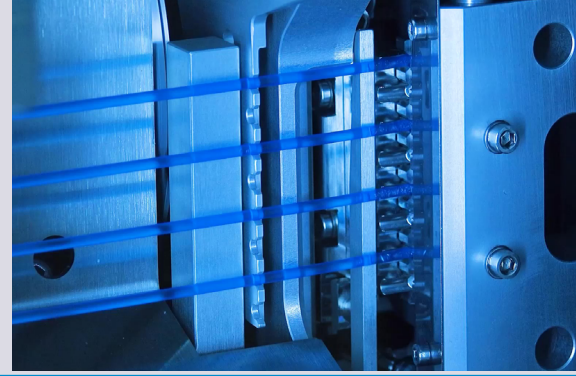




MPP Quattro and CombiSystem



Fully automated semen production for optimal laboratory efficiency

MPP Quattro

Fast, robust and easy to operate filling and sealing machine with a wide range of applications:

- Can be used stand-alone or in combination with MiniJet printing system
- Automatically fills and seals both 0.25 and 0.5 ml straws
- For ejaculates of different species
- Operation in cooled condition or at room temperature

MPP Quattro

13018/0000



+ Your benefits

- + Very fast filling and sealing process of approx. 14,000 straws per hour
- + Fast and easy conversion between 0.25 and 0.5 ml straws and vice versa (1-2 minutes)
- + Filling of 1 to 4 straws at a time: freely selectable by the operator
- + Optimal filling of the first 8 straws saves semen and increases the number of usable straws
- + Semen saving: when the ejaculate is almost finished, the active filling needles are automatically reduced from 4 to 1 and the remaining semen from the inactive needles runs back into the reservoir - virtually no semen is wasted, and the ejaculate is used to the very last drop
- + Fully closed filling and sealing area for maximum hygiene and safety
- + Touchscreen monitor for software control:
 - + Easy to operate with color coded display
 - + Continuous display of number of filled straws, machine status, straw size
- + Quick, easy and reliable changeover between settings for different straws and extenders; no need to repeatedly change individual settings on e.g. ultrasonic generator or vacuum controller
- + Quick preparation for a new ejaculate: filling head contains all four filling needles and can be changed quickly and easily
- + Proven, reliable Minitube design, construction and service quality

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

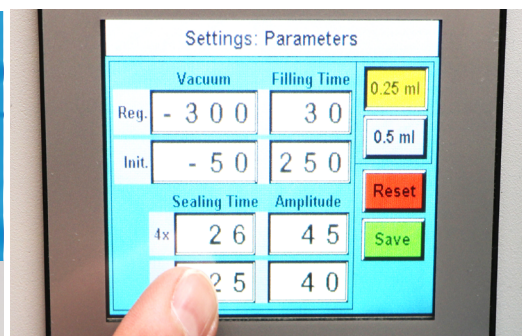
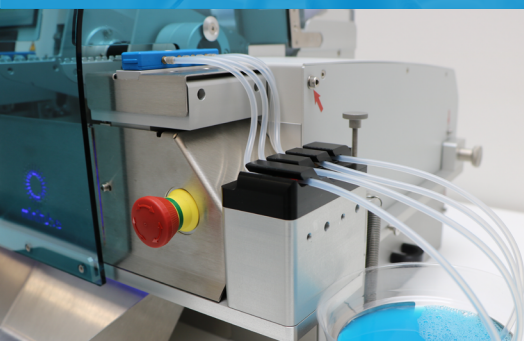


★ Product features

- Capacity: approx. 14,000 straws/hour
- Exchangeable hopper, capacity: 2400 MiniStraws (0.25 ml) or 1200 medium straws (0.5 ml)
- Exchangeable compact ultrasonic sealing unit
- External ultrasonic generator that can be placed up to 2.5 m away (ON/OFF switch on the machine)
- PLC microprocessor control
- Integrated vacuum sensors for optimal filling from the first 4 straws
- Vacuum unit with integrated tank:
 - Level controlled by PLC
 - Set value can be easily modified on the touch screen
- Memory function for up to 8 sets of filling and sealing parameters for different straws or extenders
- Machine dimensions (W x H x D): 650 x 390 x 500 mm plus ultrasonic generator 380 x 400 x 220 mm
- Power supply: 110 V/60 Hz or 230 V/50-60 Hz

Optimal filling of first straws

Fills the first 8 straws of each ejaculate with reduced vacuum and increased filling time to ensure optimal filling.



Memory function

Allows storing up to 8 sets of filling and sealing parameters. Easily select the optimal parameter set for each straw-extender combination.

Operation security

Very quick and easy exchange of the compact sealing unit ensures reliable, uninterrupted operation in case of service.



↔ 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



CombiSystem

Combine your MPP Quattro filling and sealing machine with the MiniJet printer for a perfect automatic integration of semen processing: filling, sealing and printing of 0.5 ml and 0.25 ml straws in one system and one step.

Watch product video →



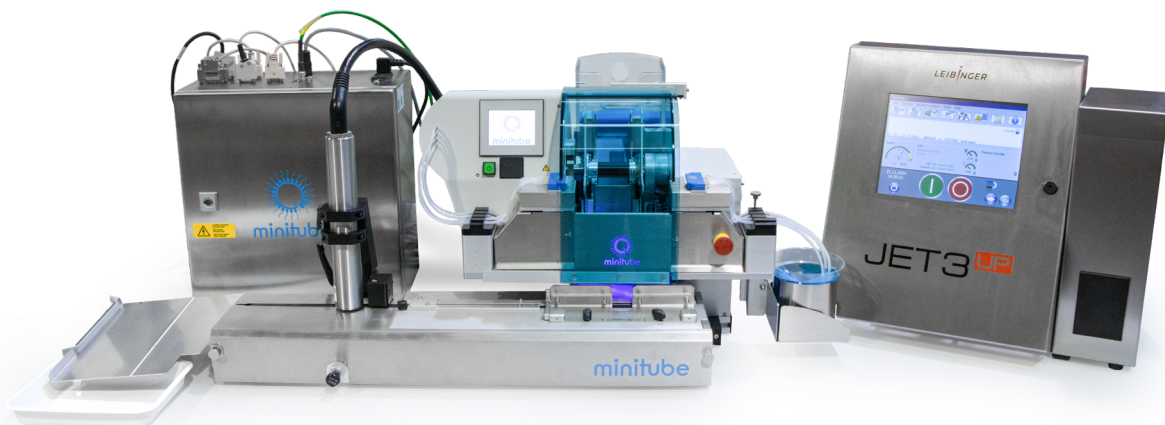
CombiSystem, MPP Quattro und MiniJet 13018/0002

☰ CombiSystem components

1. MPP Quattro
2. Inkjet printer Leibinger Jet3up
3. Straw transport unit with optical sensor and mounted print head with 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



+ Your benefits

- + Combines excellent filling, sealing and printing quality with high speed
- + Full electronic control of all components
- + Sealtronic print head technology eliminates clogging and frequent head cleaning: the ink is 100% protected from drying out
- + No drying out of the ink in the print head: ready to print immediately, even after long periods of downtime
- + Low operational cost: ink tank only needs to be refilled instead of completely replaced
- + Requires no additional control unit, only a standard PC (included)
- + Change of the transport belt without tools
- + Innovative PrintControl print software with intuitive user interface and preview functionality for easy control of print results
- + Seamless combination with Prism10 lab software (separate product) and PrintControl print software (integrated) for error-free data flow and complete traceability throughout the straw production process
- + Diagnostic program for connected devices, remote maintenance possible
- + 24-hour operational capacity



★ Product features

- Instant abrasion resistant print
 - Character size 1.4 mm to 5 mm
 - Bold print option
 - Print barcodes, logos and data matrix codes (with Leibinger Jet3 MI)
- Easily adjustable printhead position
- No gear pump to create pressure in the ink circuit, so no wear particles to age the ink
- Continuous, once-a-day ink viscosity adjustment for optimal startup conditions
- Straw transport unit with light sensor control
- Semen level control and automatic stop of straw supply at the end of the ejaculate
- Minitube PrintControl software with clear and easy to use menu navigation
- Data input from customer databases for easy creation of custom databases
- Combines with Prism10 Bull lab management software
- Windows based touch screen display
- Power supply: 110 V/60 Hz or 230 V/50-60 Hz

Unique printhead technology

Keeps the ink homogenous and ensures ink does not dry out, even during long production breaks. Eliminates the need for cleaning or rinsing.



Optimum print control with PrintControl

The software offers the possibility to create any number of different layouts. Within these layouts, free text, database fields, codes, counters, etc. can be defined. Once defined, these fields are automatically filled with the information 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

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



minitube