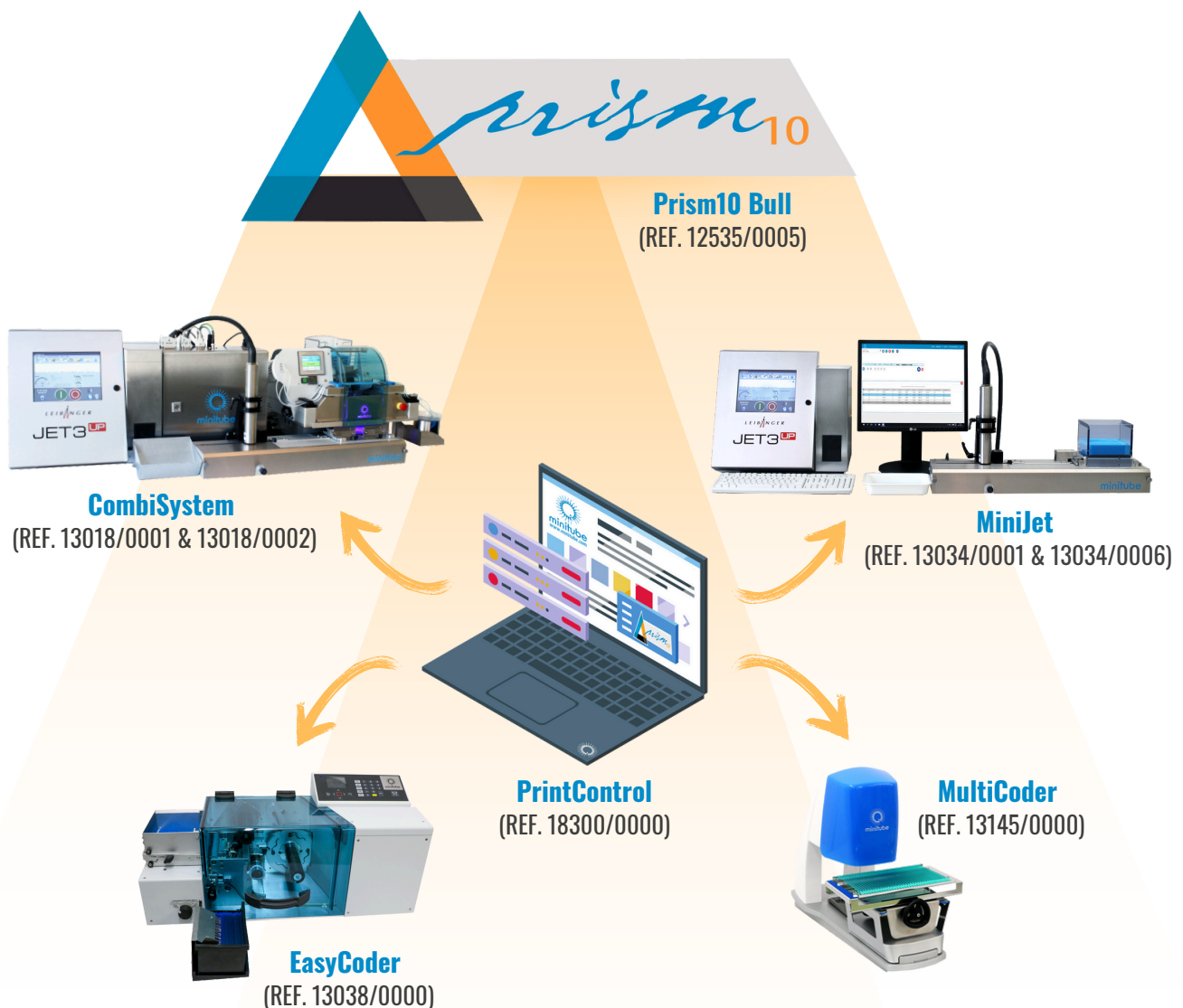# Traceability in AI through machine readable codes

Innovative printing solutions...

By seamlessly integrating laboratory software, printing software, and production machinery, we establish an error-free data flow, enabling comprehensive traceability throughout the entirety of the semen straw production process. Machine readable codes on straws can store a large amount of information in a very compact format, facilitating the transfer of information from the field back to the laboratory.

...for controlling semen production

Prism10 Bull
(REF. 12535/0005)

CombiSystem
(REF. 13018/0001 & 13018/0002)

MiniJet
(REF. 13034/0001 & 13034/0006)

PrintControl
(REF. 18300/0000)

MultiCoder
(REF. 13145/0000)

EasyCoder
(REF. 13038/0000)

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Minitube's new printing software, **PrintControl**, allows the user to create any number of different layouts. **Free text, database fields, codes, counters** etc. can be defined within these layouts. Once defined, these fields are automatically filled with the information when a data record is selected.

you see what you get

PrintControl
(REF. 18300/0000)

(+More benefits

+ Browser based and platform independent software
+ One software for all Minitube printers (MiniJet/CombiSystem, EasyCoder, MultiCoder)
+ Seamless data entry and editing via Prism10 Bull or Excel
+ Intuitive user interface and modern design
+ Clear print on straws of all colors and both 0.25 and 0.5 ml straws
+ Serialization with a continuous counter in both text and code
+ Print preview functionality for easy control of print results

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1D-Code
(all Minitube printers)

- Barcode (Code 128 B)
- Variable amount of characters
  (depending on length, independent of height)
- Proven and widely used technology
- Easy to scan with all standard readers and
  mobile devices
- High resolution and clear print on straws

2D-Code
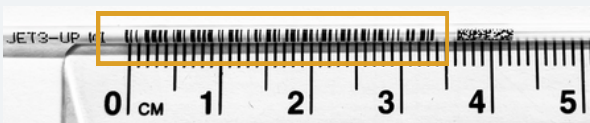### (MiniJet, CombiSystem)

- Datamatrix Code (rectangular or square* type)
- Variable amount of characters
  (depending on height and length)
- Decoding with special 2D code scanners or
  mobile devices
- High information density in a small space,
  multiple codes can be printed on one straw

*Square type not applicable on straw (limited space)

Comparison 1D-Code and 2D-Code

1D, e.g. 13 characters, 34 mm length

2D, e.g. 13 characters, 6 mm length

Possible 2D-Code lengths

	NUMERIC	ALPHANUMERIC	BINARY	EXAMPLE
8 X 18	10	6	3	
8 X 32	20	13	8	
8 X 48	36	25	16	
8 X 64	48	34	22	

True to scale

Recommended app

Try scanning Datamatrix codes with your smartphone using the Scanbot SDK app! Scan the QR code to download the app from your app store:
https://scanbot.io/de/products/barcode-software/

www.minitube.com

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ScanDMC

Smartphone holder that turns a standard smartphone into a reliable, low-cost data matrix code scanner for 0.25 ml or 0.5 ml straws.
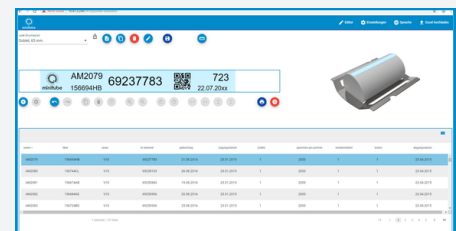
Ref. 13034/0020

(⭐ Product features

- Holds straws at the ideal scanning distance
- Eliminates reflections to improve accuracy
- Supports all Minitube semen straw colors
- Shields from ambient light and uses LED backlight (6 colors) for optimal illumination
- Includes a short double USB-C cable for power supply
- Compatible with all Android and Apple smartphones with a USB-C port
- Adjustable to fit any phone size and camera position

Data security and traceability during production, storage, and shipping.

💡 Printer options

Versatile printer for lab consumables

The **MultiCoder** prints machine-readable codes on various products, including straw storage systems like goblets, canes, and cassettes. [1]

1 REF. 13145/0000

Advanced software meets advanced equipment

The **JET3UP MI printerhead**, featuring precision inkjet technology, enables complex **Datamatrix codes** to be printed on straws. [2]

2 REF. 13034/0006

PART OF COMBISYSTEM
REF. 13018/0001

Inkless straw printing

The **EasyCoder** is a thermal transfer printer with automatic straw supply for printing bar codes, logos, and special characters. [3]

3 REF. 13038/0000

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