

# MultiCoder

A new age of labeling  
lab consumables



# Labeling in A.R.T. – why, how and where

## Why

- Clearly identify a container and its contents
- Avoid mix-ups

## How

- By handwriting
- Using adhesive labels

## Where

- Never label the lid or cap only (can be exchanged)
- Always label the part that is inseparably connected to the cells

glichtonne, Computerbild  
schirm, Bildschirm,



# Down-sides of labeling

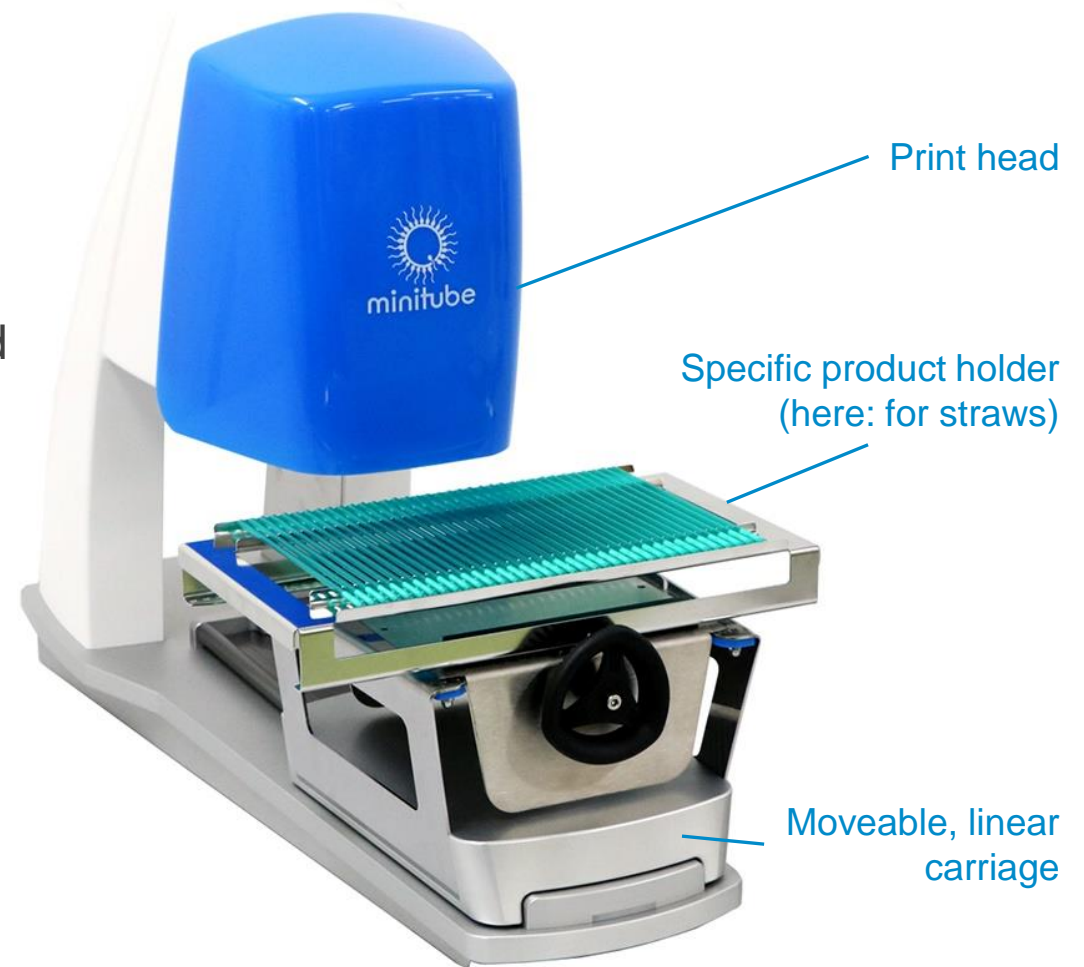
- Limited space on small or flat containers
- Labeling the bottom of a dish is tricky
- Labeling with tags takes time (enter text → print → attach)
- Embryotoxic VOCs emitted from label adhesives
- Ready-to-use, non-toxic custom labels can be very expensive



# MultiCoder – labeling like magic

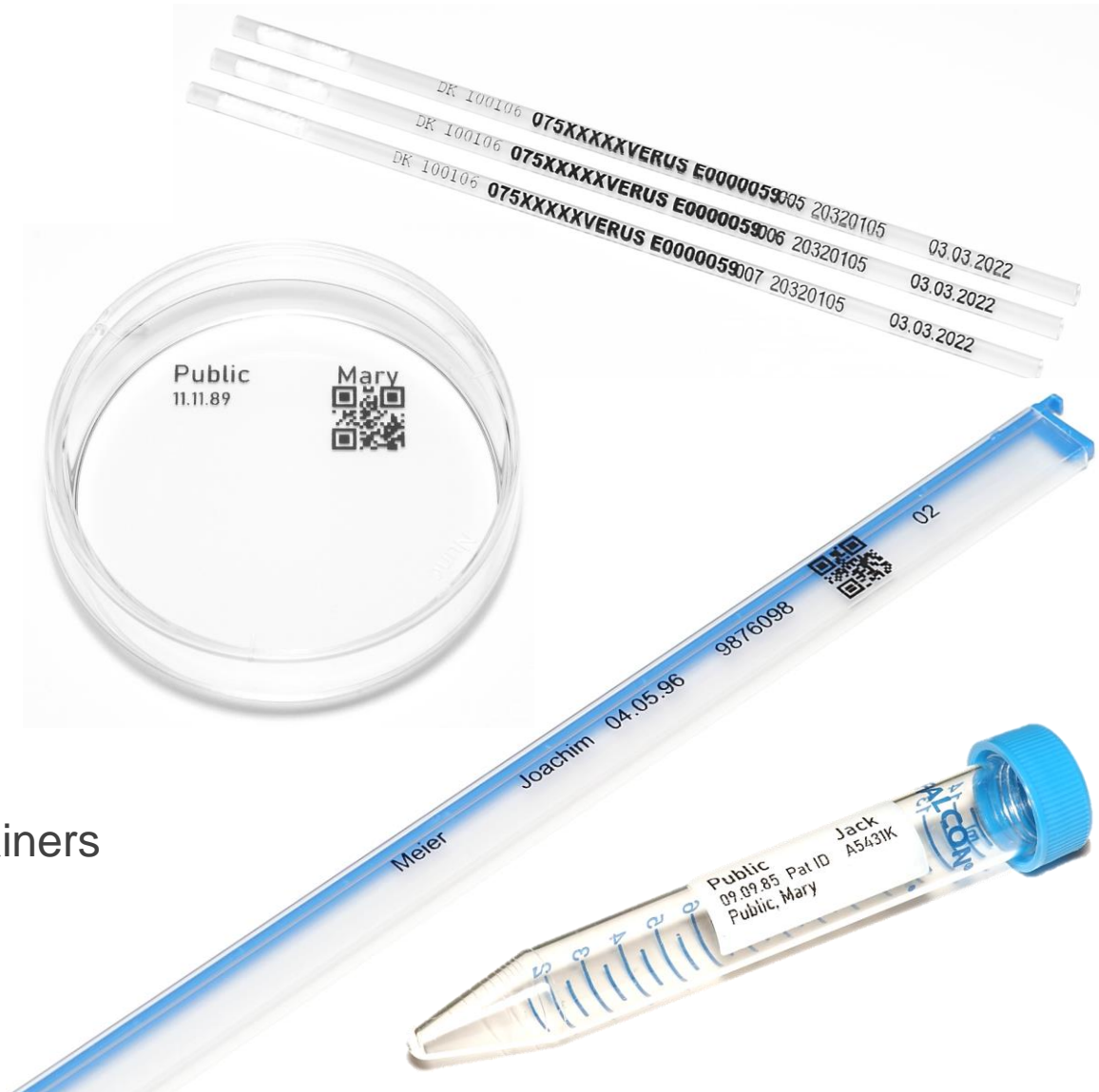
## A unique solution:

- Specifically designed to label multiple shapes and sizes of lab containers in low to medium numbers
- Products to be printed are placed in specific holders and manually moved under the print head on a linear carriage
- Significantly faster than handwriting or using adhesive labels
- Prints on plastic, glass or aluminum surfaces of dishes, tubes, cups, straws, vials, cassettes, goblets and many more
- Cryo-proof, abrasion-resistant inkjet print dries within seconds; virtually no VOC generation

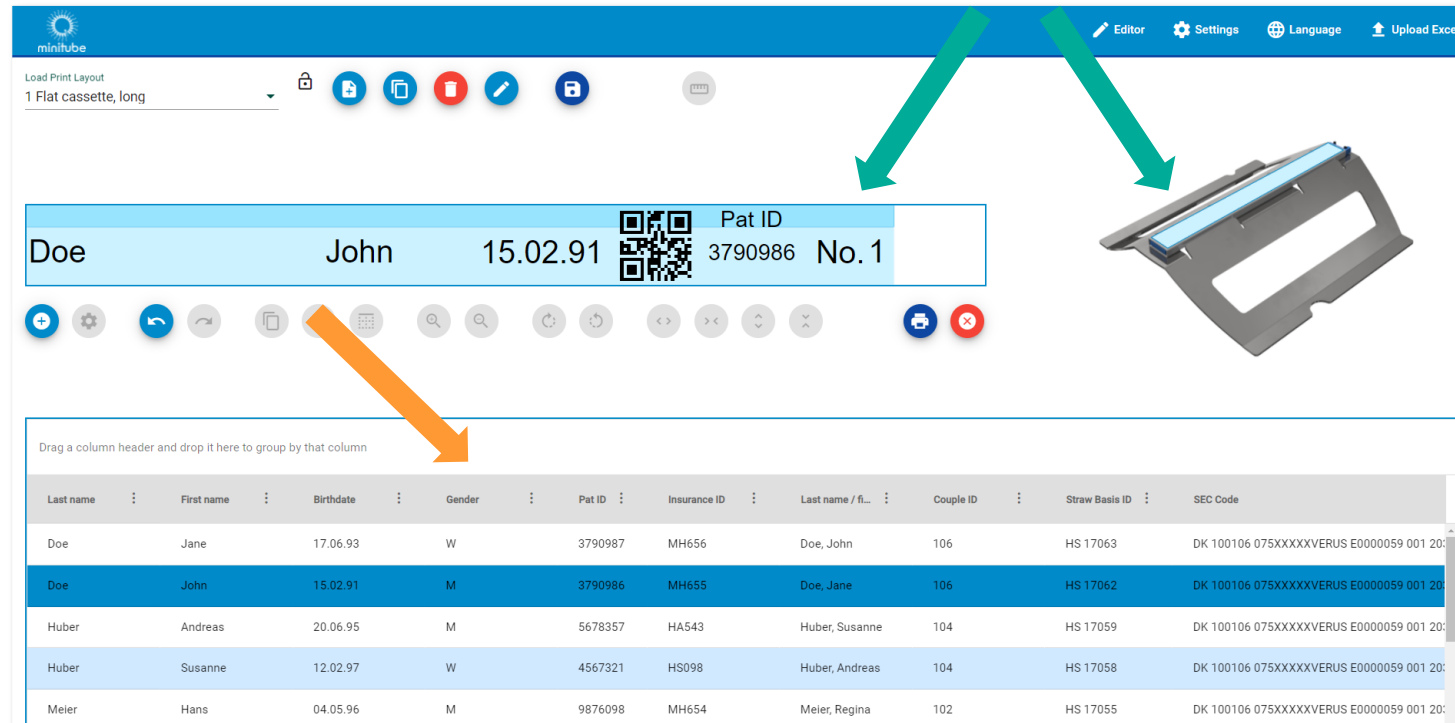


# MultiCoder features

- Freely selectable number of lines and print positions within print area
- Freely selectable character size and font
- Advanced printing options:
  - ✓ Mirrored print for labeling the bottom of dishes
  - ✓ Machine readable QR code or code 128
  - ✓ Automatic time stamp (date, time)
  - ✓ Automatic counter to number containers
  - ✓ Embedding of graphic logos
- Multiple print: simultaneous labeling of several containers
- All containers remain closed during labeling



# MultiCoder, practical use: software



minitube

Load Print Layout  
1 Flat cassette, long

Editor Settings Language Upload Excel

Doe John 15.02.91 Pat ID 3790986 No.1

Drag a column header and drop it here to group by that column

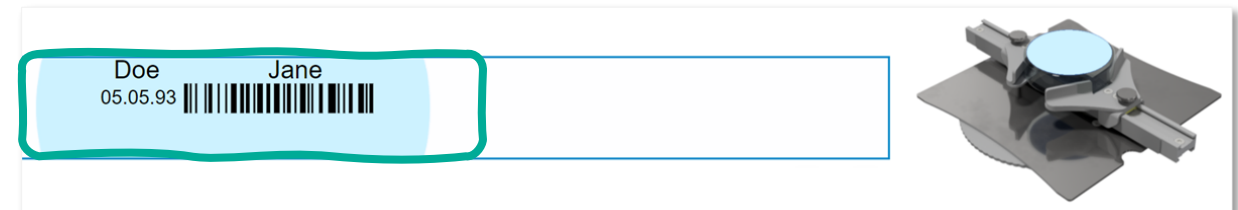
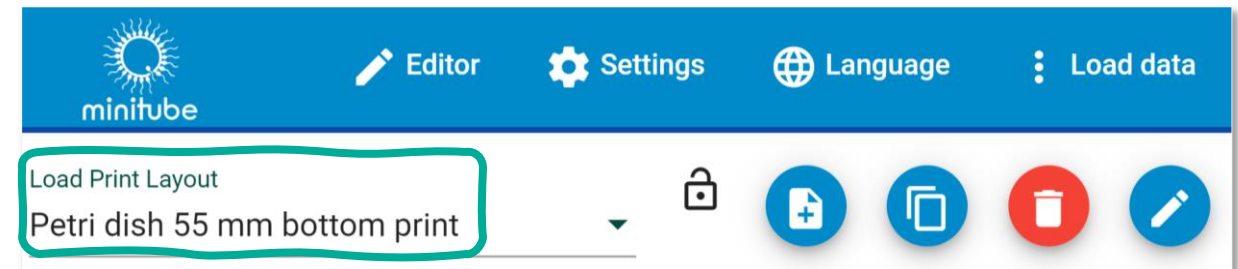
Last name	First name	Birthdate	Gender	Pat ID	Insurance ID	Last name / fl...	Couple ID	Straw Basis ID	SEC Code
Doe	Jane	17.06.93	W	3790987	MH656	Doe, John	106	HS 17063	DK 100106 075XXXXXVERUS E0000059 001 20:
Doe	John	15.02.91	M	3790986	MH655	Doe, Jane	106	HS 17062	DK 100106 075XXXXXVERUS E0000059 001 20:
Huber	Andreas	20.06.95	M	5678357	HA543	Huber, Susanne	104	HS 17059	DK 100106 075XXXXXVERUS E0000059 001 20:
Huber	Susanne	12.02.97	W	4567321	HS098	Huber, Andreas	104	HS 17058	DK 100106 075XXXXXVERUS E0000059 001 20:
Meier	Hans	04.05.96	M	9876098	MH654	Meier, Regina	102	HS 17055	DK 100106 075XXXXXVERUS E0000059 001 20:

- Intuitive, graphically animated software (web application)
- **Create your individual print templates** – for the containers you use, with the information you need
- **Import patient data for labeling** from an Excel file or via data interface

# MultiCoder, practical use: software

Printing on a patient's containers:

1. Select the print template for the container type to label and attach the corresponding product carrier to the printer
2. Select the patient from the patient table; her / his data will be shown on the print template („preview“)
3. Send the print command, load the product carrier with a container and slide it under the print head

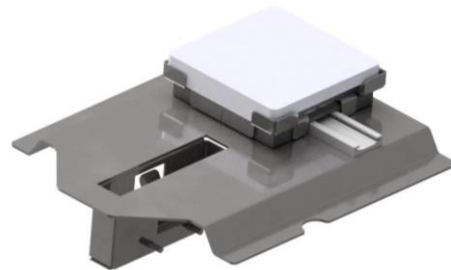


# MultiCoder, practical use: holders

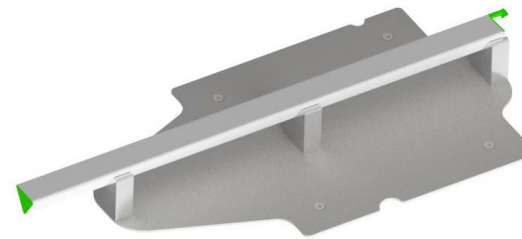
- Magnetic product holders can be changed within seconds, no tools needed
- Robust and easy to clean or sterilize
- Currently 13 holders available, 6 more coming soon



Round Petri dishes



Multi-well culture dishes



Triangular cassettes



Labeling tags for canes



Flat cassettes for straws



Straws 0.5 ml multi-print



Goblet 13 mm multi-print



Adapter for multi-print holders



# Your advantages

- ✓ Excellent readability of the print
- ✓ Even small or flat containers are easy to label
- ✓ Minimized risk of data transfer errors
- ✓ Space-efficient print allows to add more information
- ✓ Time-efficient labeling
- ✓ Robust, maintenance-free technology
- ✓ Low running cost
- ✓ Compact device with small footprint



# Watch the MultiCoder in action!



# MultiCoder, technical data

- Printer dimensions: 560 x 200 x 400 mm (D x W x H)
- Weight: approx. 10 kg
- Power consumption: 15 W max. (90 - 264 V AC, 50 – 60 Hz)
- Printable area: 12.5 x 150 mm max.
- Max. distance print head to printed surface: 3.5 mm
- Max. Resolution:
 

longitudinal to carriage movement	900 dpi
transverse to carriage movement	600 dpi
- Ink consumption: 15,000 straws 0.5 ml or 30,000 straws 0.25 ml or 5,000 goblets per cartridge, each printed on complete available surface
- Data interface: Ethernet (RJ45)
- System requirements:
 

Server: min. 8 GB RAM, min. 1 GB free hard disk space; Windows 10 or Windows Server 2008 R2 x64 (64-bit) SP1 / 2012 x64 (64-bit) / 2012 R2 x64 (64-bit) / 2016 x64 (64-bit) / 2019 x64 (64-bit)

Client: min. 500 MB free hard disk space; Webbrowser Google Chrome; recommended minimum resolution 1920 x 1080



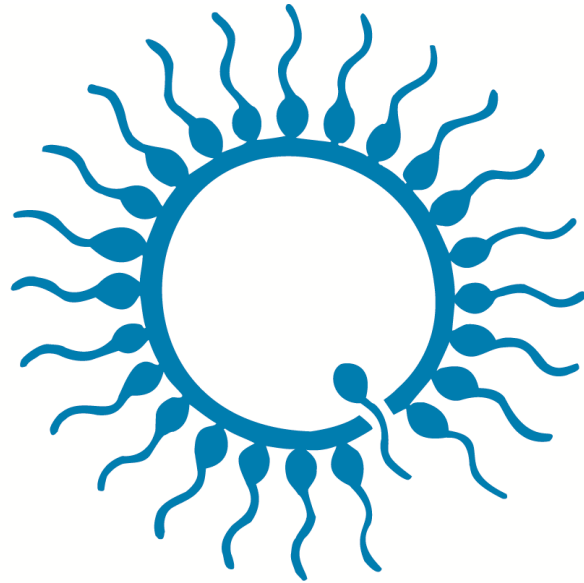
# System components

Ref. no.	Description
13145/0000	MultiCoder printer for lab items; prints directly on dishes, tubes, vials, cassettes, straws etc.
13145/0010	Ink cartridge for MultiCoder
13145/0100	Carrier for round goblets, 35 mm
13145/0101	Carrier for round goblets, 65 mm
13145/0102	Carrier for hexagonal goblets
13145/0219	Carrier for round goblets, 7.1 mm (multi-print)
13145/0220	Carrier for round goblets, 10 mm (multi-print)
13145/0221	Carrier for round goblets, 13 mm (multi-print)
13145/0103	Carrier for labeling tags for goblet canes (5 tags per print)
13145/0110	Carrier for flat cassettes, long and short
13145/0111	Carrier for triangular cassettes, long and short
13145/0200	Adapter for all multi-print product carriers
13145/0201	Carrier for straws 0.25 ml, 133 mm (multi-print)
13145/0202	Carrier for straws 0.5 ml, 133 mm (multi-print)
13145/0230	Loading block for straw carrier, straws 0.25 ml
13145/0231	Loading block for straw carrier, straws 0.5 ml
13145/0300	Carrier for round Petri dishes
13145/0301	Carrier for culture dishes, four or five wells

## Additional carriers to print on

- centrifuge tubes 50 ml
- centrifuge tubes 14-15 ml
- centrifuge tubes 5 ml
- Eppendorf reaction tubes
- cryo vials
- sperm collection cups

coming soon!



# minitube human art

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