

# Operating instructions



## Rothewald Chain Breaker and Riveter Professional, Order no. 10009883

Dear Customer,

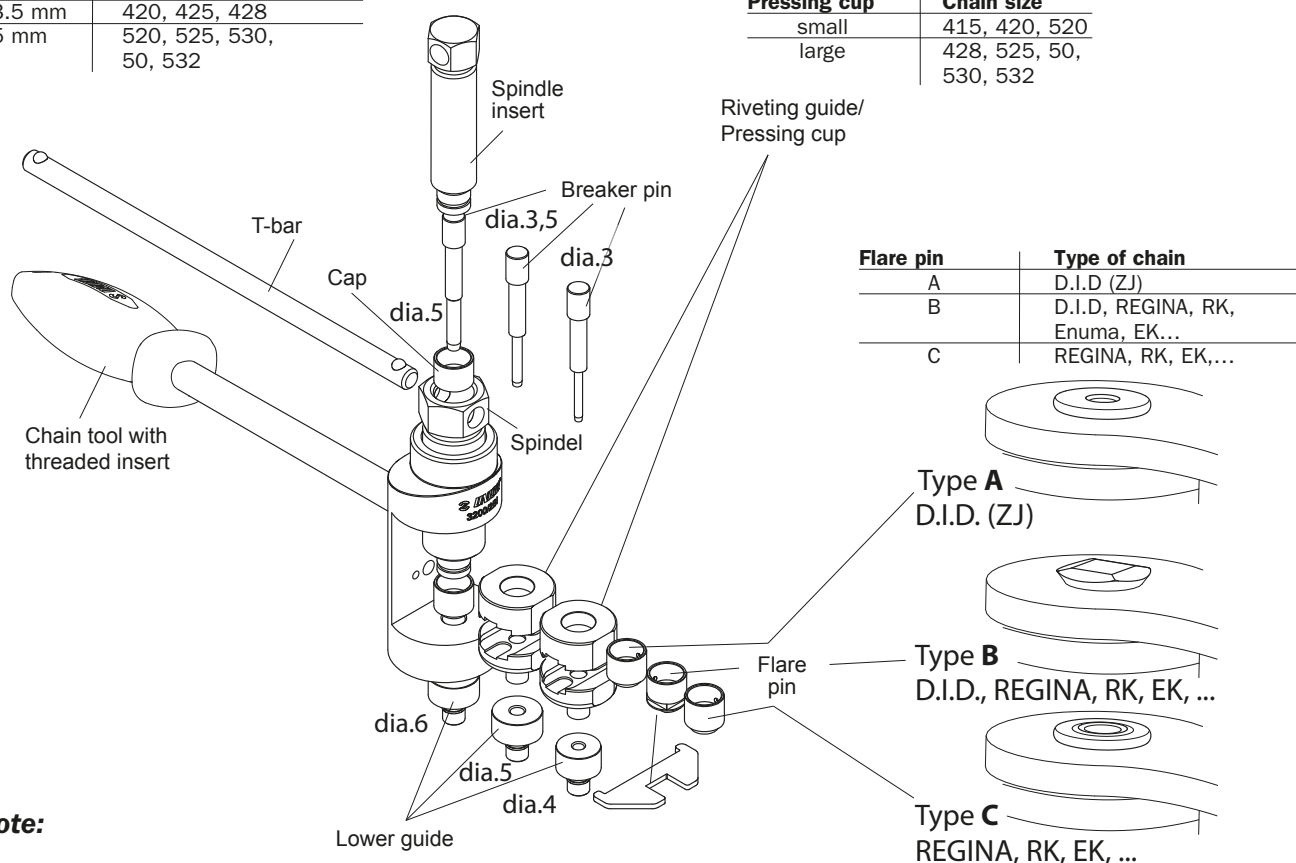
We are very pleased that you have chosen to purchase this product. Please follow these instructions to ensure that you use the tool correctly.

The Louis Team wishes you lots of fun.

This high-quality chain tool is made of chrome-vanadium steel and is designed for breaking and riveting motorcycle chains from various brand manufacturers. Suitable for chains with the following dimensions from the manufacturers DID, Regina, RK, Enuma, EK:

Breaker pin	Chain size
dia. 3 mm	415 or smaller
dia. 3.5 mm	420, 425, 428
dia. 5 mm	520, 525, 530, 50, 532

Riveting guide/ Pressing cup	Chain size
small	415, 420, 520
large	428, 525, 50, 530, 532



### Please note:

Before using the tool, please read these instructions carefully. Remember that an incorrectly riveted master link (connecting link) may break when the motorcycle is being ridden, and could cause a serious accident. If you have any doubt whatsoever about your technical abilities, take your motorcycle to a professional mechanic to have the chain riveted. Ensure that the motorcycle is completely stable before beginning work on the chain. If it falls over, it may cause serious injury and also damage the motorcycle. Wear protective goggles when using the tool.

If you have any questions about the product or these instructions, please contact our Technical Centre before installation or first use by fax on 00 49 (0)40 734 193-58, or by e-mail at [technikcenter@louis.de](mailto:technikcenter@louis.de). We will be pleased to provide prompt assistance. This is the best way to ensure that your product is installed properly and used correctly.

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### Breaking a chain:

To avoid putting unnecessary strain on the tool, we recommend using an angle grinder to grind off the rivet heads of the chain link that you are going to remove before you press out the rivets with the chain tool.

**1.** Select the correct diameter of breaker pin for the size of the rivet. Insert the breaker pin into the spindle insert from underneath and fit the cap over it. Screw the spindle insert with fitted breaker pin into the spindle by a few turns. Fit the cap with the collar to the end of the spindle. Select the correct size of lower guide according to the size of the rivet, and fit the lower guide into the head of the chain tool as a counter-support for the chain. Insert the T-bar into the spindle.

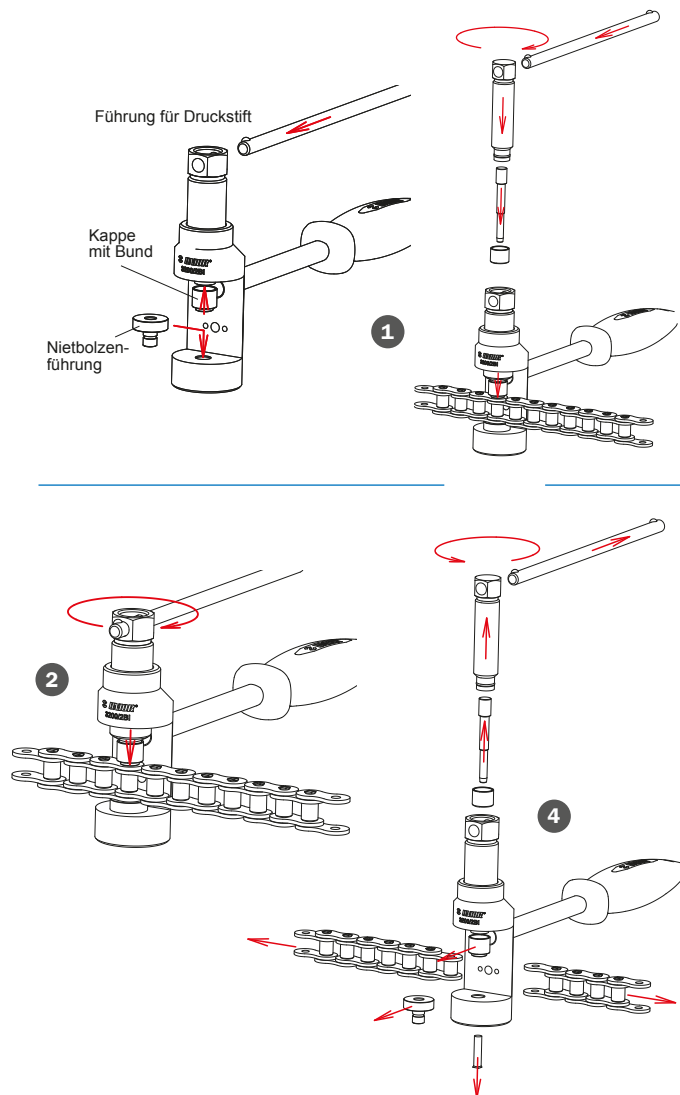
**2.** Rotate the rear wheel until the chain link you are going to remove is in the middle of the bottom chain run for easy access. Remove the chain guard if it is getting in the way. Insert the chain link you wish to remove into the chain tool so that one of the rivets that you are going to press out is precisely located in the rivet guide. Clamp the link securely in this position with the spindle. Turn the breaker pin, using the spindle insert, until it is resting against the rivet. Grip the handle of the tool firmly with one hand and, with your other hand, turn the spindle insert to slowly force the rivet out of the chain link.

If you are unable to do this with the T-bar, you can instead attach a long 17 mm box-end wrench to the spindle insert so as to apply more force. If you feel a solid resistance, you should immediately check that the chain link is correctly seated in the tool so that the rivet can actually be pressed out of the back of the chain link.

**3.** Remove the tool from the chain. (Not shown)

**4.** Repeat the process on the second rivet.

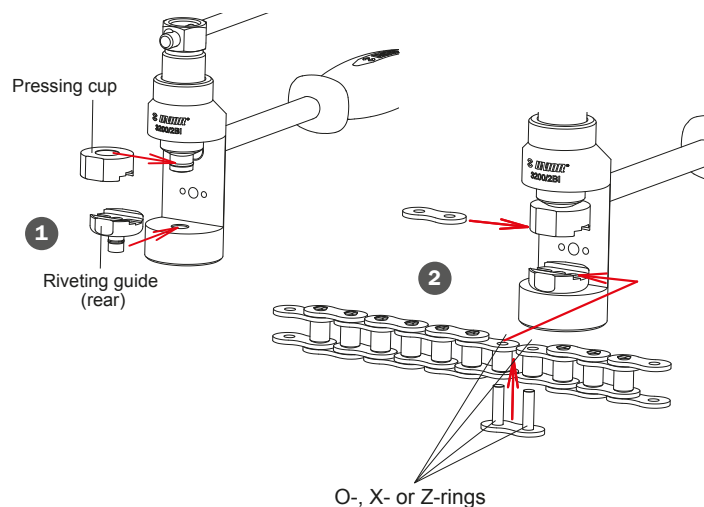
If you are going to rivet a new chain, you need to remove the lower guide, cap with collar and also the spindle insert with breaker pin from the tool.



### Riveting a chain:

**1.** Prepare the tool as follows. Choose the correct riveting guide for the size of chain and insert the riveting guide, with the neck facing downwards, into the head of the tool as a counter-support for the chain. Select the matching pressing cup and fit it to the end of the spindle.

**2.** Place the chain on the motorcycle's front and rear sprockets, without any tension, so that the open ends of the chain, where you will insert the master link, are located in the centre of the bottom chain run. Put two of the four O-, X- or Z-ring seals onto the master link and lubricate them with chain grease. Then fit the master link into the chain from the rear. Now fit the two remaining rings at the front and press the side plate of the master link against the rings as far as possible. Now quickly position the tool on the master link so that the master link rests accurately in the riveting guide.



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**3.** Grip the handle of the riveting tool firmly with one hand and turn the T-bar slowly and steadily with the other hand in order to press the side plate onto the master link. When doing this, make sure that the ring seals slide onto their seats and do not become trapped, as otherwise it will not be possible to press the side plate on fully and the seals will jam the master link.

**4.** Remove the pressing cup and fit the correct flare pin for the type of master link (solid or hollow rivet type). If you are using a solid rivet link, you need to use the guide plate in addition to the correct flare pin (with gap) in order to accurately align the flare pin and so that you can later reposition it by 90° for the second step in the riveting process.

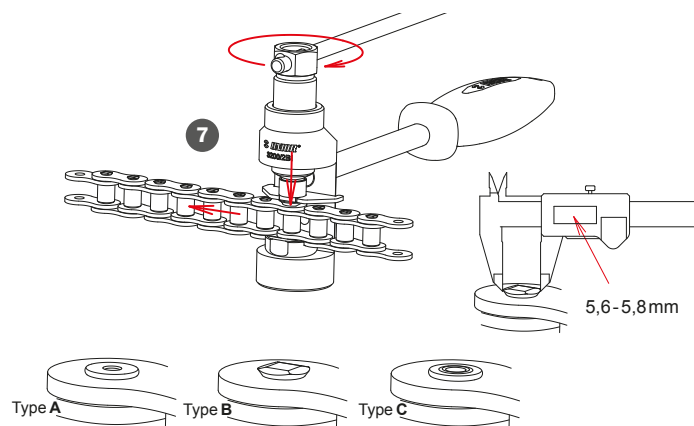
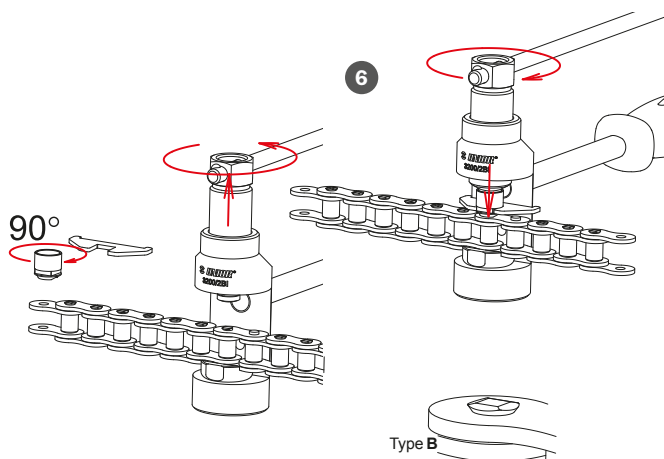
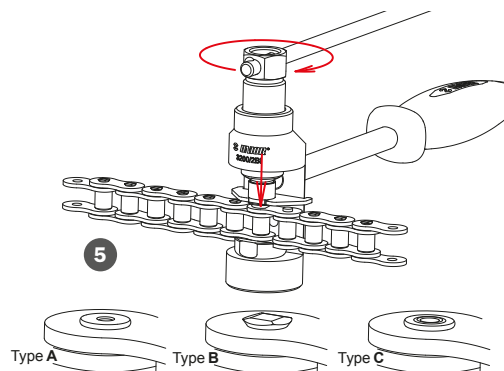
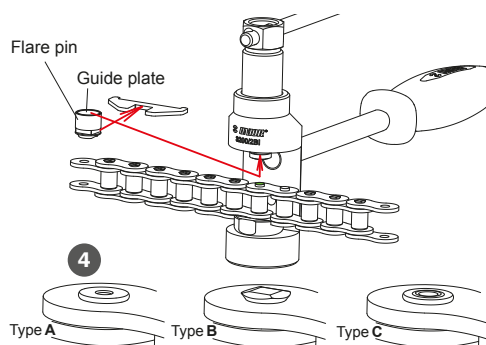
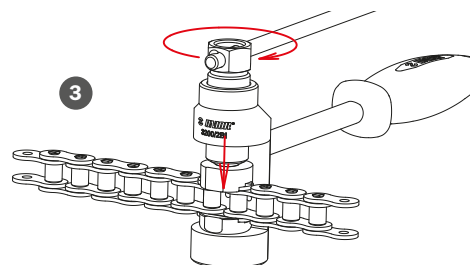
**5.** Grip the tool firmly with one hand, and turn the T-bar with steady force with your other hand to flare the rivet head and fix the master link. You must continue applying force until you feel a hard resistance and the T-bar cannot be turned any further.

**6.** In the case of a solid rivet link, the flare pin now has to be turned 90° in the guide plate and the process repeated.

**7.** Remove the tool from the chain and measure the width of the rivet head using a caliper gauge. The riveting is adequate if the rivet head is 5.6-5.8 mm wide.

**8.** Repeat the riveting process with the second rivet of the master link.

**9.** Check the width of the second rivet head. Move the master link to and fro. It must not bind or be stiff. Otherwise it is not correctly fitted and will need to be replaced with a new master link.



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