

# CLVA5000 Renit Vario

1. Counter Balance

2. Tool Holder

3. Rivet-gun.

4. Control unit.

5. Setting table.

6. Height Adjustment

7. Hydraulic pump.

8. Foot pedal.



Technical information:

3 x 480v /50/60Hz

Max Fuse: 16A

Pump: 3,2 [Cm3]

Rotation electric motor: 1400[ O/min]

Total power theory:0,15 [KW]

# Control Unit

- 9. Tool change. ←

- 10. Emergency stop. ←

- 11. Start. ←

- 12. Stop. ←



# CLVA5000 Renit Vario

## **Fitting and installation Instructions:**

This machine is tested and ready to use.

When connection to power supply **Check direction of rotation of the motor.** The pump can be damaged if the motor runs in the wrong direction for more than 15 seconds.

A motor circuit breaker is built in to the control box, along with a timer for automatic stop after 30 seconds (adjustable).

## **Maintenance:**

Initially, change the hydraulic oil after the first 25 hours of operation. Subsequently change every 500 hours or at least once a year.

The type of hydraulic oil required is **HD 32 or local equivalent.** The oil level should be approx. 5cm below the cap (equivalent to 7 liter's)

# Rivet removal from brake lining

Place the brake shoe on the turntable

The rivet-gun hanger should be fitted with appropriate rivet remover for the rivets in the brake shoes, and hung so that it is at right-angled to the brake shoes. This is done by moving the counter balance to the correct position

## **Important:**

It is very important that a constant right-angled pressure is applied against the hole in the center of the brake lining in center of the rivet head.

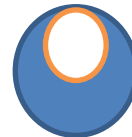
Otherwise, there is a risk of damaging the rivet hole in the brake shoe lining.

Never set the pressure higher than is sufficient for the punch to just push the out the rivet.

Correct removal of the rivet.



Incorrect removal of the rivet.



# Riveting

Insert all rivets in the lining of the brake shoe.

Place the brake shoes precisely between the two pins on the setting table with the lining against the pins

Press the adjuster against the brake shoe to provide a good fit. Tighten adjuster

The pins and adjustment are now pressing the lining and brake shoes firmly together.

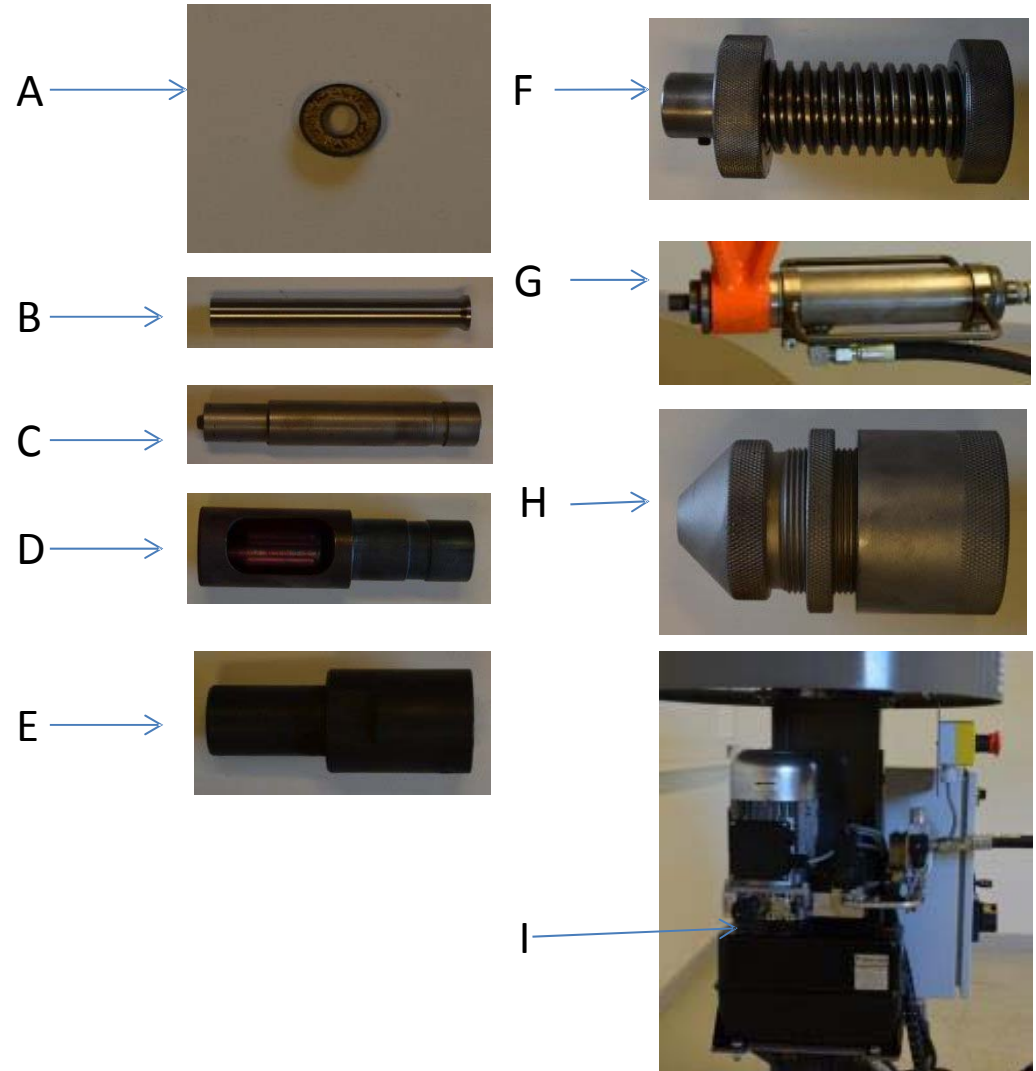
Before riveting, adjust the rivet-gun hanger to a correct position ensure the rivet gun is only operated at right-angles on the rivet head.

Rivet the brake shoes by carefully locating the gun in line with the shank of the rivet and pressing the foot pedal to operate the mechanism

## **Important:**

Always follow the manufacturer's recommendations for the rivet pressure, and the correct rivet punch.

# From riveting to de-riveting and from de-riveting to riveting



# From riveting to de-riveting

Disconnect the rivet dowel by loosening the nut and then the screw in F.

disconnect the backstop from the piston rod **G**, turn the knob on the control cabinet for tool change, press start on the control cabinet and then activates the piston rod by pressing the foot pedal and the piston rod is now moving forward and remain in this position.

Disassembly of the backstop **E** using two 19mm spanners

## **Fitting of tool for de-riveting.**

Mount the correct punch **B** and dowel disc **A** on the piston rod **G** and dowel bush **H** on to the Cylinder, turn the knob on the control cabinet for tool change back to base, press the start on control cabinet and then press the foot pedal and the piston rod will move back to base.

Mount the correct bush for extraction **D** into **F** and tighten the screw in **F** then adjust **F** by loosening and then tightening the nuts.

## **Remember to check the pressure.**

Press start on the control cabinet press the foot pedal and the piston rod will move forward, keep pressing the foot pedal and then look at the manometer to see what the pressure is, if you want to adjust the pressure turn the (**I – see photo above**) on the pump, turn left for lower pressure turn right for higher pressure.

# From de-riveting to riveting

Disconnect the bush for extraction **D** by loosening the nut and then the screw in **F**

Disconnect the dowel bush **H** on the cylinder and then turn the knob for tool change on the control panel. press start on the control panel and then press the foot pedal and the piston rod will move forward and remain in this position then disconnect the punch **B** from the piston rod **G** by using two 19mm spanners.

Mount the correct back stop **E** on the piston rod by using two 19mm spanners, turn the knob on the control panel back to base, press the start on the control panel and then press the foot pedal and the piston rod will move back to base.

Mount the correct riveting dowel into **F** and then tighten the screw in **F**, adjust **F** by loosening and then tightening the nuts.

## **Remember to check the pressure.**

Press start on the control cabinet press the foot pedal and the piston rod will move forward, keep pressing the foot pedal and then look at the manometer to see what the pressure is, if you want to adjust the pressure turn the **(I- see photo above)** on the pump, turn left for lower pressure turn right for higher pressure.



# Renit Vario # 5 and Tools

Dowel disc



Punch



Flat riveting dowel



8 mm riveting dowel



6 mm riveting dowel



Backstop 11,5 mm



Backstop 15 mm



Bush for extraction of rivets 13 mm



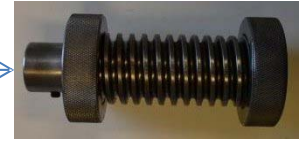
Bush for extraction of rivets 15 mm



Dowel bush



Tools holder for riveting dowel and bush



Counter balance:



Free-hanging rivet gun:



Control unit



Complete pump and engine:



Cylinder 40mm:



Cylinder 50mm:



adjustable table



# Safety and warranty

2 years warranty on the CLVA5000 Renit Vario include:  
Rivet-gun, Pump and motor, adjustment table and hydraulic cylinder.

- CLVA5000 Renit Vario may only be operated by trained operators.
- Always use work gloves and safety glasses when using this machine.
- The CLVA500 Renit Vario may only be used to riveting and de-riveting of brake shoes.
- Any abuse of CLVA5000 Renit Vario where it not operated correctly or used for anything other than de-riveting or riveting of brake shoes will invalidate this warrantee and may possibly damage cause damage to the machine or cause personal injury.

This warrantee only applies to the original purchaser of the machine.

Further information can be obtained by visiting the Clevtec web site at

[www.clevtec.com](http://www.clevtec.com) and clicking through to *products->machines and tooling*

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