

Anexa 47, Microtom manual

M- 240, Especialidades Médicas Myr S.L., Spania, Numar de inregistrare: DM000284044

Parametri solicitati	Parametri oferiti
<p>"1. Să dețină reglaj fin al grosimii de secționare minim 1 – 60 μm.</p> <p>2. Plaja de alimentare orizontala de maxim 28 mm.</p> <p>3. Cursa verticala specimen de minim 64 mm.</p> <p>4. Dotat cu posibilitate de retragere a specimenului la cursa de întoarcere, care poate fi oprită.</p> <p>6. Grosime secțiune fasonare rapida 10 μm si 30 μm.</p> <p>7. Roata pivotanta integrată ce se poate bloca în orice poziție.</p> <p>8. Să aibă orientare fină pe 2 X/Y +/- 8°.</p> <p>9. Să dețină adaptabilitate pentru fiecare clema de specimen.</p> <p>10. Suport combinat pentru lame, atât pentru cuțite cu profil lat, cit si pentru cuțite cu profil îngust.</p> <p>11. Tava detașabilă cu suport ergonomic pentru mână.</p> <p>12. Tava să fie amplasată și sub suportul de cuțit pentru curățare ușoară.</p> <p>13. Să fie livrat standard cu: husa anti praf, 1 cutie (50buc) lame profil îngust, 1 sticlută cu ulei de ungere, 1 perie cu magnet, clemă universală pentru fixarea casetelor și clemă pentru fixare super casete. Anul de producere: minim 2023.</p> <p>Cerințe de certificare: Certificat CE sau declarație de conformitate CE cu anexele corespunzătoare pentru produsele oferite, valabil, copie confirmată prin semnătura și ștampila participantului și certificat IVD.</p> <p>Termen de garanție: ≥ 36 luni</p> <p>Instalare, darea in exploatare, instruirea de către participantul câștigător - obligatoriu</p> <p>Training pentru utilizatori la instalare și la solicitare - obligatoriu. Servicii de mentenanță preventivă pe perioada de garanție. Documente confirmative: Manual de service si manual de utilizare in conformitate cu LEGEA Nr. 102 cu privire la dispozitivele medicale din 09.06.2017, capitolul 4 Articolul 14. P. 3. Ghid rapid al utilizatorului (max. 4 pagini A4), in limba de stat-obligatoriu."</p>	<p>"1. Să dețină reglaj fin al grosimii de secționare minim 0,5 – 100 μm.</p> <p>2. Plaja de alimentare orizontala 28 mm.</p> <p>3. Cursa verticala specimen 72 mm.</p> <p>4. Dotat cu posibilitate de retragere a specimenului la cursa de întoarcere, care poate fi oprită. Selectable between 5 – 250 μ, Default value: 40μ. Optional function that can be deactivated</p> <p>6. Grosime secțiune fasonare rapida 10 μm si 30 μm.</p> <p>7. Roata pivotanta integrată ce se poate bloca în orice poziție.</p> <p>8. Are orientare fină pe 2 X/Y +/- 8°.</p> <p>9. Deține adaptabilitate pentru fiecare clema de specimen.</p> <p>10. Suport combinat pentru lame, atât pentru cuțite cu profil lat, cit si pentru cuțite cu profil îngust. Blade Holder Type Two in One for high and low profile blades</p> <p>11. Tava detașabilă cu suport ergonomic pentru mână.</p> <p>12. Tava este amplasată sub suportul de cuțit pentru curățare ușoară.</p> <p>13. Va fi livrat standard cu: husa anti praf, 1 cutie (50buc) lame profil îngust, 1 sticlută cu ulei de ungere, 1 perie cu magnet, clemă universală pentru fixarea casetelor și clemă pentru fixare super casete. Anul de producere: minim 2023.</p> <p>Cerințe de certificare: Certificat CE sau declarație de conformitate CE cu anexele corespunzătoare pentru produsele oferite, valabil, copie confirmată prin semnătura și ștampila participantului și certificat IVD.</p> <p>Numar de inregistrare: DM000284044</p> <p>Termen de garanție: 36 luni</p> <p>Instalare, darea in exploatare, instruirea de către participantul câștigător - obligatoriu</p> <p>Training pentru utilizatori la instalare și la solicitare - obligatoriu. Servicii de mentenanță preventivă pe perioada de garanție. Documente confirmative: Manual de service si manual de utilizare in conformitate cu LEGEA Nr. 102 cu privire la dispozitivele medicale din 09.06.2017, capitolul 4 Articolul 14. P. 3. Ghid rapid al utilizatorului (max. 4 pagini A4), in limba de stat-obligatoriu."</p>

SPECIFICATIONS

Section thickness

Total range in (μ)	0,5- 100
Thickness settings in (μ):	0,5- 5 in increments of 0,5
	5- 20 in increments of 1
	20- 60 in increments of 5
	60- 100 in increments of 10

Trimming

Total range in (μ)	1- 600
Thickness settings in (μ)	1- 10 in increments of 1
	10- 20 in increments of 2
	20- 50 in increments of 5
	50- 100 in increments of 10
	100- 600 in increments of 50

Specimen feed (mm) 28 ± 1mm

Vertical stroke (mm) 72 ± 1mm for sectioning of mega-cassettes

User interface 7" capacitive touchscreen display

Operating modes Rotational or Rocking (selectable)

Specimen retraction

Total range (μ) Selectable between 5 – 250
Default value: 40μ
Optional function that can be deactivated

Motorized coarse feed (μm/sec)

300 (slow speed forward)
800 (fast speed forward)
1800 (superfast speed backwards)
Additional function for forward/backward feed in step mode

Blade Holder Type Two in One for high and low profile blades

Max. specimen size (mm) 68x48x15 (w x h x d)
Super Cassete Clamp 68x48x15

Specimen orientation ± 8° horizontal and vertical
Rotational capability: 360°
Indication of 0-position by means of click (x and y)

Power requirements 100-240 VAC / 50-60Hz
Consumption (VA) 40

Dimensions

Width (mm) 465
Depth with tray (mm) 540
Height (mm) 298
Weight (kg) 33,9



M240-4002C



M240-4101



M240-2200



M240-2100

ORDERING INFORMATION

M240-01: Microtome with knife carrier MR (for High and Low profile blades, lateral adjustment), quick release clamp.

M240-02: Microtome with knife carrier MR, (for High and Low profile blades, lateral adjustment), standard specimen clamp.

M240-03: Microtome with knife carrier ME (for High and Low profile blades, no lateral adjustment), quick release clamp.

M240-04: Microtome with knife carrier ME, (for High and Low profile blades, no lateral adjustment), standard specimen clamp.

OPTIONAL ACCESSORIES

M240-1000: Fixed specimen head

M240-1100: Orienting specimen head

M240-2100: Standard specimen clamp 55x50 mm

M240-2200: Universal specimen clamp (Quick Release Clamp)

M240-4002C: Knife carrier for disposable blades, model MR

M240-4101: Knife carrier for disposable blades, model ME

M240-4201: Knife carrier for standard knives, model MN

M240-4301: Knife carrier for standard knives, model MC

Especialidades Médicas Myr S.L.

ISO 9001 / 13485 certified company

Lleida, 17-23

43712 Llorenç del Penedès - Spain

Tel. +34 977 66 8020

Fax. +34 977 66 8030

esp.medicas@myr.com.es

www.myr.com.es

Local Distributor. Contact information.

Myr

Devoted to Histology

SEMI-AUTOMATED ROTARY MICROTOME

M-240

The Cut at its Finest



SEMI-AUTOMATED ROTARY MICROTOME

M-240

The M-240 microtome from **Myr** uses state-of-the-art technology and embodies the company's commitment to quality and excellence in the microtomy.

It provides the operational convenience and the stability required for outstanding sectioning in routine, research and industry applications.



USER FRIENDLY INTERFACE

Full color TFT 7" display with PCAD (projected capacitive) touchscreen. Size and tilt of the display allow an easy and effortless selection of the parameters and increase user safety.

All required parameters and functions are available on the main screen: section mode, section and trimming thickness, section counter, section sum, remaining travel, retraction and coarse feed, memory function.

MEMORY FUNCTION

MEM key for higher productivity, to retrieve previous cuttings settings when working with uniform paraffin blocks. By simply pressing a key, the specimen moves into the stored MEM position.

Additional safety feature available to change the specimen safely by adding an extra "safety distance" to the position stored in memory.

SPACIOUS WASTE TRAY

Special antistatic coating prevents paraffin adhesion and minimizes the cleaning time.

Ergonomic design with surface for arm rest.

Wide area on the top of the microtome for the storage of tools.

SMOOTH AND ERGONOMIC HANDWHEEL

The handwheel is perfectly balanced thanks to an innovating counterweight system and can be locked in any angular position.

Cutting can be done by turning the handwheel clockwise or counterclockwise.

Smooth-working handwheel to minimize user fatigue.

SPECIMEN ORIENTING HEAD

Thanks to a blocking mechanism the easy to operate change system allows to work with different specimen clamps.

Indication of 0-position in x and y direction by palpable "click" for the precise alignment of the specimen.

QUICK RELEASE SPECIMEN CLAMP

Cutting-edge design of the specimen clamp that prevents building up of dirt and facilitates operations with the microtome.

The retraction function, that can be deactivated, helps extending the blade's shelf life.



MOTORIZED SPECIMEN FEED

Precise, motorized coarse feed in two modes, continuous and step.

In continuous mode, speed is selectable between slow and fast to ensure a controlled specimen approach.

KNIFE CARRIER SYSTEM

Blade holder slides sideways in both directions allowing the use of the entire cutting edge. It accepts low- and high-profile blades.

All blade holders are equipped with finger guard for safety reasons.



M-240**M-250****SPECIFICATIONS****Section thickness**

Total range in (μ)	0,5 - 100	0,5 - 100
Thickness settings in (μ)	0,5 - 5 in increments of 0,5 5 - 20 in increments of 1 20 - 60 in increments of 5 60 - 100 in increments of 10	0,5 - 5 in increments of 0,5 5 - 20 in increments of 1 20 - 60 in increments of 5 60 - 100 in increments of 10

Trimming

Total range in (μ)	1 - 600	1 - 600
Thickness settings in (μ)	1 - 10 in increments of 1 10 - 20 in increments of 2 20 - 50 in increments of 5 50 - 100 in increments of 10 100 - 600 in increments of 50	1 - 10 in increments of 1 10 - 20 in increments of 2 20 - 50 in increments of 5 50 - 100 in increments of 10 100 - 600 in increments of 50

Specimen feed (mm)	28 ± 1mm	28 ± 1mm
---------------------------	----------	----------

Vertical stroke (mm)	72 ± 1mm for sectioning of mega-cassettes	72 ± 1mm for sectioning of mega-cassettes
-----------------------------	---	---

User interface	7" capacitive touchscreen display	7" capacitive touchscreen display
-----------------------	-----------------------------------	-----------------------------------

Operating modes	Manual: Rotational and Rocking	Manual: Rotational and Rocking Motorized: Interval, Single, Continuous and Multi Stroke
------------------------	--------------------------------	--

Specimen retraction		
Total range (μ)	Selectable between 5 – 250 Default value: 40μ Optional function that can be deactivated	Selectable between 5 – 250 Default value: 40μ Optional function that can be deactivated

Motorized coarse feed (μm/sec)	300 (slow speed forward) 800 (fast speed forward) 1800 (superfast speed backwards) Additional function for forward/ backward feed in step mode	300 (slow speed forward) 800 (fast speed forward) 1800 (superfast speed backwards) Additional function for forward/ backward feed in step mode
---------------------------------------	---	---

Sectioning speed		0,5 - 450 mm/sec
-------------------------	--	------------------

Blade holder type	Two in One for high and low profile blades	Two in One for high and low profile blades
--------------------------	--	--

Max. specimen size (mm)	50x60x40 (w x h x d) Super Cassete Clamp 68x48x15	50x60x40 (w x h x d) Super Cassete Clamp 68x48x15
--------------------------------	--	--

Specimen orientation	± 8º horizontal and vertical Rotational capability: 360º Indication of 0-position by means of click (x and y)	± 8º horizontal and vertical Rotational capability: 360º Indication of 0-position by means of click (x and y)
-----------------------------	---	---

Power requirements	100-240 VAC / 50-60Hz	100-240 VAC / 50-60Hz
Consumption (VA)	40	100

Dimensions		
Width (mm)	465	465
Depth with tray (mm)	540	540
Height (mm)	298	298
Weight (kg)	33,9	39

Do you want to know more about us?

**Myr**

Devoted to Histology ■

AUTOMATED AND SEMI-AUTOMATED ROTARY MICROTOMES

The Cut at its Finest

**Contact Us****Especialidades Médicas Myr S.L.**

ISO 9001 / 13485 certified company
Lleida, 17-23
43712 Llorenç del Penedès - Spain

Tel. +34 977 66 8020
Fax. +34 977 66 8030
esp.medicas@myr.com.es
www.myr.com.es

Local Distributor. Contact information.

Myr

OUR MICROTOMES

M-240 and M-250

The M-240 and M-250 microtome's use state-of-the-art technology and embody the company's commitment to quality and excellence in the microtomy. It provides the operational convenience and stability required for outstanding sectioning in routine, research and industry applications.

GENERAL FEATURES

USER FRIENDLY INTERFACE

Full-colour TFT 7" display with PCAD (projected capacitive) touchscreen. The size and tilt of the display allow an easy and effortless selection of the parameters and increased user safety. All required parameters and functions are available on the main screen.



KNIFE CARRIER SYSTEM

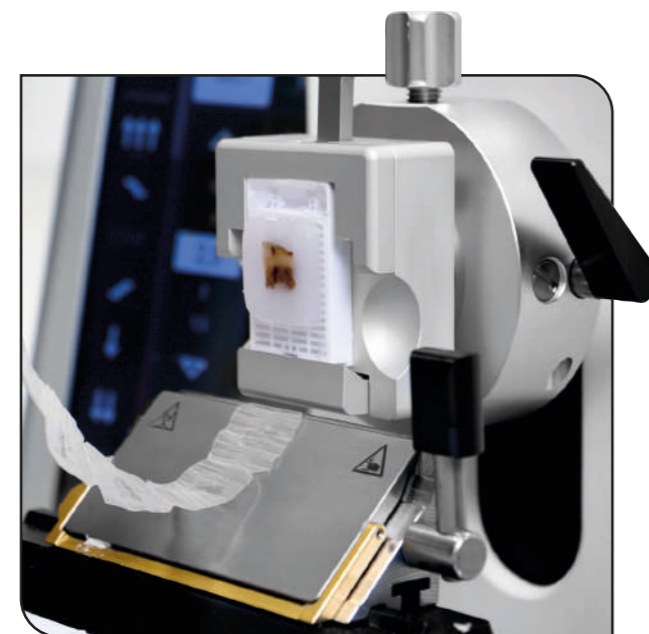
Blade holder slides sideways in both directions allowing the use of the entire cutting edge. It accepts low- and high-profile blades. All blade holders are equipped with finger guard for safety reasons.

MOTORIZED SPECIMEN FEED

Motorized coarse feed modes of operation, continuous and by step, can be accessible through the touchscreen. In continuous mode, speed is selectable between slow and fast to ensure a controlled specimen approach. For rapid movement to the home position, integrated superfast backwards speed.

SPECIMEN ORIENTING HEAD

Indication of 0-position in x and y direction by palpable "click" for the precise alignment of the specimen. The 360° rotational capability of the specimen clamp and 8° mobility range along the x and y-axis of the orienting specimen head enables higher precision and alignment.



SPACIOUS WASTE TRAY

High volume waste tray (1.7 Liters) with special antistatic coating that prevents paraffin adhesion and minimizes the cleaning time. Additional design includes a surface for arm rest and an area on the top of the instrument for tool storage.

EXCLUSIVE M-250 FEATURES

LATERAL BUTTON

Embedded in the left side of the automatic microtome for speed/start-stop functions. It is possible to adjust the cutting speed while the motorized cutting is running.

ELECTRONIC BRAKE

Once the automatic sectioning mode is paused, the electronic brake automatically activates, or alternatively, when sectioning manually, it can be activated by pressing the brake key on the touchscreen.

EXTERNAL PANEL

The entire touch screen functions are integrated into the external control panel for higher adaptability to technicians' preferences.

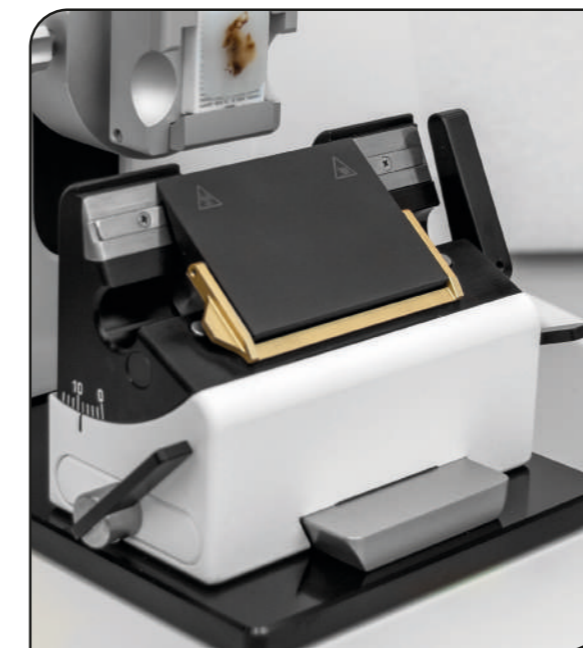
Optionally available.

FOOTSWITCH

Optionally available.

SMOOTH AND ERGONOMIC HANDWHEEL

The handwheel is perfectly balanced thanks to an innovative counterweight system and can be locked in any angular position. Cutting can be done by turning the handwheel clockwise or counterclockwise, and its motion smoothness minimizes user's fatigue.



BLADE HOLDERS AND CLAMPS



ORDERING INFORMATION

- M250-01** Microtome with knife carrier MR (for High and Low profile blades, lateral adjustment), quick release clamp.
- M240-01**
- M250-02** Microtome with knife carrier MR, (for High and Low profile blades, lateral adjustment), standard specimen clamp.
- M240-02**
- M250-03** Microtome with knife carrier ME (for High and Low profile blades, lateral adjustment), quick release clamp.
- M240-03**
- M250-04** Microtome with knife carrier ME, (for High and Low profile blades, lateral adjustment), standard specimen clamp.
- M240-04**

OPTIONAL ACCESSORIES

- M250-1000:** Footswitch
- M250-2000:** External control panel
- M240-1000:** Fixed specimen head
- M240-1100:** Orienting specimen head
- M240-2100:** Standard specimen clamp 55x50 mm
- M240-2200:** Universal specimen clamp (Quick Release Clamp)
- M240-4002C:** Knife carrier for disposable blades, model MR
- M240-4101:** Knife carrier for disposable blades, model ME
- M240-4201:** Knife carrier for standard knives, model MN
- M240-4301:** Knife carrier for standard knives, model MC

ESSENTIAL ACCESSORIES

DISPOSABLE BLADES



MCUT microtome disposable blades are aimed to section the specimens at a certain selected stable thickness through required technical expertise such as sophisticated heating processes and polishing/coating techniques.

REF.	Description	Edge angle	length x height x thickness
MCUT-3508	Disposable microtome blades (low profile)	35°	80 x 8 x 0,25 mm
MCUT-3514	Disposable microtome blades (high profile)	35°	80 x 14 x 0,25 mm



Especialidades Médicas **Myr** S.L



EC Declaration of Conformity / *Declaración de Conformidad CE*

Manufacturer / *Fabricante*

Especialidades Médicas MYR S.L.

C/ Lleida 17-23 - 43712 Llorenç del Penedès - Tarragona - Spain

We declare under our own responsibility that the product / *Declaramos bajo nuestra responsabilidad que el producto*

Microtome M-240 / *Microtomo M-240*

meets all the requirements of the following European Directives that are applicable
cumple todos los requisitos aplicables de las siguientes Directivas Europeas

98/79/EC:	In Vitro Diagnostic Devices Directive Classification: General IVD (Other), neither listed in Annex II of IVD 98/79/EC nor IVDs for self-testing purpose
2014/30/EU:	Electromagnetic Compatibility (EMC) Directive
2014/35/EU:	Low Voltage Directive
2011/65/EU:	Restriction of the Use of Hazardous Substances in electrical and electronic equipments (RoHS) Directive

The product is designed and manufactured according to the relevant parts of the following International Standards
El producto está diseñado y fabricado de acuerdo con las partes relevantes de los siguientes estándares

IEC 61010-1: 2010 + A1:2016	IEC 61010-2-101: 2015
EN 61326-1: 2013	EN 61326-2-6: 2013
EN ISO 14971: 2012	

In addition, the following standards are applied:

Además, la empresa trabaja de acuerdo con las siguientes normas:

ISO 9001-2015:	Quality Management system
ISO 13485-2016:	Medical Devices - Quality Management system

Llorenç del Penedès, 19/06/2019

Francisco Ruiz Robles
Managing Director / *Director General*

Certificate

AENOR has issued an IQNET recognized certificate that the organization:

ESPECIALIDADES MEDICAS MYR, S.L.

CL LLEIDA, 17-23.
43712 - LLORENÇ DEL PENEDES
(TARRAGONA)

has implemented and maintains a/an
Medical devices – Quality Management Systems

for the following scope:

Design, development and production of machines for preparation of all types of human tissues for in vitro diagnostic.

which fulfils the requirements of the following standard

ISO 13485:2016

First issued on: 2014-03-28 Last issued: 2023-03-28 Validity date: 2026-03-28

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: **ES-GS-0002/2014**



Alex Stoichitoiu
President of IQNET



Rafael GARCÍA MEIRO
CEO

AENOR
Confía

This attestation is directly linked to the IQNET Member's original certificate and shall not be used as a stand-alone document.

IQNET Members*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy CQC China CQM China CQS Czech Republic
Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA FCAV Brazil FONDONORMA Venezuela ICONTEC
Colombia ICS Bosnia and Herzegovina Inspecta Sertifointi Oy Finland INTECO Costa Rica IRAM Argentina JQA Japan KFO Korea
LSQA Uruguay MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland NYCE-SIGE México PCBC Poland Quality Austria
Austria SII Israel SIQ Slovenia SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TSE Türkiye YUQS Serbia

* The list of IQNET Members is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com