

USER MANUAL:

# Ultimate Powder Dropper - X-Ray Parts



Self-resetting powder dispenser system with hinged collar for easy mounting on dies with a Funnel-flaring housing. Micrometric adjustment in clicks with a locking ring. The dispenser body is entirely machined from solid material and CNC processed.

Dies and Funnel not included.

1. The package includes an assembled dispenser body and an assembled powder container tube (see photos 2 and 3)

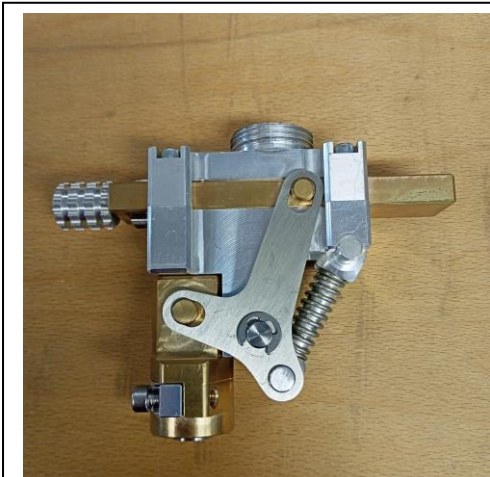
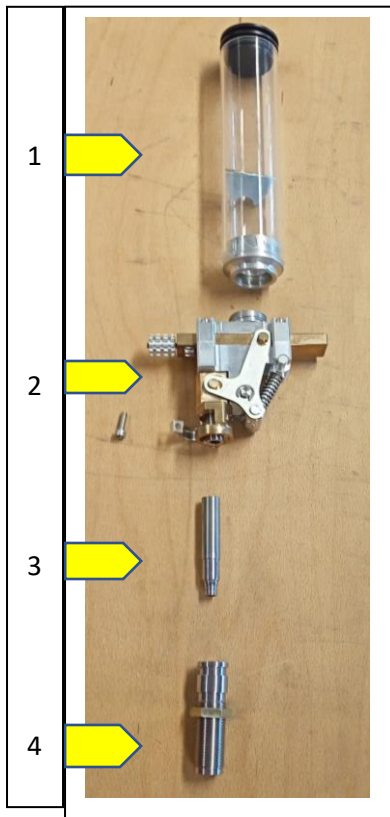


Photo 2

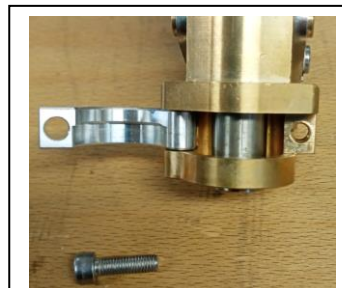


Photo 3

## 2. Assembly of dispenser:



"Screw the gunpowder container tube onto the dispenser body (item 1 with item 2, in the left photo)."



Unscrew the collar screw and open the collar. Insert the funnel (item 3 in the left photo) into the die ( item 4 in the left photo)



Insert the die into the dispenser housing and close the collar. Screw the screw until there is no mechanical clearance between the collar and the die (See photo 7 on the right and 8 below).



### 3. Operating the dispenser:

Screw only the die onto the press head in the position where we have decided to place the dispenser for the case flaring and powder dispensing operation (photo 9). Insert the funnel into the die (Photo 9). Attach the dispenser to the die using the collar attachment system (photo 10), secure the collar with the provided screw (Photo 11)



Photo 9



Photo 10



Photo 11

4. Set the depth of case flaring for the empty dispenser by adjusting the die's screw (photo 12). Thanks to our floating dispenser attachment system, this operation will be simple and will not interfere with other accessories in use on the press.



Photo 12



5. Adjusting the powder dispensing quantity (photo 13):

Unlock the locking knob of the dispensing ring by unscrewing it (photo 14). Rotate the dispensing ring in the direction indicated by the arrow to increase (+) or decrease (-) the powder volume until the desired charge weight is achieved. It is recommended to verify the charge weight with a calibrated scale. Screw the locking knob to prevent accidental changes of the powder charge during the loading process (photo 14).

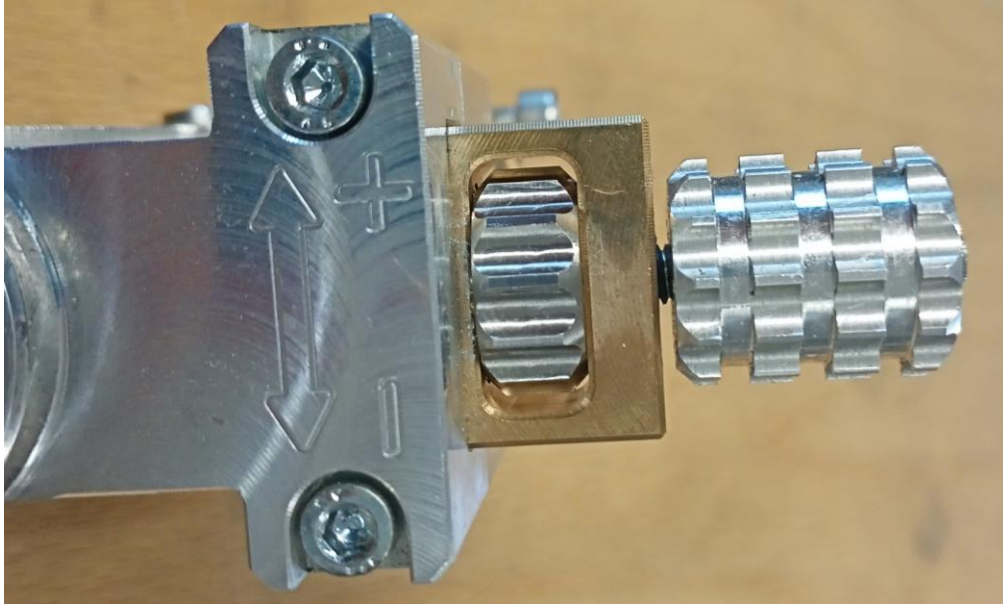


Photo 13



Photo 14

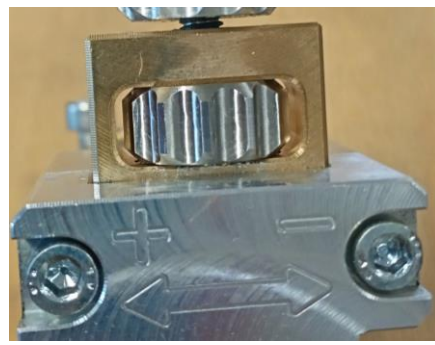


Photo 15

6. Lubrication every 1000 cycles:

- Lubricate the points indicates in the following photos 16,17 e 18: guide rod, spring and slot for coupling the toggle with the movement brachets.



Photo 16

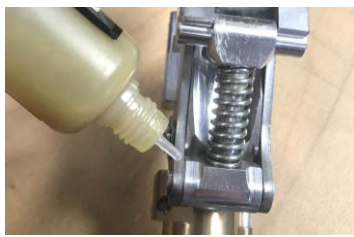


Photo 17



Photo 18

- Disassemble the Powder Dropper
- Clean all the components, in particular the brass dropper (do not lubricate the dosing dropper and the surface affected by the passage of dust with liquid or grease lubricants).

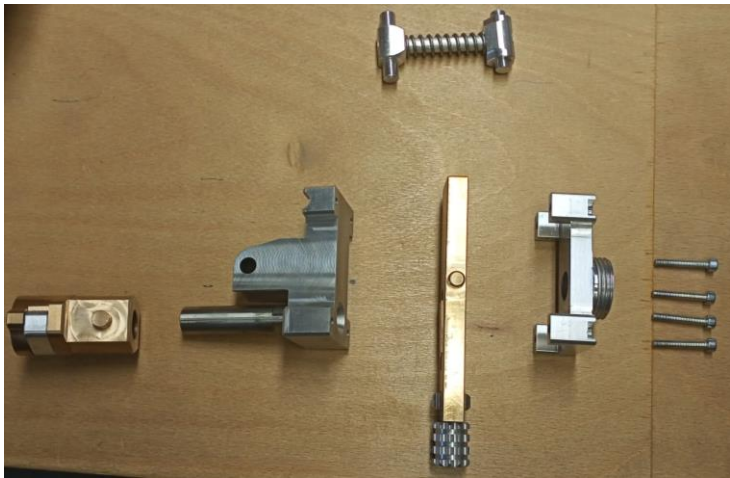


Photo 19. Powder dropper disassembled for the cleaning operations

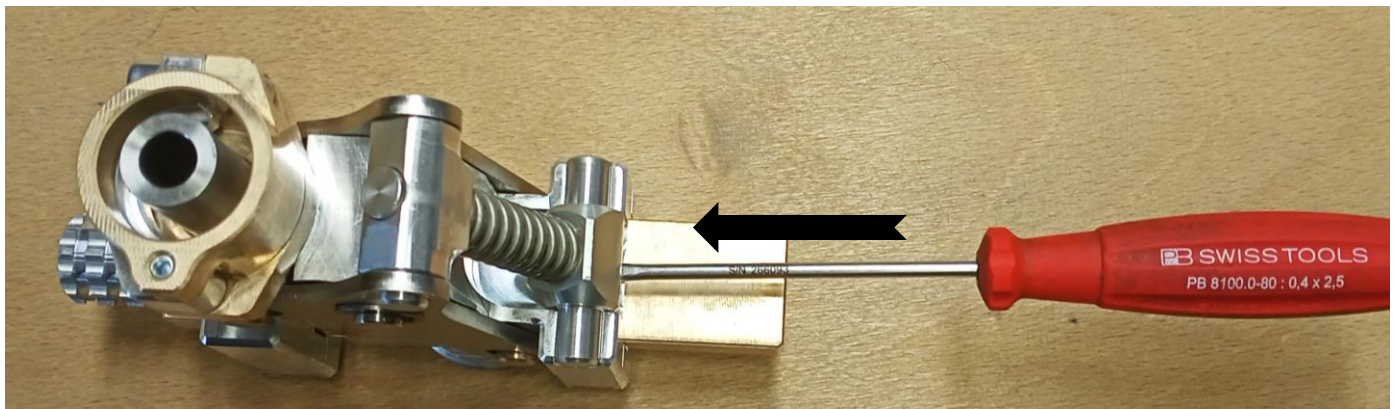


Photo 20. Here below: insert the flat screwdriver as in the photo

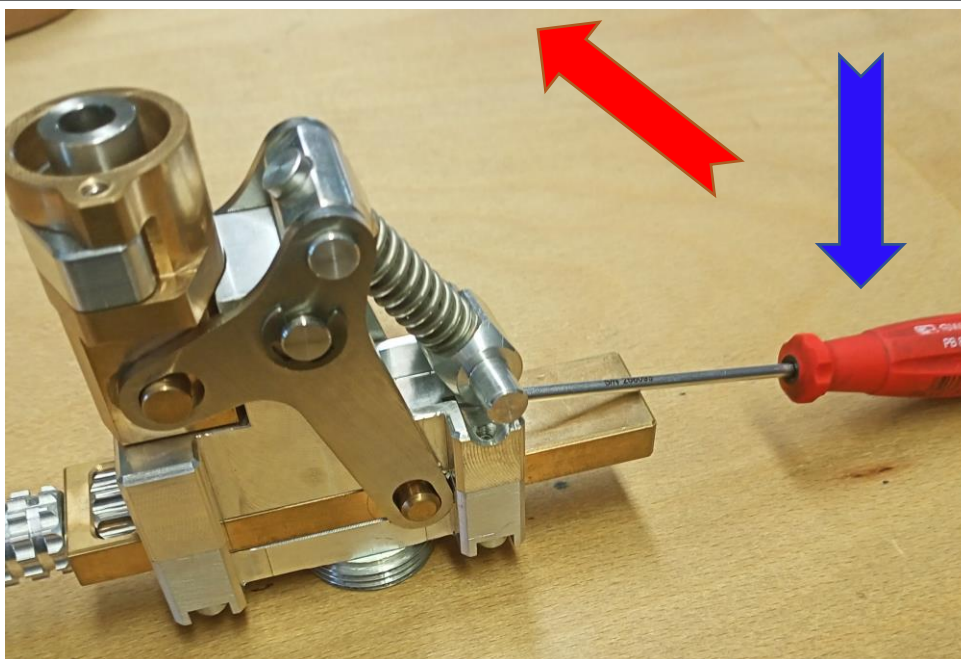


Photo 21. Lower the screwdriver handle (blue arrow) until it goes over the spring guide pin (red arrow), first on one side and then on the other. Be very careful when making the stepping over, place a cloth over the spring to prevent the spring guide from flying away.



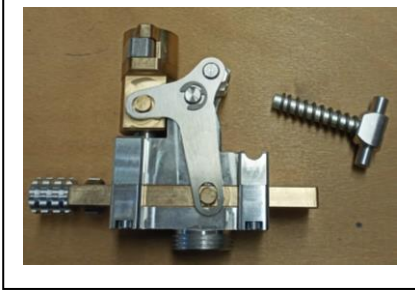


Photo 22. Once the spring and the spring guide have been removed, proceed to remove the circlip ring that holds the lever system assembled.

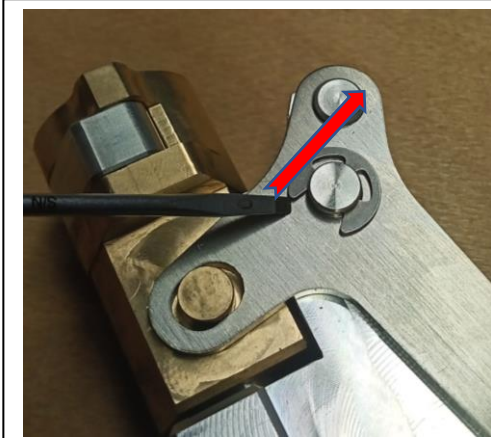


Photo 23. Push with a tool and remove the circlip.

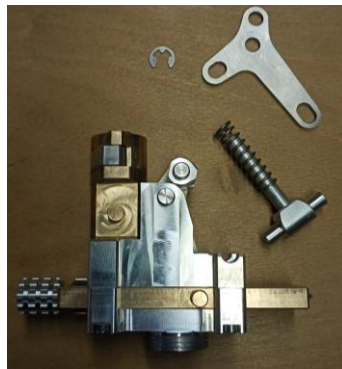
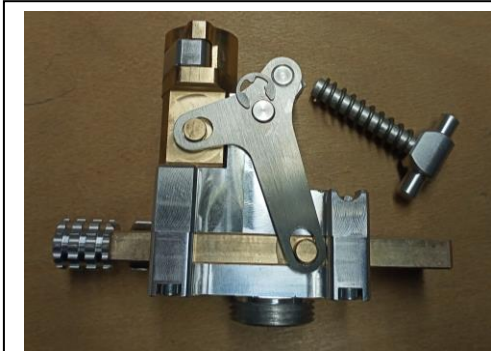


Photo 24 e 25 circlip and fork removed.



Foto 26. Spring system and guiderod disassembled.



Foto 27. Pins, levers and circlip disassembled.

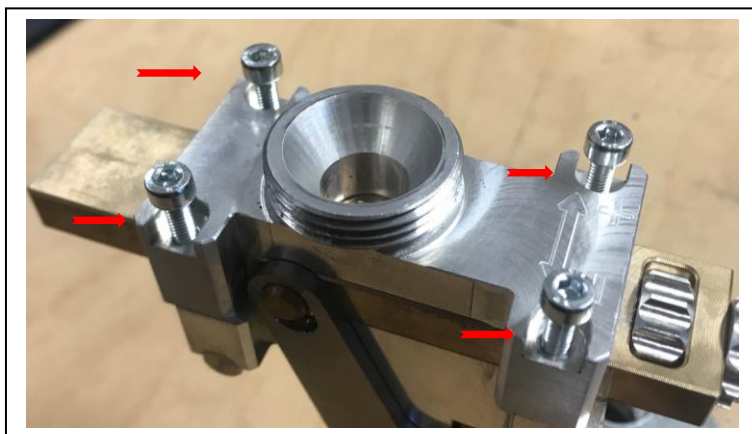


Photo 28. Unscrew 4 screws, as in the photo

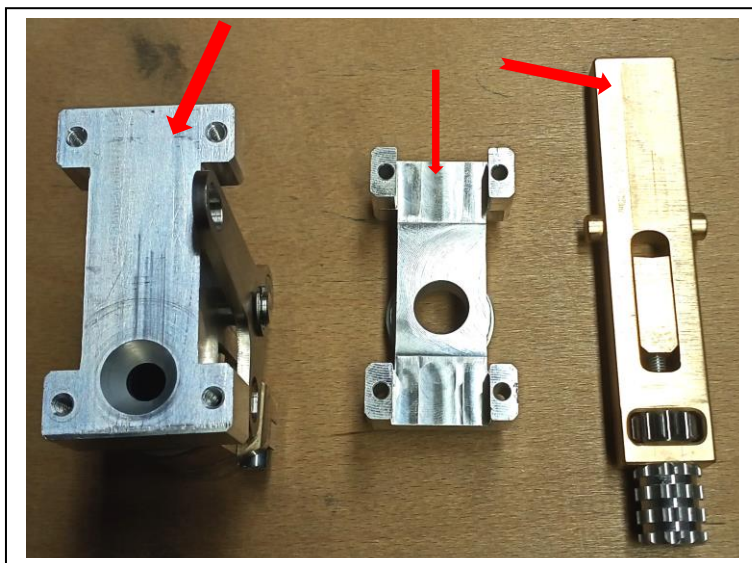


Photo 29. Clean all planes but don't lubricate with liquid or grease lubricants.

#### 8. Assembling powder dropper:



Photo 30. Replace the drawer doser as in the photo.

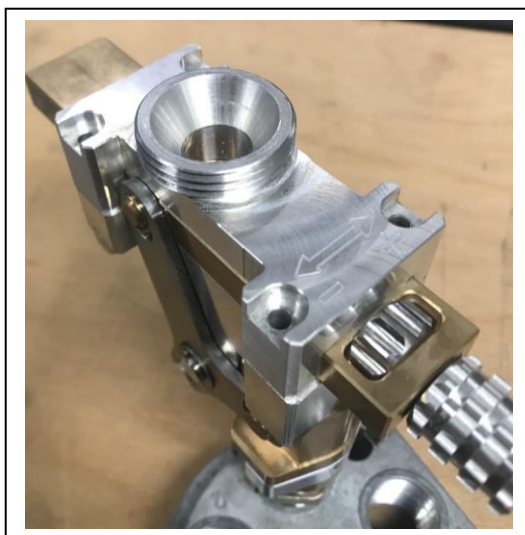


Photo 31. Replace the cover as in the photo and tighten the 4 screws.

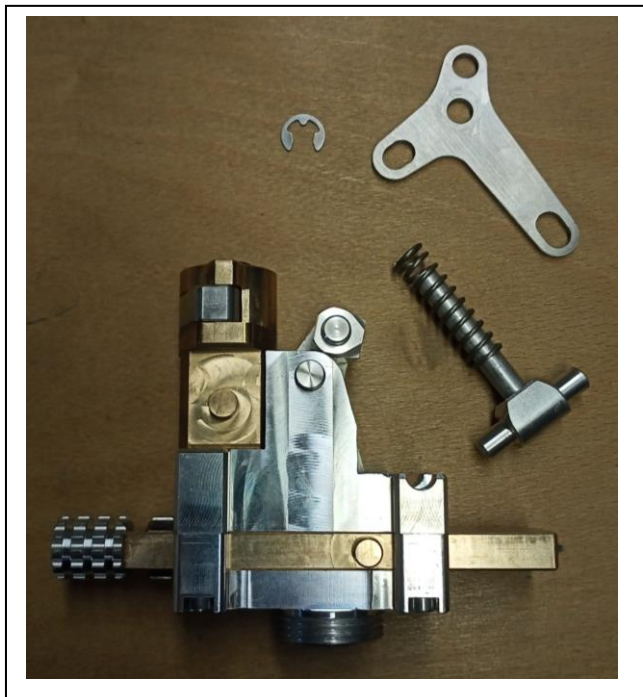


Photo 32, 33. Replace the lever and insert the cilclip

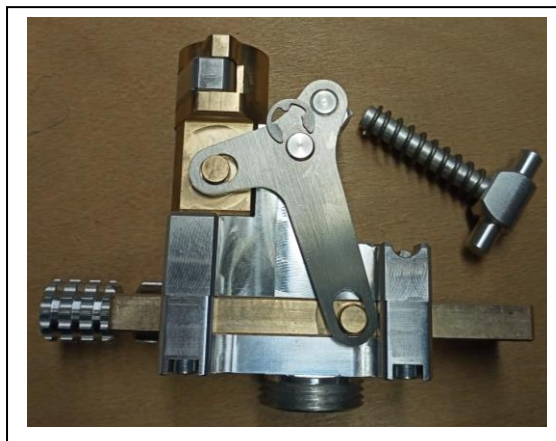


Photo 34. Prepare the spring with the pin.

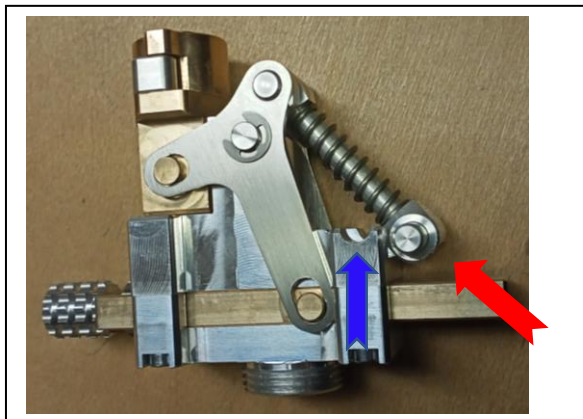


Photo 35. Insert the spring as in the photo, push with the thumb in the direction indicated by the red arrow until the pin will be at the place indicated by the blu arrow.

Now lubricate the point indicated at paragraph 6., assemble the tube, die and funnel. Replace the powder dopper on your loading machine. Fill the gunpowder container and proceed with the check of the charge the powder.