PROFI CUT TOOL 1 1/8" **Production no. 640119 (milled)**

The by,schulz Profi Cut Tool was developed for precise shortening and slotting threadless 1 1/8" A-head metal fork shafts. It is used for mounting Speedlifter Classic, Twist or Twist Pro systems.

1. SCOPE OF DELIVERY

· Drilling and sawing template
· 6 mm metal drill bit, L: approx. 65mm
· Operation manual

2. TECHNICAL DATA

Profi Cut Tool:
· Material : Zinc plated tool steel
· Height : approx. 56 mm
· Weight: approx. 600g
· for Ø1 1/8“ fork shaft

ATTENTION : The shortening and slotting of the A-Head fork shaft as well as the installation of the Speedlifter system must be carried out professionally. In case of incorrect execution, there is a risk of accident! Handlebar and stem must be compatible with each other and in good mounting condition. The brake and shift cables as well as electrical cable connections to the handlebar must be long enough to make sure that they are free of bends at the highest possible handlebar position and that they do not obstruct the steering in any way. If necessary, the cables must be re-routed." The person who installs the Speedlifter system is responsible for all risks of damage in the event of an incorrect installation. We therefore strongly recommend installation by a qualified bicycle dealer.

3. INSTALLATION REQUIREMENTS

(Excerpt from the mounting instructions)

To install the Speedlifter, the bike must have a threadless A-head fork with metal shaft and 1 1/8" outer diameter 28.6 mm.

The Speedlifter quill diameter must be compatible with the inner diameter of the fork shaft. The Speedlifter system quills are currently available for metal fork shafts with an inner diameter of 24.4 / 24.5 / 24.6 mm and 25.4 mm. In addition, the upper end of the fork shaft must protrude at least 46 mm above the headset for the installation of the Speedlifter with the fork mounted.

The fork shaft end protruding above the A-Head headset bearing must have a vertical slot at the rear as seen in the riding direction. This approx. 4 mm wide and a total of 24.5 mm long vertical slot ends in a Ø6 mm hole.

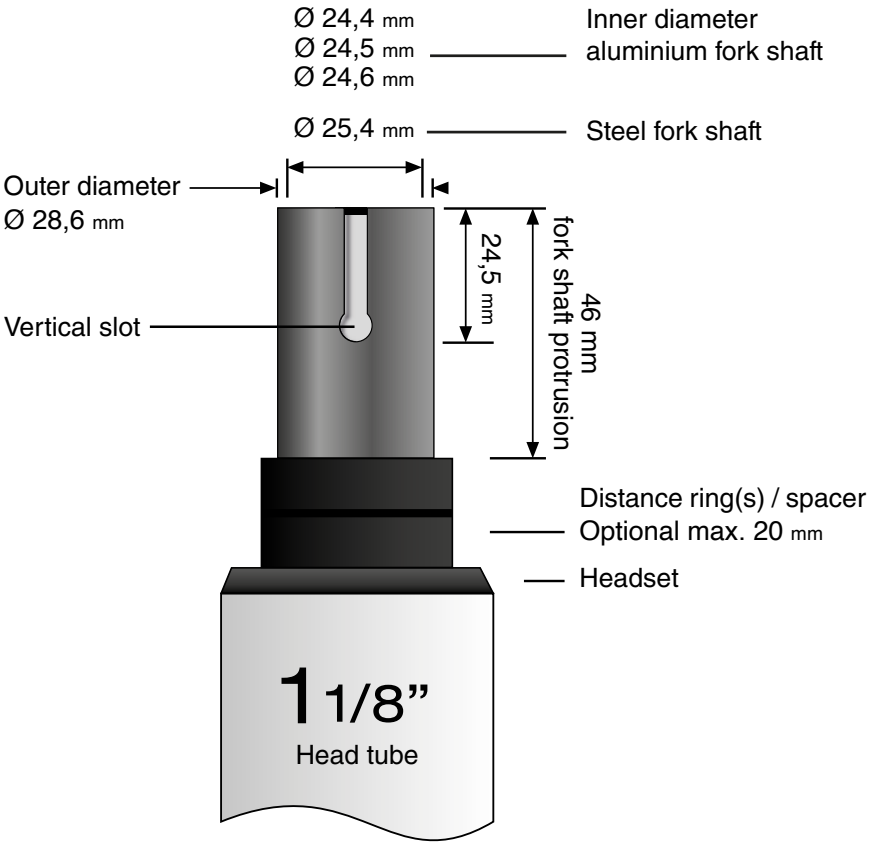
In combination with the Speedlifter quill, 1 1/8" A-Head stems (option: angle-adjustable) may only be installed together with the supplied, slotted Speedlifter A-Head reducing sleeve.

An exception is the Speedlifter Twist Pro SDS which has an integrated angle-adjustable stem.

This 1 1/8 "A-Head- Stems must be possible to clamp at the rear (in riding direction)! The stem length must not be more than 135 mm."

The Speedlifter A-Head reducing sleeve must have at least the same available clamping height as that of the stem.

After adjusting the headset, a maximum of 3 threads may be freely visible on the adjustment ring. The total height of the spacer rings used, which are mounted under the Speedlifter, must not be higher than 20 mm.



4. TOOL USAGE

ATTENTION: The vertical slot in the fork shaft must be centered at the rear in the driving direction. If a spacer ring (maximum 20 mm) is used, the height to be shortened changes accordingly.

The fork shaft must be undamaged inside and outside after shortening and slotting with the Profi-Cut tool.

Info: If no stem and no A-Head claw are mounted yet, you can ignore the following section!

Unscrew the existing A-Head end cap. Remove the A-Head claw basically upwards with the stem installed. Loosen the stem and remove all unneeded spacer rings.

4.1 (Fig. 4.1)
Align the front wheel standing to the ground exactly parallel to the frame. Place the 2 mm spacer (only supplied with production no. 641117) on the headset bearing or the spacer rings above it and slide the ProfiCut tool (imprint "Top" facing upwards) over the fork shaft onto the 2 mm spacer. Align the tool so that the 6 mm drill guide (imprinted "REAR") points backwards towards the saddle and the imaginary center line of the lengthwise slot is exactly aligned with the driving direction.

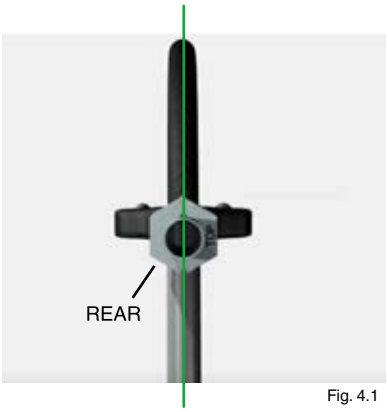


Fig. 4.1

4.2 (Fig. 4.2)
Press the tool firmly against the headset with the 2 mm spacer (only for production no. 641117) and secure it with the integrated Allen screw (5-6 Nm). Important: Tool and headset must be free of play!

Tip: Place a piece of cloth around the area of the headset and the front area of the wheel to protect the sensitive bearing area from drilling and sawdust.

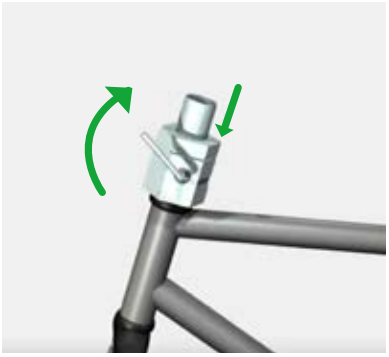


Fig. 4.2

4.3 (Fig. 4.3)
Drill the 6 mm hole into the fork shaft with the included metal drill bit using the drill guide.


Fig. 4.3

More about the product

4.4 (Fig. 4.4)
Using a metal saw, saw off the fork shaft to the specified length through the horizontal slot in the tool.

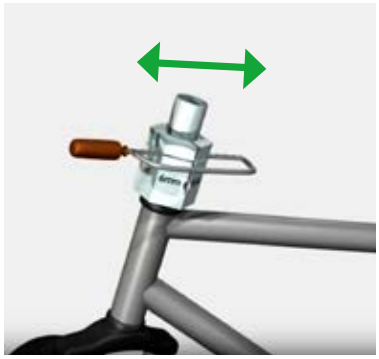


Fig. 4.4

4.5 (Fig. 4.5)
Now use the saw to saw diagonally from above along the right and left edges of the vertical saw guide slot into the existing drill hole. This creates an approx. 4 mm wide, vertical slot in the fork shaft, which ends in the 6 mm drill hole.

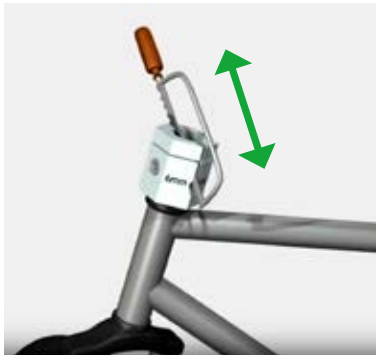


Fig. 4.5

4.6 (Fig. 4.6)
Carefully remove sharp edges from the saw cuts and the bore inside and outside with a half-round metal file. Remove the cloth and the resulting sawdust carefully. Clean and grease the inside of the fork shaft. Now you can install the Speedlifter.

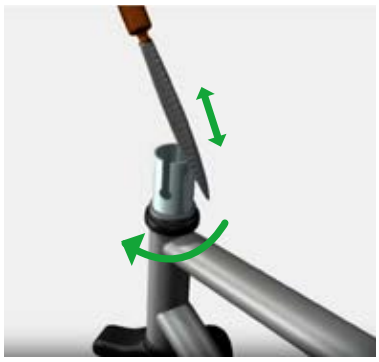


Fig. 4.6

Reverse option: To use the slotted fork again with a normal A-head stem, the by.schulz Speedlifter Ready Kit reinforcement sleeve with the correct spacer must be used.


for steel fork shafts inner Ø 25,4mm


for aluminium fork shaft inner Ø 24,4 / 24,5 / 24,6mm

5. MAINTENANCE / CARE

Clean the Profi Cut Tool after each use and free it from saw and drill particles. Store the Profi Cut Tool in a dry and clean place.

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