

MANUAL IGT INK PIPETTE

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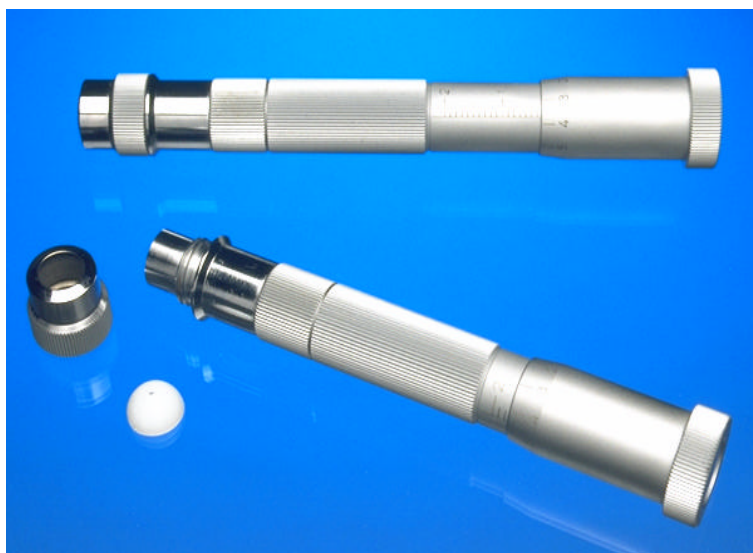
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Type	Ink pipette	Ink pipette HR
Art. nr.	408.200	408.400
Barrel	408.008.001	408.008.002
Plunjer	408.009	
Nozzle	408.010	
Nylon caps	408.011.030	

Type	Ink pipette	Ink pipette HR
Weight	0,3 kg	
Dimensions	15 x 15 x 200 mm ³	
Volume	2 ml	
Resolution	0.01 ml	0.001 ml

INTRODUCTION

The ink pipette is made up of:

- **Micrometer screw**

This consists of a graduated sleeve with internal thread, featuring a scale from 0 to 2 ml. There are intermediate graduations every 0.1 ml and additionally 0.05 ml graduation on the HR version. The screw that rotates in the sleeve is attached to a thimble surrounding the sleeve. There is a circular scale on the thimble with graduations of 0.01 ml on the standard version and 0.001 ml on the HR version. The difference between the initial and the final level equals the measured volume.

- **Barrel with plunger**

The barrel is a precision-ground tube. The plunger is a plastic rod that fits accurately into the barrel and can be moved. The plunger is fixed to the



micrometer screw by means of a hook fastener.

- **Nozzle with nylon cap**

Every barrel has a nozzle which screws onto the barrel. The nozzle is fitted with a nylon cap, which has an opening through which the ink can be forced out.

USE

Preparation

- Turn the micrometer screw completely home. The hook fastener will now protrude from the barrel.
- Push the plunger back through the barrel until the knob becomes visible.
- Insert the knob of the plunger hook fastener into the micrometer screw hook fastener.
- Press barrel and micrometer screw together and screw them into each other.

Filling

- Turn the micrometer screw completely home.
- Hold the pipette in your hand as shown.
- Put ink in the pipette with a spatula while turning the barrel of the pipette between thumb and index finger. The little finger should hold the micrometer screw steady.
- During filling, agitate the ink by moving the spatula up and down. This helps liquify the ink and prevents air bubbles being trapped in it.
- Overfill the pipette by 0.2 to 0.3 ml.
- Turn the micrometer screw another one or two revolutions.
- Remove any ink left on the edge or exterior of the barrel.
- Screw nozzle with nylon cap onto the barrel.
- Check whether air is trapped in the ink:
- Turn the micrometer screw until ink flows out of the opening.
- Wipe off this ink immediately.
- If ink remains coming out of the aperture, this means that there is air in the pipette, and it must be refilled.
- If the pipette has been filled correctly, turn the micrometer screw until the 0-mark on the thimble coincides with the graduation. Wipe off the ink that flows out of the opening.

Dispensing

- Calculate the position to which the micrometer screw has to be turned to obtain the required quantity of ink.
- Hold the barrel in one hand.
- Turn with the other hand the screw clockwise at the place where ink has to be deposited until the required quantity has been dispensed.

Apply the ink as evenly as possible across the width and circumference of the top roller, only the nylon cap should come in contact with the top roller.

Cleaning

After use or when changing over to another ink, the pipette should be cleaned:

- Remove the nozzle and the barrel.
- Clean the plunger, barrel and nozzle with a suitable solvent.
- Replace the cap with a new one.

Note:

- If the pipette is to be out of use for a long time, grease the barrel slightly. The metal is prone to rust, which might render the barrel useless. The pipette must be cleaned when it is to be used again.
- Once ink has dried on, it is difficult or impossible to disassemble the pipette.
- Do not immerse the micrometer screw in solvent.

ACCESSORIES

Pipettes - Pipetten

408.200	0.01 ml
408.300	0.01 ml calibrated
408.400	0.001 ml
408.500	0.001 ml calibrated

Barrels

408.008.001	0.01 ml
408.008.002	0.001 ml

Spares

408.009	Plunjer
408.010	Nozzle
408.011.120	120 Nylon caps
408.011.240	240 Nylon caps
408.011.480	480 Nylon caps

FIGURE

A	Thimble	E	Hook fastener
B	Micrometer	F	Nylon cap
C	Barrel	G	Nozzle
D	Plunjer		

