



AUTOMATIC TYRE CHANGER CASTEX CASC505



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Instructions for use of the tyre assembly system.

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Warning

This manual is necessary for proper operation and maintenance of the device. Before starting work, it is imperative that you read this user manual. Please keep this manual carefully so that you can use it at any time if necessary.

1. Introduction

The mounting machine is designed for removing and putting on tires.

Note: Use only as intended. The manufacturer shall not be liable for damages resulting from the misuse of the device as specified in this manual.

2. General safety rules

The device may only be operated by a person with relevant experience who is authorised to use it. The manufacturer shall not be liable for damages resulting from changes in the device that have not been agreed with him. Such equipment is no longer covered by the warranty. If one of the components of the device is damaged, replace it according to the spare parts list. (Note: The warranty is valid for 12 months from the date of purchase of the product.) The manufacturer is not responsible for interference with the device that has not been agreed with him in advance, especially in the event of interference with electrical installations.

All work carried out on the electrical installation may be outsourced only to qualified personnel!

3. Technical data

Rim size (outer mounting) 10"-21" (outside)

Rim size (internal mount) 12"-24" (internal) (operating pressure 8-10 bar)

Max wheel diameter 1040 mm (41')

Max tyre width 355mm (14')

Max cut-off pressure

(at 1 Mpa air pressure) 2500Kg

Operating pressure 8-10 bar

Power 110V (1ph)/ 220V (1ph) / 380V (3ph)

Engine power 1.1KW (1.5Hp)/ 0.75KW (1Hp)

Maximum torque (table) 1078Nm (110Kg.m)

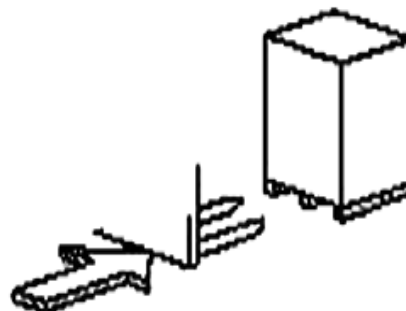
Total size 96X76X103cm

Noise level <75db

4. Transport

Transport only with a forklift. According to Figure 1

Fig. 1



5. Unpacking

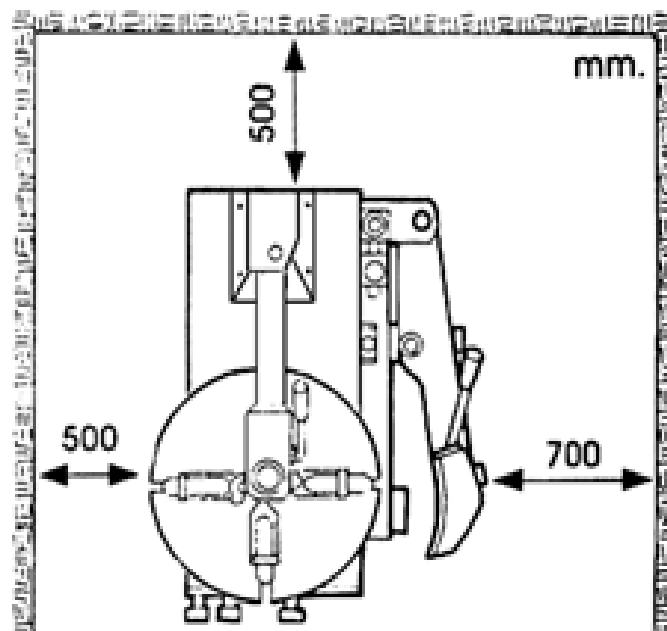
To unpack the machine, remove the steel strips first and remove the box. Check for missing parts. In cases of doubt, please contact the service before installing the device.

6. Workplace

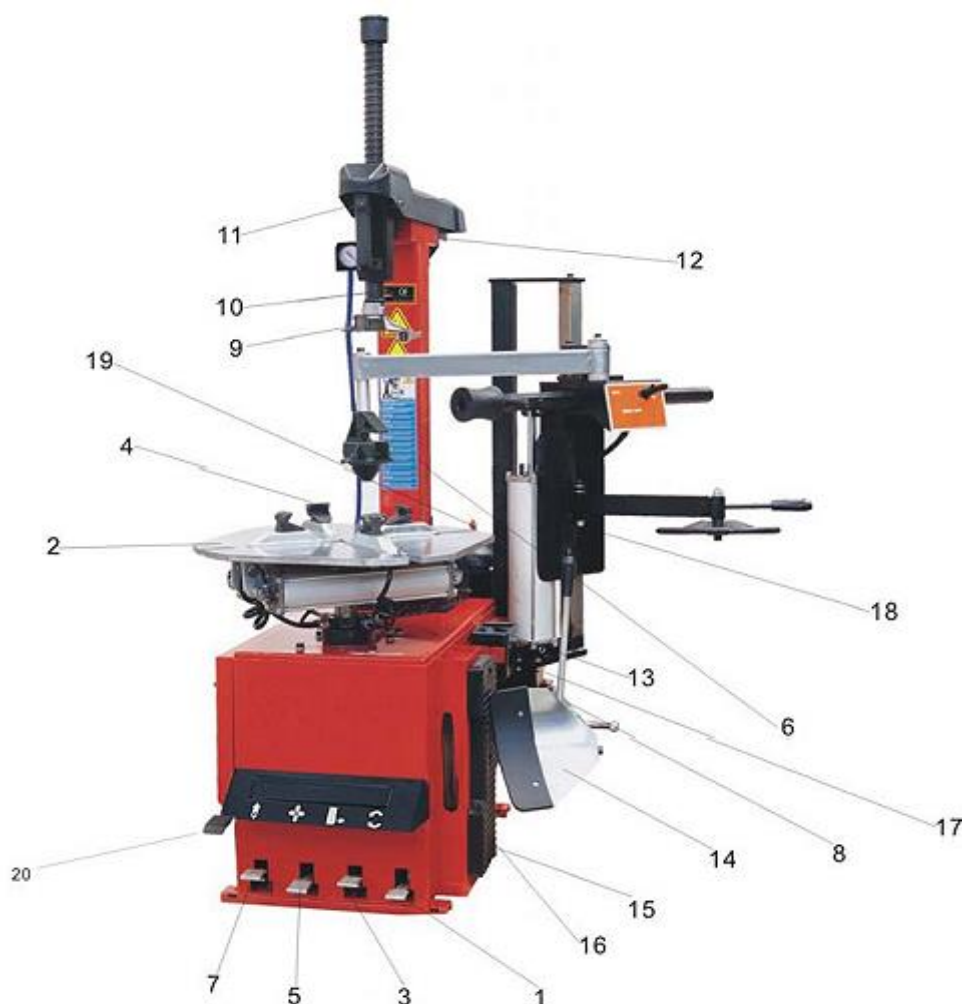
The selected workplace should meet health and safety requirements, have access to electrical power supply and air source as described in the manual. Adequate air circulation should be ensured in the room so that the machine can function smoothly. Position the device in the working position while retaining minimum wall spacing (see Figure 2). When installing the device in the open, place the device under a shed to protect against rain and sunlight.

Warning: The engine device must not be operated in an explosive atmosphere.

Fig. 2



7. Device Description



1	Rotation pedal	2	Stage
3	Break-off pedal	4	Table jaw
5	Brush clamp pedal	6	Column
7	Column tilt pedal	8	Arm of the carer
9	Head	10	Vertical frames
11	Clamping bracket	12	Horizontal arm
13	Box	14	The paw of the de-super
15	Rubber resistance cap	16	Fitter bucket
17	Sączek	18	Auxiliary arm 006 (model 505f)
19	Tank (optional)	20	Pumping pedal (optional)

Note: The 19.20 instrument from the table above used when using the tireless configuration device.

8. Installation method

Columns :

1). Prepare the necessary tool
2). Insert the column (1, Fig. 4) into the square opening of the device (2, Fig. 4), push the airline (3, Fig. 4) through the hole in the column.

3). Insert the tilt cap (13, Fig. 4) into the retaining cover (7, Fig. 4) screw in with a screw (14, Fig. 4) and a cap (gasket) (15, Fig. 4)

4). Insert the screw (17, Fig. 4) into the opening of the column and connect to the cylinder pin, attach with the same snap nut. (16, Fig. 4)

5) Unscrew the two screws (4, Fig. 4) of the left cover (6, Fig. 4), then open the cover. Connect the air hose (3, Fig. 4) from the column to the five-outlet valve connector.

6) Attach the plastic cover (9, Fig. 4) with two pins (10, Fig. 4).

7) Attach the rear plastic cover (11, Fig. 4) to the column with a screw (12, Fig. 4).

Fig. 4

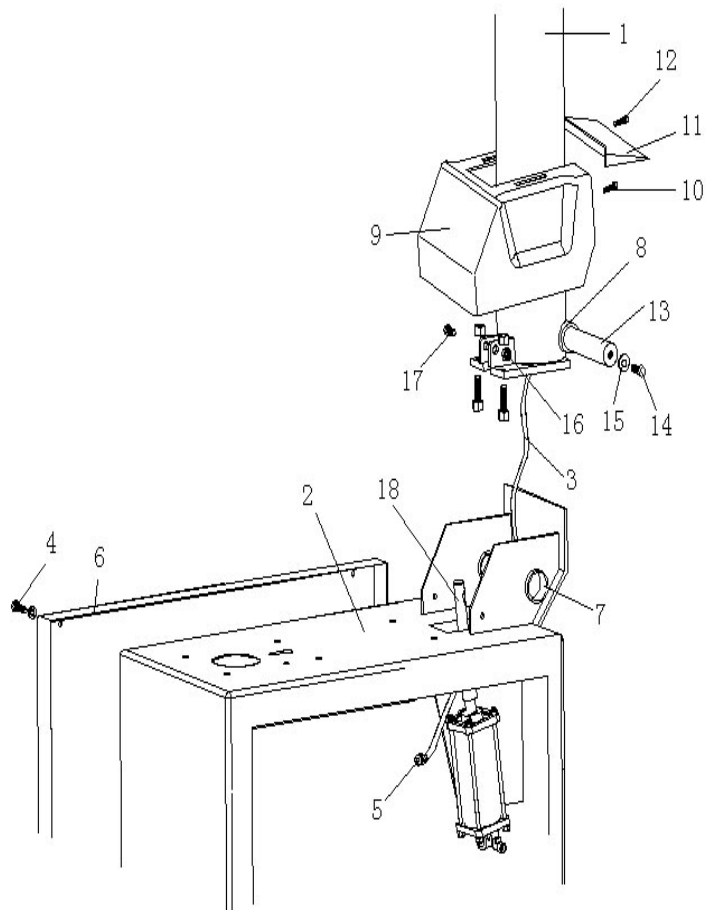


Fig. 5

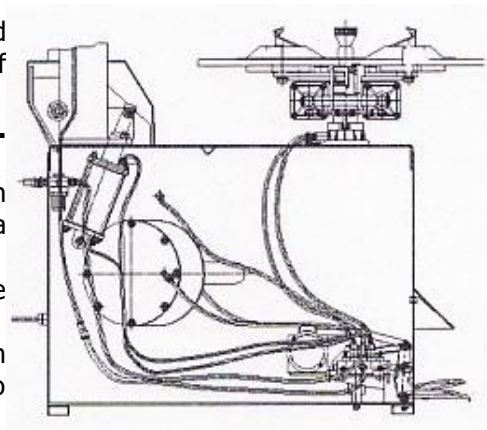
1) Release the pedal (5, Fig. 3) to avoid unexpected opening of the stagejaws, and to avoid injury as a result of an accident.

2) If necessary, connect the pumping gun to the cap. (Fig. 5)

3) Connect the installer to the compressed air network with an air hose with a hole diameter of 7-8 mm and a recommended air pressure of 8-10 bar.

4) The pressure must not exceed 10 bar, otherwise the device is not subject to warranty.

Note: Compressed air pressure must not exceed 10 bar. In the case of a pressure greater than 10 bar, it is asked to install a pressure control valve.



10. Electrical connector

Before attaching the device, make sure that the characteristics of the electrical installation meet the requirement of the device contained in the information plate.

Proper grounding is important. The electrical system shall be equipped with a safety switch with differential protection set to 30A.

Warning: The rated power of the mounting device is indicated on the back of the unit panel. Please check the voltage. All work carried out on the electrical installation may be outsourced only to qualified personnel.

The manufacturer is not responsible in case of non-compliance with the rules of conduct contained in the instructions.

Note:

Keep your hands and other parts of your body away from moving parts of the tire assembly.

Do not wear pendants, bracelets or loose clothes when using the device.

Obliterated or missing labels should be replaced immediately with new ones.

Keep the labels in the operator's sight.

11. How the device is used.

The control devices are shown in **Figure 3**, they consist of:

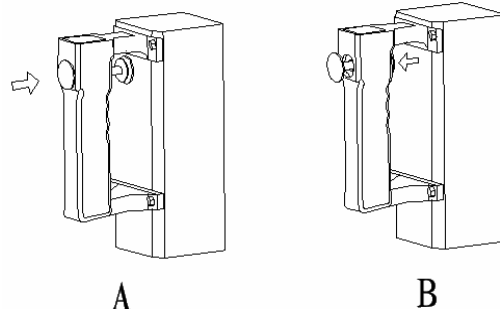
- clamping bracket (**11**), used to lock and unlock the vertical arm (**10**) and the horizontal arm(**12**). Lifting head 2-3 mm.
- Column tilt pedal (**7**), allowing you to tilt the column(**6**) backwards.
- jaw clamp pedal (**5**), allowing you to close and open four jaws (**4**) on the Stage.
- rim break pedal (**3**), used to control the paw of the carer (**14**)
- rotation pedal (**1**), allowing you to rotate theStage (**2**) clockwise and vice versa.

12. Preparing for use.

After folding the device, make sure it's working.

Fig. 6

- 1) Press the rotation pedal (**1, Fig. 3**), the Stage (**2, Fig. 3**) should start rotating clockwise. Release the pedal, the table should start rotating counterclockwise.
- 2) Lower the break arm with your hands (**8, Fig. 3**) and then press the pedal (**3, Fig. 3**) the break arm should close.
- 3) Press down on the pedal (**5, Fig. 3**) to the end to open the four jaws: press again, the jaws should be at rest: repeat the action several times, the jaws should close.
- 4) Press the pedal (**7, Fig. 3**), the column will tilt to the resting position. Repeat the action, the column returns to the working position.
- 5) Press the button on the handle (**11, Fig. 3**), horizontal arm(**12, Fig. 3**) and vertical arm(**10, Fig. 3**), will latch. Meanwhile, the head will automatically lift about 2-3mm from the rim edge: repeat the action, the horizontal arm (**12, Fig. 3**) and the vertical arm (**10, Fig. 3**) will be released.
- 6) Press the air meter trigger to release the air flow from the nozzle.



13. Instructions for use

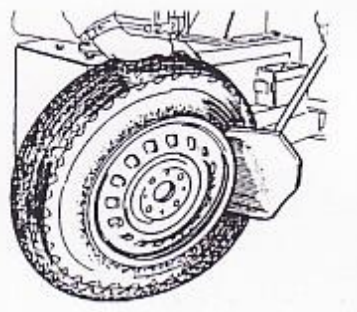
Fig. 7

Warning: Before starting work, make sure that all weights are removed from the rim.

13.1 Loosening of the tyre edging

Be careful when loosening the tyre edging. Pressing the pedal of the paw of the caresser, will trigger with great force the arm of the carer, which can threaten objects located within the device.

- 1) Drain the air completely from the tire, remove the safety valve cap;
- 2) Close the four jaws on the Stage to avoid problems during the operation. When the jaws are open they can injured the hands so it is forbidden to touch the circumcision of the tire when loosening it.
- 3) Open the rim break arm with your hands with movement outwards., place the tyre opposite the support pad (**15, Fig. 3**) Attach the shovel to the rim at about 10mm from its edge, as shown in Figure 7.
Note: Place the shovel in front of the rim.
- 4) Press the pedal(**3, Fig. 3**)to insert the shovel (**14**) between the rim and the tire. Repeat the above action around the tyre on both sides of the wheel until the tyre is completely separated.



13.2 Tyre crimping

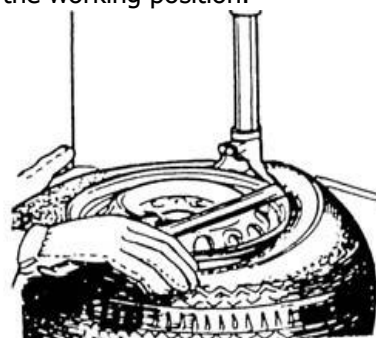
- 1) Apply weights to the wheel rim;
 - 2) Lubricate the tyre foot;
 - 3) Press the pedal (**7, Fig. 3**), the column (**6, Fig. 3**) will set to the starting position.
 - 4) Secure the wheel rim on the Stage from the inside or outside.
Under no circumstances should you put the cancer under the wheel when pressing the rim.
Place the tire in the middle of the Stage.
Make sure that the wheel is securely secured by four jaws.
- a- clamping of the rim from the outside (tires 10"-20" inch)
Set the jaw clamp pedal (**5, Fig. 3**) in the intermediate position, set four barks. Place the wheel on the Stage and press the jaw clamp pedal until the wheel clamps through the barks.
- b- clamping of the rim from the inside (tires 12"-24" millimeter)
Close the four barks first by pressing the jaw clamp pedal to the end(**5, Fig. 3**). Place the wheel on the Stage and press the pedal. The jaws will then open and clamp the rim.

13.3 Removing the tyre

- 1) Place the horizontal arm (**12, Fig. 3**) on the column in the working position.
Do not bring your hands closer to the rim while the clamping frame is in the working position to avoid crushing
- 2) Lower the vertical frame (**10, Fig. 3**) until the head(**9, Fig. 3**) comes into contact with the upper edge of the rim. Lock the vertical frame with the clamping bracket (**11, Fig. 3**). The head will automatically turn up to about 2 mm – 3 mm from the rim.
- 3) Using the mounting bucket(**16, Fig. 3**), introduced between the tire foot and the front part of the head(**9, Fig. 3**), move the foot over the wedge part of the head as shown in Figure 8.

Note: If there is a wind in the tyre, it is recommended to keep the valve 10 cm to the right of the head so as not to damage the wind.

Fig. 8



Holding the mounting bucket (16, Fig. 3) in the position according to Fig. 8 turn the Stage clockwise, constantly pressing the pedal (1, Fig. 3) until the tire completely dismounts the rim.

To avoid injury, keep your hands and body parts as far away from the table as possible when it rotates.

Note: The footer tends to slide off the head. To avoid this, you should first turn the table about 1~2 cm counterclockwise, holding the spoon in the position shown in Figure Fig. 8.

4) Remove any wind

5) Repeat step 3) on the other side of the wheel.

6) Press the pedal(7, Fig. 3)to flip the column (6, Fig. 3) to the resting position. Remove the tyre from the rim.

13.4 Tyre assembly

13.4.1 Checking the tyre and wheel rims.Fig. 9

Note: Make sure that the tyre is the same size as the wheel rim, this will prevent the tyre from breaking when it is pumped and fixed.

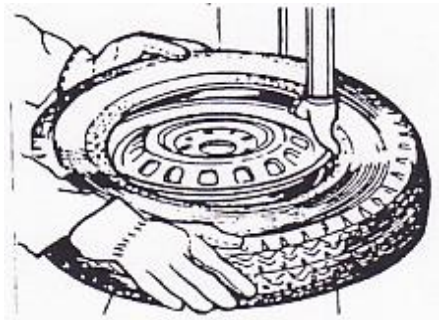
Make sure:

- The tyre is not defective. Do not put the defective tyre on the rim.

- Check that the rim is not dismided and dislocated.

Remember: Especially with aluminum rims, spraining often causes internal micro-chers that are not visible to the naked eye, but disqualify the rim and are a source of accident risk when pumping.

- The diameter of the tyre must correspond to the diameter of the rim.



Remember: The rim diameter is stamped on the rim, while the tyre diameter is indicated on the side of the tyre. Never put a tyre on the rim if the actual diameters cannot be determined.

13.4.2 Tyre assembly

1) Lubricate the edges of the tyre with the rim of the grease.

2) Tighten the rim as specified in the "Rim clamp" section

3) Position the horizontal arm (12, Fig. 3) to the working position. Do not touch the rim with your hands to avoid an accident.

4) Place the head with your hands (9, Fig. 3) above the rim edge. Press the horizontal arm (12, Fig. 3) and the vertical arm (10, Fig. 3) as described in the section "dismantling the tire" - step 2.

Remember: When working frequently with rims of the same diameter, you do not need to re-position the head.

Instead, move the horizontal arm together with the clamped vertical arm.

5) Guide the tire with your hands so that the foot passes under the previous part of the head and slides over the edge of the rear part of the head. (Fig. 9)

Note: If the tyre does not have a inner pole, position the rim so that the hole under the air valve is in a position at 90 degrees relative to the head.

Hold the rim edge of the tyre with your hands. Press the pedal (1, Fig. 3) to rotate the Stage clockwise. Continue until the full wheel rim sinks in

To avoid personal injury, keep your hands away from mobile parts of the device.

6) Wsadź dętkę

7) Repeat the above steps for the other side of the tyre. Press the pedal (7, Fig. 3) when the tyre is fully mounted, put the column to rest.

8) Press the pedal (5, Fig. 3), remove the tire from the Stage.

Remember: The Stage should rotate clockwise both when removing the tyre and putting it on. Rotating in the opposite direction is only useful to correct some error during operation.

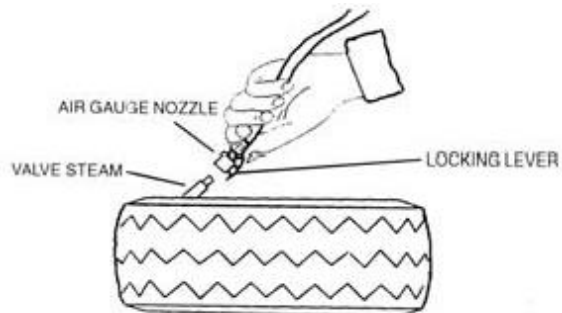
13.5. Pumping of the heatless wheel (without the use of a special device for pumping heatless tyres)

Important: Fig. 10

Tire filling steps are dangerous, be careful, follow the instructions.

A tyre burst can cause serious injury and even death to the operator.

The device has a decompression valve that prevents the pressure from exceeding the 3.5bar value in the assembly unit. However, there is still a risk of tyre bursting. Please do not underestimate the danger.



The wheel may be breaking if:

- 1) The dimensions of the tyre and rim are not the same.
- 2) The rim or tire is damaged.
- 3) During the pumping station, the permitted pressure was exceeded [tyre manufacturer's carna
- 4) I do not follow the instructions.

Order of pumping operations:

- 1) Unscrew the valve cap.
- 2) Connect the gun tip to the tire valve by moving the lever to the "UP" position. Make sure that the tip is completely adjacent to the valve.
- 3) Make sure that the diameters on the rim and tire match.
- 4) Make sure the rim and tire have been lubricated enough, Ew. Improve.
- 5) Inflate the tyre with short doses of compressed air. Simultaneously control the pressure on the gun pressure gauge. Do this particularly carefully with a wealing rim that protects the tyre foot.
- 6) Continue pumping, paying attention so as not to exceed the pressure specified by the manufacturer. When the correct pressure is reached, remove the tip from the valve and screw on the cap.

Remember:

Do not exceed the pressure indicated by the manufacturer during pumping.

When pumping, keep your hands and face as far away from the tire as possible.

This should only be done by a person trained for this purpose.

13.6 Pumping of heatless tyres (using a device for this type of tyre)

(1) The device for pumping heat-free tyres shall be used during rim application and pumping operations by means of a special pump.

2) Disconnect the device from the power source.

3) Before starting work, check the device.

- Press the pumping pedal, which is located under the left cover of the box(**position 1, Fig.**

26). The pump head should start blowing air.

- Press the pumping pedal downwards(**position 2, Fig. 26**) From the four clamping sliders should start to flow a strong airflow.

4) Rim fixing and pumping NOTE: THE WHEEL MAY

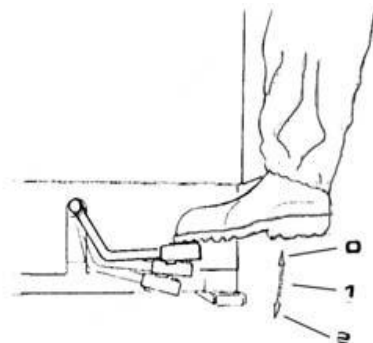
EXPLODE WHEN:

a. The rim diameter does not coincide with the tyre diameter.

b. The rim or tyre is damaged. Note: Before any installation, make sure that the assembly plant is disconnected from the power source.

c. If the pressure exceeds the suggested value when the rim is placed.

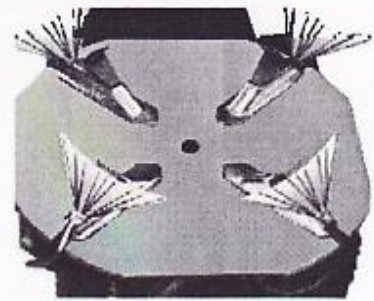
Fig. 26



- d. The tyre is pumped at a higher pressure than recommended by the manufacturer.
- e. The operator does not comply with the required safety standards.
- 5) Wind tires
- (a) . Unscrew the valve.

- B. Connect the tip to the tyre valve while making sure it is tightly coupled.
- c. Make sure that the diameters on the rim and tire match.
- d. Make sure that the rim and tire have been sufficiently lubricated, Ew. Improve
- That. Press the pedal halfway down to start pumping air.
- F. Often release the pumping pedal to check the pressure on the pressure gauge. Inflate the tyre with short doses until the desired pressure is obtained

Fig. 27



- 6) . Pumping of heatless tires.

Note: When pumping heatless tires, the wheel must be fixed from the rim sirotka.

- a) Unscreed the cap from the valve
- b) Attach the pump to the valve, making sure that it is properly connected.
- c) Check again that the rim diameter coincides with the diameter of the wheel.
- d) Check that the rim and tyre are sufficiently lubricated, or correct them.
- e) Press the pedal halfway down
- f) If the foot does not slip into the rim, lift the tyre with your hand until the upper foot rests against the rim, then press the pedal down.
- g) Release the tyre and lift the foot slightly on the pedal so that it can return to the intermediate position, pump the tire until the required pressure is reached.

Note::

- 1) Follow the instructions in the manual to avoid an accident.. Improper handling of the device can result in serious injury and even death of the device operator. Under no circumstances exceed the pressure limit of 3.5 bar when seating the rim and pumping the tire.
- 2) If a pressure greater than the above is required, remove the tyre from the mounting device and continue pumping the wheel in a specially designed cage. NEVER exceed the tyre manufacturer's pressure.
- 3) Keep your hands and other body parts away from the inflated tire.
- 4) The device can only be operated by qualified personnel.

14. Storage

If the appliance is not to be used for an extended period of time, disconnect it from the electrical supply and the air source. Lubricate all parts that require it: slider, slider hole, horizontal arm slot. Empty the box of oil and water, cover with a plastic cover to avoid contamination of the device.

11

15. Maintenance

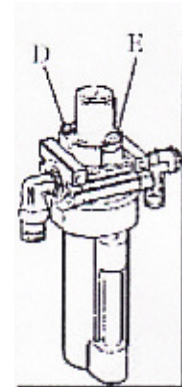
Note: All maintenance may only be carried out by qualified personnel after the device plug has been previously disconnected from the mains.

- 1) Disconnect the device from the mains.

- 2) Disconnect the air source.

Follow the instructions:

Fig. 11



-Clean the machine regularly after each use. Clean the Stage with detergent at least once a week and lubricate the sliders and jaws.

- Empty the air filter from the water once a day to ensure that the cylinder is working.

At least once a month, check the oil level in the hydraulic unit. If necessary, replenish the oil condition using: SAE30#, press the pedal 5-6 times to lock the tire, check that the oil in the hydraulic unit flows freely, press down twice each time, lower the oil drop, tighten the screw (E) regulating the oil injection with a screwdriver.

To extend the life of the device, maintain it systematically by following the instructions, neglect of the device can lead to problems with its operation and damage to the body of the operator and people nearby.

Warning: Before the above steps, disconnect the device from the mains and the air source, press the rim break pedal 3~4 times to release compressed air from the device. (Fig.11)

Damaged parts should be replaced by qualified personnel with spare parts proposed by the manufacturer

Note: After the first 20 days of use, tighten the jaws with clamping screws B. (**Fig. 12**)

Note: If you lose power, check that the strap is clamped. To do this, remove the left part of the housing by unscrewing the screws. Tighten the strap with adjustable screws located on the motor booster. (**Fig. 13**)

Warning: Disconnect the device from the mains and air source.

Note: To maintain the reliability of the jaws and rim break arm, follow the instructions.

1.Remove the left side of the cover by unscrewing the screws;

2.Loosen the valve silencers (a) which are part of the jaw clamping pedal and the rim break pedal(**Fig. 14**)

3.Clean the silencer with compressed air and replace it with the original silencer from the spare parts list if necessary.

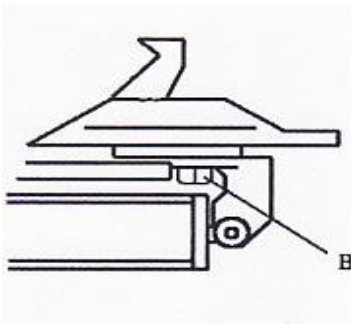


Fig. 12

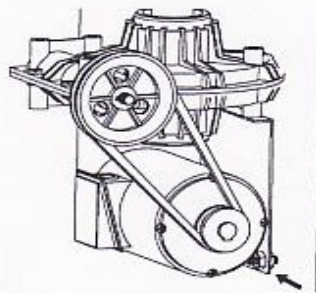


Fig.13



Fig.14

16. Fault detection

Vulnerability	Cause	Help
The Stage rotates only in the one page or not at all.	Faulty switch	Replace
	Damaged belt	Replace
	Engine malfunction	Check cables or cables: Replace the engine if it is damaged.
The problem with lowering and lifting the jaws, jamming on the Stage.	Leakage from the air system	Check all parts of the air system
	Cylinder not working	Replace the cylinder piston.
	Worn jaws	Replace jaws
	Destroyed cylinder handle washers	Replace
The head touches the rim during the operation.	The clamping plate is incorrectly fitted or is inadequate	Replace or adjust.
	Loose screws of the handle, the plate must not tighten	Tighten the screws, replace the plate.
The rim deferment arm and clamping jaw do not return to their initial position.	Faulty pedal spring	Replace
Tilting the rim works faulty.	Clogged silencer .	Clean or replace.
	Faulty rim dust collector cylinder gasket.	Replace

Vulnerability	The switch holder is not movable
Cause	1) It is not connected to an air source 2) Damage to the air duct prevents free air flow 3) The valve has been damaged
Help	1) Connect the air source while maintaining the required pressure; 2) Check the air edivion, replace the damaged wire and the joints; 3) Contact the service.

**Dear Customer!**

CASTEX thanks you and congratulates you on your purchase. Please note that a warranty of 12 months from the date of purchase is provided for the product you purchased. This Warranty Card is only valid with the seller's proof of sale or the seller's signature and stamp. As part of the warranty period, all defects will be reassessed free of charge, provided that they are caused by manufacturing or technical defects of the product and when the device has been used for its intended purpose and with the requirements of the user manual. Please read the detailed warranty conditions.

This warranty does not exclude or limit the buyer's rights arising from the non-conformity of the goods with the contract.

Warranty card number

FILLED BY SELLER

Date of sale of the product (in the absence of an entry, a proof of sale must be attached)
Product name and symbol
Customer*) Customer Address
Seller's stamp and signature (in the absence of a stamp and signature, the Guarantor, i.e. CASTEX, is considered to be the Seller Anna Bednarz on the basis of proof of sale)
Customer Signature

Please note that without completing all of the above points, the warranty card is void!

Service Repairs		
Lp.	Description of the repair	Date, signature and stamp

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****) The owner of the equipment making claims under the guarantee is obliged to provide personal data in accordance with Art. 23 paragraph 1 point.3 of the Personal Data Protection Act of 29.07.1997, as amended. D***

size I

COLLECTION PROTOCOL

I hereby confirm the reception of the device according to the following specifications on.....

The received device is complete and in accordance with the order.

Order specification		Pieces
1		

2		
3		
4		
5		

Date Stamp and signature of the buyer

.....

Receipt for Guarantor of receipt of guarantee card NO ;

Warranty Card No-..... Serial No. -.....

Name, Surname, buyer's address, phone number

Date of sale

I confirm receipt of the GOODS and the warranty card, which I have read and accepted the warranty conditions:

.....

buyer Date and legible signature of the

For distance purchases, this voucher must be returned to the guarantor within 14 days from the date of purchase of the device.

Warranty Terms

1. CASTEX hereinafter referred to as the Guarantor provides a guarantee for the smooth operation of the above-called equipment within 12 months from the date of purchase. This guarantee covers:

- a) Spare parts
 - b) Design elements of the device
 - c) Arrival of an authorized CASTEX service technician to correct defects.
2. The warranty for the device, sold outside the RP, covers only spare parts, unless otherwise specified.
3. The warranty does not cover defects caused by:
- a) wear, abuse, overload, improper installation or failure to carry out regular maintenance.
 - b) customer's negligence or conduct inconsistent with the instructions in the user's manual.
 - c) failure to comply with the operating instructions, failure to comply with the frequency of maintenance work specified by the manufacturer, poor power source (rotating field, rated voltage, etc.) or improper use (overload, installation outside the closed building, technical changes) or improper installation.
 - d) Damage to the equipment due to fire, flood, lightning or other natural disasters, wars, civil unrest, accidents, power grid surges, improper electrical connections, mechanical damage to varnish, corrosion caused by pressurised washing or discontinuation of maintenance or lack of purification.
4. CASTEX is not responsible for damage to the equipment during transport (in case the transport is not outsourced by CASTEX). The Recipient is obliged to check the visual condition of the device and in case of defects the Recipient is obliged to immediately report this fact to CASTEX or the Distributor. Please write down the damage report with the Courier delivering the device at the time of delivery.
5. In the event of damage to the equipment during the warranty period, the Guarantor will provide a free repair or replacement of the damaged parts after checking the validity of the complaint. The repair time shall not exceed 30 days from the date of written or e-mail notification of the failure.
6. Specialist repairs requiring components to be brought in from abroad: in this case, the repair time can be extended by another 30 working days. The method of repair is determined by the Guarantor.
7. Devices that require adjustment or maintenance from time to time, as described in the device manual, may be performed by the User, unless otherwise stated in the manual.
8. Any damage caused by the operation and maintenance of a device not in accordance with the instructions, improper transport, operation of the device in climatic conditions not in accordance with the instructions or other causes caused by the User may be repaired at his expense.

9. In the event of an unjustified complaint, the User shall bear the costs incurred by the Guarantor, which consist of: commuting, the cost of technical inspection, the cost of the listed components, the cost of round-trip courier transport.
10. The device owner is responsible for all maintenance activities of the device.
11. Devices fitted with electronic components shall be stored as well as used in rooms where the air temperature is between + 8 and 25 degrees C.
12. CASTEX reserves the right to refuse free service in the absence of a warranty card.
13. In case of purchase of the device/equipment at a distance, the Buyer undertakes to send back to the Seller/Guarantor page III - the collection protocol and receipts for the Guarantor. In case of non-receipt of the protocol and receipt, the Guarantor may refuse to provide a free service.
14. Any complaint must first be submitted to serwis@castex.pl or via [the https://castex.pl/formularz-reklamacyjny/](https://castex.pl/formularz-reklamacyjny/) website to contact you. The application must include data such as the type of device, model, applicant's details, date of purchase and FV number, and the address of the place where the device is located.