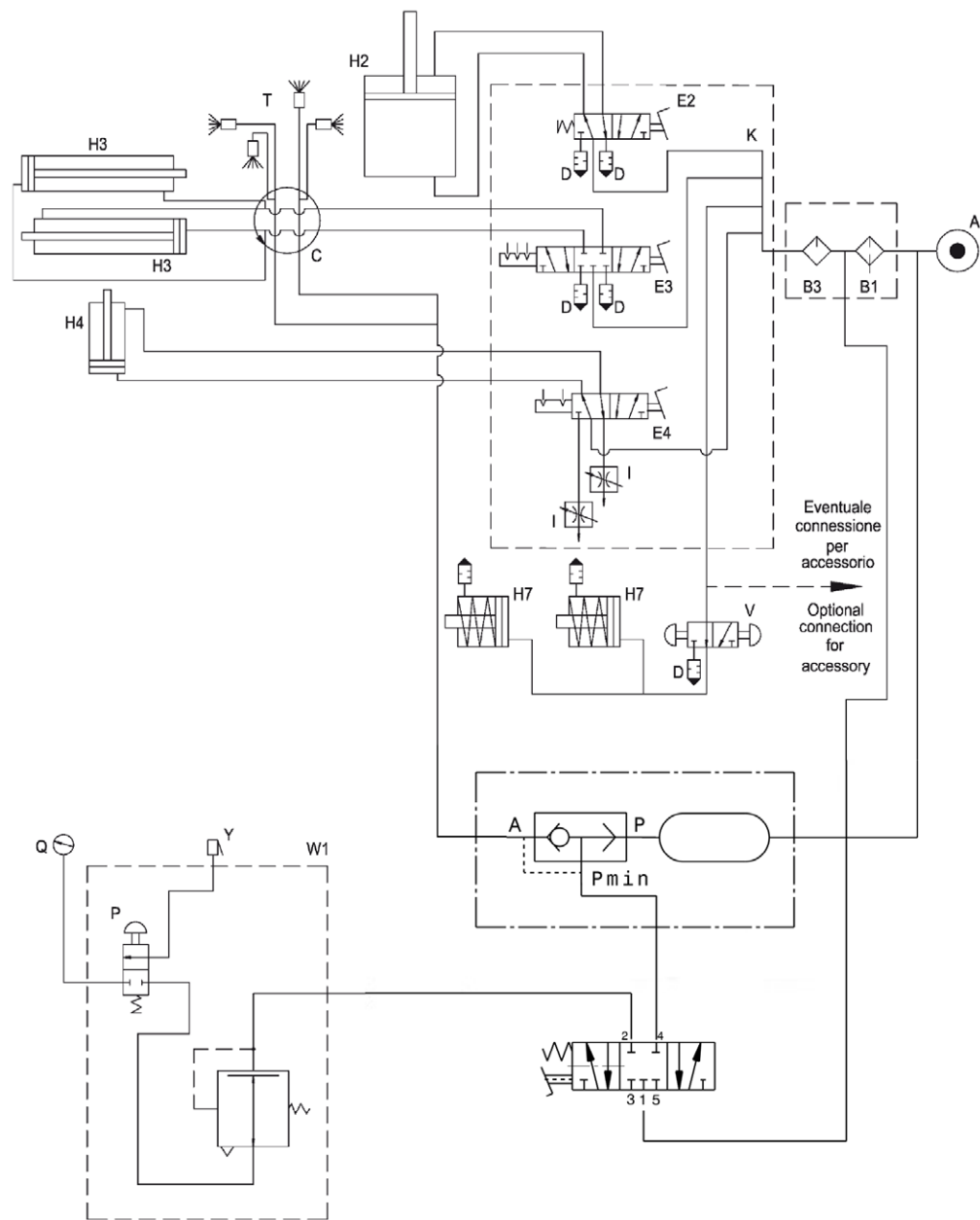


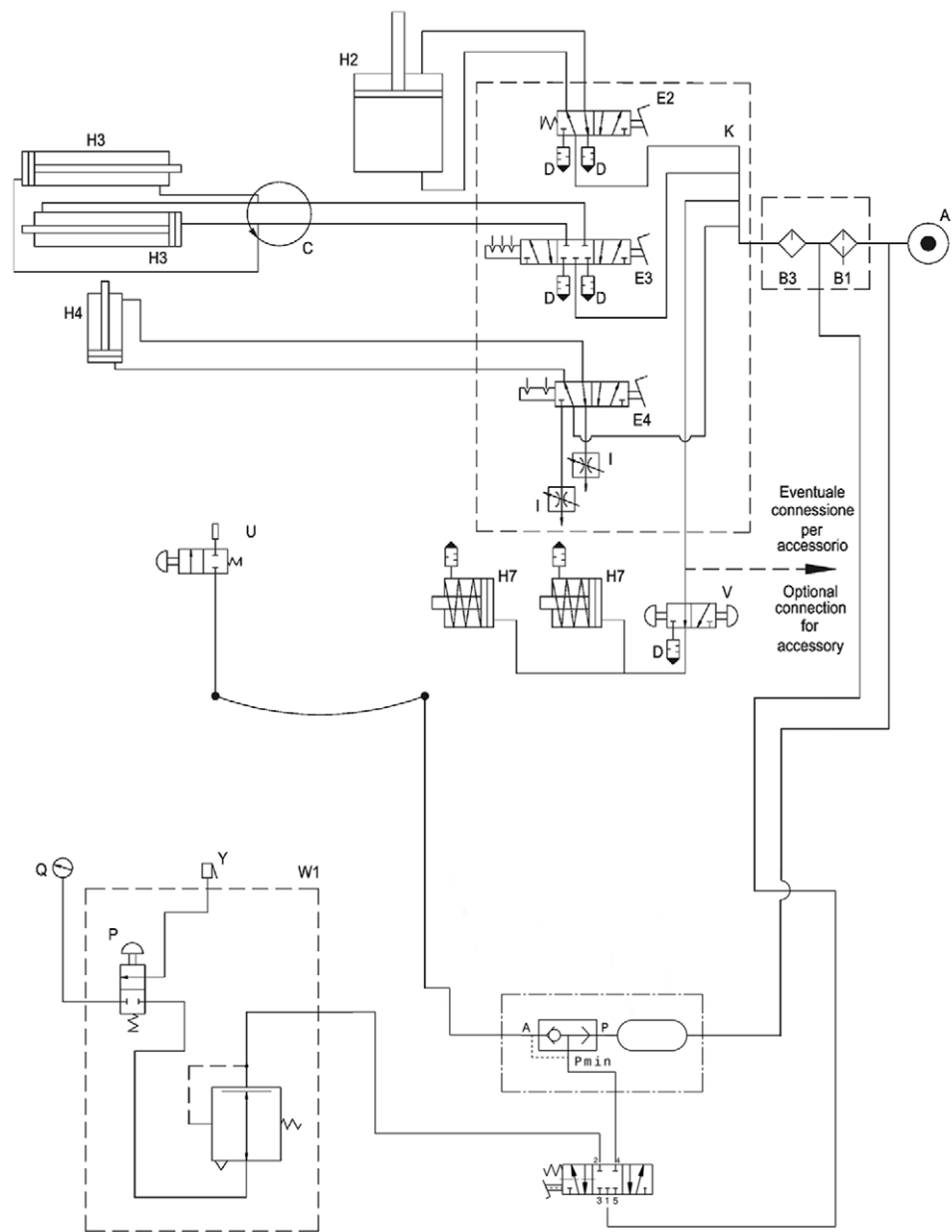
COLLEGAMENTO MOTORE
PER INVERTIRE LA ROTAZIONE
SCAMBIARE IL FILO n°3 CON IL n°4
NB: TOGLIERE LE LAMELLE
MOTOR CONNECTION
TO REVERSE ROTATION
EXCHANGE WIRE NR 3 WITH WIRE NR 4
NOTE: REMOVE THE REEDS



BRACCIO CON REGOLAZIONE PNEUMATICA ALTEZZA UTENSILE
ARM WITH PNEUMATIC ADJUSTEMENT OF TOOL HEIGHT







Válido para versión con regulador de presión (GA2645ID.26)

**Tavola N°M - Rev. 0**

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GA2645 - GA2645D - GA2645V

7300-R009-0_P

**GA2645.XX - GA2645I.XX
GA2645IT.30
GA2645D.XX - GA2645ID.XX
GA2645ITD.30
GA2645V.XX - GA2645IV.XX
GA2645ITV.30**

- | | |
|-----------|---------------------------------|
| I | 20.0 LISTA DEI COMPONENTI |
| GB | 20.0 LIST OF COMPONENTS |
| D | 20.0 TEILELISTE |
| F | 20.0 LISTE DES PIECES DETACHEES |
| E | 20.0 LISTA DE PIEZAS |



GLI ESPLOSI SERVONO SOLO PER L'IDENTIFICAZIONE DELLE PARTI DA SOSTITUIRE. LA SOSTITUZIONE DEVE ESSERE EFFETTUATA DA PERSONALE PROFESSIONALMENTE QUALIFICATO.



THE DIAGRAMS SERVE ONLY FOR THE IDENTIFICATION OF PARTS TO BE REPLACED. THE REPLACEMENT MUST BE CARRIED OUT PROFESSIONALLY QUALIFIED PERSONNEL.



DIE ZEICHNUNGEN DIENEN NUR ZUR IDENTIFIZIERUNG DER ERSATZTEILE. DIE ERSETZUNG MUSS DURCH QUALIFIZIERTES PERSONAL ERFOLGEN.




LES DESSINS NE SERVENT QU'À L'IDENTIFICATION DES PIÈCES À REMPLACER. LE REMPLACEMENT DOIT ÊTRE EFFECTUÉ PAR UN PERSONNE PROFESSIONNELLEMENT QUALIFIÉ.



LOS DIBUJOS EN DESPIECE SIRVEN ÚNICAMENTE PARA IDENTIFICAR LAS PIEZAS QUE DEBEN SUSTITUIRSE. LA SUSTITUCIÓN DE PIEZAS DEBE EFECTUARLA EXCLUSIVAMENTE PERSONAL PROFESIONALMENTE CUALIFICADO.

- Per eventuali chiarimenti interpellare il più vicino rivenditore oppure rivolgersi direttamente a:
- For any further information please contact your local dealer or call:
- Im Zweifelsfall oder bei Rückfragen wenden Sie sich bitte an den nächsten Wiederverkäufer oder direkt an:
- Pour tout renseignement complémentaire s'adresser au revendeur le Plus proche ou directement à:
- En caso de dudas, para eventuales aclaraciones, póngase en contacto con el distribuidor más próximo ó diríjase directamente a:

Technical services: **SPACE s.r.l. a s.u.** - Via Sangano, 48 - 10090 Trana - Torino Italy
Phone (+39) 011 93440300 - Fax (+39) 011 9338864 - e-mail: spacesrl@tin.it

	LISTA DEI COMPONENTI LIST OF COMPONENTS TEILELISTE LISTE DES PIÈCES DÉTACHÉES LISTA DE PIEZAS	Pag. 2 di 41
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SOMMARIO - SUMMARY - INHALT

SOMMAIRE - SUMARIO

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ASSIEME GENERALE
MAIN ASSEMBLY
GENERALSATZ
ASSEMBLAGE GENERAL
JUNTO GENERAL

Tavola N°2 - Rev. 0 ____ 730091600 7

GRUPPO PALO ASSEMBLATO
ASSEMBLED ROD GROUP
ZUSAMMENGESETZTER PFAHLSATZ
GROUPE MÂT ASSEMBLÉ
GRUPO PALO ENSAMBLADO

Tavola N°3 - Rev. 0 ____ 8

GRUPPO CARTER
GUARD UNIT
GEHÄUSESATZ
GROUPE CARTER
GRUPO CARTER

Tavola N°4 - Rev. 0 ____ 730092590 9

GRUPPO CILINDRO RIBALTAMENTO
TILTING CYLINDER UNIT
ZYLINDERSKIPPUNGSATZ
GROUPE CYLINDRE BASCULAGE
GRUPO CILINDRO VUELCO

Tavola N°5 - Rev. 0 ____ 140390530 10

GRUPPO FULCRO RIBALTAMENTO PALO
ROD TILTING FULCRUM UNIT
PFAHLKIPPUNG FULCRUMSATZ
GROUPE POINT D'APPUI BASCULAGE MÂT
GRUPO FULCRO VUELCO PALO

Tavola N°6 - Rev. 0 ____ 730091210 11

GRUPPO BRACCIO STALLONATORE
BEAD BREAKER ARM UNIT
ABDRÜCKARMSATZ
GROUPE BRAS DECOLLE TALONS
GRUPO BRAZO DESTALONADOR

Tavola N°7 - Rev. 0 ____ 730094290 12

GRUPPO TELAIO
FRAME UNIT
RAHMENSATZ
RAHMENSATZ
GRUPO ESTRUCTURA

Tavola N°8A - Rev. 0 ____ 140390221 13

INSIEME DISTRIBUTORE ROTANTE
ROTARY DISTRIBUTOR ASSEMBLY
ROTATIONSVERTEILERSATZ
ASSEMBLAGE DISTRIBUTEUR ROTATIF
CONJUNTO DISTRIBUIDOR ROTANTE

Tavola N°8B - Rev. 0 ____ 140302093 14

INSIEME DISTRIBUTORE ROTANTE
ROTARY DISTRIBUTOR ASSEMBLY
ROTATIONSVERTEILERSATZ
ASSEMBLAGE DISTRIBUTEUR ROTATIF
CONJUNTO DISTRIBUIDOR ROTANTE

Tavola N°9A - Rev. 0 ____ 140990094 15

MTG MANDRINO QUADRO 10"-18"
10"-18" MANDREL PANEL
MTG SPINNELTAFEL 10"-18"
MTG TABLEAU MANDRIN 10"-18"
MTG CUADRO MANDRIL 10"-18"

Tavola N°9B - Rev. 0 ____ 730093190 16

MTG MANDRINO QUADRO 10"-20"
10"-20" MTG SQUARE MANDREL
MTG QUADRATISCHE SPINDEL 10"-20"
MTG MANDRIN CARRÉ 10"-20"
MTG MANDRIL CUADRADO 10"-20"

Tavola N°9C - Rev. 0 ____ 730092940 17

MANDRINO QUADRO 11"-22"
11"-22" SQUARE MANDREL
QUADRATISCHE SPINDEL 11"-22"
MANDRIN CARRÉ 11"-22"
MANDRIL CUADRADO 11"-22"

Tavola N°9D - Rev. 0 ____ 730092670 18

MANDRINO 10"-26"
10"-26" MANDREL
SPINDEL 10"-26"
MANDRIN 10"-26"
MANDRIL 10"-26"

Tavola N°9E - Rev. 0 ____ 730090230 19

MANDRINO 8" -30"
8" - 30" CHUCK UNIT
SPINDELSATZ 8" - 30"
GROUPE MANDRIN 8" - 30"
GRUPO MANDRIL 8" - 30"

Tavola N°9F - Rev. 0 ____ 730093180 20

MTG MANDRINO QUADRO 10"-20" GT
10"-20" GT MTG SQUARE MANDREL
MTG QUADRATISCHE SPINDEL 10"-20" GT
MTG MANDRIN CARRÉ 10"-20" GT
MTG MANDRIL CUADRADO 10"-20" GT

Tavola N°9G - Rev. 0 ____ 730092930 21

MANDRINO QUADRO 11"-22" GT
GT 11"-22" SQUARE MANDREL
QUADRATISCHE SPINDEL 11"-22" GT
MANDRIN CARRÉ 11"-22" GT
MANDRIL CUADRADO 11"-22" GT

Tavola N°9H - Rev. 0 ____ 730092740 22

MANDRINO 10"-26" GT
10"-26" GT MANDREL
SPINDEL 10"-26" GT
MANDRIN 10"-26" GT
MANDRIL 10"-26" GT

Tavola N°10A - Rev. 0 ____ 730093980 23

GRUPPO MOTORIDUTTORE TRIFASE 1 VELOCITÀ
1-SPEED THREE-PHASE GEARMOTOR UNIT
UNTERSETZERSATZ DREIPHASEN 1 GESCHWINDIGKEIT
GROUPE MOTOREDUCTEUR TRIPHASE À 1 VITESSE
GRUPO MOTORREDUCTOR TRIFÁSICO 1 VELOCIDAD

Tavola N°10B - Rev. 0 ____ 730093872 24

GRUPPO MOTORIDUTTORE CON INVERTER
GEARMOTOR UNIT WITH INVERTER
UNTERSETZERSATZ MIT UMRICHTER
GROUPE MOTOREDUCTEUR AVEC INVERSEUR
GRUPO MOTERREDUCTOR CON INVERSOR

Tavola N°10C - Rev. 0 ____ 730093970 25


GRUPPO MOTORE 230-400-50 2 VELOCITÀ
2-SPEED 230-400-50 MOTOR UNIT
MOTORSATZ 230-400-50 2 GESCHWINDIGKEITEN
GROUPE MOTEUR 230-400-50 À 2 VITESSES
GRUPO MOTOR 230-400-50 2 VELOCIDAD

Tavola N°11A - Rev. 0 ____ 730094120 26

GRUPPO PEDALIERA MACCHINA 1 VELOCITÀ
MACHINE PEDALBOARD UNIT 1 SPEED
MASCHINE PEDALLEISTESATZ 1 GESCHWINDIGKEIT
GROUPE PÉDALES DE DIRECTION MACHINE 1 VITESSE
GRUPO PEDALERA MÁQUINA 1 VELOCIDAD

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GRUPPO PEDALIERA MACCHINA INVERTER
INVERTER MACHINE PEDALBOARD UNIT
FREQUENUMFORMER MASCHINE PEDALLEISTESATZ
GROUPE PÉDALES DE DIRECTION MACHINE VARIATEUR
GRUPO PEDALERA MÁQUINA INVERSOR

	LISTA DEI COMPONENTI LIST OF COMPONENTS TEILELISTE LISTE DES PIÈCES DÉTACHÉES LISTA DE PIEZAS	Pag. 3 di 41
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GRUPPO PEDALIERA MACCHINA 2 VELOCITÀ
MACHINE PEDALBOARD UNIT 2 SPEEDS
MASCHINE PEDALLEISTESATZ 2 GESCHWINDIGKEITEN
GROUPE PÉDALES DE DIRECTION MACHINE 2 VITESSES
GRUPO PEDALERA MÁQUINA 2 VELOCIDADES

Tavola N°12 - Rev. 0 __ 140990401.....29

INSIEME PEDALE MANDRINO
CHUCK PEDAL ASSEMBLY
SPINDELPEDALSSATZ
ASSEMBLAGE PÉDALE MANDRIN
ENSAMBLADO PEDAL MANDRIL

Tavola N°13 - Rev. 0 __ 140990391.....30

INSIEME PEDALE STALLONATORE
BEAD BREAKING PEDAL UNIT
ABDRÜCKPEDALSATZ
ASSEMBLAGE PÉDAL DÉCOLLE TALON
CONJUNTO PEDAL DESTALONADOR

Tavola N°14A - Rev. 0 _730094340.....31

MTG PEDALE ROTAZIONE MANDRINO
MTG MANDREL ROTATION PEDAL
MTG SPINDEL ROTATIONSPEDAL
MTG PÉDALE DE ROTATION MANDRIN
MTG PEDAL ROTACIÓN MANDRIL

Tavola N°14B - Rev. 0 _730094320.....32

MTG PEDALE ROTAZIONE MANDRINO
MTG MANDREL ROTATION PEDAL
MTG SPINDEL ROTATIONSPEDAL
MTG PÉDALE DE ROTATION MANDRIN
MTG PEDAL ROTACIÓN MANDRIL

Tavola N°15 - Rev. 0 __ 140990431.....33

GRUPPO PEDALE
PEDAL UNIT
PEDALSATZ
GROUPE PÉDAL
GRUPO PEDAL

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INSIEME SERBATOIO ARIA
AIR RESERVOIR ASSEMBLY
LUFTTANKSSATZ
ASSEMBLAGE RÉSERVOIR AIR
ENSAMBLADO TANQUE AIRE

Tavola N°16B - Rev. 0 _140390861.....35

GRUPPO GONFIATUBELESS
TUBELESS INFLATION UNIT
AUFPUMPEN TUBELESS SATZ
GROUPE GONFLAGE TUBELESS
GRUPO INFLADO TUBELESS

Tavola N°17 - Rev. 0 __ 730094090.....36

PEDALE DI GONFIAGGIO
INFLATION PEDAL
AUFPUMPPEDAL
PÉDALE DE GONFLAGE
PEDAL DE INFLADO

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GRUPPO GONFIAGGIO
INFLATION UNIT
AUFPUMPSATZ
GROUPE GONFLAGE
GRUPO INFLADO

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GRUPPO FILTRO + PORTAGRASSO
FILTER UNIT + GREASE HOLDER RING
FILTERSATZ + FETTRING
GROUPE FILTRE + ANNEAU PORTE-GRAISSE
GRUPO FILTRO + ANILLO PORTAGRASA

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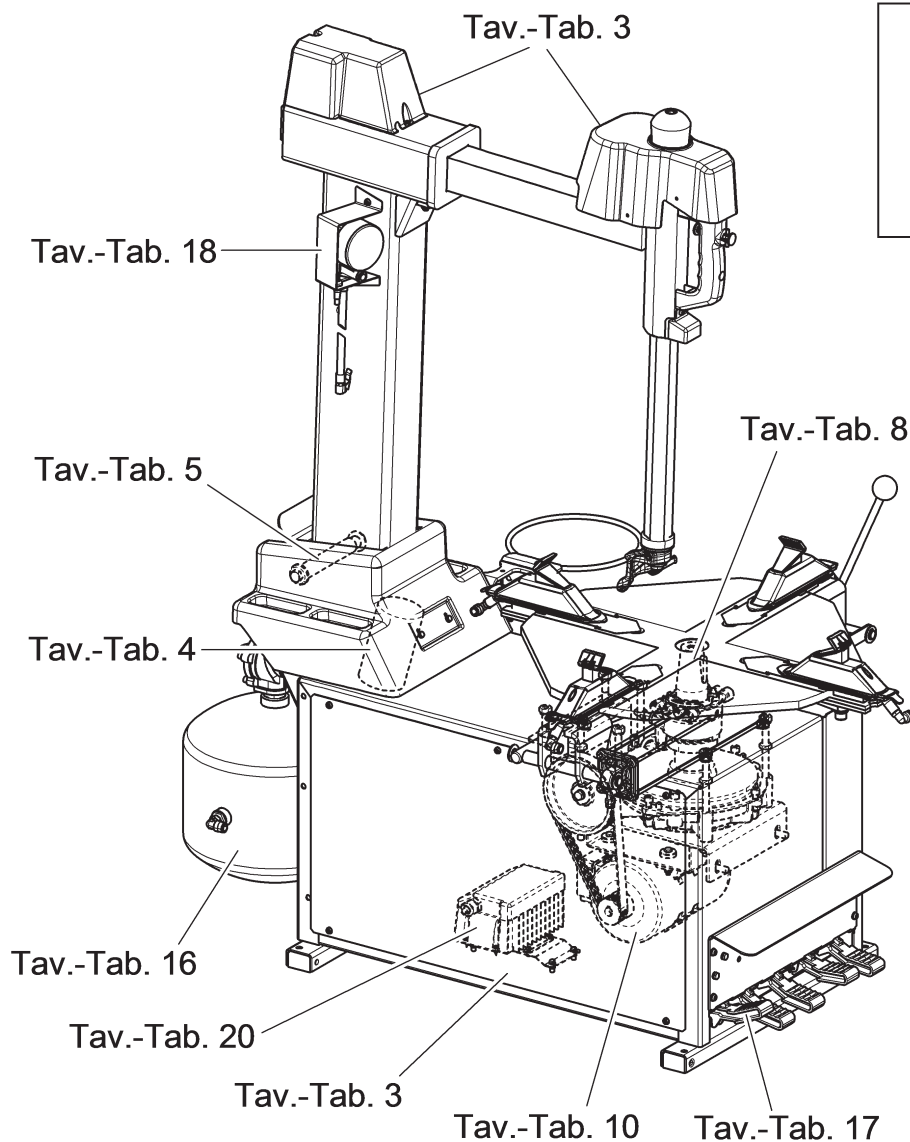
GRUPPO FILTRO RIDUTTORE DI PRESSIONE + PORTAGRASSO
REDUCTION FILTER UNIT + GREASE HOLDER RING
FILTERUNTERSETZENSATZ + FETTRING
GROUPE FILTRE RÉDUCTEUR + ANNEAU PORTE-GRAISSE
GRUPO FILTRO REDUCTOR + ANILLO PORTAGRASA

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GRUPPO PIASTRA CON INVERTER
PLATE UNIT WITH INVERTER
PLATTESATZ MIT FREQUENZUMFORMER
GROUPE PLAQUE AVEC VARIATEUR
GRUPO PLACA CON INVERSOR

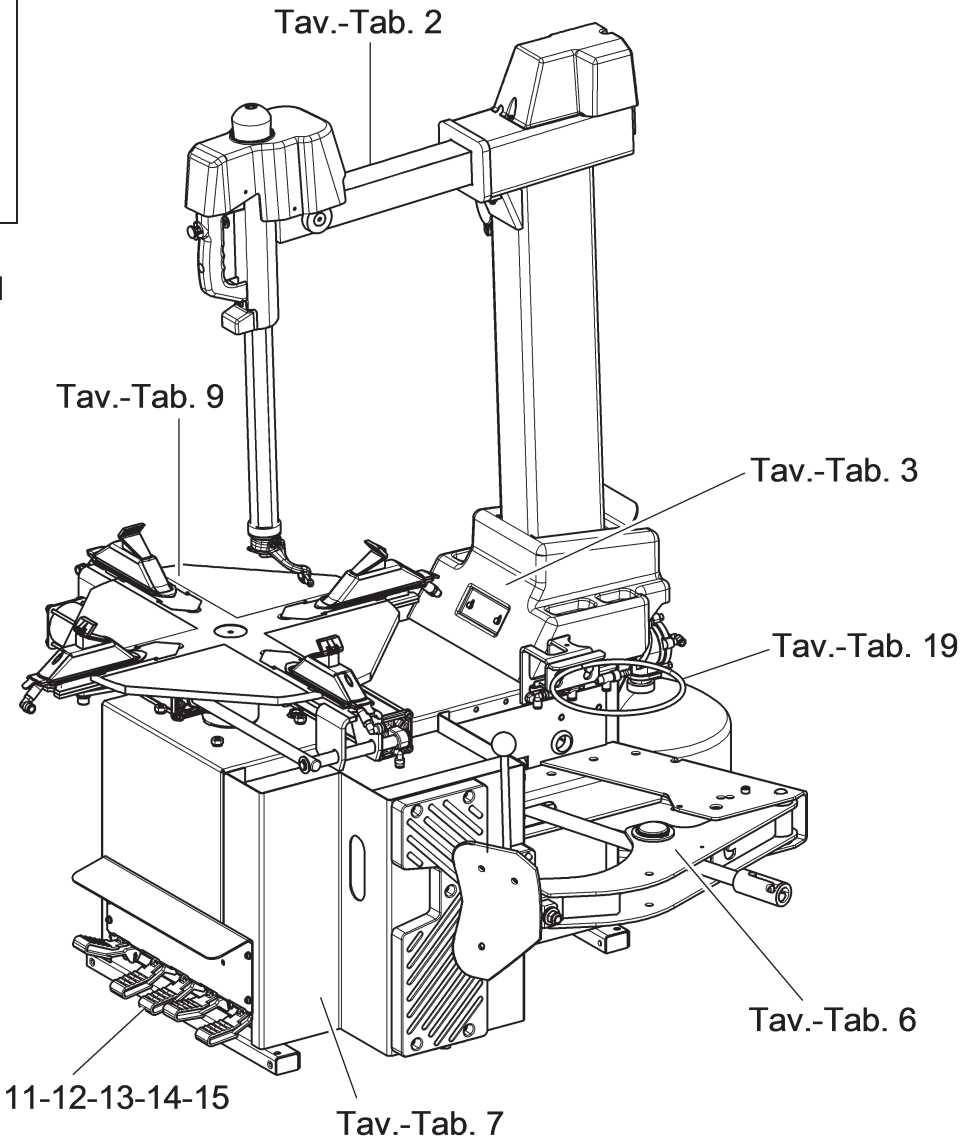
Tavola N°21 - Rev. 0 __41

DOTAZIONE
EQUIPMENT
AUSRÜSTUNG
DOTATION
DOTACIÓN

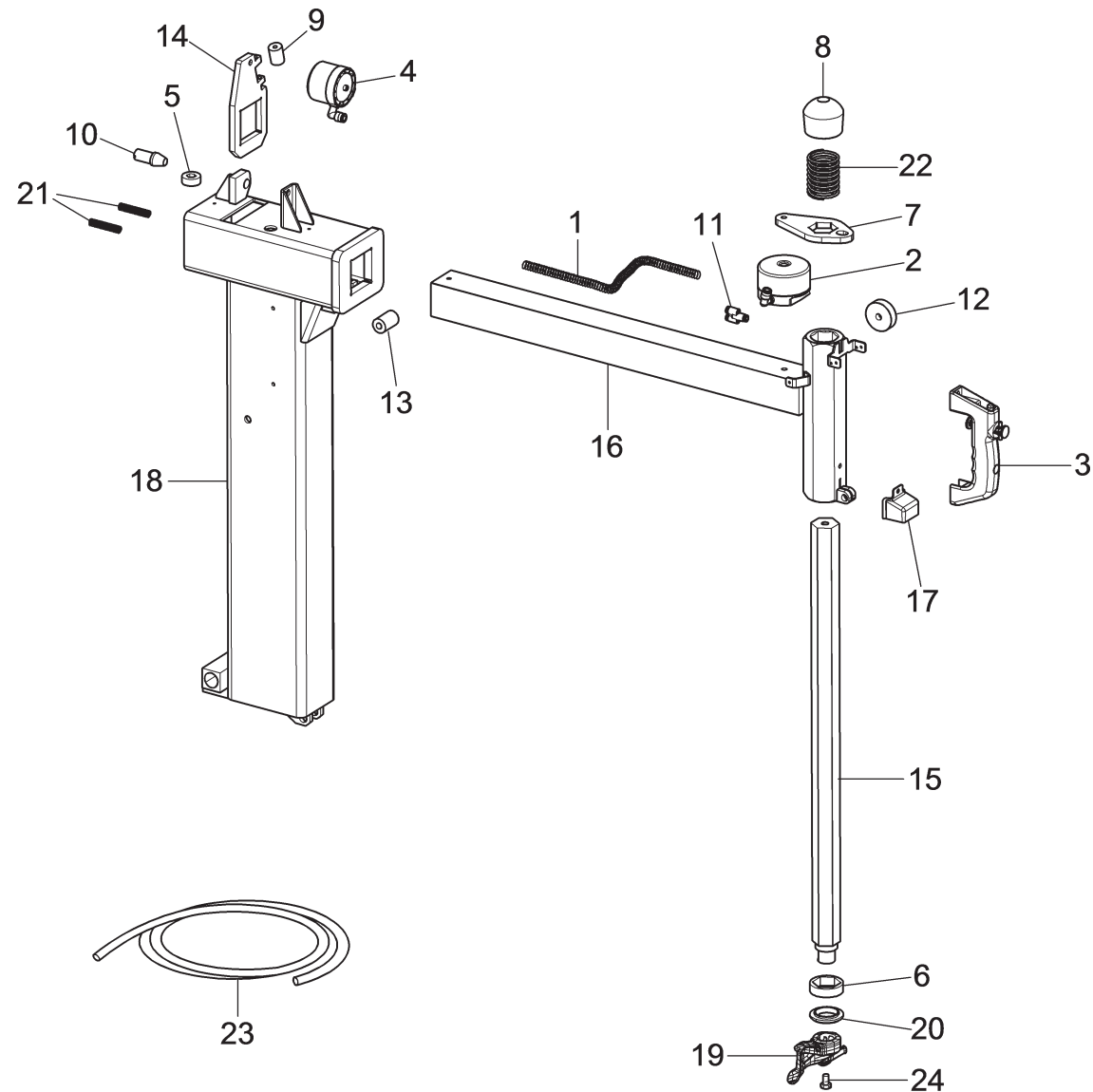



Dotazione
Equipment
Ausrüstung
Dotation
Dotación

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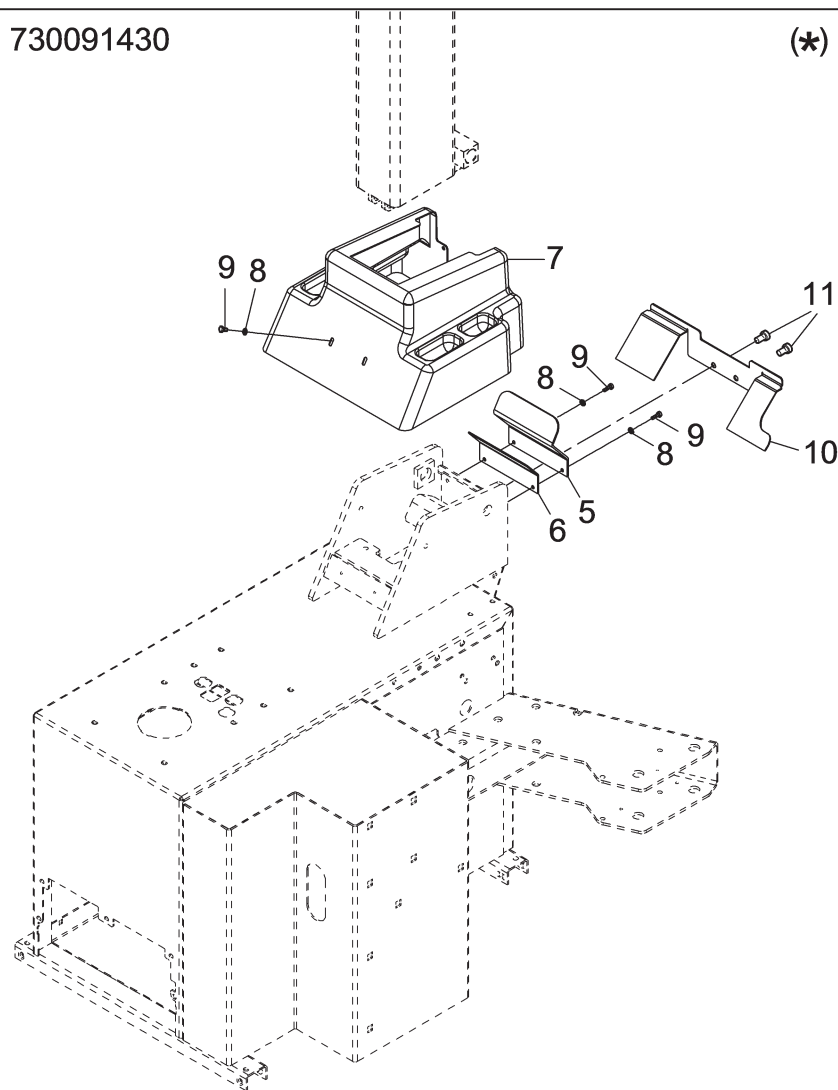
<div><div>SPACE</div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>			LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS														ASSIEME GENERALE MAIN ASSEMBLY GENERALSATZ ASSEMBLAGE GENERAL JUNTO GENERAL										Pag. 5 di 41					
			Tavola N°1 - Rev. 0																			GA2645 - GA2645D - GA2645V										
Tav.	Cod.	GA2645										GA2645										GA2645										
		18	20	22	26	30	I.20	I.22	I.26	I.30	IT.30	D.18	D.20	D.22	D.26	D.30	ID.20	ID.22	ID.26	ID.30	ITD.30	V.18	V.20	V.22	V.26	V.30	IV.20	IV.22	IV.26	IV.30	ITV.30	
2	730091600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3	730091661	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
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4	730092590	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
5	140390530	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
6	730091210	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
7	730094290	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
8A	140390221	●	●	●	●	●				●	●	●	●	●	●					●	●	●	●	●	●					●		
8B	140302093						●	●	●	●						●	●	●	●							●	●	●	●			
9A	140990094	●										●										●										
9B	730093190		●										●										●									
9C	730092940			●									●										●									
9D	730092670				●								●											●								
9E	730090230					●									●										●							
9F	730093180						●									●										●						
9G	730092930							●									●										●					
9H	730092740								●									●										●				
10A	730093980	●	●	●	●	●	●	●	●	●	●																					
10B	730093872											●	●	●	●	●	●	●	●	●	●											
10C	730093970																					●	●	●	●	●	●	●	●	●	●	
11A	730094120	●	●	●	●	●	●	●	●	●	●																					
11B	730094070											●	●	●	●	●	●	●	●	●	●											
11C	730094050																					●	●	●	●	●	●	●	●	●	●	
12	140990401	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
13	140990391	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
14A	730094340	●	●	●	●	●	●	●	●	●	●																					
14B	730094320																					●	●	●	●	●	●	●	●	●	●	
15	140990431	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
16A	730091910						●	●	●	●							●	●	●	●							●	●	●	●		
16B	140390861										●										●										●	
17	730094090						●	●	●	●	●						●	●	●	●	●						●	●	●	●	●	●



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<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>GRUPPO PALO ASSEMBLATO ASSEMBLED ROD GROUP ZUSAMMENGESETZTER PFAHLSATZ GROUPE MÂT ASSEMBLÉ GRUPO PALO ENSAMBLADO</div>										<div>Pag. 7 di 41</div>				
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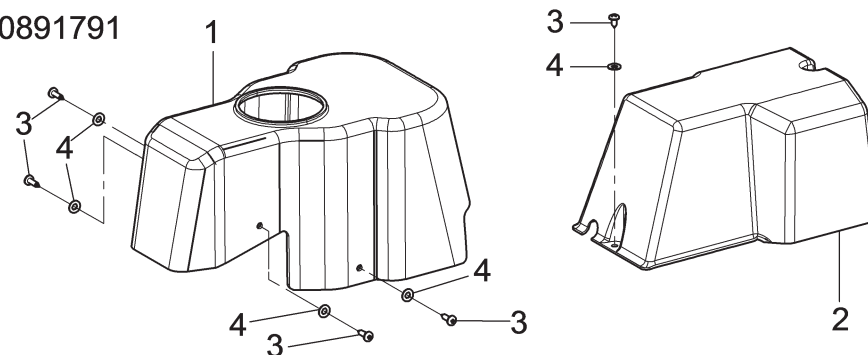
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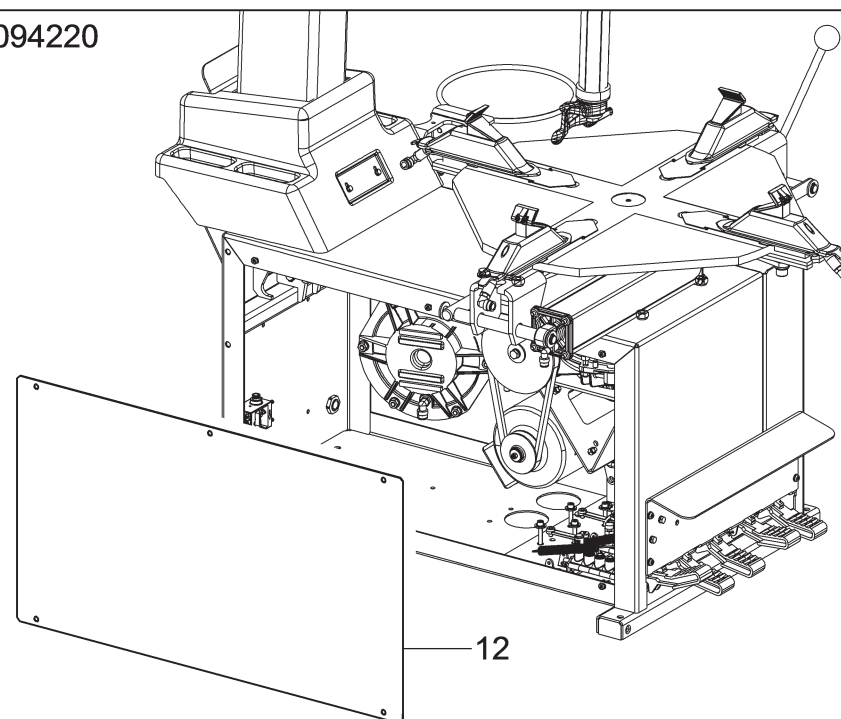
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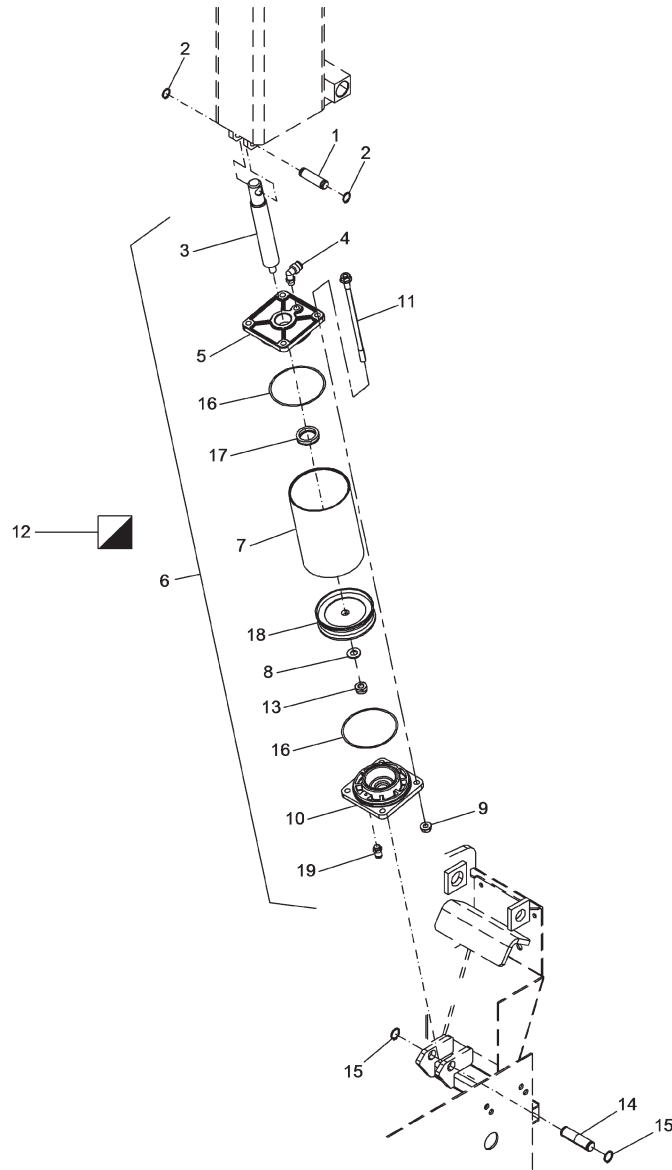
TEST & SERVICE EQUIPMENT
Space s.r.l.

LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE
LISTE DES PIECES DETACHEES - LISTA DE PIEZAS


Tavola N°3 - Rev. 0

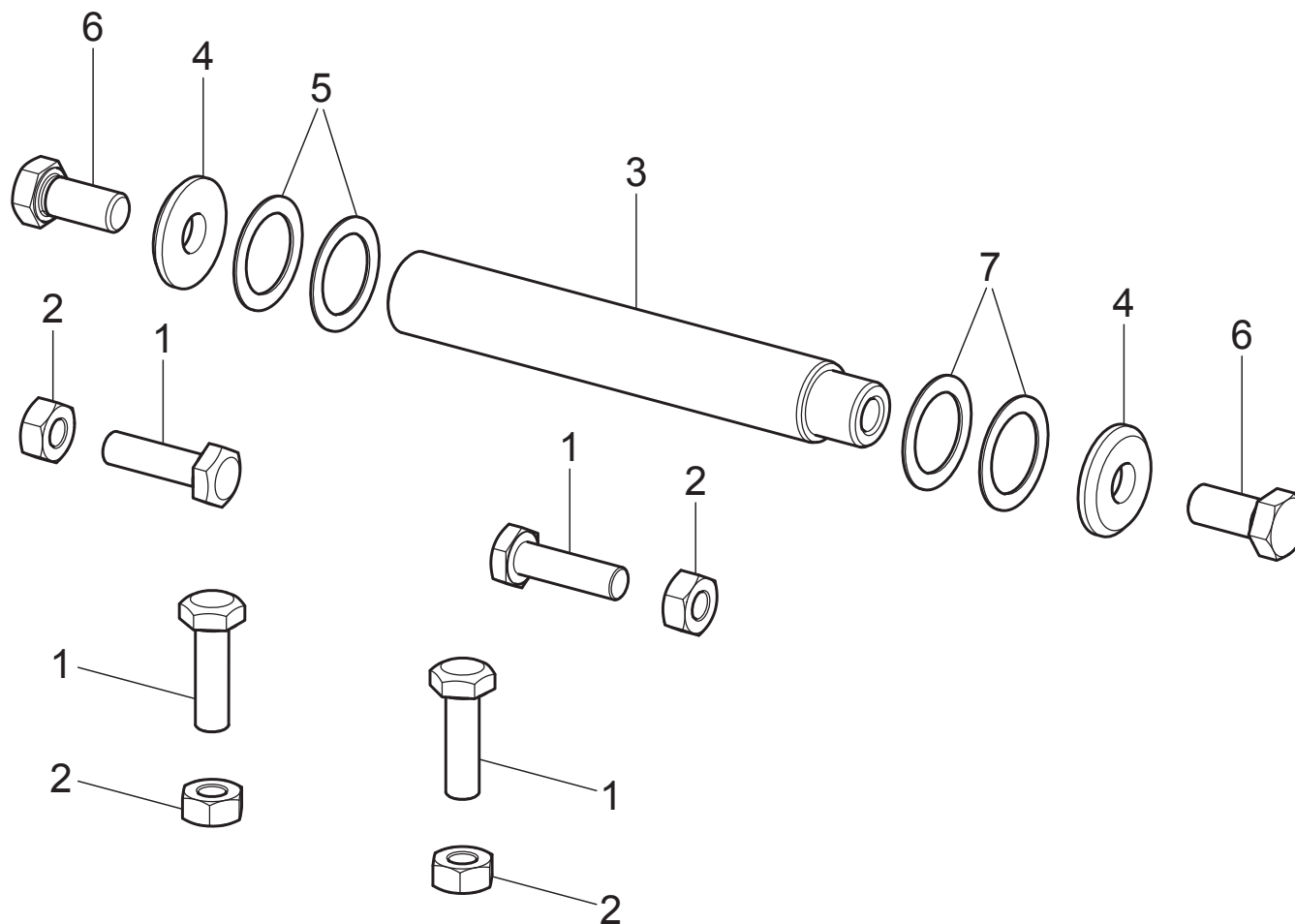
GRUPPO CARTER
GUARD UNIT
GEHÄUSESATZ
GROUPE CARTER
GRUPO CARTER


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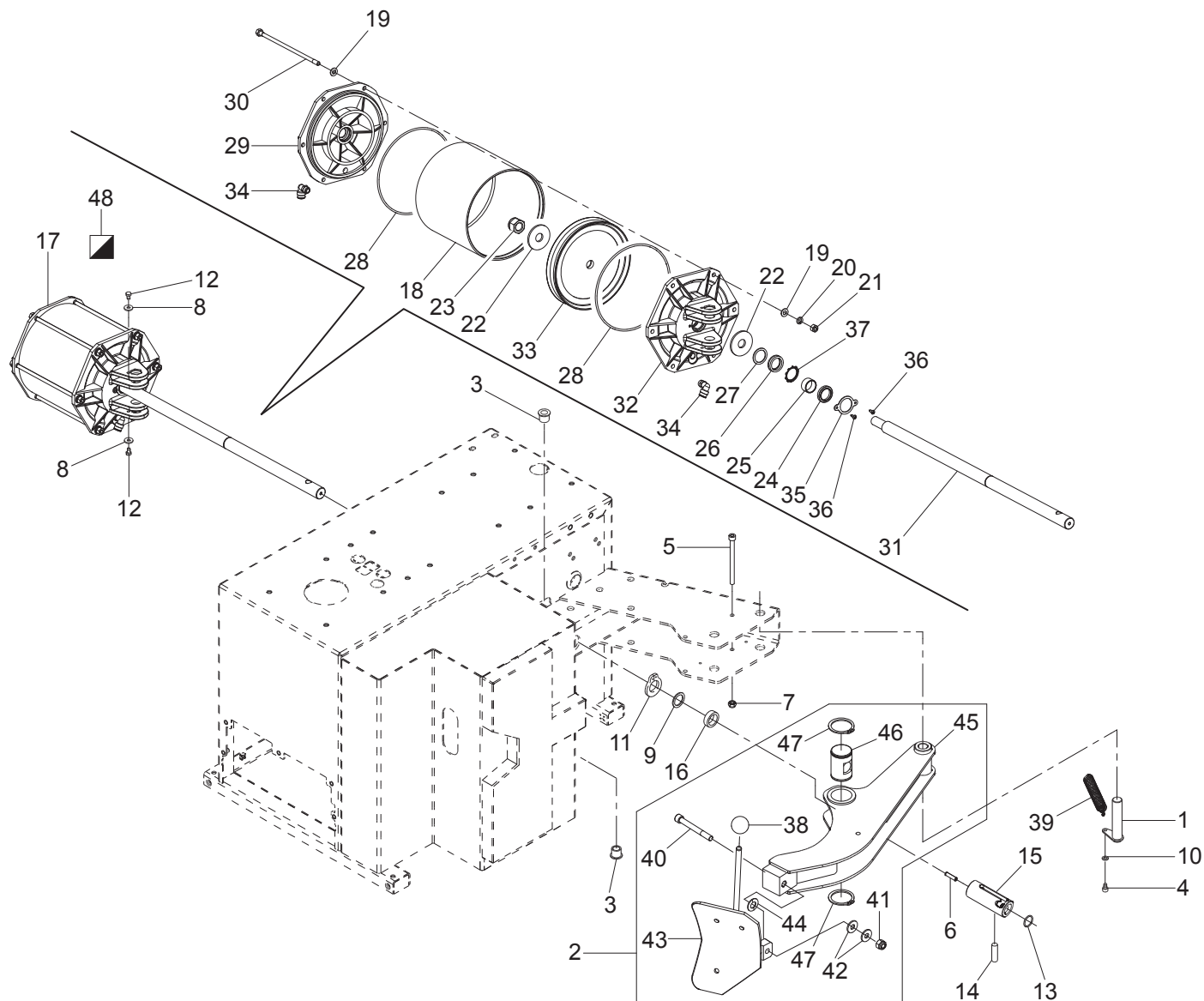



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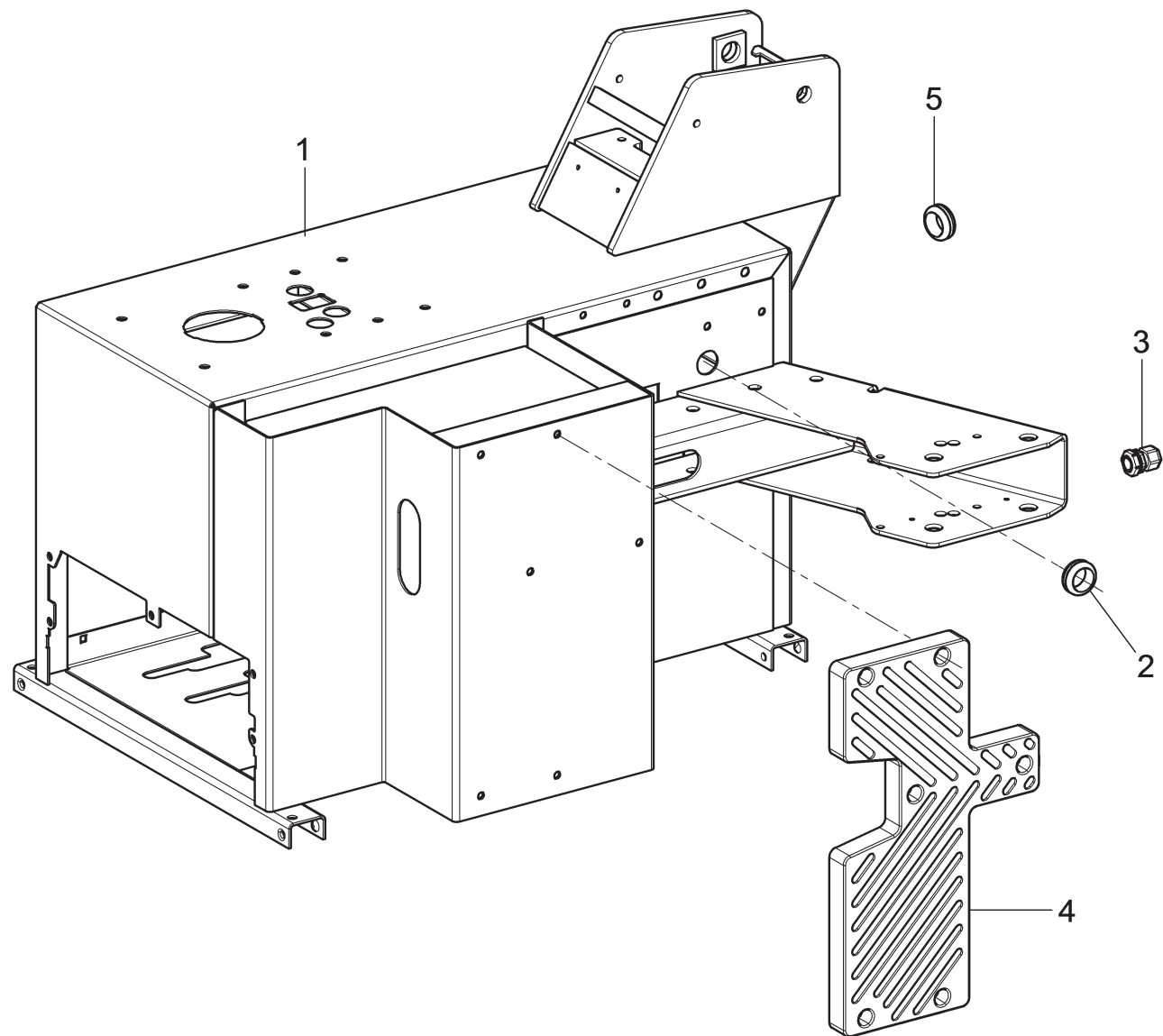
 TEST & SERVICE EQUIPMENT Space s.r.l.	LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										GRUPPO CILINDRO RIBALTAMENTO TILTING CYLINDER UNIT ZYLINDERSKIPPUNGSSATZ GROUPE CYLINDRE BASCULAGE GRUPO CILINDRO VUELCO										Pag. 9 di 41									
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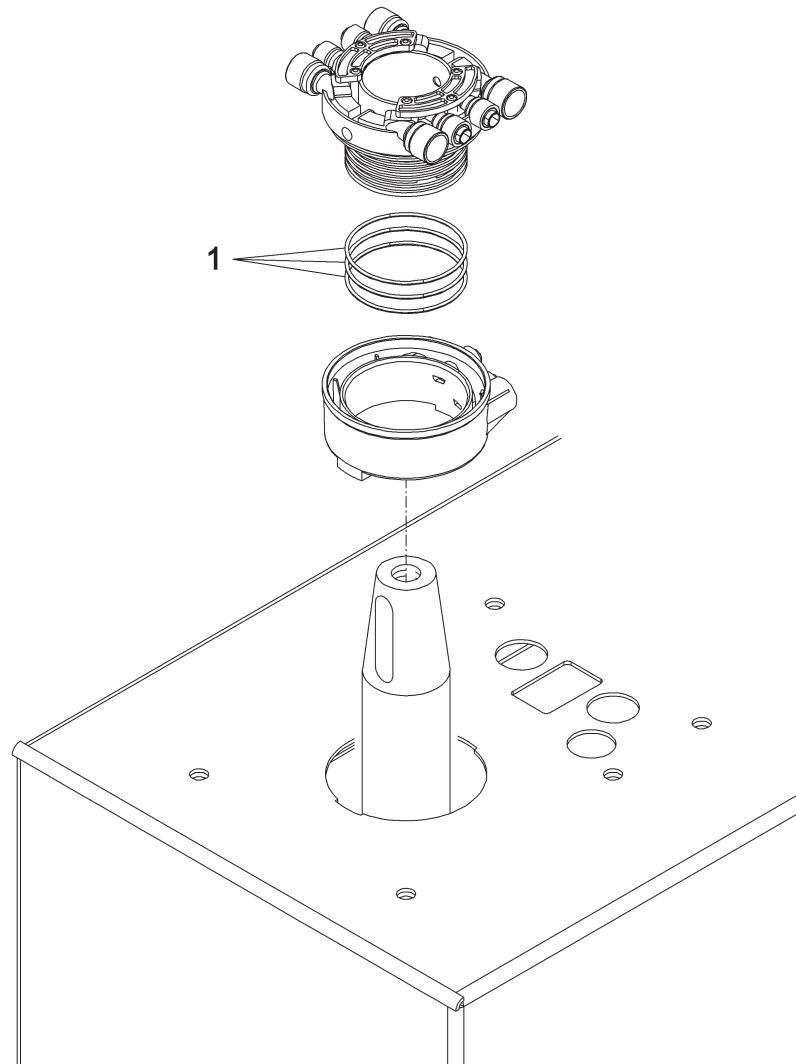
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 TEST & SERVICE EQUIPMENT Space s.r.l.					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										GRUPPO FULCRO RIBALTAMENTO PALO ROD TILTING FULCRUM UNIT PFAHLKIPPUNG FULCRUMSATZ GROUPE POINT D'APPUI BASCULAGE MÂT GRUPO FULCRO VUELCO PALO										Pag. 10 di 41				
					Tavola N°5 - Rev. 0					140390530																			




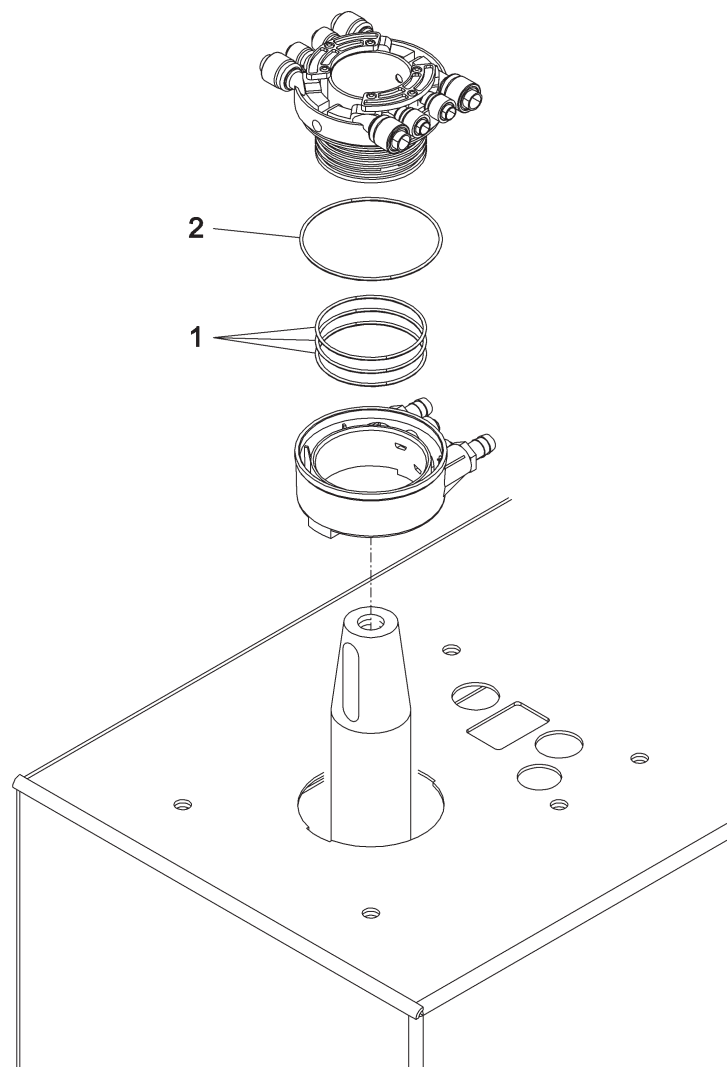
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•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIÉCES DETACHEES - LISTA DE PIEZAS</div>										<div>GRUPPO BRACCIO STALLONATORE</div> <div>BEAD BREAKER ARM UNIT</div> <div>ABDRÜCKARMSATZ</div> <div>GROUPE BRAS DECOLLE TALONS</div> <div>GRUPO BRAZO DESTALONADOR</div>										<div>Pag. 11 di 41</div>				
					Tavola N°6 - Rev. 0					730091210																			




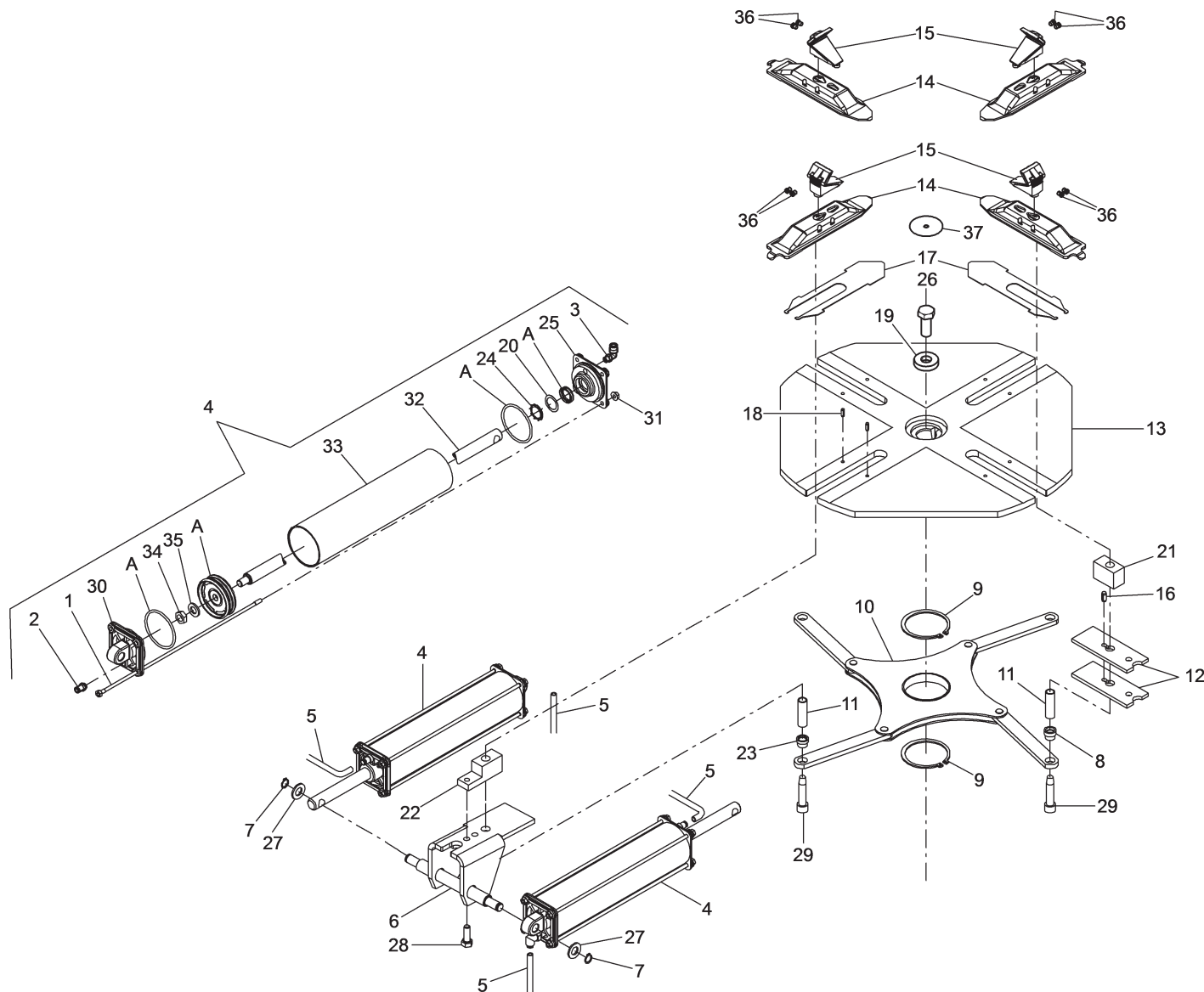
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•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										GRUPPO TELAIO FRAME UNIT RAHMENSATZ RAHMENSATZ GRUPO ESTRUCTURA										Pag. 12 di 41				
					Tavola N°7 - Rev. 0					730094290																			




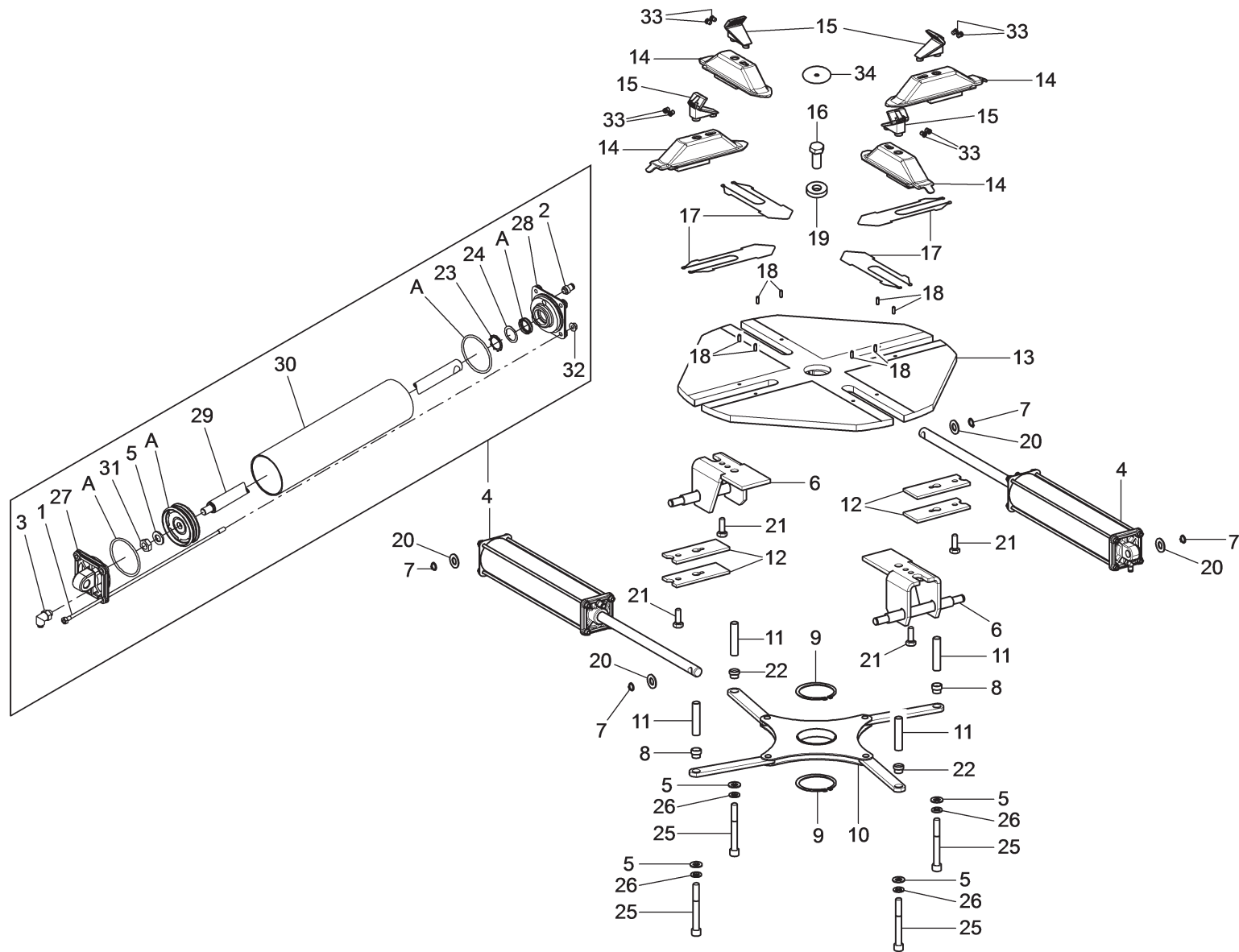
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•	•	•	•	•					•	•	•	•	•	•					•	•	•	•	•	•					•
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>INSIEME DISTRIBUTORE ROTANTE</div> <div>ROTARY DISTRIBUTOR ASSEMBLY</div> <div>ROTATIONSVERTEILERSATZ</div> <div>ASSEMBLAGE DISTRIBUTEUR ROTATIF</div> <div>CONJUNTO DISTRIBUIDOR ROTANTE</div>										<div>Pag. 13 di 41</div>				
					Tavola N°8A - Rev. 0					140390221																			



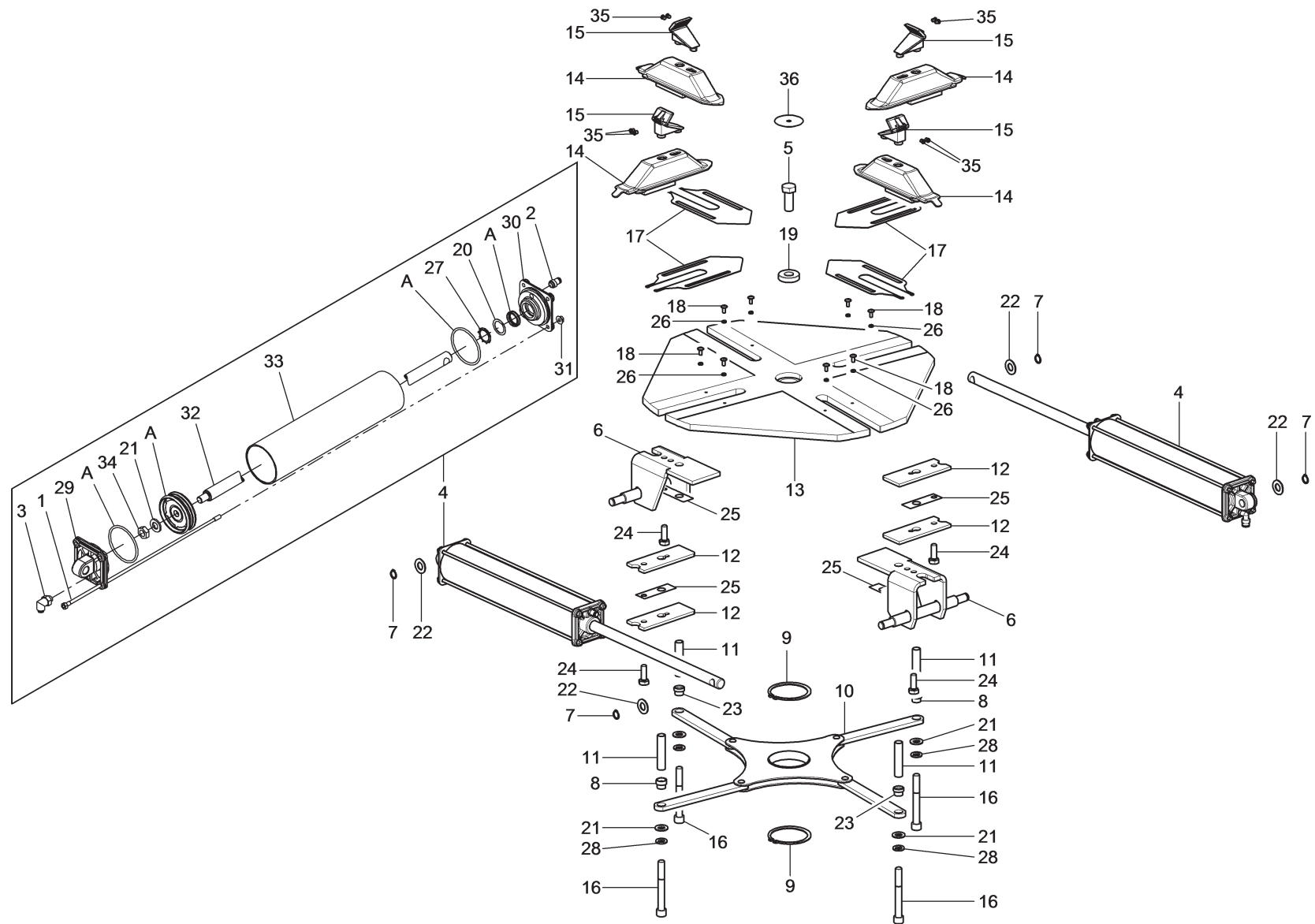
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<div> TEST & SERVICE EQUIPMENT Space s.r.l.</div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>INSIEME DISTRIBUTORE ROTANTE ROTARY DISTRIBUTOR ASSEMBLY ROTATIONSVERTEILERSATZ ASSEMBLAGE DISTRIBUTEUR ROTATIF CONJUNTO DISTRIBUIDOR ROTANTE</div>										<div>Pag. 14 di 41</div>				
					Tavola N°8B - Rev. 0					140302093																			



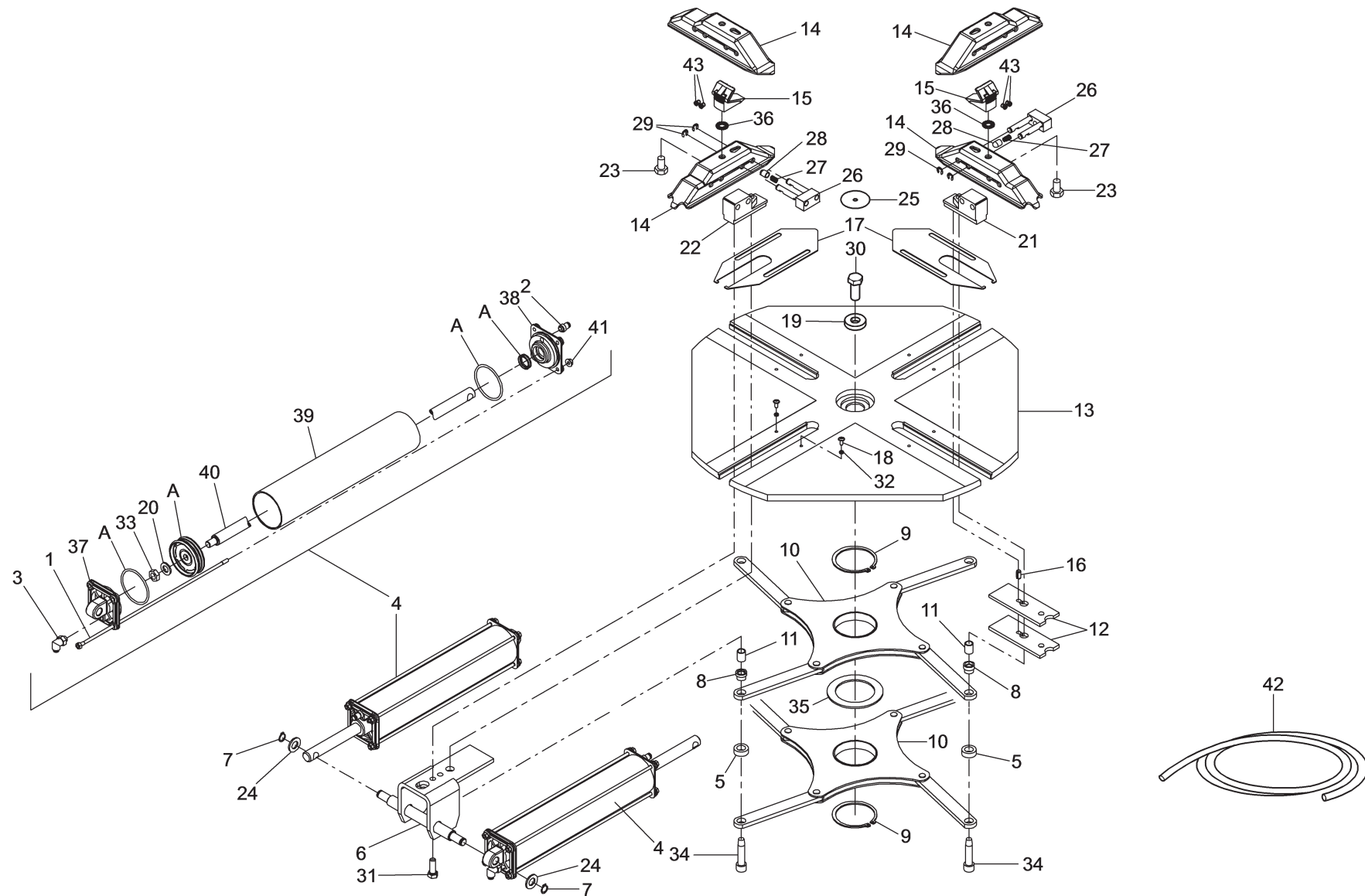
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<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>MTG MANDRINO QUADRO 10"-18"</div> <div>10"-18" MANDREL PANEL</div> <div>MTG SPINNELTAFEL 10"-18"</div> <div>MTG TABLEAU MANDRIN 10"-18"</div> <div>MTG CUADRO MANDRIL 10"-18"</div>										<div>Pag. 15 di 41</div>				
					Tavola N°9A - Rev. 0					140990094																			




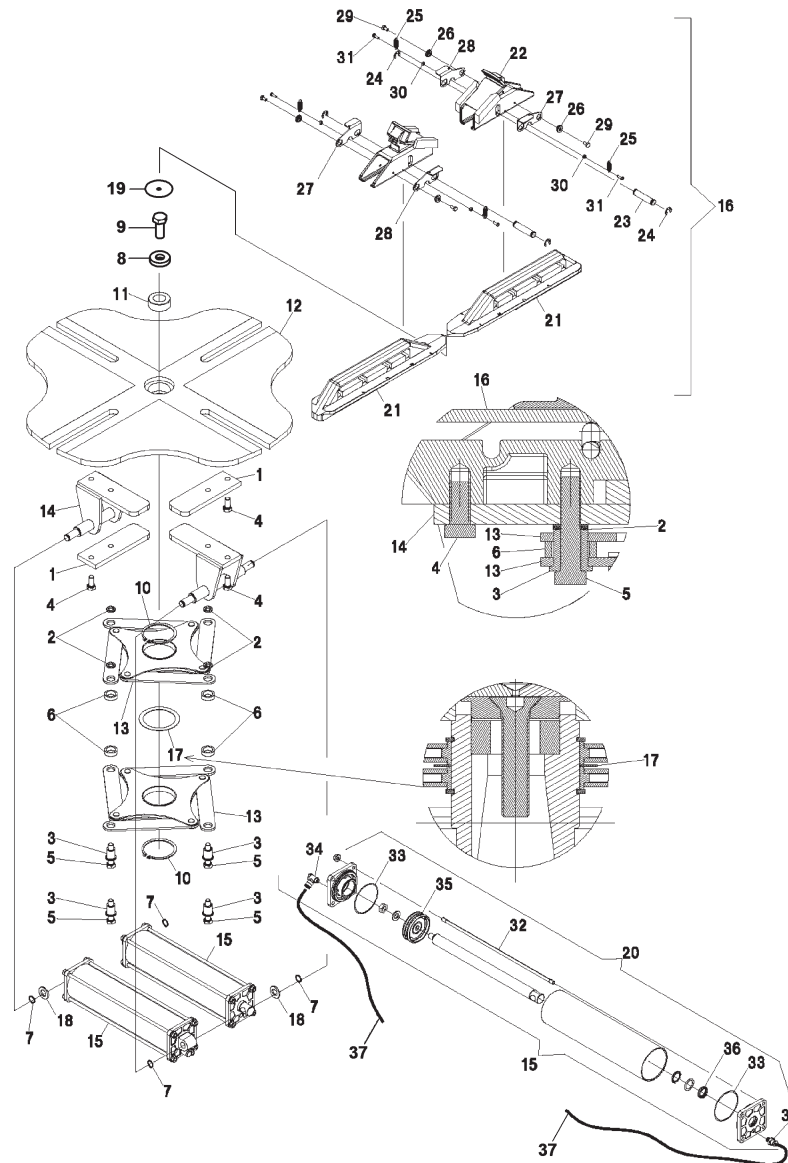
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 TEST & SERVICE EQUIPMENT Space s.r.l.					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS															<div>MTG MANDRINO QUADRO 10°-20° 10°-20° MTG SQUARE MANDREL MTG QUADRATISCHE SPINDEL 10°-20° MTG MANDRIN CARRÉ 10°-20° MTG MANDRIL CUADRADO 10°-20°</div>										Pag. 16 di 41				
					Tavola N°9B - Rev. 0					730093190																								




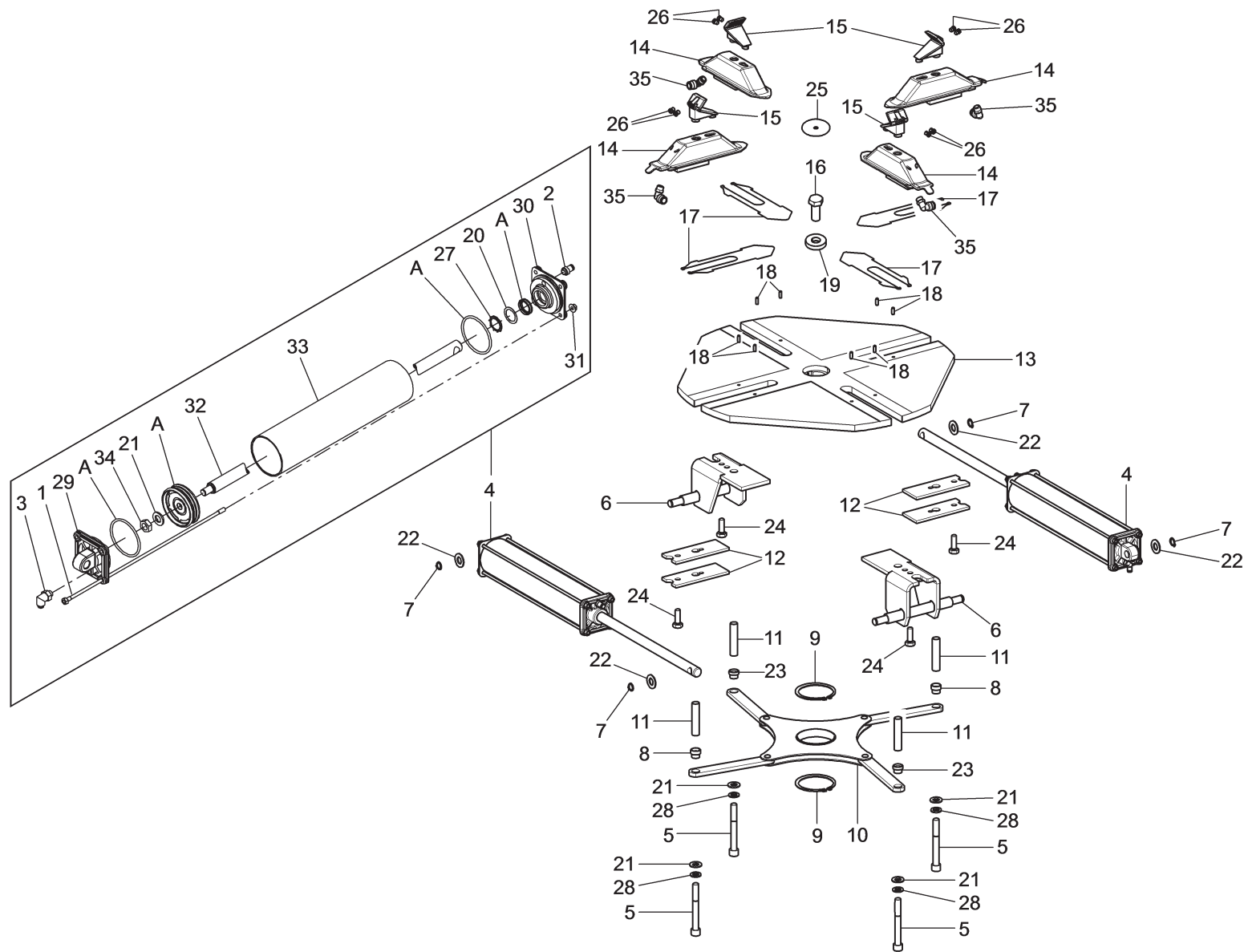
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		●										●										●							
<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										MANDRINO QUADRO 11"-22" 11"-22" SQUARE MANDREL QUADRATISCHE SPINDEL 11"-22" MANDRIN CARRÉ 11"-22" MANDRIL CUADRADO 11"-22"										Pag. 17 di 41				
					Tavola N°9C - Rev. 0					730092940																			




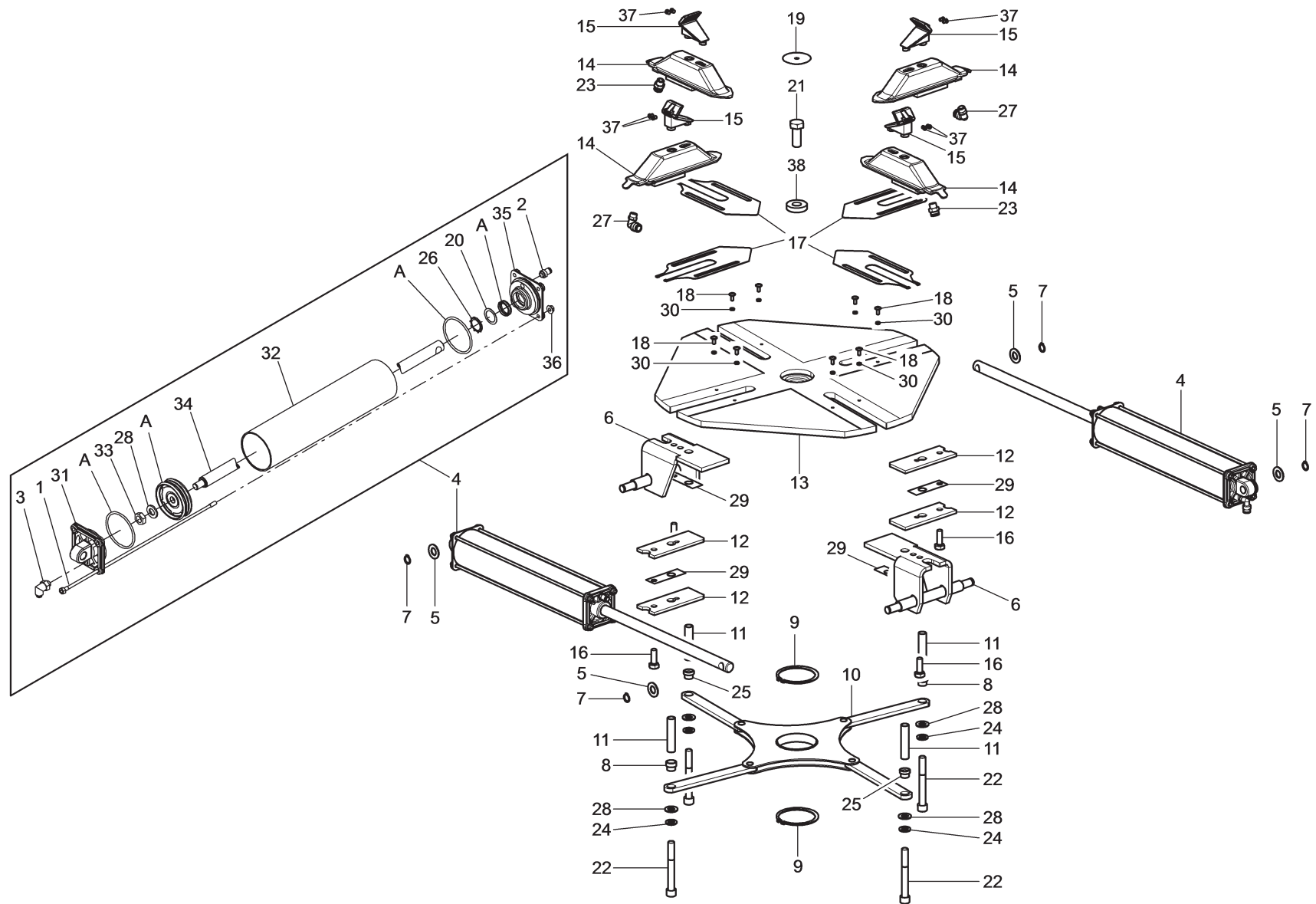
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			•										•										•						
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIÉCES DETACHEES - LISTA DE PIEZAS</div>										<div>MANDRINO 10"-26"</div> <div>10"-26" MANDREL</div> <div>SPINDEL 10"-26"</div> <div>MANDRIN 10"-26"</div> <div>MANDRIL 10"-26"</div>										<div>Pag. 18 di 41</div>				
					<div>Tavola N°9D - Rev. 0</div>					<div>730092670</div>																			




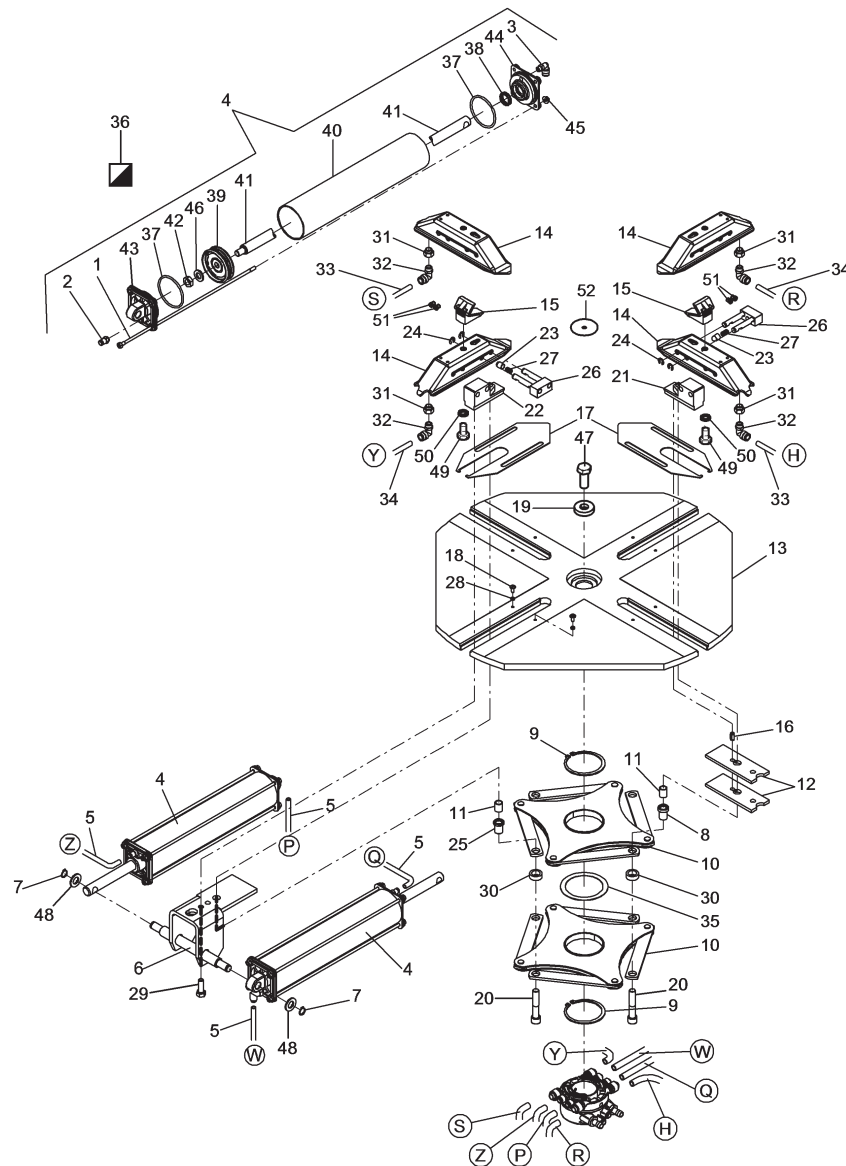
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<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>MANDRINO 8" - 30" 8" - 30" CHUCK UNIT SPINDELSATZ 8" - 30" GROUPE MANDRIN 8" - 30" GRUPO MANDRIL 8" - 30"</div>										<div>Pag. 19 di 41</div>					
					Tavola N°9E - Rev. 0					730090230																				




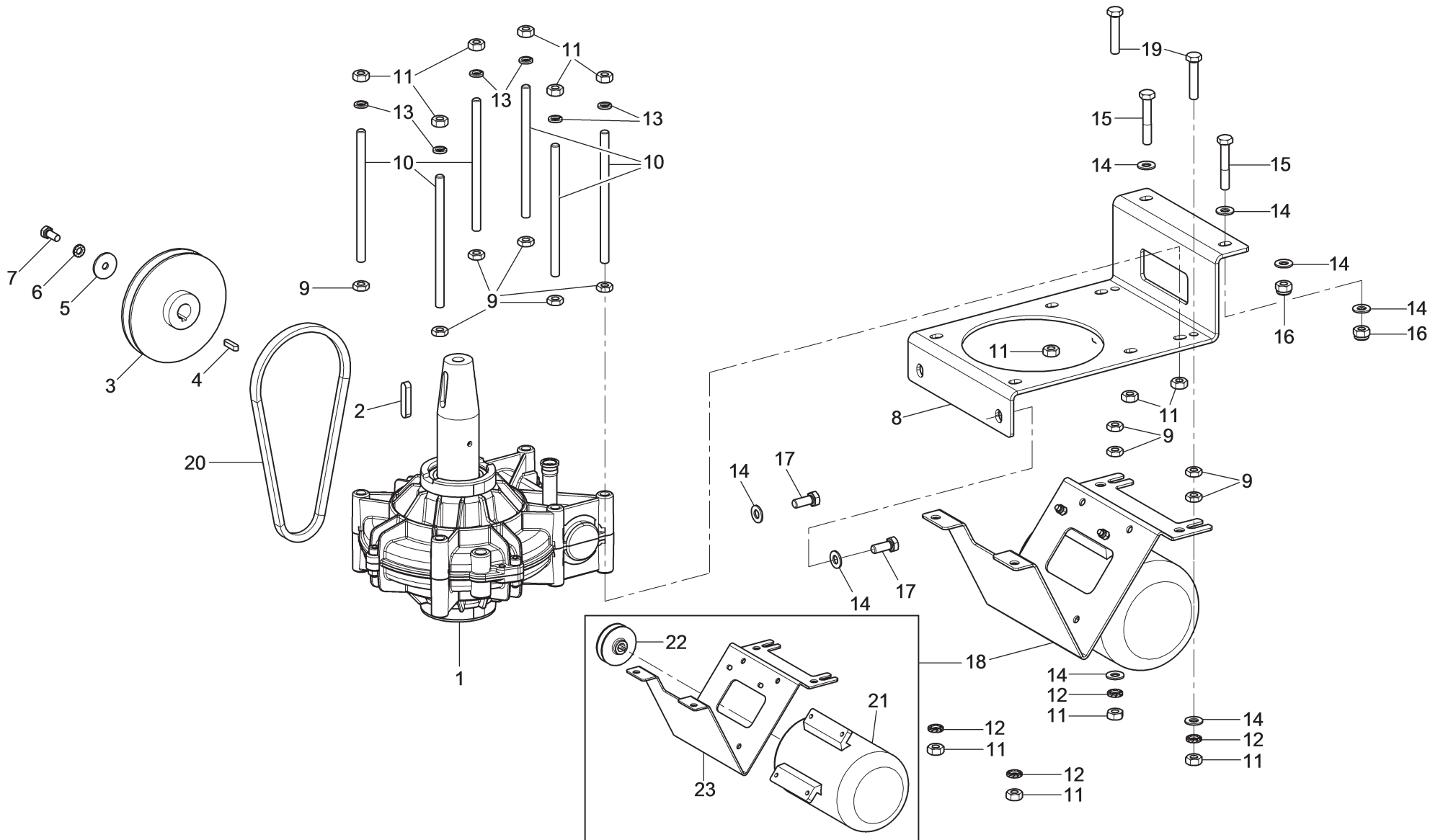
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<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>MTG MANDRINO QUADRO 10"-20" GT 10"-20" GT MTG SQUARE MANDREL MTG QUADRATISCHE SPINDEL 10"-20" GT MTG MANDRIN CARRÉ 10"-20" GT MTG MANDRIL CUADRADO 10"-20" GT</div>										<div>Pag. 20 di 41</div>				
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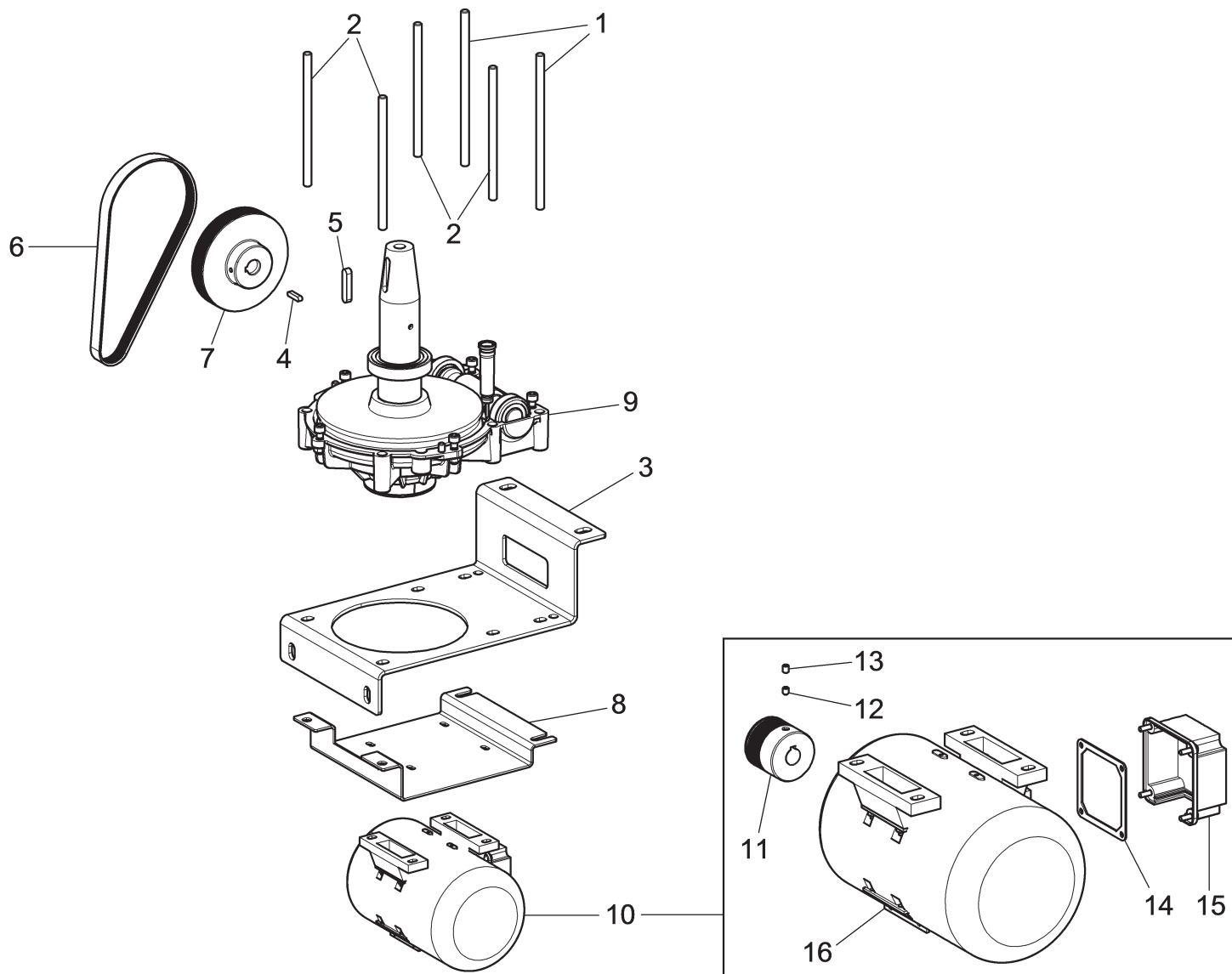
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						●										●										●			
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIÉCES DETACHEES - LISTA DE PIEZAS</div>										<div>MANDRINO QUADRO 11"-22" GT</div> <div>GT 11"-22" SQUARE MANDREL</div> <div>QUADRATISCHE SPINDEL 11"-22" GT</div> <div>MANDRIN CARRÉ 11"-22" GT</div> <div>MANDRIL CUADRADO 11"-22" GT</div>										<div>Pag. 21 di 41</div>				
					<div>Tavola N°9G - Rev. 0</div>					<div>730092930</div>																			




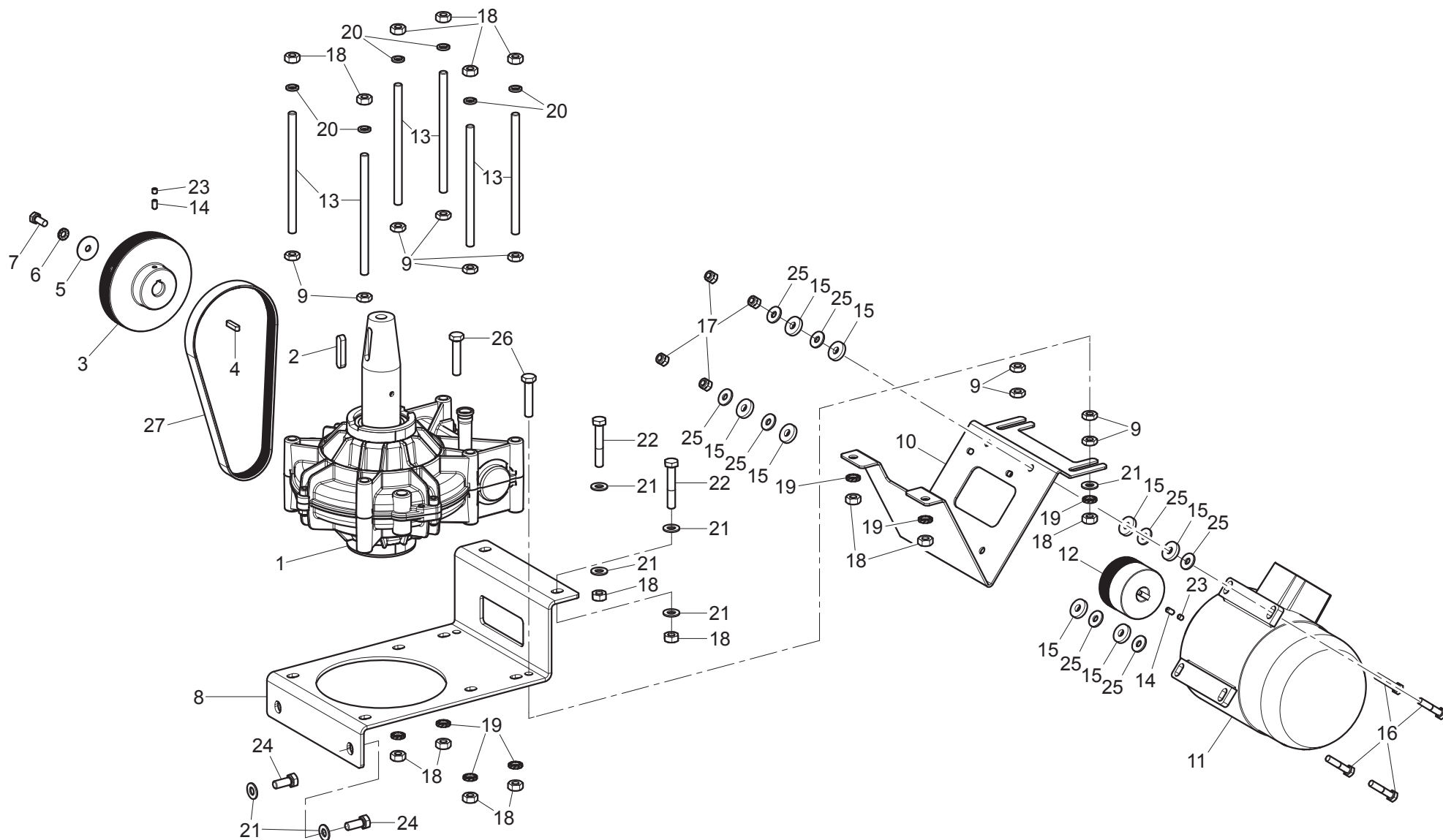
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 TEST & SERVICE EQUIPMENT Space s.r.l.					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										<i>MANDRINO 10"-26" GT</i> <i>10"-26" GT MANDREL</i> <i>SPINDEL 10"-26" GT</i> <i>MANDRIN 10"-26" GT</i> <i>MANDRIL 10"-26" GT</i>										Pag. 22 di 41				
					Tavola N°9H - Rev. 0					730092740																			



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•	•	•	•	•	•	•	•	•	•																				
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>GRUPPO MOTORIDUTTORE TRIFASE 1 VELOCITÀ</div> <div>1-SPEED THREE-PHASE GEARMOTOR UNIT</div> <div>UNTERSETZERSATZ DREIPHASEN 1 GESCHWINDIGKEIT</div> <div>GROUPE MOTOREDUCTEUR TRIPHASE À 1 VITESSE</div> <div>GRUPO MOTORREDUCTOR TRIFÁSICO 1 VELOCIDAD</div>										<div>Pag. 23 di 41</div>				
					Tavola N°10A - Rev. 0					730093980																			



GA2645										GA2645										GA2645									
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<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>GRUPPO MOTORIDUTTORE CON INVERTER GEARMOTOR UNIT WITH INVERTER UNTERSETZERSATZ MIT UMRICHTER GROUPE MOTOREDUCTEUR AVEC INVERSEUR GRUPO MOTERREDUCTOR CON INVERSOR</div>										<div>Pag. 24 di 41</div>				
					Tavola N°10B - Rev. 0					730093872																			



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TEST & SERVICE EQUIPMENT
Space s.r.l.

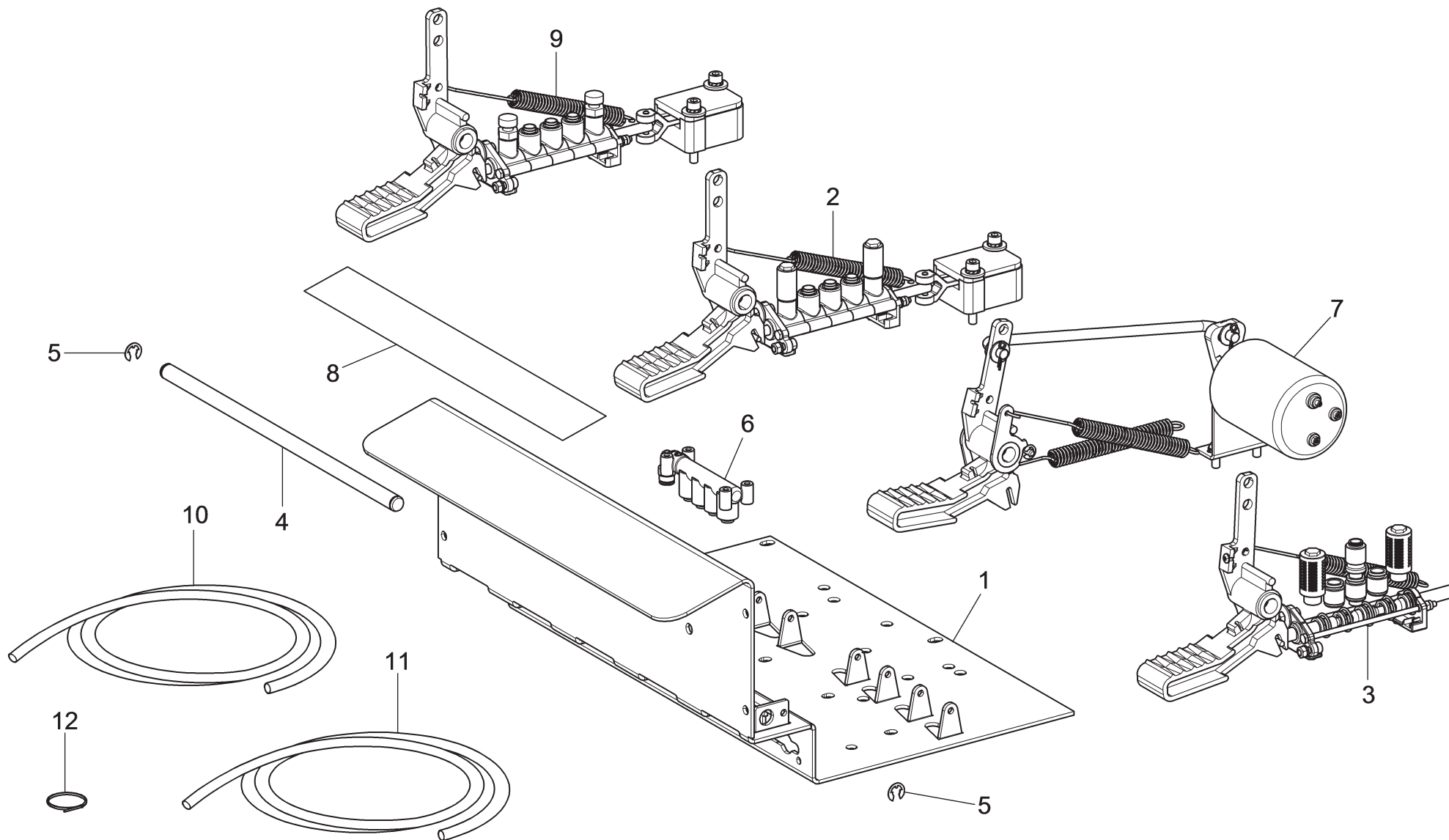
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LISTE DES PIECES DETACHEES - LISTA DE PIEZAS

Tavola N°10C - Rev. 0

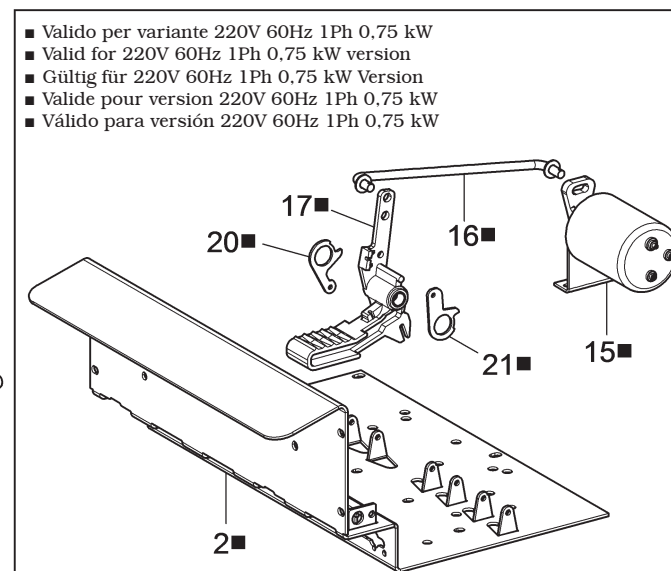
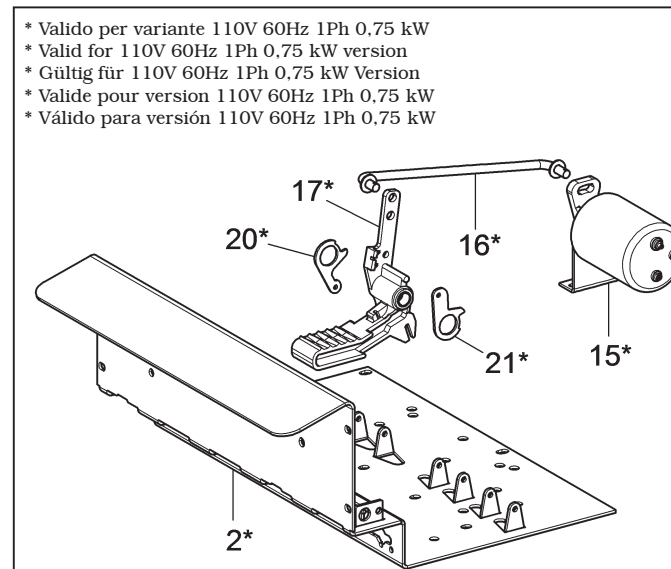
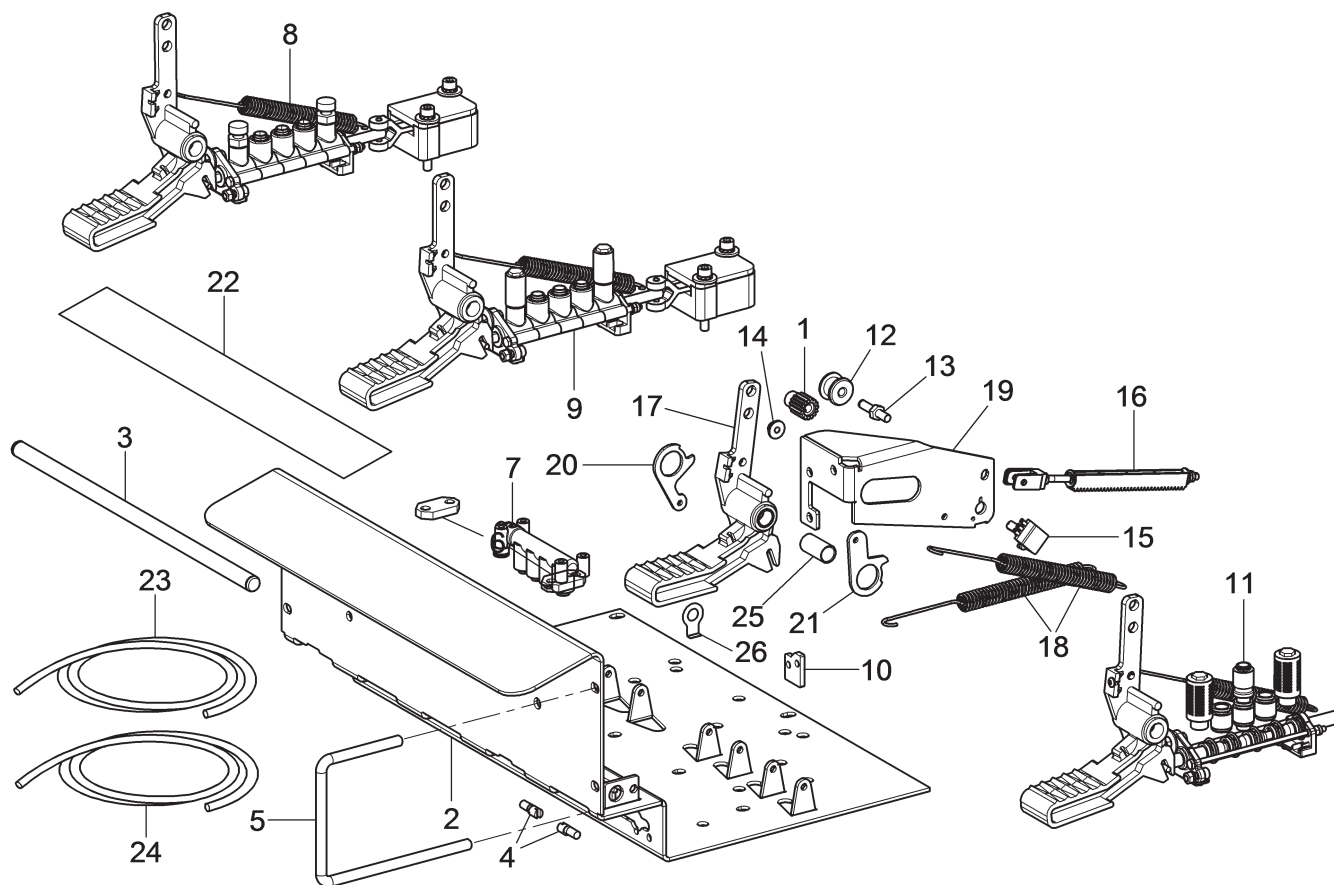
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GRUPPO MOTORE 230-400-50 2 VELOCITÀ
 2-SPEED 230-400-50 MOTOR UNIT
 MOTORSATZ 230-400-50 2 GESCHWINDIGKEITEN
 GROUPE MOTEUR 230-400-50 À 2 VITESSES
 GRUPO MOTOR 230-400-50 2 VELOCIDAD

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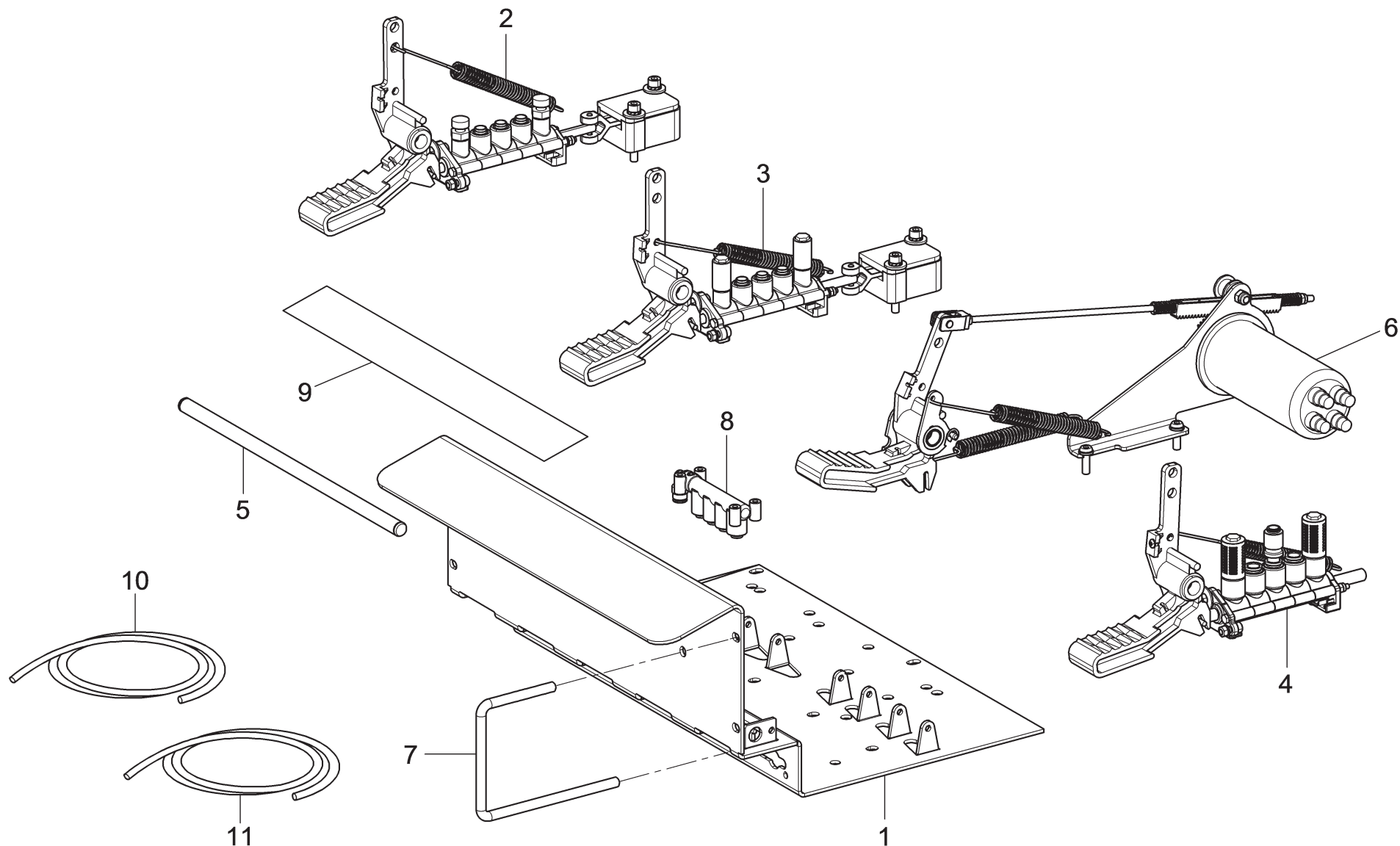



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•	•	•	•	•	•	•	•	•	•																									
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>															<div>GRUPPO PEDALIERA MACCHINA 1 VELOCITÀ</div> <div>MACHINE PEDALBOARD UNIT 1 SPEED</div> <div>MASCHINE PEDALLEISTESATZ 1 GESCHWINDIGKEIT</div> <div>GROUPE PÉDALES DE DIRECTION MACHINE 1 VITESSE</div> <div>GRUPO PEDALERA MÁQUINA 1 VELOCIDAD</div>										<div>Pag. 26 di 41</div>				
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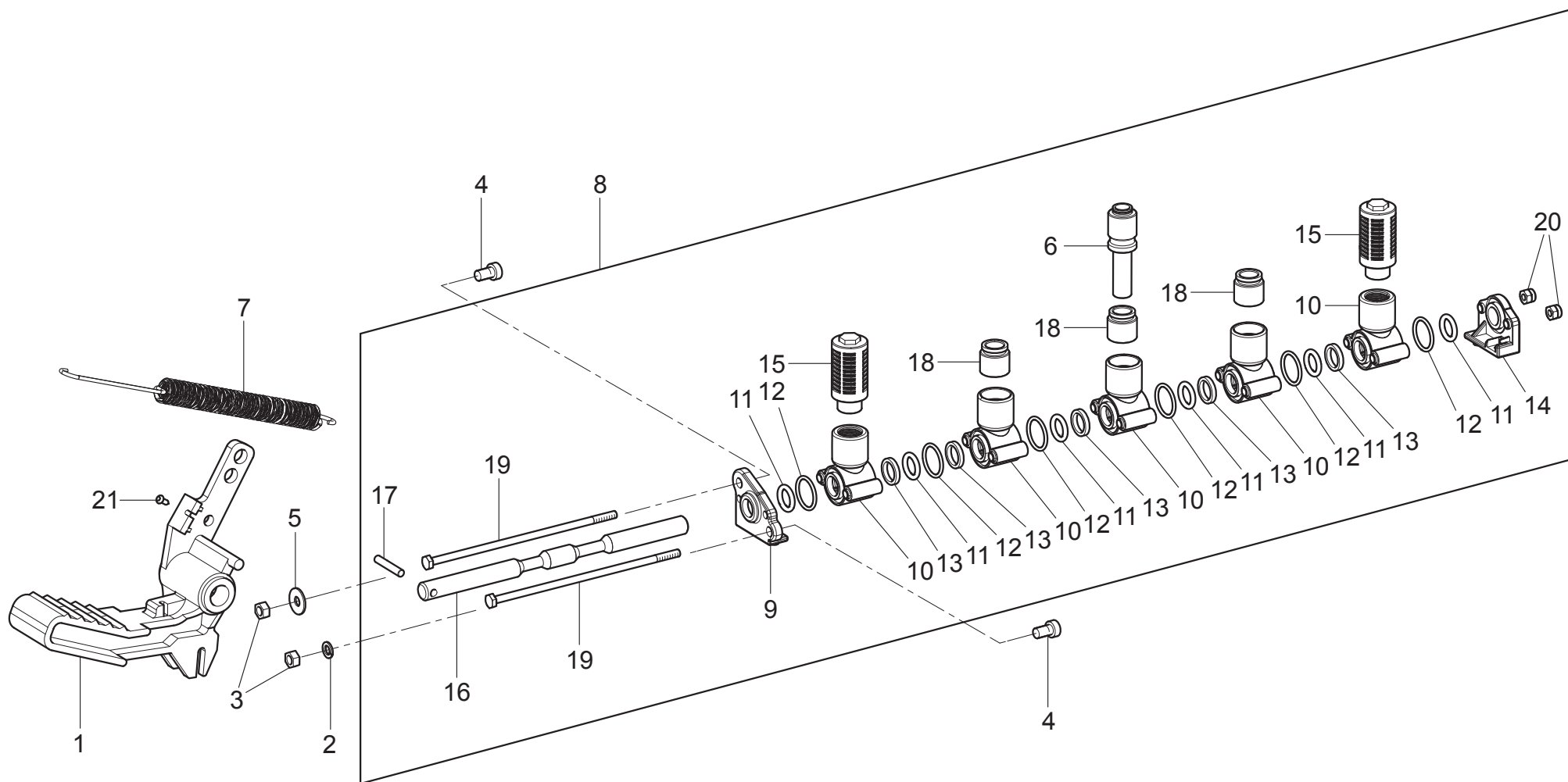
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<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										GRUPPO PEDALIERA MACCHINA INVERTER INVERTER MACHINE PEDALBOARD UNIT FREQUENUMFORMER MASCHINE PEDALLEISTESATZ GROUPE PÉDALES DE DIRECTION MACHINE VARIATEUR GRUPO PEDALERA MÁQUINA INVERSOR										Pag. 27 di 41				
					Tavola N°11B - Rev. 0					730094070																			

GRUPPO PEDALIERA MACCHINA INVERTER
 INVERTER MACHINE PEDALBOARD UNIT
 FREQUENUMFORMER MASCHINE PEDALLEISTESATZ
 GROUPE PÉDALES DE DIRECTION MACHINE VARIATEUR
 GRUPO PEDALERA MÁQUINA INVERSOR




GA2645										GA2645										GA2645									
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<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>GRUPPO PEDALIERA MACCHINA 2 VELOCITÀ MACHINE PEDALBOARD UNIT 2 SPEEDS MASCHINE PEDALLEISTESATZ 2 GESCHWINDIGKEITEN GROUPE PÉDALES DE DIRECTION MACHINE 2 VITESSES GRUPO PEDALERA MÁQUINA 2 VELOCIDADES</div>										<div>Pag. 28 di 41</div>				
					Tavola N°11C - Rev. 0					730094050																			

GA2645										GA2645										GA2645									
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<div> TEST & SERVICE EQUIPMENT Space s.r.l.</div>					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										INSIEME PEDALE MANDRINO CHUCK PEDAL ASSEMBLY SPINDELPEDALSSATZ ASSEMBLAGE PÉDALE MANDRIN ENSAMBLADO PEDAL MANDRIL										Pag. 29 di 41				
					Tavola N°12 - Rev. 0					140990401																			



GA2645										GA2645										GA2645									
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•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



TEST & SERVICE EQUIPMENT
Space s.r.l.

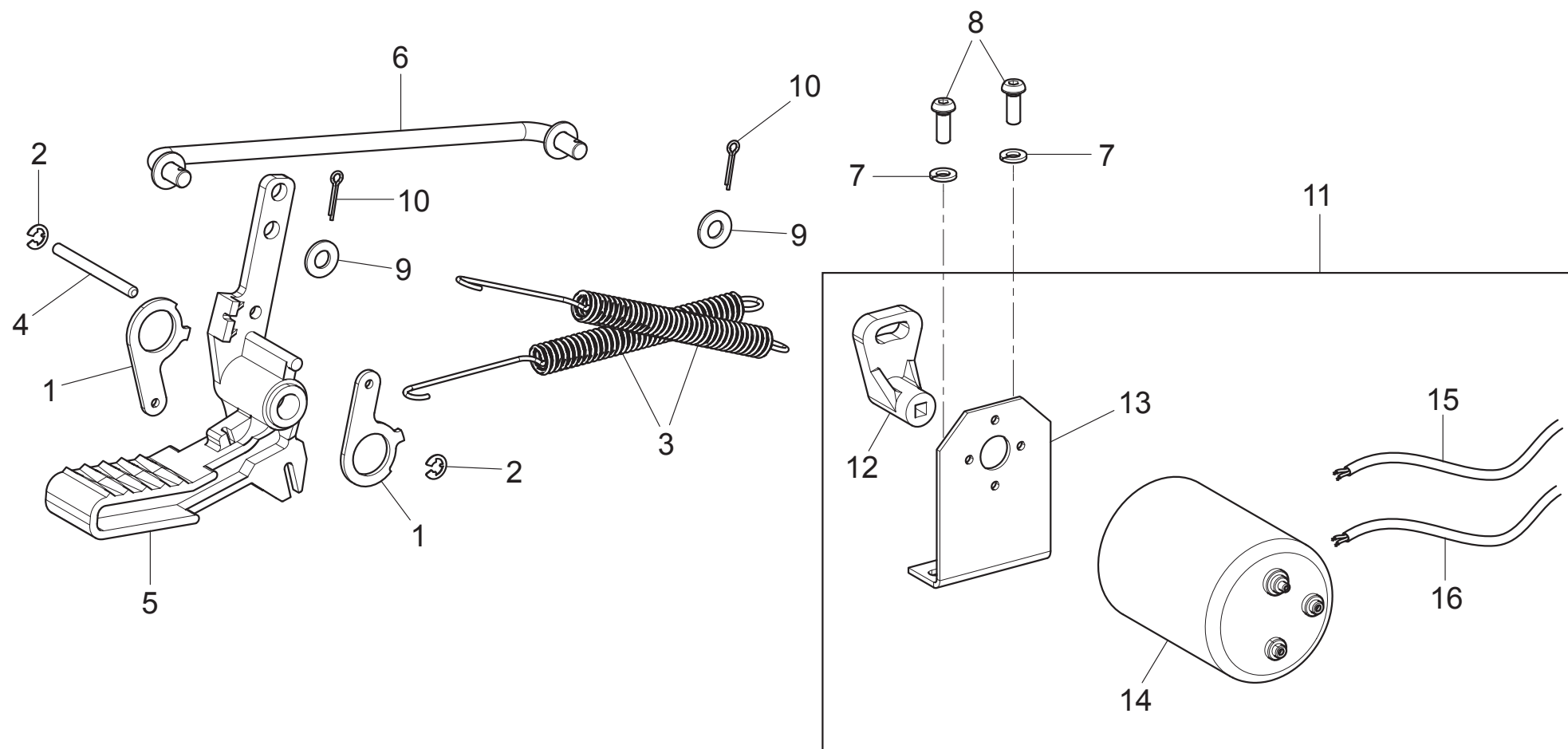
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LISTE DES PIÈCES DÉTACHÉES - LISTA DE PIEZAS

Tavola N°13 - Rev. 0

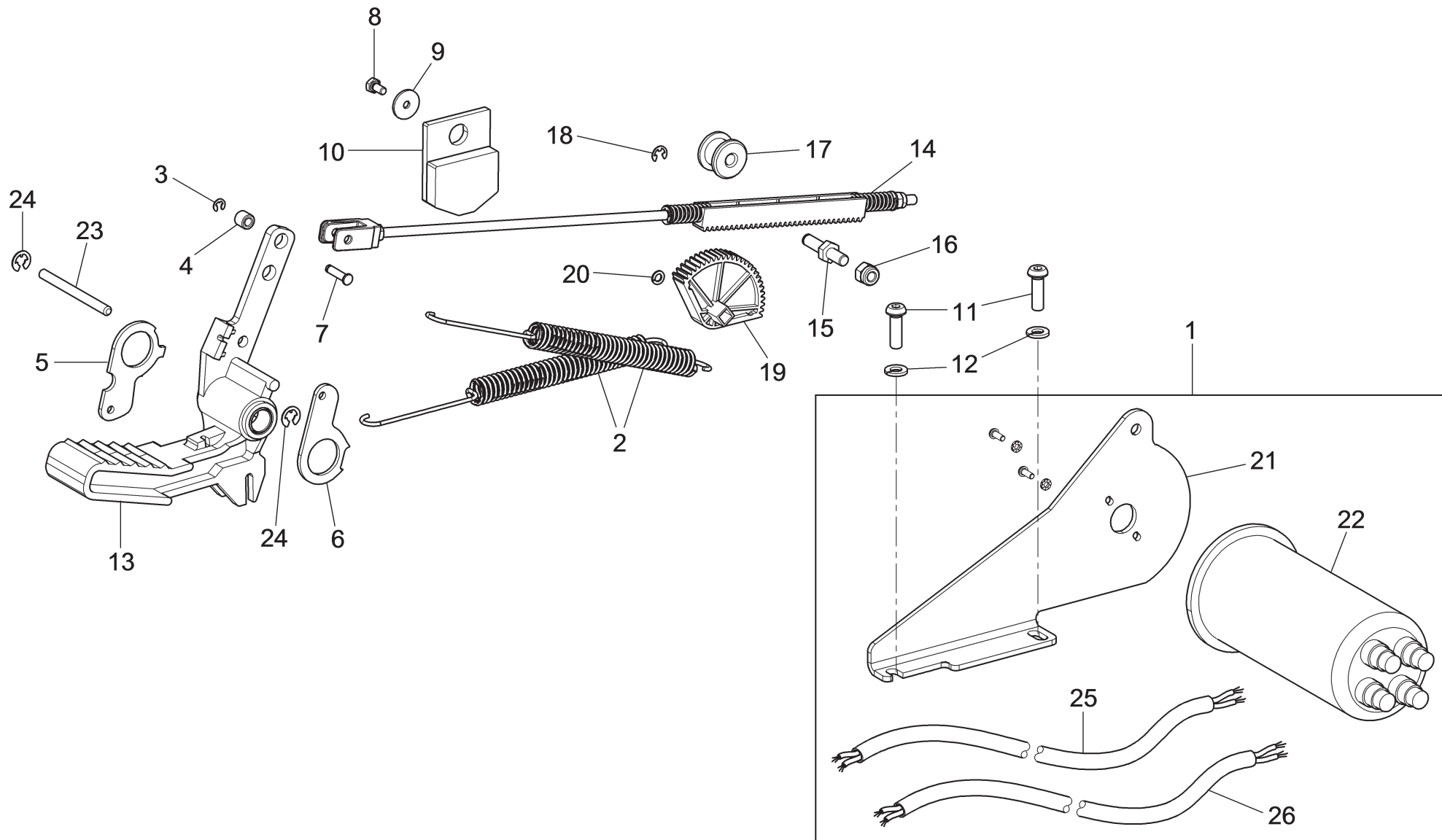
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INSIEME PEDALE STALLONATORE
BEAD BREAKING PEDAL UNIT
ABDRÜCKPEDALSATZ
ASSEMBLAGE PÉDAL DÉCOLLE TALON
CONJUNTO PEDAL DESTALONADOR

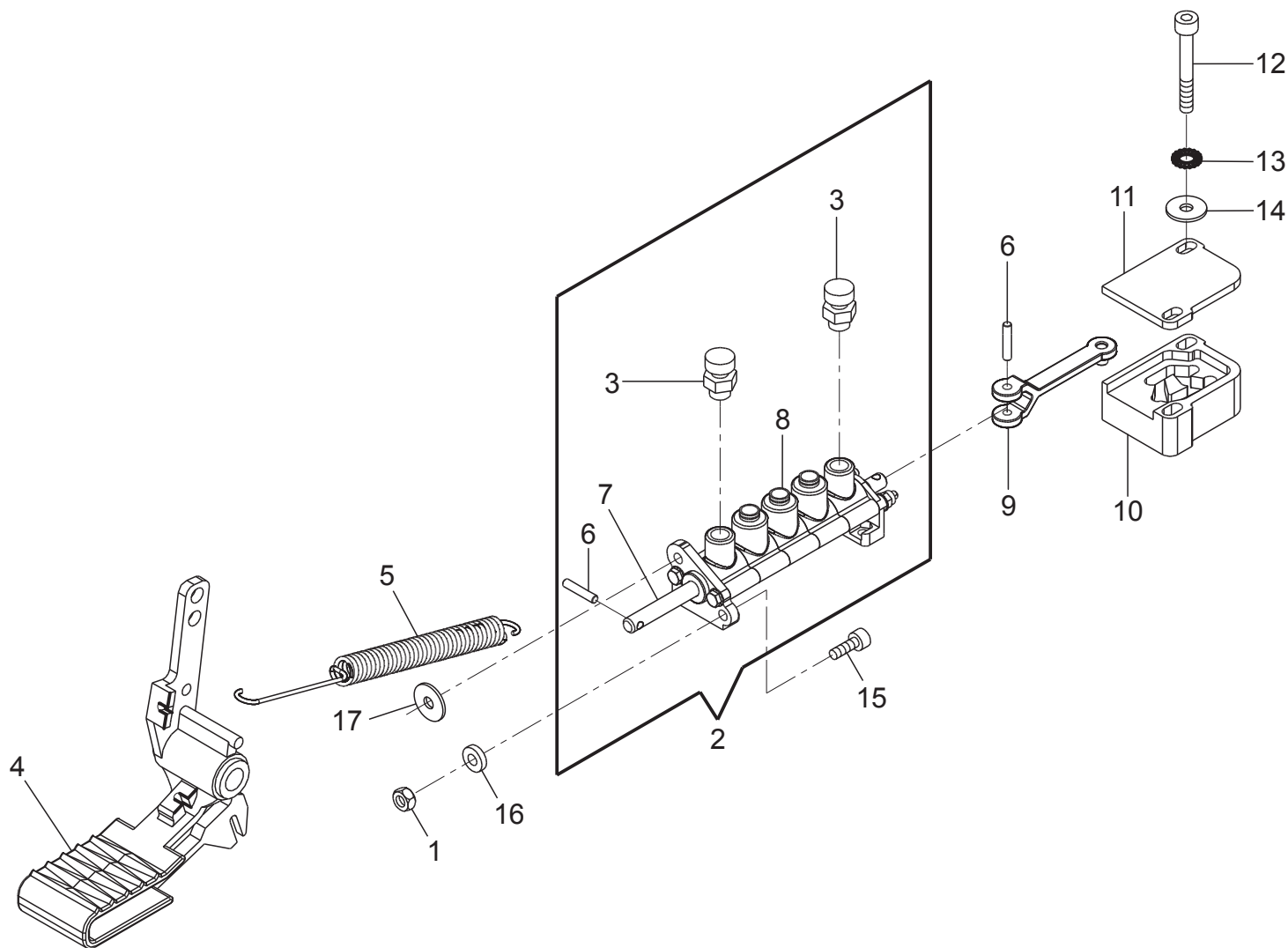
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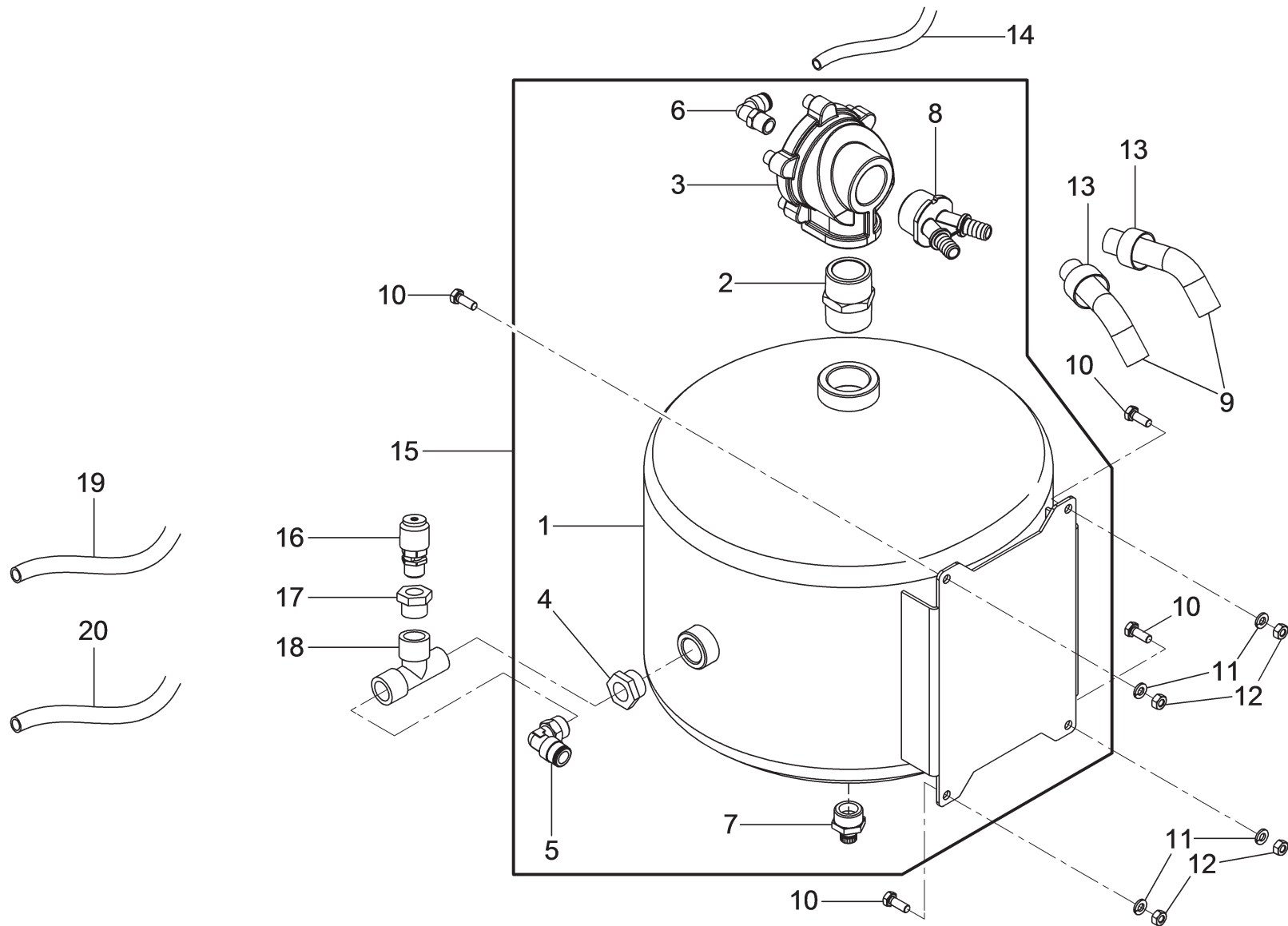
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•	•	•	•	•	•	•	•	•	•																				
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>MTG PEDALE ROTAZIONE MANDRINO</div> <div>MTG MANDREL ROTATION PEDAL</div> <div>MTG SPINDEL ROTATIONSPEDAL</div> <div>MTG PÉDALE DE ROTATION MANDRIN</div> <div>MTG PEDAL ROTACIÓN MANDRIL</div>										<div>Pag. 31 di 41</div>				
					<div>Tavola N°14A - Rev. 0</div>					<div>730094340</div>																			





GA2645										GA2645										GA2645									
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<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>MTG PEDALE ROTAZIONE MANDRINO MTG MANDREL ROTATION PEDAL MTG SPINDEL ROTATIONS PEDAL MTG PÉDALE DE ROTATION MANDRIN MTG PEDAL ROTACIÓN MANDRIL</div>										<div>Pag. 32 di 41</div>				
					Tavola N°14B - Rev. 0					730094320																			

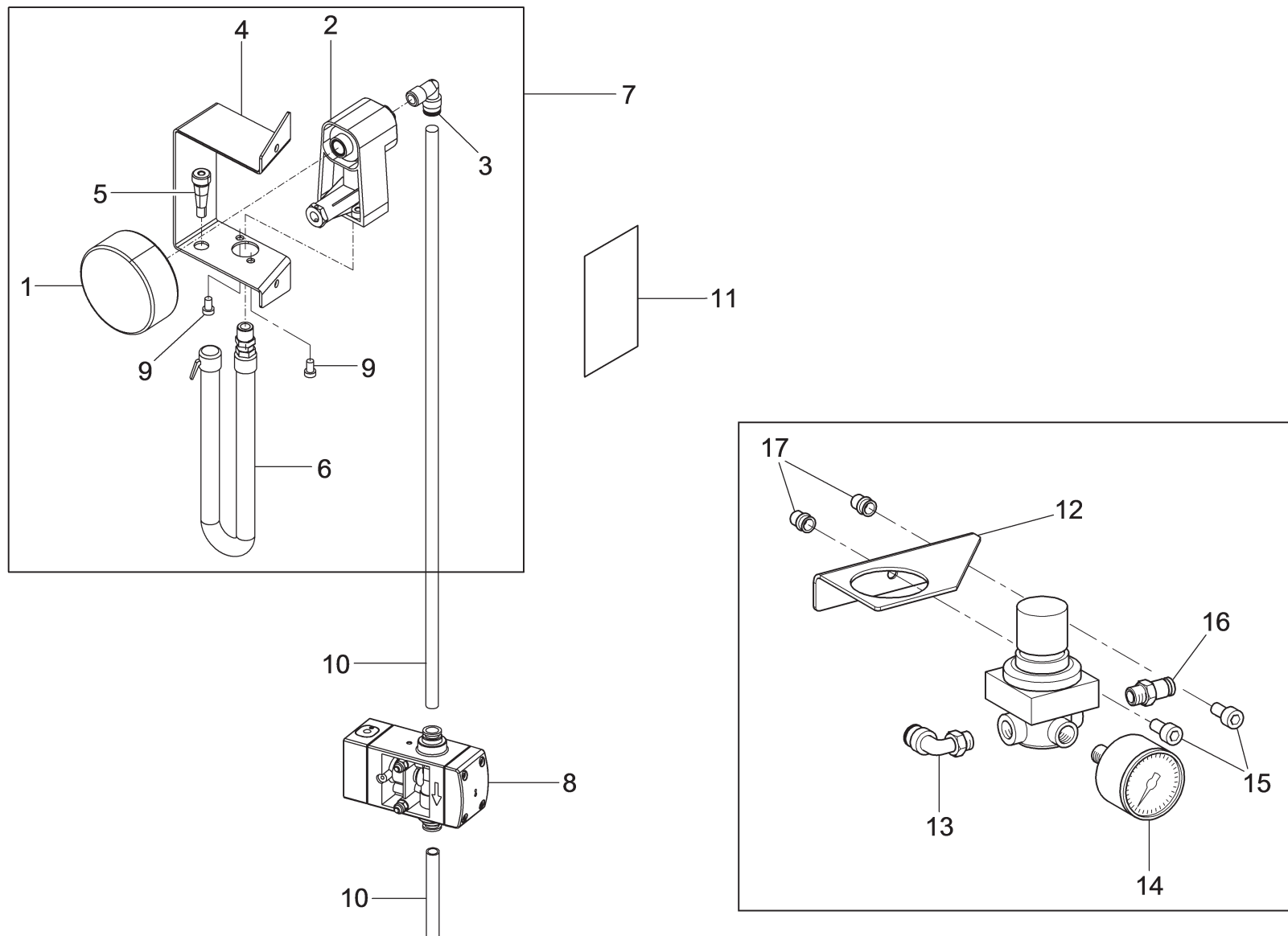



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•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										GRUPPO PEDALE PEDAL UNIT PEDALSATZ GROUPE PÉDAL GRUPO PEDAL										Pag. 33 di 41				
					Tavola N°15 - Rev. 0					140990431																			

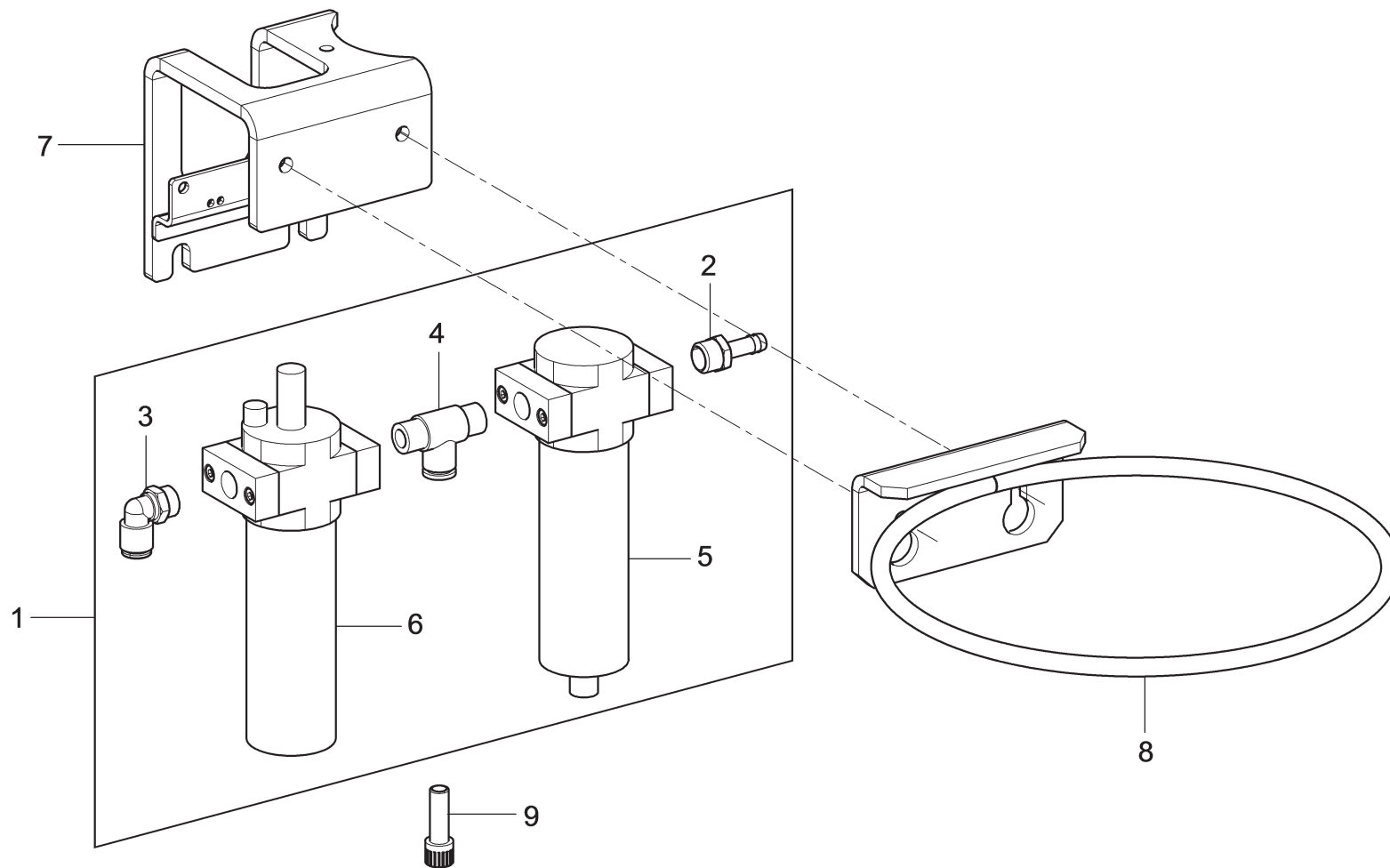



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					•	•	•	•							•	•	•	•							•	•	•	•	
<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIÈCES DETACHEES - LISTA DE PIEZAS</div>										<div>INSIEME SERBATOIO ARIA AIR RESERVOIR ASSEMBLY LUFTTANKSSATZ ASSEMBLAGE RÉSERVOIR AIR ENSAMBLADO TANQUE AIRE</div>										<div>Pag. 34 di 41</div>				
					Tavola N°16A - Rev. 0					730091910																			

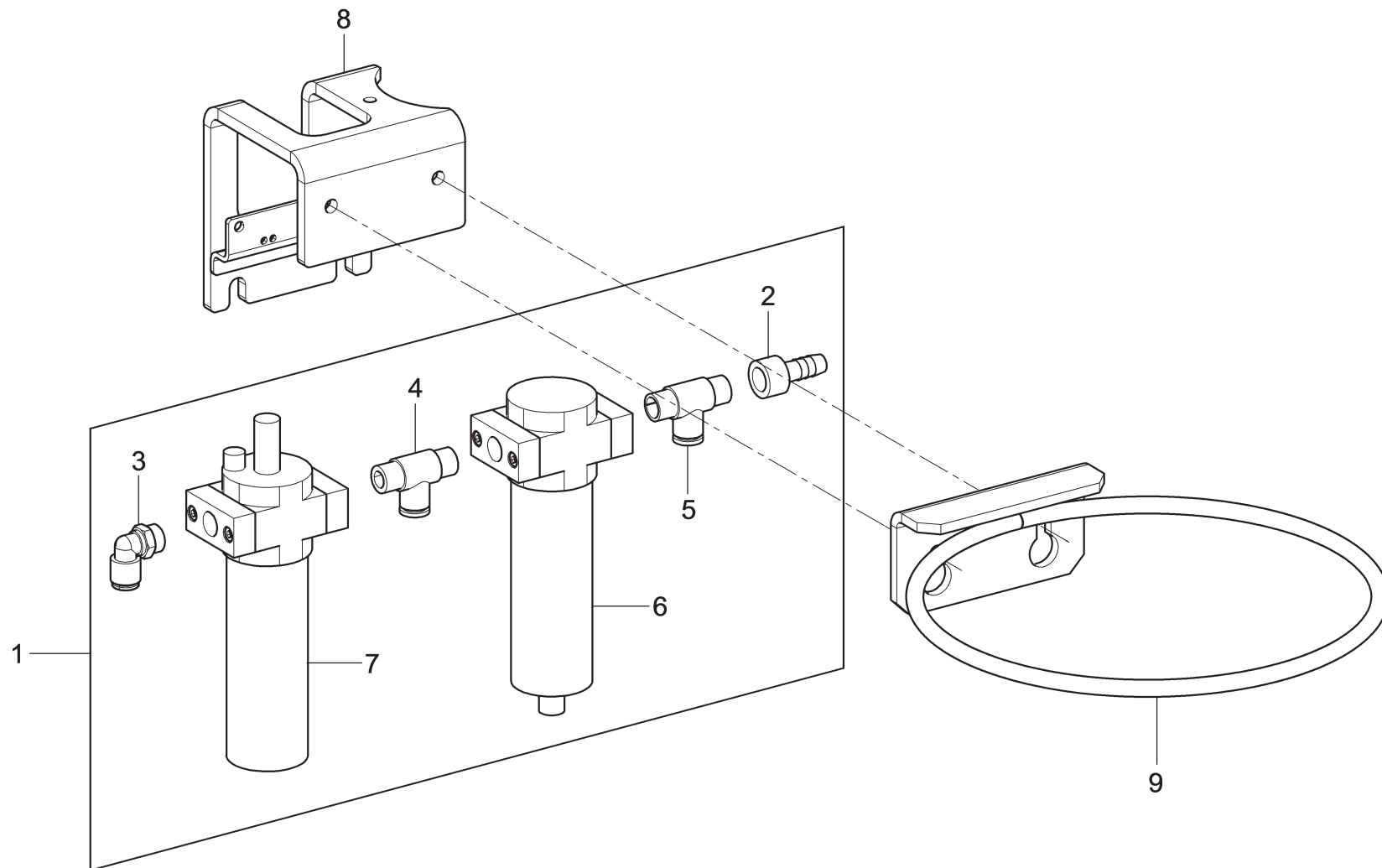
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									•										•										•
<div> TEST & SERVICE EQUIPMENT Space s.r.l.</div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>GRUPPO GONFIATUBELESS TUBELESS INFLATION UNIT AUFPUMPEN TUBELESS SATZ GROUPE GONFLAGE TUBELESS GRUPO INFLADO TUBELESS</div>										<div>Pag. 35 di 41</div>				
					Tavola N°16B - Rev. 0					140390861																			




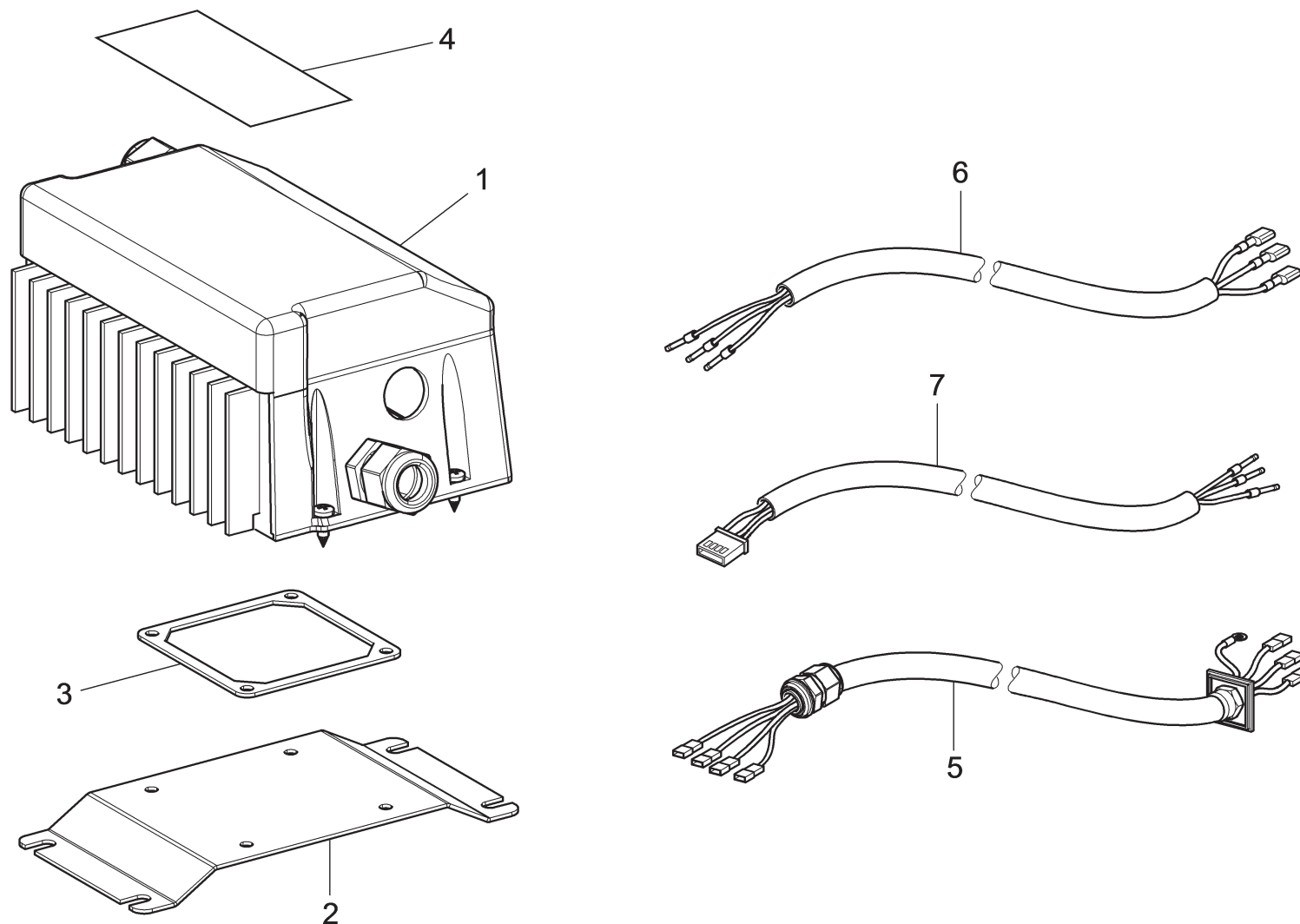
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					•	•	•	•	•						•	•	•	•	•						•	•	•	•	•
<div><div>TEST & SERVICE EQUIPMENT Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>GRUPPO GONFIAGGIO INFLATION UNIT AUFPUMPSATZ GROUPE GONFLAGE GRUPO INFLADO</div>										<div>Pag. 37 di 41</div>				
					Tavola N°18 - Rev. 0					140790205																			




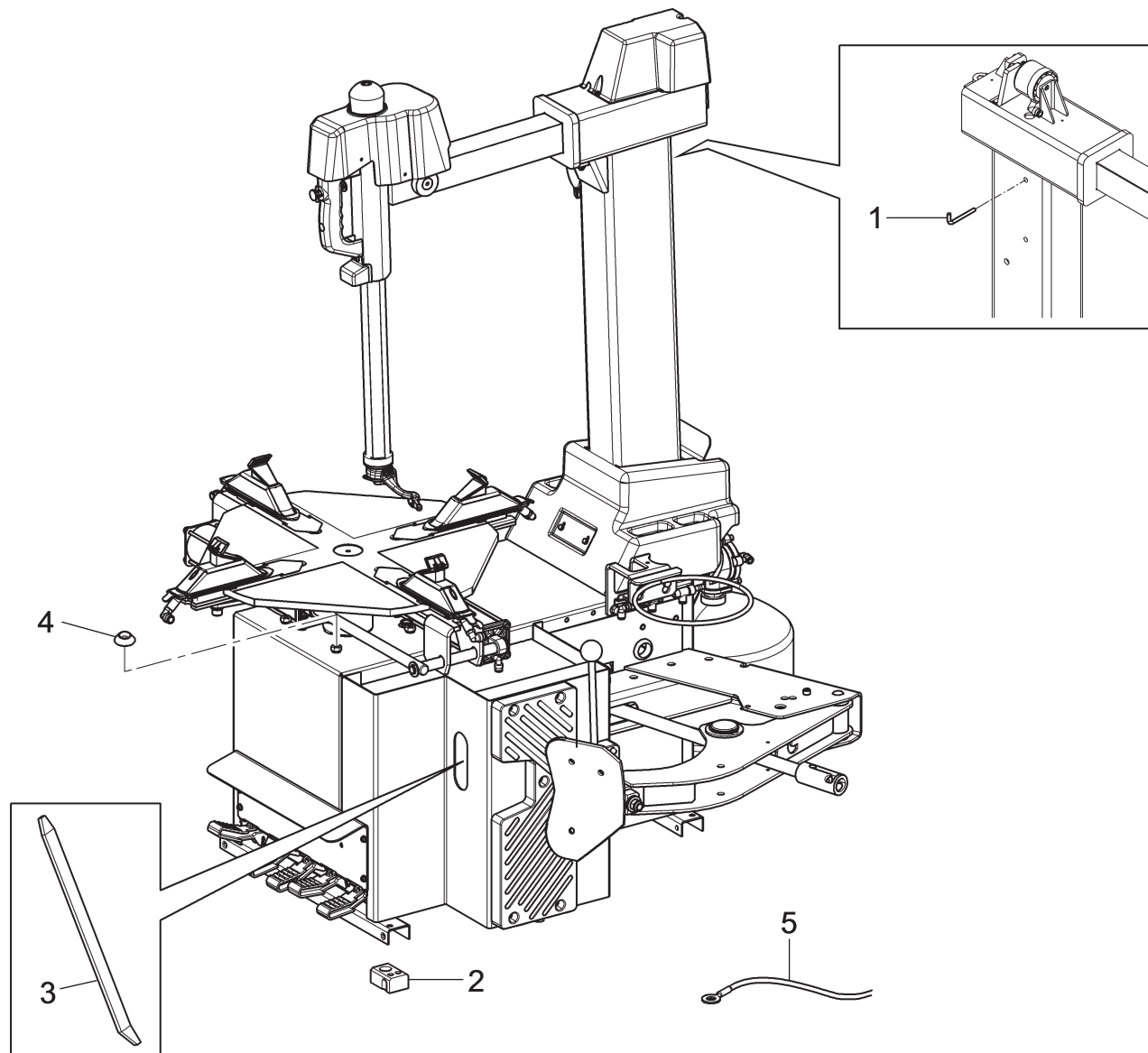
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•	•	•	•	•						•	•	•	•	•						•	•	•	•	•					
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					<div>LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE</div> <div>LISTE DES PIECES DETACHEES - LISTA DE PIEZAS</div>										<div>GRUPPO FILTRO + PORTAGRASSO</div> <div>FILTER UNIT + GREASE HOLDER RING</div> <div>FILTERSATZ + FETTRING</div> <div>GROUPE FILTRE + ANNEAU PORTE-GRAISSE</div> <div>GRUPO FILTRO + ANILLO PORTAGRASA</div>										<div>Pag. 38 di 41</div>				
					Tavola N°19A - Rev. 0					730090991																			




GA2645										GA2645										GA2645										
18	20	22	26	30	I.20	I.22	I.26	I.30	IT.30	D.18	D.20	D.22	D.26	D.30	ID.20	ID.22	ID.26	ID.30	ITD.30	V.18	V.20	V.22	V.26	V.30	IV.20	IV.22	IV.26	IV.30	ITV.30	
					•	•	•	•	•						•	•	•	•	•							•	•	•	•	•
<div><div>TEST & SERVICE EQUIPMENT</div><div>Space s.r.l.</div></div>					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										GRUPPO FILTRO RIDUTTORE DI PRESSIONE + PORTAGRASSO REDUCTION FILTER UNIT + GREASE HOLDER RING FILTERUNTERSETZENSATZ + FETTRING GROUPE FILTRE RÉDUCTEUR + ANNEAU PORTE-GRAISSE GRUPO FILTRO REDUCTOR + ANILLO PORTAGRASA										Pag. 39 di 41					
					Tavola N°19B - Rev. 0					730091071																				



GA2645										GA2645										GA2645									
18	20	22	26	30	I.20	I.22	I.26	I.30	IT.30	D.18	D.20	D.22	D.26	D.30	ID.20	ID.22	ID.26	ID.30	ITD.30	V.18	V.20	V.22	V.26	V.30	IV.20	IV.22	IV.26	IV.30	ITV.30
										•	•	•	•	•	•	•	•	•	•										
<div> TEST & SERVICE EQUIPMENT Space s.r.l.</div>					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										<div>GRUPPO PIASTRA CON INVERTER PLATE UNIT WITH INVERTER PLATTESATZ MIT FREQUENUMFORMER GROUPE PLAQUE AVEC VARIATEUR GRUPO PLACA CON INVERSOR</div>										Pag. 40 di 41				
					Tavola N°20 - Rev. 0					730094660																			



GA2645										GA2645										GA2645									
18	20	22	26	30	I.20	I.22	I.26	I.30	IT.30	D.18	D.20	D.22	D.26	D.30	ID.20	ID.22	ID.26	ID.30	ITD.30	V.18	V.20	V.22	V.26	V.30	IV.20	IV.22	IV.26	IV.30	ITV.30
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<div> TEST & SERVICE EQUIPMENT Space s.r.l.</div>					LISTA DEI COMPONENTI - LIST OF COMPONENTS - TEILELISTE LISTE DES PIECES DETACHEES - LISTA DE PIEZAS										DOTAZIONE EQUIPMENT AUSRÜSTUNG DOTATION DOTACIÓN										Pag. 41 di 41				
					Tavola N°21 - Rev. 0																								