

A close-up photograph of the SlideFeeder x80 robotic exchange system. The device is a complex piece of machinery with a black frame and metallic components. A central tray is extended, holding a row of five slides. Each slide has a white label with a QR code and a barcode. The background shows a laboratory setting with a computer monitor and other equipment.

## SlideFeeder x80

Scalable Hardware  
Add-ons for  
Large Laboratories

The SlideFeeder x80 is a robust and secure robotic exchange system for high-volume scanning. A bar code reader and an immersion oil dispenser are additional tools for an advanced level of automation. Together with the slide scanning software Metafer and appropriate imaging hardware, the scanning capacity is increased up to 800 slides and continuous 24/7 operation is made possible.

## Slide Magazines

A fully equipped SlideFeeder x80 hosts 10 magazines plus one bar code reader. Each magazine can hold 16 frames with 5 slides each which makes 800 slides in total.

Magazines are portable and can easily be carried to the workbench for loading. Due to intelligent sensor technology, the SlideFeeder x80 recognizes how many magazines and frames are available.

The magazines can also be exchanged during scanning. This allows all imaging systems run with the Metafer software to function as full-time image servers - 24 hours per day, 7 days a week.



## Feeder Module

The motorized feeder module rotates horizontally to pick the slide frames from the magazines and to deliver them to the microscope stage. Frames in magazines are identified by sensors and detected by bar codes. Metafer is always aware of the position of each single frame in the operated system.

## Slide Frame

Slides are mounted in robust metal slide frames. A standard slide frame holds 5 regular microscopy slides.

Solutions by MetaSystems also offer a variety of other slide frames, e.g., for microwell plates, for the high-throughput Comet assay, and for other samples with a different geometry than standard slides.





## Base Plate

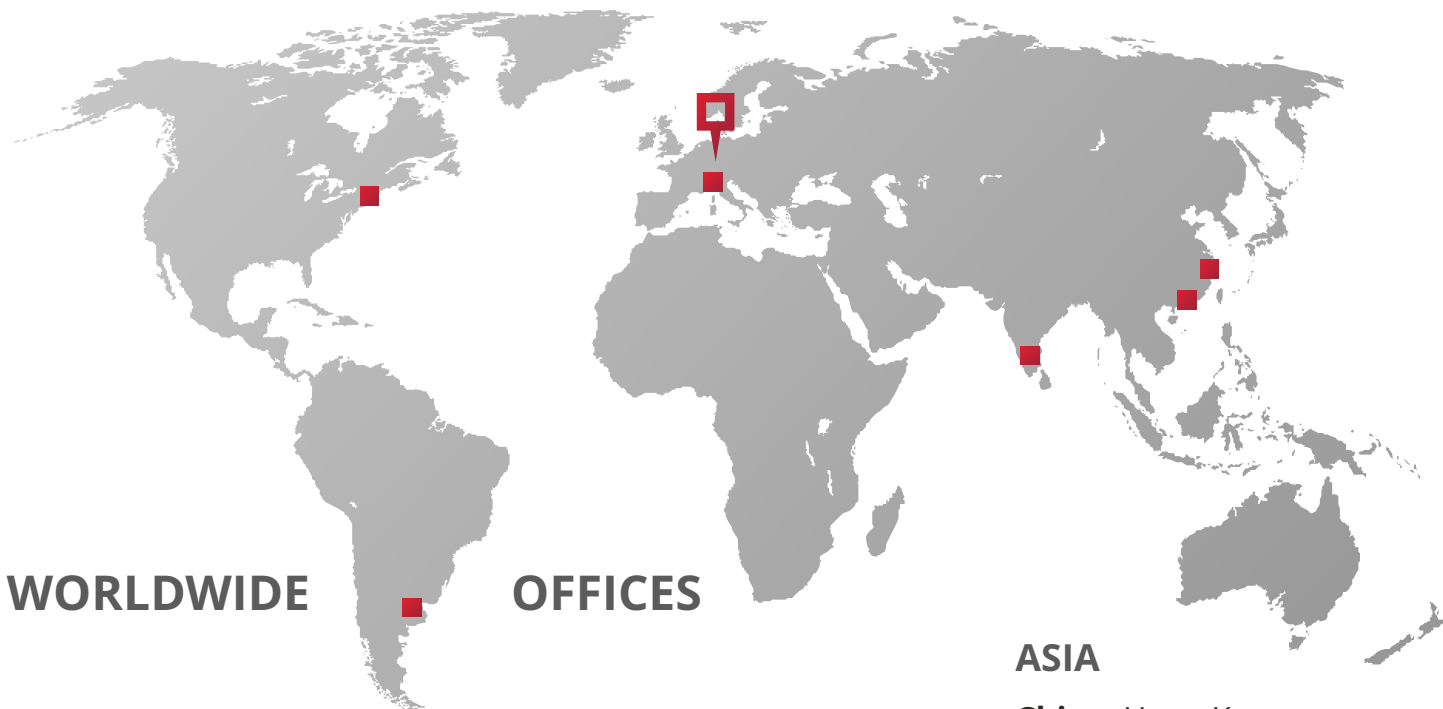
The robotic module of the SlideFeeder x80, the microscope, and the positioning knobs for the magazines are mounted on robust base plates.

Base plates are available in 3 different sizes, depending on the capacity of the SlideFeeder x80.

## Bar Code Reader & AutoOiler

The bar code reader interprets frame and slide bar codes, and it also acquires photos of handwritten marks on the slides' frosted ends. In combination with the automated immersion oil dispenser called AutoOiler, a high degree of automation can be achieved.





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The described functions refer to the following software versions: **Metafer 4.3**

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SlideFeeder x80, Bar Code Reader, and AutoOiler are manufactured by IML Instrumenta Mechanik Labor System GmbH, Germany.

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