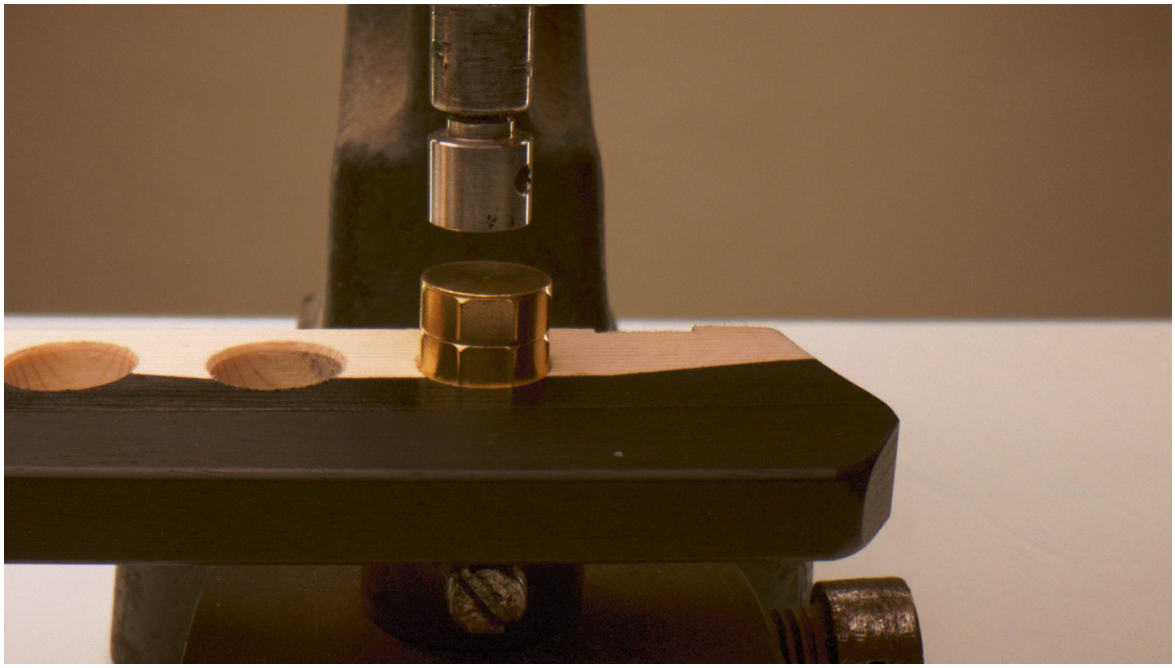


CKM KEY WEIGHTS

INSTALLATION INSTRUCTIONS

For the installation of the CKM key weights you need the following tool:

- Forstner drill bits in diameter of 10, 12, 14, 15 mm (depending on CKM diameter)
- Screw press / lead press with a mandrel of 10 mm diameter
- if necessary, countersink or sandpaper (as desired)

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REWEIGH

A Determine the weighing by placing the weights, as usual.

B Mark the drill position.

C Drill the holes. We recommend drilling completely (no blind hole) so that you can easily push the weight out again. At the outsidekeys (No. 1 and 88) you may drill a blind hole and drill a smaller hole in the middle from the other side to push the weights out again. Use sharp and high-quality Forstner drills for good results without splintering. We recommend using the drill bits exclusively for weighing to ensure appropriate sharpness and accurate drill diameters.

D You will get particularly nice results if you slightly chamfer/countersink the edge of the borehole. You can do this with sandpaper shaped into a funnel or a wide countersink.

E Using a simple screw press for example, push the weight straight into the borehole from above until it sits in the middle of the bore. We recommend choosing the diameter of the press mandrel not too small, so that the pressure is flat and even. If you choose Ø10 mm , you can use it to press in the weights of all diameters.

F Drilling distances: Although the splitting effect is very low (our tests went up to 3 mm without cracking wood), we recommend that you do not fall below a spacing of 8 mm between the boreholes. This minimizes the risk of tearing wood even when drilling.

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USING OLD BOREHOLES

If you want to reuse old boreholes after the lead has been squeezed out, proceed as follows:

A Remove the leads with a screw press and a suitable support so as not to injure the wood when pressing.

B Drill the crushed holes by at least 2 mm larger than the original holes (depending on the desired weight) with a suitable wood drill without centering point (pre-cutter is mandantory, we advise against standard drills). Forstner drills achieve the most beautiful drilling result here, but the key must be well fixed and the old drill hole must be well centered.

C Example: If a 13 lead was installed, you can drill the hole to 15 mm and then insert a CKM-15-11 . If a 12 mm was installed, you can either drill to 14 mm for a CKM-14-11, or drill to 15 mm for a CKM-15-11.

D Now, as described above, press the weight into the bore with a press or something similar.

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CKM REMOVE WEIGHTS

A Use a screw press to push the weight out as straight as possible from above and slowly. Again, we recommend a mandrel of at least 10 mm in diameter. Normally, this should be possible without pulling out wood, as there is a chamfer on both sides of the weight. If you want to be on the safe side, use an support with a hole slightly larger than the borehole diameter in the button when you push it out on the bottom.

B Our weights can be reused as often as you like.

CKM CHANGE WEIGHING

If, for example, it is necessary to adjust the weighing by reshaping hammers several times, you can do this without doweling or re-drilling. For example, remove a CKM-14-11 and replace it with a CKM-14-9 or a CKM-14-7. Be sure to place the ribs in fresh wood and not in the old grooves.

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VARIANTS

The CKM key weights will be available in four diameters, each with three depths. For a weighing, usually 2-3 variants are sufficient. **For the initial phase, we offer the variants available in the shop, as these replace the most common lead rivets.**

Technical designation	Drill diameters (mm)	Depth (mm)	Weight (g)	Lead reference size (mm)	Lead reference weight (g)
CKM-15-11	**15**	**11**	**16,1**	13 x 11/10 und 12 x 12	16,6/15,1 und 15,4
CKM-15-09	15	09	13,2	12 x 10	12,9
CKM-15-07	15	07	10,3		
CKM-14-11	**14**	**11**	**14,0**	12 x 12/10	15,4/12,9
CKM-14-09	**14**	**09**	**11,5**	12 x 10	12,9
CKM-14-07	14	07	8,9		
CKM-12-11	**12**	**11**	**10,3**	10 x 12/11	10,7/9,8
CKM-12-09	12	09	8,4	10 x 10/8	8,9/7,2
CKM-12-07	**12**	**07**	**6,5**	10 x 5,75	5
CKM-10-11	10	11	7,1		
CKM-10-09	10	09	5,8	8 x 10	5,7
CKM-10-07	10	07	4,5	8 x 8	4,6

If you have any questions or would like technical support, please contact us at
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