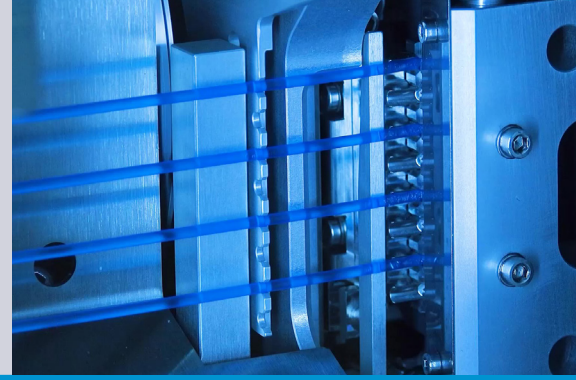




# MPP Quattro and CombiSystem



## MPP Quattro

Fast, robust, and easy-to-operate filling and sealing machine engineered for high-performance laboratories. Designed for stand-alone operation or seamless integration with the MiniJet printing system, the MPP Quattro ensures efficient, precise, and hygienic processing of semen straws.

MPP Quattro

13018/0000

## ★ Product features

- Throughput: approx. 14,000 straws/hour
- Hopper capacity:
  - 2,400 MiniStraws (0.25 ml)
  - 1,200 medium straws (0.5 ml)
- Dimensions (W × H × D): 650 × 390 × 500 mm
- External ultrasonic generator (positionable up to 2.5 m away)
- Power supply: 115 V or 230 V / 50-60 Hz



## Customer Favorite

"The Minitube Quattro is a well-made device with a touchscreen display that's very easy to use. It rarely gives us any trouble but when seldom there is an issue it's very easy to troubleshoot with Minitube support. Minitube is great at conducting routine preventative maintenance to keep our Quattro always running at peak performance."

George Luzniak, Rocky Mountain Sire SVCs, USA

## Optimal filling

Ensures optimal filling of the first four straws per ejaculate by using reduced vacuum and an extended filling time.



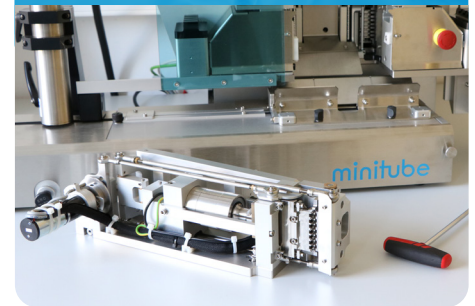
## Memory function

Stores up to nine sets of filling and sealing parameters for quick selection, enabling optimal settings for each straw-extender combination.



## Operational security

Quick and easy replacement of the compact sealing unit ensures reliable, uninterrupted operation during service interventions.





## Fully automated semen production for optimal laboratory efficiency

### Flexible configuration

- + Suitable for ejaculates from different species
- + Operation under cooled conditions or at room temperature
- + Flexible filling of 1 or 4 straws simultaneously
- + Quick conversion between 0.25 ml and 0.5 ml straws (1–2 minutes)
- + Memory function for up to 9 parameter sets for different straw/extender combinations

### Reliable system design

- + Exchangeable compact ultrasonic sealing unit for uninterrupted operation
- + High-quality components and durable construction (made in Germany)
- + Fully enclosed filling and sealing area for maximum hygiene and safety
- + Easy cleaning and maintenance for a long service life
- + Excellent support from trained, multilingual staff
- + Consumables tested for sperm compatibility



### Optimal performance

- + Very high throughput of approx. 14,000 straws/hour
- + Precise, consistent filling via PLC-controlled vacuum system
- + Optimized first-straw filling to maximize usable output
- + Semen-saving mode automatically reduces from 4 to 1 needle as volume decreases
- + Recovery of residual semen from inactive needles back to the reservoir
- + Quick preparation for new ejaculates with easily exchangeable filling head

### Intuitive operation and diagnostics

- + High-resolution TFT touchscreen with responsive control
- + 3.2 mm tempered glass, resistant to scratches, UV, and laboratory chemicals
- + Clear interface with all key parameters at a glance
- + Quick switching between parameter sets without manual adjustments
- + Multi-level access: user (view), admin (edit, password-protected), service (restricted)
- + Integrated I/O diagnostics for direct sensor and actuator control
- + Enables fast troubleshooting, reduced downtime, and efficient maintenance



## CombiSystem

Combine the MPP Quattro filling and sealing machine with the MiniJet printer to perfectly automate semen processing. This integrated system fills, seals, and prints 0.5 ml and 0.25 ml straws in a single step.

CombiSystem, MPP Quattro and MiniJet Printer JET3 UP MI 13018/0001

CombiSystem, MPP Quattro and MiniJet Printer JET3 UP 13018/0002

## Operational efficiency

- + High-speed, synchronized filling, sealing, and printing
- + Continuous 24-hour operation capability
- + Immediate readiness for operation, even after downtime
- + Automated straw transport and level monitoring
- + Automatic stop of straw supply at end of ejaculate
- + Tool-free maintenance and component exchange

## CombiSystem components

1. MPP Quattro
2. Inkjet printer: Leibinger JET3 UP or Leibinger JET3 UP MI
3. Straw transport unit with an optical sensor and a mounted print head with an exchangeable hopper
4. Control unit
5. PC with Minitube PrintControl software

### Dimensions (W x H x D)

1. 650 x 390 x 500 mm
2. approx. 490 x 450 x 290 mm
3. 730 x 500 x 260 mm
4. 380 x 400 x 220 mm
5. depending on the type and version



## Intelligent printing technology

- + Consistent, abrasion-resistant print quality
- + Advanced printhead design prevents ink drying and clogging
- + Minimal cleaning or rinsing required
- + Low operating costs through efficient ink use
- + Adjustable printhead for precise alignment
- + Printing of text, barcodes, logos, and data matrix codes (JET3 UP MI)

## Software and data integration

- + PrintControl software with an intuitive interface and preview functionality
- + Easy creation and management of print layouts
- + Seamless integration with Prism10 Bull laboratory software ensures accurate, fully traceable data flow across the entire process



## Customer Favorite

"We use the MPP Quattro and the printer from Minitube as a CombiSystem and we are very satisfied with it. It is very practical because we can switch from four to one cycle manually, as well as automatically because there is an integrated scale. We switch to the next bull within two minutes and then we can pack everything nicely one after the other and at a very high speed."

*Jana Glocker, Semen Sexing Laboratory RBW Genetik, Bad Waldsee, Germany*

Watch product video ▶▶▶



### Unique printhead technology

Maintains ink homogeneity and prevents drying even during long production breaks, eliminating the need for cleaning or rinsing. The JET3 UP MI's ultra-fine nozzle ensures precise printing, delivering highly readable Data Matrix codes.



### Optimum print control with PrintControl

The software allows you to create multiple flexible layouts with free text, database fields, codes, counters, and more. Once defined, the relevant information is automatically populated into the fields when a record is selected.



◀◀◀ More info on PrintControl

### ↳ Accessories CombiSystem (MiniJet)

Ink, 950 ml	13033/0010
Solvent, 950 ml	13033/0012

Slide for straw output	13034/0010
Collection dish for semen straws, stackable	13012/0003

### ↳ Accessories MPP Quattro

Filling block with 4 nozzles	
for 0.25 ml straws	13018/0012
for 0.5 ml straws	13018/0017
Suction block with 4 nozzles	
for 0.25 ml straws	13018/0022
for 0.5 ml straws	13018/0027
Washer for 0.25 ml and 0.5 ml nozzles	
5000/bag	13021/3001
2000/bag	13021/3002
Straw hopper, for 0.25 and 0.5 ml straws	13018/0006

Filling and suction tubing, 380 mm, sperm friendly material (silicone), angle cut edge, 100/aluminum foil bag	13021/3800
Disposable semen cone, 100/bag	13018/0100
Fixing unit for filling and suction blocks, stackable, stainless steel	13017/0050
Straw seal tester for 10 straws per cycle (0.25 ml / 0.5 ml)	13019/0210