

Tissue Microarrays

TMA Grand Master® & TMA Master II®

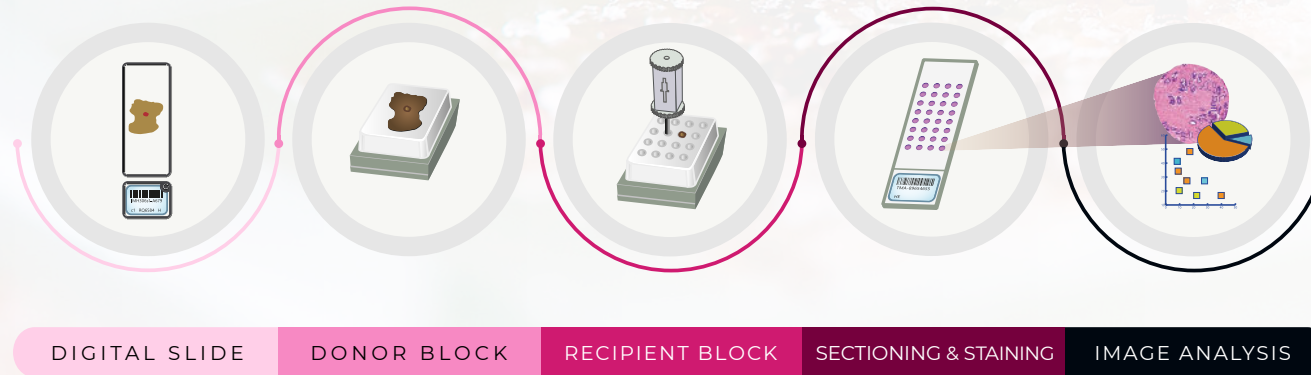
High-speed, fully automated TMA solutions for all needs.



- **Time-saving** with improved precision
- **Reduced workload** for lab personnel
- **Cost saving** on reagents and slides

Tissue Microarrays

The tissue microarray (TMA) technique can be used as a valuable, high-throughput tool for diagnostic and research purposes: by being able to place up to several hundred different samples into one paraffin block, TMA saves time and costs of tissue preparation, slide preparation, and staining. However, due to their low capacity and speed, manual or semi-automatic TMA devices fail to fully utilize the advantages of the TMA technique.



- **Digital Slide**

Mark the relevant area with SlideViewer® software.

- **Donor Block**

Find the same area by using TMA Control® software.

- **Recipient Block**

Insert the selected tissue core(s).

- **Sectioning & Staining**

All the histochemical and molecular detection techniques are working with TMA sections too.

- **Image Analysis**

Scan your stained TMA slide. Find the TMA spots and score them with SlideViewer®* software.

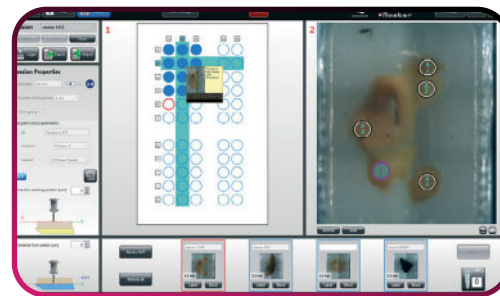


Thanks to their fully automated operation, TMA solutions from 3DHISTECH speed up the laboratory workflow, resulting in cost savings and reduced workload for pharmaceutical companies, research centers, biobanks, or routine pathology laboratories of all sizes.

Key Features

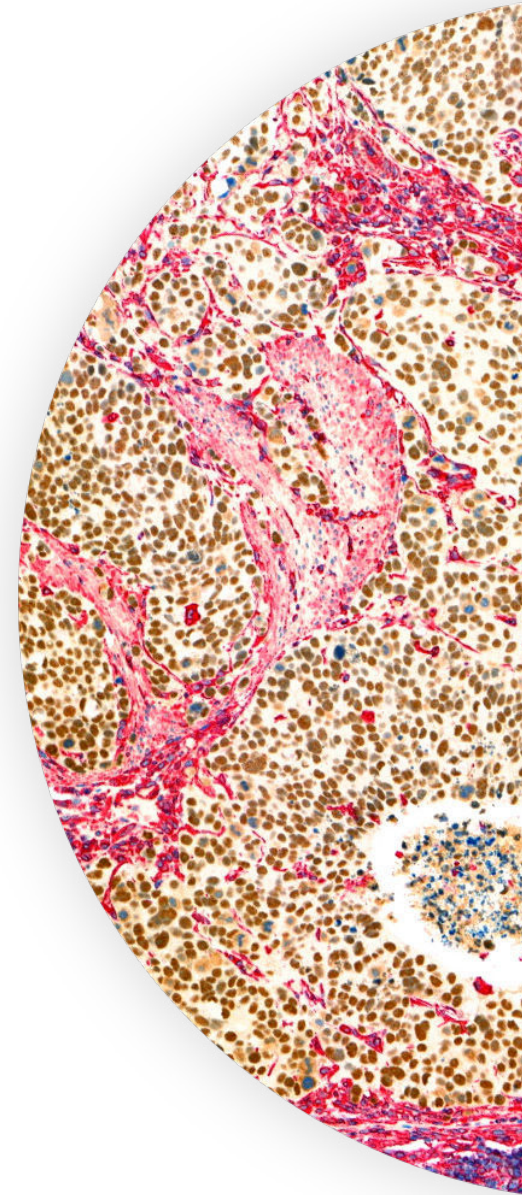
Hardware designed for fully automated, high-throughput operation

- Automatic recipient block creation by drilling
- Automatic block height and tool size measurement for precise operation
- More than 500 samples in one block
- Simultaneous loading, imaging, drilling, and punching (TMA Grand Master® only)



Flexible options for a wide range of requirements in research or routine pathology

- Multiple core diameter options 0.6, 1, 1.5 and 2 mm
- Software solutions for TMA analysis (optional)
- Extraction of tissue samples in PCR tubes for molecular (gene sequencing, PCR, etc.) analysis (optional)
- 1D and 2D barcode reading, the barcode string can be used as a unique block ID or as additional sample information (optional)



TMA Control® software for TMA block design and creation

- Recipient block layout designer
- Donor block data (donor block ID and/or tissue type, previous diagnostic data, patient data) import from various spreadsheet formats (ODS, XLS, XLSX)
- Digital slide overlay functionality to superimpose an annotated digital slide and/or a JPEG image with the donor block image for a more precise sample selection
- Enhanced data security with automatic saving and reloading of project data language localization

TMA Register® software for TMA data management and TMA slide design

- Works on the TMA machine's control unit or on a remote PC as well
- TMA data export in various spreadsheet formats (ODS, XLS, XLSX, CSV)
- Advanced search functionality: search for any TMA- or tissue sample-related data from the TMA Database
- Registration of TMA slides, for planning and creating TMA block sectioning and TMA slide staining protocols
- Ability to check if TMA slides planned in TMA Register® are scanned and ready for inspection**
- TMA decoring functionality for TMA slides planned in TMA Register®**

TMA Function® Plugin in SlideViewer®: ideal for TMA spot detection and analysis

- Spot finding
- Quantitative immunostain intensity measurement (optional)

**SlideCenter® connection is needed for these features.

	TMA MASTER II®	TMA GRAND MASTER®
Capacity (blocks)	5 (donor or recipient)	72 (60 donor, 12 recipient)
Speed (cores transferred per hour)	200-250	250-280
Tool sizes (in millimeters)	0.6, 1, 1.5, 2	
Max number of cores per TMA block	558 (0.6 mm), 286 (1 mm), 135 (1.5 mm), 84 (2 mm)	
Data export formats	ODS, XLS, XLSX, CSV, XML	
Dimensions (W x D x H in centimeters)	38 x 24 x 29	80 x 50 x 46
Weight (kg)	8	48



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for scanning test!

