Casa Álvarez, Material Científico, S. A. founded in 1912 by Mr. Manuel Álvarez, has more than one hundred years history. After more than a century in the field of Histopathology and Cytology, we make an assessment of the evolution of the company over these years.

Its start was based on the supply of the reputable microscopes from the firm Zeiss to the universities. Afterwards, requests for other products were increasing, and items with our brand M. Alvarez were added to the sales catalog as stoves, baths, lamellae filing cabinets, products manufactured in glass including blown flasks, test tubes, pipettes, and so on. The first contractually represented firm was Ernst Leitz Wetzlar, gmbh (Germany), later acquired by the Swiss company Wild Heerbrugg AG. With these two represented firms we expanded very significantly the microscopy and microtomy market in the hospital, university, research and industry sectors.

In 1985 we added the representation of Feather Safety Razor, Co. through its European representative Pfm, AG, bringing into the market the Feather microtome blades, largely used today due to its well-earned reputation.

In 1987 Wild-Leitz decided to open its own headquarters in Spain, so we incorporated other representations in our catalog, such as Vogel Gmbh, Bright Instruments, Co., Oxford trade, Inoxfune, etc., which along with Feather - Pfm medical, ag are nowadays well established.

In 2011 we created our own brand Casa Alvarez of products for Histopathology and Cytology.

In 2012 we signed a contract for exclusive representation in Spain with the manufacturer Medical Specialties MYR for the distribution of MYR brand for Pathology and Cytology.

In 2014 we redesigned our corporate image and our website to provide a better service.

Due to the different market situations it has faced, the company has managed to reinvent itself over the years thanks to the enthusiasm and dedication of its founders and employees.

In 2015, we signed an agreement Optilia (macro photography cameras). Due to the diverse market situations it has faced, the company has managed to reinvent itself over the years thanks to the enthusiasm and dedication of its founders and employees.

In 2016, we started to manufacture under license of the German manufacturer Vogel, we started to manufacture grossing stations and cabinets in Spain.

In 2017, we signed agreements with the IQAir and West Medica companies.

In 2018 our international expansion begins and we open our first headquarters outside of Spain, in Mexico City.

Our goal is to provide the necessary and appropriate advice to each client to meet their needs and satisfy them, as well as to establish future business relationships.
* Histopathology staining kits
* Reagents and dyes for cytology and pathological anatomy
* Plasticized Paraffin
* Microtome accessories

* Stackable metallic filing cabinets for microscope slides and cassettes
* Biopsy pads
* Microscope slides and coverslips
* Portable and tabletop filtration units

* Disposable microtome blades
* Autopsy, carving and dissection blades
* Disposable blades holder

* Management and Experience
* Rotation and sledge microtomes for sections in paraffin
* Histology bath with illumination
* Cryogenic unit
* Microtome accessories

* Large capacity filing cabinets for microscope slides and cassettes.
* Grossing Stations
* Histology baths
* Cassettes, Molds, lids, etc.

* Tissue processors.
* Embedding stations.
* Dispensing unit.
* Cryoconsole.
* Automatic Stainer.

• Coverslip band for automatic mounters.

* Cryostats.
* Rotation microtomes.
* Sledge microtomes.
* Autonomous freezing units.

* Autopsy saw with controller.
* Autopsy saw with particle extraction system up to ½ µ.

* Cassettes and slides printers.

* Polystyrene filing cabinets for histological cassettes, possible to assemble in the form of file murals.

* Safety cabinets for storing toxic and flammable products, acids and bases.

* Tungsten blades.
* Tungsten disposable blades.
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### VARIOUS PRODUCTS

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<tr>
<td>Cryostat freezing media, Freezer in spray</td>
<td>39</td>
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<th>Page</th>
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#### SAMPLETRIMMING AND FILTERING OF TOXIC VAPORS

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<tr>
<td>Grossing stations with vacuum and formaldehyde filtering</td>
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<td>Toxic vapors exhaust and filtering units</td>
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<tr>
<td>Cassettes and microscope slides automatic printers, in network and manual</td>
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<td>Optilia macrophotography camera</td>
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<td>Automatic stainer for histology and citology</td>
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#### MICROTOME ACCESSORIES

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<tr>
<td>Heating plate</td>
<td>51</td>
</tr>
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<td>Cassettes cooling systems</td>
<td>51</td>
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<tr>
<td>Histology baths for sections stretching</td>
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</table>

#### MICROTOMES AND CRYOSTATS

<table>
<thead>
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<th>Product</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Sledge microtomes</td>
<td>53</td>
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<td>Rotation microtomes</td>
<td>54-56</td>
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<td>Cryostats</td>
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<td>Cryostats for large surface samples</td>
<td>57-60</td>
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</table>

#### AUTOPSIES

<table>
<thead>
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<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autopsy saws, with and without extraction</td>
<td>61</td>
</tr>
</tbody>
</table>

#### SAFETY CABINETS

<table>
<thead>
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<th>Product</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>Cabinets for samples stored in formaldehyde</td>
<td>62-63</td>
</tr>
<tr>
<td>Safety cabinets for acids and bases</td>
<td>64</td>
</tr>
</tbody>
</table>
Pfm medical AG, founded 40 years ago, distributes in Europe through its representatives in each country, the reputable blades from the firm FEATHER Safety Razor Co., Ltd.

MICROTOME DISPOSABLE BLADES

The ultra precise edge of these disposable razors is specially coated to get cuts superior than the standard. The extensive Feather product line allows you to choose the blade type that best suits your needs.

The products of the firm FEATHER Safety Razor Co., Ltd. have the certificate.
### MICROTOME DISPOSABLE BLADES

<table>
<thead>
<tr>
<th>Blade Type</th>
<th>Description</th>
<th>Dimensions</th>
<th>Dispenser</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feather S-35</td>
<td>35° stainless steel disposable blade for fine cuts on biopsy bands specially on soft tissues, or not extremely hard tissues embedded in paraffin.</td>
<td>80x8 mm</td>
<td>50 blades</td>
<td>07500000</td>
</tr>
<tr>
<td>Feather R-35</td>
<td>35° Disposable stainless steel blade, for cuts on bands of not extremely hard tissues embedded in paraffin.</td>
<td>80x8 mm</td>
<td>50 blades</td>
<td>07500005</td>
</tr>
<tr>
<td>Feather A-35</td>
<td>35° disposable stainless steel blade, for cuts on bands of soft or not extremely hard tissues embedded in paraffin, and obtaining extremely fine cuts.</td>
<td>80x8 mm</td>
<td>50 blades</td>
<td>07500011</td>
</tr>
<tr>
<td>Feather C-35</td>
<td>35° carbon steel disposable blade exclusively for cryostat sections.</td>
<td>80x8 mm</td>
<td>20 blades</td>
<td>07500003</td>
</tr>
<tr>
<td>Feather N-35</td>
<td>35° stainless steel disposable blade, for fine cutting of hard tissues embedded in paraffin.</td>
<td>80x8 mm</td>
<td>50 blades</td>
<td>07500006</td>
</tr>
</tbody>
</table>
FEATHER N-35-HR DISPOSABLE BLADES
35° stainless steel disposable blade for fine cuts of hard tissues embedded in paraffin.
Dimensions: 80x8 mm
Dispenser of 50 blades
Reference: 07500006

FEATHER HIGH PROFILE DISPOSABLE BLADES
35° disposable stainless steel blade, to cut all kinds of tissues embedded in paraffin.
Dimensions: 80x16 mm.
Dispenser 50 of blades
Reference: 07500010

FEATHER A-22 DISPOSABLE BLADES
22° stainless steel disposable blade, for very fine cuts of fibrous tissues embedded in paraffin in the routine and research.
Dimensions: 80x8 mm.
Dispenser 50 of blades
Reference: 07500002

FEATHER S-22 DISPOSABLE BLADES
22° stainless steel disposable blade, for very fine cuts of very soft tissues embedded in paraffin.
Dimensions: 80x8 mm.
Dispenser 50 of blades
Reference: 07500001

FEATHER S-35-L DISPOSABLE BLADES
35° stainless steel disposable blade, for cutting of larger tissue samples and routine cutting.
Dimensions: 120x8 mm
Box of 20 blades
Reference: 07500004

FEATHER S-35-LL DISPOSABLE BLADES
35° stainless steel disposable blade, for cutting of larger tissue samples and routine cutting.
Dimensions: 180x8 mm
Box of 20 blades
Reference: 07500009
The range of trimming and autopsy handles and disposable blades provide the possibility of having a blade with a precise edge at all times. The handles, made of polysulfone resin, are suitable for autoclaving. The cutting line provides a solid blade to obtain undistorted cuts.
DISPOSABLE HANDLES AND BLADES
FOR TRIMMING, AUTOPSY AND DISSECTION

F-80 MINI TRIMMING HANDLE
Handle without metal guide to use with the disposable microtome 80 mm blades
Reference: 05570000

F-80 TRIMMING HANDLE
Flat polysulfone handle, with metal guide to use with the disposable microtome 80 mm blades.

F-130 and F-260 TRIMMING HANDLE
Polysulfone handle, flat or angled, with metallic guide and bolt to fix the blade, for trimming of anatomical pieces.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Type</th>
<th>Version</th>
<th>Blade length</th>
</tr>
</thead>
<tbody>
<tr>
<td>05550001</td>
<td>F-80</td>
<td>Standard</td>
<td>80 mm</td>
</tr>
<tr>
<td>05530001</td>
<td>F-130 (S)</td>
<td>Standard</td>
<td>130 mm</td>
</tr>
<tr>
<td>05520000</td>
<td>F-130 (R)</td>
<td>Right hand</td>
<td>130 mm</td>
</tr>
<tr>
<td>05510000</td>
<td>F-130 (L)</td>
<td>Left hand</td>
<td>130 mm</td>
</tr>
<tr>
<td>05540001</td>
<td>F-260</td>
<td>Standard</td>
<td>260 mm</td>
</tr>
</tbody>
</table>

DISPOSABLE TRIMMING BLADES
Disposable steel blades for trimming of anatomical parts, to insert into the handles F-130 and F-260. Presentation: 50 units.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Length</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>05500000C</td>
<td>130 mm</td>
<td>50</td>
</tr>
<tr>
<td>05500001C</td>
<td>260 mm</td>
<td>50</td>
</tr>
</tbody>
</table>
DISPOSABLE HANDLES AND BLADES
FOR TRIMMING, AUTOPSY AND DISSECTION

SAFETY TRIMMING HANDLE
Trimming handle to use the above safety trimming blades. Supports autoclaving, resistant to chemical products and easy to clean. Blade fastening with two bolts that prevent the accidental release of the blade.
Reference: 06600000

SAFETY TRIMMING BLADE
Safety trimming steel blades that include are in forcing rib to hold the handle. Hard plastic case for storage.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Length</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>06600130</td>
<td>130 mm</td>
<td>10</td>
</tr>
<tr>
<td>06600260</td>
<td>260 mm</td>
<td>10</td>
</tr>
</tbody>
</table>

F-100 AUTOPSY HANDLE
Handle of special resin for autopsy disposable blades. It supports autoclaving, chemical products resistant and easy to clean. Scissors opening shape, guide for insertion of the blade, internal fixation pivot and back locking. The whole system precludes accidental opening and unintentional release of the blade.
Reference: 05000000

DISPOSABLE AUTOPSY BLADES
Stainless steel disposable blade for autopsies. To insert in the F-100 handle. Presentation: 5 Units.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Length</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>05000100</td>
<td>100 mm</td>
<td>5</td>
</tr>
<tr>
<td>05000170</td>
<td>170 mm</td>
<td>5</td>
</tr>
<tr>
<td>05000325</td>
<td>325 mm</td>
<td>5</td>
</tr>
</tbody>
</table>

F-60 DISSECTING HANDLE
Functional resin handle special for dissection blades. It supports autoclaving, easy to clean. Scissors opening shape for inserting the blade and back closure. The whole system precludes accidental and unintentional operation.
Reference: 05600000
DISSECTING BLADES
Stainless steel disposable blade for dissecting. Narrow or wide. To insert in the F-60 handle.
Presentation: 20 units.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Type</th>
<th>Model</th>
<th>Length</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>05600001</td>
<td>61</td>
<td>Wide</td>
<td>77 mm</td>
<td>20</td>
</tr>
<tr>
<td>05600002</td>
<td>62</td>
<td>Narrow</td>
<td>77 mm</td>
<td>20</td>
</tr>
</tbody>
</table>

SCISSORS WITH DISPOSABLE BLADES
FOR TRIMMING, AUTOPSY AND DISSECTION

Nº 145 DISPOSABLE BLADES SCISSOR
Scissors with interchangeable blades. Scissors length 155mm.
Reference: 08000055

<table>
<thead>
<tr>
<th>Reference</th>
<th>Type</th>
<th>Length</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>08000155</td>
<td>AF/EM</td>
<td>46 mm</td>
<td>5 pairs</td>
</tr>
<tr>
<td>08000156</td>
<td>EM/EM</td>
<td>46 mm</td>
<td>5 pairs</td>
</tr>
<tr>
<td>08000157</td>
<td>AF/AF</td>
<td>46 mm</td>
<td>5 pairs</td>
</tr>
</tbody>
</table>

CUCHILLAS DESECHABLES PARA TIJERA Nº 145
Stainless steel blades. Pointed shape (AF type), and blunt shape (ME type).
Interchangeable types. Easy to change. Unable to sharpen.
Presentation: 5 pairs.
MICROTOME DISPOSABLE BLADE HOLDERS

FEATHER 130A HOLDER
Stainless steel holder for disposable blades. Suitable for rotary microtomes, cryostats and freezing microtomes. Blade fastening through a plate with two bolts. Includes 50 disposable blades FEATHERS-35 dispenser. Length: 130mm.
Reference: 07000130

FEATHER 130AE HOLDER
Length: 130mm.
Reference: 07000131

FEATHER 130C HOLDER
Stainless steel holder for disposable blades. Suitable for cryostats. Blade fastening through a magnetite coated plate with two bolts. Includes 20 disposable blades FEATHER C-35 dispenser.
Length: 130mm.
Reference: 07000132

FEATHER 130C-AO HOLDER
Reference: 07000133
DISPOSABLE BLADES HOLDER

FEATHER 130C-CR HOLDER
Length: 130mm.
Reference: 07000134

FEATHER 160 HOLDER
Length: 160mm.
Reference: 07000160

FEATHER 160E HOLDER
Length: 160mm.
Reference: 07000161

FEATHER 160C HOLDER
Length: 160mm.
Reference: 07000162
FEATHER 240S HOLDER
Reference: 07000240

FEATHER 240D HOLDER
Stainless steel holder for disposable blades. Suitable for sliding microtomes. Double fastening device through two plates with three bolts for two standard blades or for a long blade. Includes 50 disposable blades FEATHER S-35 dispenser. Length: 240mm.
Reference: 07000241

FEATHER 240E HOLDER
Reference: 07000242
GRID TYPE CASSETTES WITH LID

FOR PROCESSING AND EMBEDDING IN PARAFFIN OF HISTOLOGICAL SAMPLES

“HOSTAFORM ACETAL” acetate cassettes in different colors, with dual rear anchor lock for extra security closing, blunt tab for easy opening of the lid by hand or with tweezers. Lid easy to break when opening the cassette. Writing surface of 28x7mm in the anterior face inclined at 45°, and of 30x5mm on both sides. The infiltration of the processing liquid sand of the paraffin is performed perfectly flowing through the vents.

Dual rear security anchor lock
Blunt tab for opening of the lid

WHITE CASSETTE WITH DISPOSABLE LID
1000 cassettes in two boxes of 500 units.
Boxes with dispensing opening.
Reference: VSP-5-9020

ORANGE CASSETTE WITH DISPOSABLE LID
1000 cassettes in two boxes of 500 units.
Boxes with dispensing opening.
Reference: VSP-5-9021

BLUE CASSETTE WITH DISPOSABLE LID
1000 cassettes in two boxes of 500 units.
Boxes with dispensing opening.
Reference: VSP-5-9022

PINK CASSETTE WITH DISPOSABLE LID
1000 cassettes in two boxes of 500 units.
Boxes with dispensing opening.
Reference: VSP-5-9023
YELLOW CASSETTE WITH DISPOSABLE LID
1000 cassettes in two boxes of 500 units.
Boxes with dispensing opening.
Reference: VSP-5-9024

GREEN CASSETTE WITH DISPOSABLE LID
1000 cassettes in two boxes of 500 units.
Boxes with dispensing opening.
Reference: VSP-5-9025

RED CASSETTE WITH DISPOSABLE LID
1000 cassettes in two boxes of 500 units.
Boxes with dispensing opening.
Reference: VSP-5-9026

GREY CASSETTE WITH DISPOSABLE LID
1000 cassettes in two boxes of 500 units.
Boxes with dispensing opening.
Reference: VSP-5-9027

EMBEDDING CASSETTES WITHOUT LID
Cassette for the processing and formation of the paraffin block,
using closing metal lids.
2 boxes of 500 units.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSP-5-9010</td>
<td>White</td>
</tr>
<tr>
<td>VSP-5-9011</td>
<td>Orange</td>
</tr>
<tr>
<td>VSP-5-9012</td>
<td>Blue</td>
</tr>
<tr>
<td>VSP-5-9013</td>
<td>Pink</td>
</tr>
<tr>
<td>VSP-5-9014</td>
<td>Yellow</td>
</tr>
<tr>
<td>VSP-5-9015</td>
<td>Green</td>
</tr>
</tbody>
</table>
MICROBIOLOGY CASSETTES

Cassettes with a micro grid cell for the processing of small biopsies

- Cassettes, specially designed for very small biopsies.
- Grid cassette with 1 inner cell, with 0.09mm² holes.
  - Different colors.
  - Removable lid.
  - Boxes with 600 units.

Its structure is that of a standard grid type cassette, with an inner cell of micro grid and removable lid. The anterior writing surface has the standard angle to suit most of the automatic printers.

The holes of the cell are 0.09 square mm, thin enough to allow the biopsies to be processed, guaranteeing the exchange of fluids and a good drainage, without the need to use pads or wrapping paper.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Color</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT-10-9040</td>
<td>White</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9041</td>
<td>Yellow</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9042</td>
<td>Blue</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9043</td>
<td>Orange</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9044</td>
<td>Green</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9045</td>
<td>Pink</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9046</td>
<td>Mauve</td>
<td>Box of 600 units</td>
</tr>
</tbody>
</table>
CASSETTE RACKS FOR AUTOMATIC PRINTERS

STANDARD GRID CASSETTES WITH DISPOSABLE LID TAPED IN RACK

"HOSTAFORM ACETAL" acetate cassettes in different colors, with dual rear anchor lock for extra security closing, blunt tab for easy opening of the lid. Writing surface of 28x7 mm in the anterior face inclined at 45°, and of 30x5 mm on both sides.

Presented in rows of 40 cassettes with adhesive tape that leaves no residue on the cassette. It makes it easy to load cassette printers saving time, while providing greater convenience to the user. Once inserted the cassettes, the tape comes off very easily.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Color</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT-10-9120</td>
<td>White</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9121</td>
<td>Yellow</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9122</td>
<td>Blue</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9123</td>
<td>Orange</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9124</td>
<td>Green</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9125</td>
<td>Pink</td>
<td>Box of 600 units</td>
</tr>
</tbody>
</table>
MICROBIOPSY Cassettes with Removable Lid Taped in Rack

"HOSTAFORM ACETAL" acetate cassettes in different colors, with rear removable hinge, blunt tab for easy opening of the lid. Writing surface of 28x7 mm in the anterior face inclined at 45°, and of 30x5 mm on both sides.

Its structure is that of a standard grid type cassette, with an inner cell of micro grid and removable lid. The anterior writing surface has the standard angle to suit most of the automatic printers.

The holes of the cell are 0.09 square mm, thin enough to allow the biopsies to be processed without the need to use pads or wrapping paper, guaranteeing the exchange of fluids and a good drainage.

Presented in rows of 40 cassettes with adhesive tape that leaves no residue on the cassette. It makes it easy to load cassette printers saving time, while providing greater convenience to the user. Once inserted the cassettes, the tape comes off very easily.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Color</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT-10-9140</td>
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<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9141</td>
<td>Yellow</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9142</td>
<td>Blue</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9143</td>
<td>Orange</td>
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<tr>
<td>OT-10-9144</td>
<td>Green</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9145</td>
<td>Pink</td>
<td>Box of 600 units</td>
</tr>
<tr>
<td>OT-10-9146</td>
<td>Mauve</td>
<td>Box of 600 units</td>
</tr>
</tbody>
</table>
SUPER MEGA CASSETTE WITH DISPOSABLE LID
Cassette of large size and depth for processing and forming paraffin macro blocks of large tissue samples (embryos, tracheas, prostates, etc.), with lid of double security anchorage. White color. Interior dimensions: 49.5x65x14mm Box of 100 units. Reference: VSP-5-9060

STAINLESS STEEL SUPER MEGA MOLDS
Large stainless steel molds for forming paraffin macro blocks with Super Mega cassettes in the process of embedding tissues. Reference: VSP-5-8166

MEGA CASSETTE WITH DISPOSABLE LID
 Twice the depth of the standard cassette, for tissues samples thicker than normal. Interior dimensions: 26x32x11mm. White color. Box of 750 cassettes. Reference: VSP-5-9040

STAINLESS STEEL MEGA CASSETTE MOLDS
Double depth mold 30 x 24 x 12 mm to use Mega cassettes. Reference: L43055
BIOPSY PADS
They facilitate the embedding of small biopsies in the same standard grid type cassette without need to use other special and more expensive cassettes. They are made with open cells foam, to ensure infiltration of fluids around and through the tissue sample. They are thinner than other brands, which facilitate its placement in the cassette, without applying excessive pressure on the sample.
Available in blue color, of rectangular shape.
Presentation in bags of 500 units.
Reference: 10/01000

STEEL CAPSULES FOR SMALL BIOPSIES
Stainless steel capsules formed by two rings, for small biopsies. Used in standard cassettes as wrapping paper replacement.
Outer diameter: 24 mm
Height: 4mm
Reference: VO-9-3001

STAINLESS STEEL LIDS
Stainless steel lids for the closing of cassettes without lid in the processing and embedding of tissues. Box of 25 units.
Reference: VSP-5-8000

STAINLESS STEEL EMBEDDING MOLDS
Stainless steel molds to form paraffin blocks with cassettes in the process of embedding tissues.
Box of 12 units.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Dimensions</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSP-5-8107</td>
<td>7x7x6mm</td>
<td>12</td>
</tr>
<tr>
<td>VSP-5-8115</td>
<td>15x15x6 mm</td>
<td>12</td>
</tr>
<tr>
<td>VSP-5-8124</td>
<td>24x24x6 mm</td>
<td>12</td>
</tr>
<tr>
<td>VSP-5-8130</td>
<td>30x24x6 mm</td>
<td>12</td>
</tr>
<tr>
<td>VSP-5-8137</td>
<td>37x24x6 mm</td>
<td>12</td>
</tr>
</tbody>
</table>
HISTO-COMP PLASTIFIED PARAFFIN
Plastified paraffin in lentil shape for the processing and embedding of tissues in histopathology laboratories. Melting temperature of 56ºC.
The lentil-shaped production accelerates its change from solid to liquid state.
White and clean of waste, it prevents the formation of sediments in the baths. It is virtually odorless. It does not contain the compound dimethylsulfoxide DMSO.
Once the block is assembled with the sample, this paraffin facilitates the subsequent microtome slicing, largely avoiding that the slices or cut strips are attracted by static electricity.
Made in the German Fed.Rep. according to recommendations from the German Fed. Health Office (BGA Bundesgesundheitsamt).

Presentation:
Box with 5 bags of 2 Kg.

Reference: CA-09-5658

SASOLWAX PLASTIFIED PARAFIN
Plastified paraffin in lentil shape for the processing and embedding of tissues in histopathology laboratories. Melting temperature of 56ºC.
The lentil-shaped production accelerates its change from solid to liquid state.
White and clean of waste, it prevents the formation of sediments in the baths. It is virtually odorless. It does not contain the compound dimethylsulfoxide DMSO.
Once the block is assembled with the sample, this paraffin facilitates the subsequent microtomes slicing, largely avoiding that the slices or cut strips are attracted by static electricity.
Made in the German Fed.Rep. according to recommendations from the German Fed. Health Office (BGAB undesgesundheitsamt).

Presentation: Box with 6 bags of 1 kg.
Reference: CA-14-5658
STACKABLE FILING CABINETS FOR CASSETTES

FILLING CABINETS FOR PARAFFIN BLOCKS
Rigid plastic filing cabinet to file paraffin blocks embedded in histologic cassettes. Made of plastic obtains not only great strength and stability but also lightweight. Vertically and horizontal assembly with special anchors for creating file murals. 6 drawers with trays of 7 rows. Nametags holder.
Approximate capacity: 1700 cassettes.
Dimensions: 270 x 345 x 340 mm
Reference: 01600

LARGE CAPACITY UNIVERSAL FILING CABINETS

LARGE CAPACITY UNIVERSAL FILING CABINETS
Steel sheet filing cabinet with 10 drawers and cargo trays. Coding tapes. Smooth and even drawers sliding system, even at full load, by special telescopic guides. Centralized lock and security device that prevents opening more than one drawer at a time, thus avoiding a possible swing.

VOGEL FILING CABINET Approximate capacity 154.000 slides
Black anodized aluminum handle.
Dimensions:110 cm height x 105 cm width x 75 cm depth
Net weight: 220Kg.Gross weight loaded with slides: 1.030kg
Reference: VO-5-3113P

VOGEL FILING CABINET Approximate capacity 103.000 slides
Black anodized aluminum handle.
Dimensions:110 cm height x 75 cm width x 75 cm depth
Net weight: 190Kg. Gross weight loaded with slides: 730kg
Reference: VO-5-3173P

VOGEL FILING CABINET P/42.000 CASSETTES
Black anodized aluminum handle. Simple wall panel.
Dimensions:110 cm height x 105 cm width x 75 cm depth
Net weight: 220Kg. Gross weight loaded with slides: 590kg
Reference: VO-5-3113B

VOGEL FILING CABINET P/28.000 CASSETTES
Black anodized aluminum handle. Simple wall panel.
Dimensions:110 cm height x 75 cm width x 75 cm depth
Net weight: 190Kg. Gross weight loaded with slides: 440kg
Reference: VO-5-3173B
Modular system cabinets for preparations, cassettes and slides, made of steel sheet and individually sealed on top and bottom to prevent the entry of dust or artifacts. Stackable and combinable to form columns of files. Two tone baked powder paint, gray color.

**SLIDES FILING CABINET**
- 14 side guide drawers. Metal handle. Slots for ID tags.
- Approx. capacity 6,000 slides.
- Dimensions: 480 x 480 x 140 mm
- Reference: OT1613

**CASSETTES FILING CABINET**
- 8 drawers with fixed spacers for 7 rows of cassettes.
- Approximate capacity 3,000 cassettes.
- Dimensions: 480 x 480 x 290 mm
- Reference: OT1610

Combined: cassettes and Super mega cassettes *(Macro blocks)*
- Reference: OT1610C

**FILING CABINET FOR COLOR SLIDES AND MICROSCOPE**
- Slides of 75 x 50 mm (Macro blocks)
- 8 side guide drawers. Approx. capacity 3,400 color slides.
- Dimensions: 480 x 480 x 140 mm
- Reference: OT1616
METALLIC LID
Steel sheet lid to cover the filing cabinets as superior finishing.
Dimensions: 480 x 480 x 25 mm
Reference: 0T1612

METALLIC BASE
Base in steel sheet to lift filing cabinets as lower finishing and ease the cleaning of the floor.
Dimensions: 480 x 480 x 115 mm
Reference: 0T1611

PLINTH WITH WHEELS
To ease the mobility of the columns of files.
Dimensions: 480 x 480 x 135 mm
Reference: 0T1614

STACKABLE FILING SYSTEM -THRIFTY LINE-

FILING CABINET FOR MICROSCOPE SLIDES
Stackable modular system for slides.
Enamedel metal frame in light gray color, with 13 ABS drawers; blue color removable front with slots for ID labels. Glide by guides at the base.
Capacity: 5,500 slides.
Dimensions: 480 x 480 x 140 mm
Reference: OT-P5500

FILING CABINET FOR CASSETTES
Stackable modular system for embedding cassettes.
Enamedel metal frame in light gray color, with 13 ABS drawers; blue color removable front with slots for ID labels. Glide by guides at the base.
Capacity: 800 cassettes.
Dimensions: 480 x 480 x 90 mm
Reference: OT-C0800
ABS HOUSING FOR MICROSCOPE SLIDES
Reference: OT-CP5500 (10 units.)

ABS HOUSING FOR CASSETTES
Reference: OT-CC0800 (10 units.)

MICROSCOPE SLIDES HOUSING FRONT
Reference: OT-FP5500 (10 units.)

CASSETTES HOUSING FRONT
Reference: OT-FC0800 (10 units.)

METALLIC BASE
Dimensions: 480x480x115 mm
Reference: OT-B0855

METALLIC LID
Dimensions: 480x480 25 mm
Reference: OT-T0855
TRAY WITH LIDS FOR 20 SLIDES
Robust and solvents resistant, this tray is designed for a capacity of 20 slides. Transparent lids for identification and easy opening. The slide rests on four ledges, for easy pickup and provide a faster drying time.

Reference: L46036

TRAY FOR 20 SLIDES
Tray for 20 slides. Made of PVC easy to clean. Space for fingers to be able to grab the slides easily.

Reference: 192010

CASES FOR SLIDES
For the in-house transit or mailing of slides.

Reference: 102500  Case for 1 preparation
Reference: 102501  Case for 2 preparations

LEATHER SIMILE BOX FOR 100 SLIDES
Wooden box in leather simile for filing 100 slides. Slotted. Numbered file for slides description.

Reference: M016201

CONTAINER FOR SURGICAL SPECIMENS
Polystyrene disposable container for transportation of surgical or anatomical specimens. Leak-proof lid.

OXFORD TRADE offers slides for microscopy made of uncoated high quality substrate glass sheet. A rigorous automatic cleaning process removes all particles, residues, and contaminants from the surface, they are inspected three times by separate to ensure that the slides are ready to use. Packaged in recyclable cardboard boxes.

CLEAR MICROSCOPE SLIDES 76 X 26 mm

- With **beveled** edges. Thickness: 1.0 - 1.2mm. Angles of 45°. Box of 50u. Reference: 7626B45
- With **ground** edges. Thickness: 1.0 - 1.2mm. Angles of 90°. Box of 50u. Reference: 7626E90

ONE FACE AND ONE EDGE FROSTED BAND MICROSCOPE SLIDES 76 x 26 mm

- **Beveled** edges. Angles of 45°. Thickness: 1.0 - 1.2mm. Box of 50u. Reference: 7626BBM45
- **Ground** edges. Angles of 90°. Thickness: 1.0 - 1.2mm. Box of 50u. Reference: 7626EBM90

DOUBLE FACE AND ONE EDGE FROSTED BAND MICROSCOPE SLIDES 76 x 26 mm

- **Ground** edges. Angles of 45°. Thickness: 1.0 - 1.2mm. Box of 50u. Reference: 7626EBM45D

COLOR BAND ONE FACE AND ONE EDGE MICROSCOPE SLIDES 76 x 26 mm

- **Ground** edges. Thickness: 1.0 - 1.2mm. Box of 50u. Colors, angles and edges:

<table>
<thead>
<tr>
<th>Color</th>
<th>Angles</th>
<th>Reference</th>
<th>Angles</th>
<th>Reference</th>
<th>Angles and edges</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>90°</td>
<td>7626EBY90</td>
<td>45°</td>
<td>7626EBY45</td>
<td>Beveled and 45°</td>
<td>7626BBY45</td>
</tr>
<tr>
<td>White</td>
<td>90°</td>
<td>626EBW90</td>
<td>45°</td>
<td>7626EBW45</td>
<td>Beveled and 45°</td>
<td>7626BBW45</td>
</tr>
<tr>
<td>Blue</td>
<td>90°</td>
<td>7626BBB90</td>
<td>45°</td>
<td>7626BBB45</td>
<td>Beveled and 45°</td>
<td>7626BBB45</td>
</tr>
<tr>
<td>Green</td>
<td>90°</td>
<td>7626EBG90</td>
<td>45°</td>
<td>7626EBG45</td>
<td>Beveled and 45°</td>
<td>7626BBG45</td>
</tr>
<tr>
<td>Orange</td>
<td>90°</td>
<td>7626EBO90</td>
<td>45°</td>
<td>7626EBO45</td>
<td>Beveled and 45°</td>
<td>7626BBO45</td>
</tr>
</tbody>
</table>
The cover slips are made of pure white high quality boron silicate glass, using glass free of blisters, flaws, sand scratches. These coverslips offer maximum clarity, corrosion resistance, and even thickness and size. The strict manufacturing specifications are controlled during the cutting, the cleaning, the weighting and the packing procedures. It includes desiccant packets in each box.

- Coverslips thickness: 0.13 to 0.17 mm.
- Presentation: Box of 100 u.

### RAPID PANOPTIC STAINING

#### CASA ALVAREZ RAPID PANOPTIC

The rapid panoptic staining is a differential staining method that allows observation of the blood cells. Due to the interaction between the colorants, nuclei and granule scan be differentiated in violet color. It is a modification of the Romanowsky stain, giving a much quicker procedure based on immersions.

<table>
<thead>
<tr>
<th>Panoptic</th>
<th>Reagents</th>
<th>Container Size</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panoptic N°1</td>
<td>Green Fixer</td>
<td>1 Liter Container, 5 Liter Container</td>
<td>FV500002.3011, FV500004.3011</td>
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<tr>
<td>Panoptic N°2</td>
<td>Rapid Eosin</td>
<td>1 Liter Container, 5 Liter Container</td>
<td>ER090102.3011, ER090104.3011</td>
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<tr>
<td>Panoptic N°3</td>
<td>Rapid Blue</td>
<td>1 Liter Container, 5 Liter Container</td>
<td>AR090102.3011, AR090103.3011</td>
</tr>
</tbody>
</table>
**SOLUTION DYERS**

**HARRIS HEMATOXILIN FOR HISTOLOGY**
For core staining. It does not contain mercury.
It differs from the Papanicolaou for cytologies in a higher concentration of acetic acid.
The staining times are fast, 2-3 minutes. The shift is performed in water.
Reference: 10-2331  1 Liter Bottle
Reference: 10-2332  2.5 Liter Bottle

**GILL II HEMATOXILIN**
Recommended for cytology but also for histology.
It is functionally a substitute of Mayer hematoxylin.
The method consists of staining with Gill II for 2-5 minutes, then rinse with water for 3-5 minutes.
Reference: 10-2110  1 Liter Bottle

**HARRIS HEMATOXILIN FOR PAPANICOLAOU**
For core staining. Suitable for cytology. It is very concentrated and allows to make an intense core staining (1-2min)
It differs from the original formula in that it does not contain mercury, and a glycolic stabilizer has been added.
Reference: 10-2551  1 Liter Bottle
Reference: 10-2552  2.5 Liter Bottle

**EOSIN 0.5% Y (ALCOHOLIC) without acetic acid**
Yellowish eosin Y for cytoplasm staining, it has an alcohol base, ready to use, mainly used in routine histology with H&E. It does not contain acetic acid.
Reference: 10-3001  1 Liter Bottle
Reference: 10-3002  2.5 Liter Bottle

**EOSIN 1% Y (ALCOHOLIC) with acetic acid**
It contains acetic acid. More intense coloration.
Reference: 10-3051  1 Liter Bottle
Reference: 10-3052  2.5 Liter Bottle
For cytoplasmic staining, without methanol. It colors the keratinized elements. The nuclei are blue purple, the cyanophilic cytoplasm blue green. The eosinophilic pink and the keratinized cytoplasm pink-orange.

**Reference:** 10-4001 1 Liter Bottle  
**Reference:** 10-4002 2.5 Liter Bottle

For cytoplasmic staining, without methanol. It allows to differentiate the cyanophilic (sky-blue cytoplasm) from the eosinophilic cells (light red cytoplasm).

**Reference:** 10-5001 1 Liter Bottle  
**Reference:** 10-5002 2.5 Liter Bottle

It is used for the periodic acid-Schiff standard (PAS) according to Hotchkiss McManus. Reagent for evidencing over tissue components characterized by adjacent glycolic or amino hydroxyl groups. For mucous substances, Glycon, basement membrane and fungal cell walls. A positive reaction produces a bright pink red purple color.

**Reference:** 10-8000 500 ml Bottle

**MOUNTING MEDIA**

**DPX MOUNTING MEDIA**  
Xylene based acrylic resin. Compatible with automatic coverslipers. DPX is the most popular of all the mounting media, allowing the preparations to be easily cleaned after mounting. No fading and it can be used with a variety of stains.

**Reference:** 10-8500 500 ml bottle.
DECALCIFIERS

DECALIFIER - FIXER
The fields of employment are needle biopsies, small bones, calcified arteries.
Method of use:
1. From 1 to 4 hours for needle biopsies and small bone fragments. From 8 to 16 hours for samples of 3-6 mm thickness.
2. The sample / decalifier ratio should be 1/100
3. Post-decalcification: Reconditioning of the sample by treating it with water 1 hour or 3 changes of PBS pH 7.4 of 20 minutes each.

Reference: 10-6111 1 Liter Bottle
Reference: 10-6113 2.5 Liter Bottle

RAPID DECALCIFIER
Biacid mixture with saline corrector. Suitable for mineralized tissues, compact bone, scales or calcium deposits in soft tissues.
The saline corrector serves for containing the swelling effect caused by the use of acids.
Time of employment:
1. For 6-12 samples of thickness not exceeding 5 mm
2. The sample / decalifier ratio should be 1/100
Post-decalcification: Reconditioning of the sample by treating it with water 1 hour or 3 changes of PBS pH 7.4, of 20 minutes each.

Reference: 10-6551 1 Liter Bottle
Reference: 10-6553 2.5 Liter Bottle

MARROW DECALCIFIERS
1. Place the sample just extracted 90 minutes in the fixer. Then place the fragment in 70º alcohol for 15 minutes. (In this case you can exceed the time)
2. Move the fragment to B solution (decalcifying, for 90 minutes)
3. Dehydrate in the alcohols series

Reference: 10-6551 1 Liter Bottle
Reference: 10-6553 2.5 Liter Bottle
ALCIAN BLUE pH 2.5 Casa Álvarez, 100 test kit. 3 x 30 ml

Like the PAS, it also stains carbohydrates. Detection of acid mucopolysaccharides in tissue sections. Used to differentiate mucosubstances from epithelium or from connective tissue.

Ref.: AA-1014

COLLOIDAL IRON Casa Álvarez, 100 test kit 6 x 30 ml + 2 x 18 ml

Detection of acid mucopolysaccharides. Used for dyeing iron ions that are absorbed by mucopolysaccharides. It is important to distinguish a kidney malignant neoplasm.

Ref.: HC-1037

MAYGRÜNWALD-GIEMSA Casa Álvarez, 100 test kit. 3 x30ml

Cell differentiation of lymphohemopoietic tissue and show parasites in tissue sections. Selective view of the reticuloendothelial.

The method uses two dyes in sequence:
1. The May Grünwald solution, consisting of methylene blue eosinate that colors the nuclei in blue and the basophilic cytoplasm in red-pink.
2. The Giemsa solution, complex mixture, consisting of methylene blue chloride, methylene blue eosinate, sky-blue II eosinate, which increases the intensity of the nuclear staining and the ability to selectively highlight the cell elements.

Ref.: MGG-1048

ORCEIN Casa Álvarez, 100 test kit. 2x40ml + 3x30 ml + 2x18ml

View of elastic fibers and amyloid detection. Used to stain elastic fibers, nuclear structures and inclusions in liver cells by the hepatitis B virus.

Ref.: O-1045
Periodic Acid Schiff. It stains the glycogen, mucosubstances and the carbohydrates. Besides observing the glandular cells containing these substances, it also allows us to see the basement membrane of the epithelia. Fungi such as candida are also stained with PAS and are easier to be seen. It dyes in magenta color.

Used as routine technique for observing the basal membranes that separate the chorion epithelial tissue. It stains the nuclei in blue color, the glycogen in purple, and the PAS material+ (simple polysaccharides, neutral mucopolysaccharides, mucoproteins, glycoproteins and glycolipids) in red-pink.

Ref.: PAS-1005

Selective view at the trivalent iron microscope in slices of medullary tissue, liver, spleen and lymph node. To view both histological tissues and hematological and bone marrow smears.

Ref.: P-1019

Detection of amyloid in tissue sections, according to Highman. The complex formed between the Congo Red and the atypical protein components (beta pleated sheet) of the amyloid, show a pronounced birefracton when exanimating it under a polarized light.

Ref.: RC-1008

Diagnostics of fungi and visualization of the argentorelated and mucopolysaccharides elements. Selective view of the argentaffin and mucopolysaccharides elements (basal membranes, fungi, bacteria, etc.) in histological sections.

Ref.: SM-1012
**SILVER RETICULIN Casa Álvarez**, 100 test kit. 5x30ml+2x18ml

Viewing of reticular and myelinated fibers, argentaffin cells and Golgi device in both normal tissues and pathological tissues fixed in formalin and embedded in paraffin.

Ref.: SR-1021

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**MASSON TRICROME Casa Álvarez**, 100 test kit. 4x30ml +2x18ml

For the visualization of connective tissue. It is a technique for staining of collagen and elastic fibers. Three different colors are observed; connective tissue in green, muscle tissue in brown-green, erythrocytes in red, nuclei in blue-black, and cytoplasm and muscle fibers in pink.

Ref.: TM-1033 Bright Green staining (Goldner)
Ref.: TMA-1054 Aniline Blue staining

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**WEIGERT-VAN GIESON Casa Álvarez**, 100 test kit. 6x30ml+2x18ml

Visualization of elastic fibers, fibrous connective tissue (collagen) and cell nuclei. The contrast with Van Gieson'strichrome stain allows to differentiate the collagen in the connective tissue, being able to view at the same time the nuclei. Fast method.

Ref.: WVG-1026

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**ZIEHL-NEELSEN by FITE Casa Álvarez**, 100 test kit. 5 x30ml

Detection of mycobacteria according to Fite (acid fast bacilli resistant, AFB), especially Koch’s bacillus and Hansen's bacillus in histological sections, sputum and cultures extensions. The acid-resistance is a specific property of the cell wall of micro bacteria rich in lipids. This feature is the ability once colored with the Ziehlfuchsin, to keep the redness, even subject to very energetic bleaching treatments.

Ref.: ZNF-1030
**XYLENE**
Organic solvent, lightener. Mixture of isomers, odorous and colorless, with a purity of 99.60%. Insoluble in water, soluble in alcohol and ether.
Reference: 702XI1200.1121  5 liters bottle (packaging compatible with some automatic processors)

**DENATURED ETHANOL – HISTODRY -**
Denatured ethanol with Bitrex® (Denatonium Benzoate), tax exempt, in three gradations for dehydrating tissues in automatic processors or manual processes.

Histodry 99. Ethanol99. 5L bottle (packaging supports some automatic processors).
Reference: HI440102.1221  5 Liters bottle

Histodry 96. Ethanol96. 5L bottle (packaging supports some automatic processors).
Reference: HI430102.1221  5 Liters bottle

Histodry 70. Ethanol70. 5L bottle (packaging supports some automatic processors).
Reference: HI450102.1221  5 Liters bottle.

**ISOPROPANOL**
Isopropyl Alcohol, also known as Isopropanol. It is a colorless alcohol, with strong odor and very miscible with water. Used as a solvent or cleaning agent.

Reference: ISO90101.1221  5L bottle (packaging supports some automatic processors).
CRYO – M- BED  MEDIA FOR TISSUE FREEZING

Embedding media that allows the collection of sections in the cryostats freezing technique for fresh tissues. In liquid state the compound is transparent but it becomes opaque when it reaches the freezing point. This helps the placement and orientation of the sample before it reaches the frozen state. It is easily soluble in water, chemically inert. Its high viscosity ensures a strong adhesion of the tissue to the support. The cuts produced with CRYO-M-BED do not damage the surface of the blade.

113 ml bottle.
Reference: B1056

CRYOSPRAY 134

A quick spray coolant for tissue blocks embedded in paraffin, it is harmless to the ozone as it does not contain CFC . It freezes instantly at -52°C. Two quick bursts are all that is required to ensure deep penetration of the paraffin blocks and fresh tissue, the nozzle and the thin tube help to focus the spray and reduce dispersion. Its quick action helps save time.

300 ml bottle
Reference: B1029
REDUCTION OF TOXIC VAPORS

Due to the carcinogenic effect of the continued exposure to formaldehyde, we present a series of products to minimize the vapors produced by the samples formaldehyde.

PACKAGED FORMALIN

PACKAGES WITH FORMALDEHYDE FOR HISTOLOGY SAMPLES

Polypropylene packages for histological samples, tear proof, with a lid specially designed to avoid leakage, which eliminates the risk of spillage and evaporation. The containers are prefilled with a buffered 10% formalin solution neutral pH 7, in a firm and practical package, to save time and reduce the exposure to formalin vapors. They are transparent to facilitate viewing of the sample and avoid having to open the lid. Stackable for an easy and safe storage.

Ref: 11-0510 Box of 80 packages of 10ml and 5 ml. of 4% formalin
Ref: 11-1855 Box of 54 packages of 55 ml and 18ml. of 4% formalin
Ref: 11-2855 Box of 54 packages of 55 ml and 28ml. of 4% formalin

4% BUFFERED FORMALIN

Properly prepared and packaged formaldehyde to prevent tampering in its development and minimize the release of toxic gases.

Diluted formaldehyde to 3,7 - 4%. Buffered to pH 7. Stabilized with methanol. Fixative preservative for histological samples.

Ref: FO090101.1221 5L bottle (package compatible with some automatic processors).

FORMALDEHYDE NEUTRALIZING PADS
On the trimming surface
Used as disposable carving surface, it provides a contrasted blue color to distinguish between the small pieces of tissue. The cut resistant surface absorbs and neutralizes formaldehyde vapor by encapsulation.

In the storages helves
Most histological specimens containers have formaldehyde losses by the lid. They allow the shelves to be lined with a material that absorbs any spilled formaldehyde odor neutralizing and drying quickly.

In transit between the OR and Pathology
As transportation background for surgical specimens in containers with formaldehyde.

Reference: ANF2025 25 units of 200x254 mm
Reference: ANF2835 25 units of 280x355 mm
Reference: ANF351554R Bobina de 355x15540 mm

FORMALIN PREPARATION AND DOSAGE

FORMADOSE for the preparation and dosage of formalin

General Features
Fully automatic
Directly obtaining the formalin from the drum. Automatic and manual mixing
Formalin production capacity of 50L or 100L
- Directly obtaining the formalin from the drum
- Dosage at 10% factory configured or user-defined
- Control of the formalin level on the screen
- Preparation of the solution always in precise proportions
- The automatic mixture prevents the formation off or malin residues sediments
- Automatic or manual mixing function
- Visual and audible alarm for low level or absence off or malin
- Plugs for adding salts
- Entry for buffer solution ready for use
- Tank cleaning function
- Prepared for connection to the central ventilation system
- Software for easy interpretation
- Integrated interruptible power supply
- Date and time display function
- Optional stainless steel housing
The VOGEL Universal Carving Stations, for one or more users, with vapors absorption system in the front and downwards through the perforated work surface, depending on the model, maintains a clean atmosphere in the work area while carving and preparing the sample, by circulating air filtration system or exit to the outside. With its Potassium Permanganate impregnated Aluminum Oxide filters, you can obtain a filter better than the standard established in the MAK standard. Made of stainless steel chrome-nickel CNS 1.4301 finely rectified.

The models listed in the catalog are not the only ones, they are just a sample of what we can offer. If you want a more extensive information regarding the catalog models or other possibilities, please do not hesitate to contact us.

UCSF-288L GROSSING STATION

The special development of the downward absorption system with Aluminum filters impregnated with Potassium Permanganate facilitates a clean atmosphere in the workplace.

Control panel for vacuum speed selection, lighting switch, main switch and hour meter of filters consumption. Cutting board, single control water coil, faucet with extendable hose for washing the cutting surface, central sink for cutting tools wash. Pool for direct formaldehyde drainage, independent from the general drain. Formaldehyde drum collection with maximum level safety system by electronic beep alarm. Illumination system. Magnetic holder for cutting tools, paper towel rolls carrier, ruler, Phillips dictaphone with pedal and integrated microphone into the cabinet, scale and frame to work standing or sitting.

<table>
<thead>
<tr>
<th>Length:</th>
<th>1.250 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth:</td>
<td>700 mm</td>
</tr>
<tr>
<td>Total height with frame:</td>
<td>1.530 mm</td>
</tr>
<tr>
<td>Working area:</td>
<td>1.200x515 mm</td>
</tr>
</tbody>
</table>

Optional:
Front and side protection panels
Rectangular box on top for outside air ventilation
Adhered sink with cabinet.
Dictation player for assistant.
UCSA/UCSF-1300 GROSSING STATION 1 USER

The special development of the downward and front absorption system with Aluminum filters impregnated with Potassium Permanganate facilitates a clean atmosphere in the workplace.

The basic equipment has hour meter using filters, washing sink with water dispenser, and extensible shower hose. Illuminated. Magnetic holder for cutting tools, cutting board, and integrated into the workplace ruler. Pool for direct drainage to a tank of formaldehyde, formalin dispensing spout for electronically actuated pump. Available with spout for an optional air extraction from the room to the outside, or to the central ventilation system.

OPTIONAL: Front and side protection panels, wipe water, halogen light bulbs

<table>
<thead>
<tr>
<th>Specification</th>
<th>UCSA/UCSF-1300</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
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<tr>
<td>Depth</td>
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<td>Height</td>
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<tr>
<td>Working height</td>
<td>900 mm</td>
</tr>
<tr>
<td>Working area</td>
<td>600x500 mm</td>
</tr>
<tr>
<td>Vacuum</td>
<td>Bottom and Front</td>
</tr>
<tr>
<td>Filter</td>
<td>Potassium Permanganate</td>
</tr>
</tbody>
</table>

UCSA/UCSF-1800 GROSSING STATION 1 USER

The special development of the downward and front absorption system with Aluminum filters impregnated with Potassium Permanganate facilitates a clean atmosphere in the workplace.

The basic equipment has an hour meter of filters use, wash sink with water dispenser, and an extensible shower hose. Illumination system. Magnetic holder for cutting tools, cutting board, and a ruler integrated into the workplace. Pool for direct formaldehyde drainage into a tank, formalin dispensing spout with an electronically actuated pump (optional). Available with spout for an optional air extraction from the room to the outside, or to the central ventilation system.

OPTIONAL: Front and side protection panels, Wipe water, halogen light bulbs

<table>
<thead>
<tr>
<th>Specification</th>
<th>UCSA/UCSF-1800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
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<tr>
<td>Depth</td>
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<tr>
<td>Height</td>
<td>2.050 mm</td>
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<tr>
<td>Working height</td>
<td>900 mm</td>
</tr>
<tr>
<td>Working area</td>
<td>600x900 mm</td>
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<tr>
<td>Vacuum</td>
<td>Bottom and Front</td>
</tr>
<tr>
<td>Filter</td>
<td>Potassium Permanganate</td>
</tr>
</tbody>
</table>
UCSA/UCSF-1800  GROSSING STATION  2 USERS

The basic equipment has an hour meter of filters use, wash sink with water dispenser, and extensible shower hose. Illumination system. Magnetic holder for cutting tools, cutting board, and a ruler integrated into the workplace. Pool for direct formaldehyde drainage into a tank, formalin dispensing spout for electronically actuated pump. Also available with spout for an optional air extraction from the room to the outside, or to the central ventilation system.

OPTIONAL: Front and side protection panels, Wipe water, halogen light bulbs

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1.800 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>850 mm</td>
</tr>
<tr>
<td>Height</td>
<td>2.050 mm</td>
</tr>
<tr>
<td>Working height</td>
<td>900 mm</td>
</tr>
<tr>
<td>Working area</td>
<td>(2x)600x500 mm</td>
</tr>
<tr>
<td>Vacuum</td>
<td>Bottom and Front</td>
</tr>
</tbody>
</table>

UCS-387 GROSSING STATION 2 USERS AND 2 ASSISTANTS

All the air and the vapors on the surface of the table are absorbed downwards through the perforated plates.

Working Area: 900×700 mm. Frame with adjustable legs for its leveling. Washing sink with 340x370x150 mm in dimension. Faucet with single control and drainage. Exterior exhaust system integrated in the cabinet with a radial fan; noise reducer with a protection system; five position controller for the fan. The UCS-387 universal grossing table with fan can be built with a filtration device integrated and/or with exterior exit; placed against a wall for one working station, or according to the lab space placed in the center for various working stations, ones in front of the others.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
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<tr>
<td>Depth</td>
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<tr>
<td>Height</td>
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<tr>
<td>Working height</td>
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<tr>
<td>Working area</td>
<td>900x700 mm</td>
</tr>
<tr>
<td>Vacuum</td>
<td>Bottom</td>
</tr>
</tbody>
</table>

IF YOU WISH FURTHER INFORMATION, PLEASE CONTACT US.
SAFELY GROSSING

SAFETY GROSSING BOARD

Integrated stainless steel molds for grossing with different depths, that allow to obtaining cuts quickly and safely, with defined thicknesses of 1.5mm, 2.0mm, 2.5mm, and 3.8mm. Clamps. 150 mm mated ruler for sample measurement.

Reference: 040600 Security grossing board and Tools board with 1x Mini Handle, 1x F-80 Handle, 1x F-130 Handle, 1x F-60 Handle and 1x Scissors with exchangeable blades.
Dimensions: 583 x 350 x 35 mm (Complete)

Reference: 040300 Security grossing board (with molds)
Dimensions: 420 x 350 x 35 mm.

Reference: 040000 Grossing board
Dimensions: 550 x 350 x 35 mm.

CUT RESSISTANT DESSECTION GLOVES

Made of polyethylene with ultra high molecular weight (one of the strongest fibers ever) this lightweight glove provides an excellent resistance to the scalpel and knife cuts. You must use it between two nitrile gloves for maximum protection against possible contamination of body fluids. The sterilization can be achieved with the most conventional techniques, including autoclaving.

Reference: 03561 1 pair size S
Reference: 03562 1 pair size M
Reference: 03563 1 pair size L
Reference: 03550 5 pair size S
Reference: 03555 5 pair size M
Reference: 03560 5 pair size L

SAFETYFLEX SAFETY MESH GLOVES

This glove is made of more than 10,000 stainless steel shackles and provides protection against knife, scalpel and saw, while providing a high degree of flexibility. The Safety flex glove should preferably be used between two Nitrile Gloves, and after using the glove it can be cleaned and sterilized using the most usual methods.

Reference: 03530 1 pair size S
Reference: 03533 1 pair size M
Reference: 03536 1 pair size L
VAE-991F VACUUM UNIT

The VAE-991F Vacuum Unit entirely built in stainless steel, it ensures a clean atmosphere in the work area during the tasks of staining, assembling preparations, and slicing of small samples, by a circulating air system.

- Activated carbon filter activated for staining and mounting, or of aluminum oxide with potassium permanganate CARUSORB ® for samples cutting.
- Glass visor
- 30W fluorescent lighting.
- Vacuum speed regulable in continual.
- Removable stainless steel worktop.

Reference: OTUA100 Active carbon

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>995 mm</td>
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<tr>
<td>Depth</td>
<td>600 mm</td>
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<tr>
<td>Height</td>
<td>440 mm</td>
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<tr>
<td>Working area</td>
<td>995 x 400 mm</td>
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<tr>
<td>Air velocity in the perforated surface</td>
<td>0,3 m/s aprox.</td>
</tr>
<tr>
<td>Fan power</td>
<td>3 x 390 m³/h</td>
</tr>
<tr>
<td>Material</td>
<td>CNS 1.4301 polished</td>
</tr>
</tbody>
</table>

Reference: OTUA100F Aluminum oxide with potassium permanganate

PORTABLE UNITY FOR FORMALDEHYDE VAPORS FILTRATION

The OXFORD TRADE portable filtration unit works to eliminate the formaldehyde vapors, glutaraldehyde, and xylene with a single composite filter of the latest technology, that attracts, reacts, and extracts the vapor molecules.

The carving surface is excellent to attract the vapors localized in a certain area, or those caused by accidental formalin spills. It is an inexpensive and effective solution for rooms, such as those used for storage packages with formalin-fixed pieces, which often have high levels of formaldehyde vapors simply by evaporation or permeabilization.

The laboratory technicians are routinely exposed to a variety of harmful chemical vapors in the work areas, such as aldehyde (formaldehyde and glutaraldehyde), and volatile organic compounds such as xylene and ethanol. The legislation provides that the employee exposure be maintained below the Occupational Exposure Limits.

Dimensions: Height 175 mm, Width 145 mm, Depth 195 mm
Weight: 4 Kg.

Reference: OT10EFX
CASSETTES AND SLIDES PRINTERS

PRIMERA – SIGNATURE CASSETTES PRINTER

- Direct printing on Cassettes: eliminates the need to write by hand (Difficult to read).
- Thermal transfer printing
- Two versions: Manual and Automatic Prints on demand (print only the number of ports you need)
- On-demand black or color printing. Low maintenance cost
- Fast printing 6 sec. Per cassette (10 cassettes per minute)
- High resolution: 300 dpi
- Print on standard cassettes with 35° or 45° angles
- Either with or without cover, without adjustment (patented adjustment)
- Very quiet during printing No need for ventilation
- Ink resistant to xylene, alcohol, reagents, stains, heat and chemicals: Reliable identification of cassettes is assured now and in the future.
- USB interface Special software PTLab / PTTemplate
- Ability to integrate with LIS (Laboratory Information Systems)
- Compatible with most cassette manufacturers on the market:
  - Sakura TissueTek UniCassettes (USA / Japan)
  - Klinipath (Europe)
  - Simport (Canada), etc.
- Dimensions: (manual) 24x22x61 cm / Weight: 12 kg
  (Automatic) 49 x 30 x 66 / Weight: 38 kg

Accessories:

- Expansion module: consists of 4 drums or rows of 40 cassettes for a total of 160 cassettes and their installation in the printer is simple.
- Barcode Scanner

Reference: G3/078408

PRIMERA – HEALTHCARE SLIDE PRINTER

- Direct printing on slides
- Unique and first color printer on the market
- On-demand printing (print only the number of ports you need)
- Ink resistant to xylene, alcohol, reagents, stains, heat and chemicals: Reliable identification of slides is assured now and in the future.
- High resolution: 300 dpi
- Text, graphics, logos, bar codes and 2D codes included in each port
- Printing in CMYK Format (Cyan Magenta Yellow Key)
- Small size: 22x18x32 cm / Weight: 7.62 kg
- Slides are stored in a closed place (away from dust)
- Easy maintenance.
- Special software PTLab / PTTemplate for slide template design: ensures that accurate information is always printed on each slide and also allows configurable data output to flow to LIS
- Resistance IP68: water resistant for use in medicine and can be disinfected with typical hospital cleaning solutions
- Compatible with most slides available in the market: Klinipath, Menzell k. etc.

Accessory: •Scanner de código de barras

Reference: G3/078102

IF YOU WISH FURTHER INFORMATION, PLEASE CONTACT US.
CÁMARA DE MACROFOTOGRAFÍA FREESIGHT CON ZOOM ÓPTICO DE 30X

Versatile, scalable and ergonomic HD video camera microscope producing brilliant pictures for fast, reliable optical inspection. The W30x or M20x FreeSight has a powerful and fast 30x optical zoom, with a working range of 350 to 500mm and a fast auto focus for a clear examination of the sample in total High Resolution 1080p. A wide range of lenses, illuminations, software, and configurations of mounts and stands allow all working situations.

Reference M20x: OP-109012 F-M
Reference W30x: OP-209012-M

TECHNICAL SPECIFICATION:

| Image-sensor                  | 1/2.8” CMOS, ~ 3.2M pixels |
| Picture-quality               | Full HD 1080p (1920x1080)  |
| Output signal                 | 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, PAL, NTSC |
| Optics                        | 30x optical zoom with Auto Focus, F1.6 to F14 (F4.7 to F14 at 30x) |

| Working distance (w/o Close-up) |  ~ 350 - 500 mm |
| Working distance with +2 Close-up |  ~ 210 - 245 mm |
| Working distance with +5 Close-up |  ~ 125 - 140 mm |
| Working distance with +10 Close-up |  ~ 73 - 80 mm |

| Field of view at 1x zoom       |  ~ 550 x 309 mm (~0.9x magnification on 24” monitor) |
| Field of view at 10x zoom      |  ~ 56 x 31.5 mm (~9.3x magnification on 24” monitor) |
| Field of view at 30x zoom      |  ~ 18.5 x 10.4 mm (~28x magnification on 24” monitor) |
| Field of view 30x zoom +2 Close-up |  ~ 9.2 x 5.2 mm (~57x magnification on 24” monitor) |
| Field of view 30x zoom +5 Close-up |  ~ 6.9 x 3.9 mm (~75x magnification on 24” monitor) |
| Field of view 30x zoom +10 Close-up |  ~ 4.4 x 2.5 mm (~118x magnification on 24” monitor) |

| Camera control                 | Aluminum housing control unit device with joystick, or PC Control Software via serial COM or USB port |
| Adjustable Parameters          | Optical zoom, iris, exposure (Shutter speed) brightness, focus, White balance (color), picture freeze, NIR-vision mode, image rotate, negative picture, save & recall, zoom factor display and cross line on live image |
| Laser Pointer                  | Red LED laser, 0.5mW output power, Laser Class 2 |
| Inputs                         | DC in and Serial RS-232 (via circular conector or 5-pin MiniDin DB9-F an COM- USB adapter) |
| Outputs                        | HD Component/Pb/PrVideo out (RCA), PAL/NTSCVideo out (RCA) |
| Storage environment            | -20° – +60°C, 20 - 95% RH, non-condensing |
| Operating environment          | -5° – +60°C, 20 - 95% RH, non-condensing |
| Power requirement              | 12.0 VDC, 4.0 W máx. |
| Weight of camera               | 950 g. máx. (Without stand and control unit) |
STP-120 TISSUE PROCESSOR

The STP-120 is nowadays the most advanced carousel tissue processor in the market, both by its performance and its capacity. The new features in the equipment, the rotational agitation that allows a perfect infiltration of the samples, and the spin that optimizes the reagent consumption, ensure that the quality of the processed samples is equal to that obtained with a vacuum equipment.

Available in 3 versions: STP 120-1, STP 120-2 and STP 120-3.

Reference: MSTP-120-1  Standard equipment for 120 samples.
Reference: MSTP-120-2  Standard equipment for 120 samples + Fumes extraction system with active carbon filter.
Reference: MSTP-120-3  Standard equipment for 120 samples + Fumes extraction system with active carbon filter + 3rd paraffin station and 2nd sample holder (up to a total of 240 samples).

EC-350 PARAFFIN EMBEDDING STATION

The EC 350 embedding station has an innovative, compact and ergonomic design, and a high functionality. The flexibility of the new design allows the cold plate (EC 350-2) to be positioned left or right of the dispensing console (EC 350-1) according to the working method of each laboratory. The 5 liters paraffin tank ensures the operation of the dispensing console even in large laboratories.

Reference: MEC-350

EC-500 PARAFFIN EMBEDDING STATION

New center of inclusion EC500. Composed by 3 consoles: (Dispenser, thermal and cryogenic), designed to work in comfort and achieve maximum efficiency. It has two large heated chambers of independent form, that allow to store slide carrier basket of the most common processors of the market. Incorporates scrapers (trimmer) for excess paraffin in the blocks and the touch plate dispenser is adjustable to any size of cassettes.

Reference: EC500
MYREVA SS-30 AUTOMATIC Dyer

The automatic dyeing system MYREVA, due to its flexibility, allows the automatic and simultaneous staining of several stacks with different staining protocols. The instrument's display allows us to visualize the staining processes. It is ideal for staining with Hematoxylin and Eosin (H & E), Papanicolaou (PAP), as well as other user-defined stains or protocols. The user can load the baskets randomly, which maximizes efficiency and productivity.

Reference: EVA-SS30

CTS 500 CASSETTES TRIMMING SYSTEM

After the formation of the block with the sample and the cassette, it’s necessary to remove the excess paraffin from the outside edges of the embedding cassette. Usually this is done manually using a sharp object (knife, scalpel, etc.). It avoids the risk of getting oneself cut, and simplifies this tedious process. Sliding the edge of the cassettes through the grooves of the heated surface, the excess of paraffin flows directly through the specific drain channel towards the waste tray, which can be removed and placed on the heated surface, thus the paraffin will melt, and can be reused if desired.

The working temperature is reached in 20 seconds

Technical data:
- Dimensions: (W/D/H): 130 x 185 x 91.5 mm
- Temperature: up to + 80°C

Reference: 500500
pfm 1100 HEATING PLATE

The pfm 1100 heating plate has an innovative design for stretching and drying of paraffin sections in the histotechnology laboratory. It can be used in routine histological practice, as well as in research and in industry. Programmable touch screen.

▸ External dimensions (W/D/H): 180 x 386 x 80 mm
▸ Heating plate dimensions (W/D): 170 x 300 mm
▸ Temperature range: From room temperature to +60°C

Reference: 041000

BLOCKS REFRIGERATING SYSTEMS

4100 REFRIGERATING UNIT

For quick and easy cooling of paraffin blocks during tissue processing and the cutting.
- Housing: Stainless steel
- Cooling surface: anodized aluminum easy to clean
- Working surface with condensate drain channel
- Data visualization in a user-friendly touch screen.
- Temperature range: -10ºC to 10ºC
- Cooling surface capacity: 60 blocks approx.
- Overall dimensions: (W / D / H): 400 x 510 x 275 mm
- Optional: programmable time switch, Plexiglas cover

Reference: 501003

MCS 400 MOBILE REFRIGERATING SYSTEM

The MCS 400 Mobile Refrigeration System is a perfect complement to the microtome in the histological laboratory. It keeps the sample blocks below room temperature long enough for allowing the microtome cuts, thereby alleviating the need for cooling by other means, for example, ice cubes, or much more expensive systems. The surface of the MCS 400 Mobile Refrigeration System can be cooled to -20°C and will keep cold for an hour or so to maintain the sample at the correct temperature while cutting. It can accommodate from 20 to 25 embedding cassettes arranged in the anodized surface.

- Material: anodized aluminum
- No additional power consumption
- Capacity: 20 to 25 paraffin blocks
- Minimum temperature: -20°C
- Dimensions (W / D / H): 220 x 220 x 25 mm
- Storage on surface: 195 x 195 mm
- Weight: 1400 g

Reference: 400400
The new and modern development of the pfm Waterbath 1000 facilitates the stretching of paraffin sections made in routine histology laboratories, research and industry.

**Features:**
- Housing: anodized aluminum
- Water tank: black anodized aluminum
- LCD screen
- Fast and precise adjustment of the water temperature
- Security device to avoid overheating damage, even for lack of water with level control.
- Power supply protected from water
- Tank capacity: 1.6 L
- Heated rim (width): 50 mm
- Triple illumination

**OPTIONAL:** Anodized aluminum cover with isolated handle

**Reference:** 041000

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**WB-693 HISTOLOGY BATH**

Thermostatic bath specially designed for the perfect stretching and drying of tissue sections in Histology and Pathology laboratories. The black surface of the container allows a good observation of the section, and the wide thermal edge allows an excellent drying of the preparation. Temperature regulation from 30º to 80ºC, controlled by a thermostat and a thermal fuse.

White enameled aluminum housing and black matte anodized aluminum bucket.

- Bucket capacity: 1.2 L (1.5 L max.)
- External dimensions: 300 × 97 mm
- Interior dimensions: 200 × 50 mm

Includes thermometer for temperature control of the bucket.

**Reference:** TSP-6-7010
SLEDGE OR SLIDING MICROTOMES

BRIGHT 8000 DOUBLE SLEDGE ON BASE MICROTOME

Double base sledge sliding microtome with 60 µ retracting system for sectioning hard objects and large surfaces. Automatic section thickness range selectable from 1 to 40µ, adjustable in 1µ increments.

Consists of:
- Solid base with dual guide for sliding the slides holder trolley.
- Slides holder trolley.
- Standard gripper clamp.
- Control for the vertical displacement and trimming of the object.
- Microns selector command.
- Slip and sectioning handle.
- Blade holder easel with double clamping bolt, handheld and adjustable cutting angle system.

TECHNICAL SPECIFICATIONS
- Sample coarse feed: From 0 to 40µ in 1 µ increments
- Retraction: 60 µ
- Maximum size of the object: 170 x 250 mm
- Dimensions: Length 61cm, Height 32,5, Width 26cm
- Weight: 25 Kilograms

pfm2003 SLIDING MICROTOME

Cut by sliding microtome.
- Maintenance free system of crossed horizontal and vertical bearings.
- Microns selection: from 0 µm to 10 µm in increments of 0,5µm, from 10 µm to 40 µm in increments of 5 µm.
- Fine adjustment of the X and Y axis orientation
- Integrated tray for discarded sections.
- Slide quick change system.
- Object displacement: 350 microns.
- Vertical displacement of the object: 48 mm
- Horizontal displacement of the blade: 180 mm
- Dimensions: width 320 mm, height 270 mm, depth 420 mm
- Weight: 20 kg
Cutting window: automatic by motorized sliding action with step motor
Sliding movement: Manual and Automatic
Fine adjustment of the x-y axis orientation.
Integrated tray for discarded cuttings.
Rapid system for changing slides.
Microns selection: from 0 µm to 100 µm
Cuttings counter display.
Object coarse: 0-50 µm.
Memory function.
Vertical range of the object: 30 mm
Horizontal range of the blade: 180 mm
Dimensions: width 320 mm, height 270 mm, depth 420 mm
Weight: 21 kg

ROTATION MICROTMES

pfm Rotary 3004M MICROTMOME

- Ergonomic design
- Backlash- and maintenance-free horizontal and vertical cross-roller bearing system
- Soft sliding hand wheel
- Hand wheel lock in any position
- Quick change system for platen carrier clamp
- Easy orientation of the sample
- Retraction system
- Trimming device
- Cuttings counter
- Fingers protector
- Waste tray
- Anodized surface, easy to clean

- Coarse feed: manual by crank
- Cut: manual by handwheel
- Cuttings thickness: 0.5 - 60 µm
  From 0.5 to 10 µm in increments of 0.5 µm
  From 10 to 20 µm in increments of 1 µm
  From 20 to 60 µm in increments of 5 µm

- Sample orientation: 10° X / Y / Z
- Coarse: 40 µm
- Trimming Device: Two positions 10 and 20 µm
- Dimensions (W / D / H): 450 x 530 x 275 mm
- Horizontal Range: 30 mm
- Vertical Range: 70 mm
- Weight: 38 kg
Rotary 3005E MICROTOME WITH MOTORIZED FORWARD / REVERSE

- Ergonomic design
- Backlash- and maintenance-free horizontal and vertical cross- roller bearing system
- Soft sliding hand wheel
- Hand wheel lock in any position
- Quick change system for platen carrier clamp
- Easy and accurate orientation of the sample
- Electronic configuration and functions via touch screen
- Retraction system with deactivation
- Memory function
- Anodized surface, easy to clean

- Cuttings counter
- Fingers protector

*Coarse feed: electronic
*Cut: manual by hand wheel
*Cuttings thickness: 0,5 - 100 μm

**Adjustment range:**
From 0,5 to 10 μm in increments of 0,5 μm
From 10 to 20 μm in increments of 1 μm
From 20 to 50 μm in increments of 5 μm
From 50 to 100 μm in increments of 10 μm

*Sample orientation: 10° X / Y / Z
*Coarse: 0 - 100 μm in increments of 5 μm
*Indicator of 1mm advancement availability: Visual and audible
*Trimming mode: 1 - 100 μm in increments of 1 μm
*Horizontal range: 30 mm
*Vertical range: 70 mm
*Dimensions (W/D/H): 450 x 530 x 275 mm
*Weight: 38 kg

Rotary 3006 EM MOTORIZED MICROTOME

- Ergonomic design
- Backlash- and maintenance-free horizontal and vertical cross- roller bearing system
- Soft sliding hand wheel with removable handle
- Hand wheel lock in any position
- Quick change system for platen carrier clamp
- Easy and accurate orientation of the sample
- Electronic configuration and functions via touch screen
- Retraction system with deactivation
- Memory function
- Cuttings counter
- Cuttings thickness increment
- Cutting window

- Fingers protector
- Sectioning action pedal
- Anodized surface, easy to clean

*Coarse feed: electronic
*Cuttings mode: manual, continuous, section to section, and via touch screen

**Adjustment range:**
From 0,5 to 10 μm in increments of 0,5 μm
From 10 to 20 μm in increments of 1 μm
From 20 to 50 μm in increments of 5 μm
From 50 to 100 μm in increments of 10 μm

*Sample orientation: 10° X / Y / Z
*Coarse: 0 - 100 μm in increments of 5 μm
*Indicator of 1mm advancement availability: Visual and audible
*Trimming mode: 1 - 100 μm in increments of 1 μm
*Horizontal range: 30 mm
*Vertical range: 70 mm
*Dimensions (W/D/H): 450 x 530 x 275 mm
*Weight: 38 kg
Bright instruments introduces the M3500 Microtome with radial action for sections of samples embedded in paraffin. It's available with a wide range of accessories, which will satisfy the user requirements, including sample orientation, motorized forward and reverse, motorized sectioning, and Disposable blades holder with FEATHER® release lever.

- Radial action sections to achieve excellent results.
- Automatic coarse.
- Motorized forward and reverse with dual controls on both sides (depending on version).
- Cuttings counter.
- Motorized sectioning (depending on version).
- Accepts a wide range of conventional blades and disposable blade holders.
- Original disposable blades holder with FEATHER® release lever for an easy and safe use (optional).
- Height adjustable blade protectors to accommodate varying heights of the blades.
- Big waste tray integrated.
- Innovative screen against waste, increases security when a blade is positioned.
- It can be used comfortably, placed 90° to the user.
- 10 positions steering wheel lock for greater safety.
- Quick cassette clamp.
- Sample orientation (optional).
- The motorized forward and reverse action can be stopped without causing any damage (depending on version).
- Disposable blade holder with lateral movement ensures a total use of the blade in its entire length.
Stylish aspect, durable and easy to clean, the **Starlet** cryostat is made of steel coated with an ABS polymer, resistant to scratches, laboratory solvents and detergents. The compact camera is made of stainless steel, equipped with fast sample freezer and removable storage tray. Easy to clean and resistant to the most common decontamination agents. Being relatively small, the **Starlet** ensures a short time temperature drop to -30°C in the chamber, and -40°C in the sample quick freezer. While not in use, an insulating cover ensures the efficient operation of the cooling system, while providing reduced icing. If the equipment is moved, the camera will stay cold for a long period of time.

Bench-top cryostat with programmable freezing chamber up to -30°C, and ultra fast freezing device up to -40°C. Automatic defrost and LCD screens for digital temperature readings. Microtome for a thickness of 2 to 12μ cut adjustable in increments of 2μ. Cuts and feed by rotation of the outer wheel. Faster trimming by hand wheel.

- Platen carrier clamp. 3 circular platens of Ø 22 mm.
- Working chamber upper opening of 225 × 165 mm. with removable lid.
- MAGNACUT magnetic holder with two disposable blades. Adjustable sections-stretching plate.

- Temperature control by thermostat from room temperature to -30° with digital display and automatic defrost with full programming.
- Choice of sectioning wheel or sectioning lever
- It uses disposable blades, and incorporates the stretching section plate of easy placement.
- It makes excellent cuttings as a conventional cryostat
- Small, low cost and portable, plus a 12V DC version enables it to work in the "field.
- “Magnaplate” sections stretching system

Dimensions: 740mm depth, 545mm width and 315mm height

Weight: 40kg
The Clinicut 60 is an "open top" cryostat made of corrosion resistant steel, coated with a layer of a polymer resistant to scratches, solvents, and laboratory detergents. The chamber is made of a high degree polished stainless steel.

Compressor: 1 x 15 c.c.
Coolant: HFC Coolant.
Freezing power: 150 W. a -35°C.
Temperature range: From room temperature to -35°C with automatic programmable defrosting. Rapid freezing of the sample with constant temperature between -44°C and -53°C.

Microtome
Section displacement: 57 mm.
Maximum size of sample: 25 mm.
Total coarse displacement: 24 mm.
Blade holder: accurate adjustment of the section angle from 0° to 25°
Sample carrying platen: 25 mm. Ø
Sample orientation: 360° swivel
Cutting thickness: from 2 to 30 μ in increments of 2 μ
Dimensions: 135 height, 690 depth, 675 cm width
Weight: 125 Kg

- Cryostat with semiautomatic liquid spray decontamination system with 3,5 hours program.
- Motorized automatic closing window.
- Flat radial sectioning, retraction radial microtome with external controllers, and audible warning for cutting limits and orientation of the sample.
- Motorized forward and reverse, with manual control of the section.
- Thickness of the section ranging from 1 to 35 microns, by one micron increments.
- Minimum temperature of the cryo chamber: -35°C.
- Digital screen for temperature control.
- Removable blade holder that can be sterilized in autoclave
- Rapid freezing of embedding molds to -55°C.
- Digital electronic control for cuttings thickness by memories.
- Interior fluorescent light.
- Magnacut disposable blades system.
<table>
<thead>
<tr>
<th><strong>Cryochamber:</strong></th>
<th><strong>Quick freezer</strong></th>
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</thead>
<tbody>
<tr>
<td>Polish Stainless Steel 9 positions, works 10ºC under the chamber temperature, an ultra low temperature -80ºC version can be assembled in the factory with an additional charge.</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Minimum chamber temperature:</th>
<th>Chamber temperature control:</th>
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<tbody>
<tr>
<td>With compressor -35ºC.</td>
<td>Microprocessor with screen</td>
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<thead>
<tr>
<th>Evaporation Defrosting:</th>
<th>Cutting System:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic analog clock</td>
<td>Manual with counterweight wheel</td>
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</tbody>
</table>

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<thead>
<tr>
<th><strong>Microtome:</strong></th>
<th><strong>Section Range:</strong></th>
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</thead>
<tbody>
<tr>
<td>5040 rotation Microtome</td>
<td>1.5 µm to 30 µm in increments of 0.5 µ</td>
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<thead>
<tr>
<th><strong>Maximum advance of the sample:</strong></th>
<th><strong>Movable blade carrier:</strong></th>
<th><strong>Blade angle adjustment:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6 mm.</td>
<td>44mm (Coarse handle).</td>
<td>25º</td>
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<tr>
<th><strong>Window:</strong></th>
<th><strong>Window defogging:</strong></th>
<th><strong>Defrosting clock:</strong></th>
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<thead>
<tr>
<th><strong>Normal working height:</strong></th>
<th><strong>Low working height:</strong></th>
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<tr>
<td>990mm</td>
<td>890mm</td>
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**Configurations**

El The OTF 5000 Cryostat is available in three configurations.

**The Basic Instrument** which includes; Fast Freezer, Interior shelves, Defrosting with evaporator, Manual cutting system, 5040 microtome with fixed head, Thermal window, Defrosting analog clock, Side panel with notmediate use controls, and a full set of accessories.

**LS Specifications**, which includes all the Basic Instrument features, and additionally 2-speed motorized forward/reverse, precise orientation of the object, and Cryomatic (temperature control of the sample).

**HS Specifications**, which includes all the LS features, and additionally 6-digit cuttings counter, Dual Refrigeration and Motorization of the cut.

**Criostato OTF 5000 está disponible en tres configuraciones:**
The most common application is the Whole Body Autoradiography (WBA), which is used to trace radio-labeled drugs or other compounds in the frozen bodies of laboratory animals. There are many other uses of this general cryostat, including the fields of anatomy and training. Outside the biological field, also for scientific and industrial use to cut objects as diverse as electrical insulation, timber and automobile plastic chassis joints.

- Incorporates the 8000 sledge microtome with electro-linear drive
- Section samples up to 250mm long
- Dual refrigeration system to give a faster cool-down
- Used for autoradiography
- Automatic sectioning sequence
- Electro-linear drive produces stronger sections

The 9400 cryostat is the largest cryostat in our range, although its uses are similar for those mentioned for the 8250, the standard features for this machine are more complete.

- Incorporates the 9000 microtome
- Section samples up to 400mm long
- "Electronic eye" safety features
- Used for autoradiography
- Optional blade retraction
- Quick release sample holder
- Electro-mechanical interlocked system
- Electro-motor of linear drive
It is well known that there is a risk to health in autopsy rooms because of the permanent contact with blood and other pathogen fluids. To tackle the issue, De Soutter Medical has launched a revolutionary oscillating saw system designed specifically for obtaining clean cuts, safe and with minimal risk during autopsies. The saw is completely waterproof and is complemented by a maximum security extractor.

**CLEAN CUT CNS3A AUTOPSY SAW WITH EXTRACTION**

The saw is waterproof and can be fully immersed for cleaning and disinfection. Electrical connection cable of 4 m. The control module is easily cleaned and decontaminated, and allows to vary the oscillation speed for an optimum cutting. The extraction system is connected and disconnected by the single button on the saw. The 2m exhaust pipe is smooth in its inner surface for easy cleaning and disinfection.

**FIVE FILTRATION LEVELS**

- **Level 1 filter.** A paper bag with an internal disposable rubber, it closes and retains the waste when removed from the extractor.
- **Level 2 filter.** An outer cloth bag with zipper, retains the waste if the inner paper bag fails. If you want to retrieve the bag, it can be washed and disinfected.
- **Level 3 and 4 filter.** Two fabric filters protect the micro filter in case of splash, or paper and bag incorrectly placed. They can be rinsed and immersed in disinfectant if necessary.
- **Level 5 filter.** Inside the handlebar of the extraction unit, the micro filter retains particles greater than 0.5μ.

**REFERENCE: 04CNS3240**

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**CLEAN CUT NS3A/T AUTOPSY SAW**

The same saw without extraction. The saw has an extension shaft for easy access to difficult areas, it’s waterproof and it can be fully immersed for cleaning and disinfection. Electrical connection cable of 4 m. The control module is easily cleaned and decontaminated, and allows to vary the oscillation speed an optimum cutting

Oscillation frequency: 0-14000
Voltage: 40 V. d. c.
Motor power: 100 W
Weight: 1.15 Kg
Capacity of waste bag: 7.5
Extractor unit motor: 1.000 W
Filtration: 99.997%>0.5 mm

**REFERENCE:04NS3240/T**
SECURITY STORAGE CABINETS

STORAGE CABINET WITH VENTILATION AND FILTRATION FOR HISTOLOGY SAMPLES STORED IN PACKAGES WITH FORMALDEHYDE

Safety cabinet with ventilation designed to store tissue samples in formaldehyde or chemical products (acids and bases) depending on the type of filter installed.

FEATURES
- Structure, doors and shelves in galvanized steel of thickness 12/10, antiacid Epoxy paint coated in gray color (RAL 7035).
- Double 6/7mm tempered glass door to prevent accidents, equipped with lock and 180° opening to facilitate the removal of the trays. Hazard symbols in yellow as regulation.
- Three removable and height adjustable shelves, tray molded for fluid retention in case of accidental spillage. Capacity 50Kg.
- A bottom tray in stainless steel AISI 304 of thickness 12/10, for containment of accidental liquid spills.
- Four adjustable antistatic and nonskid feet allow a perfect adjustment of its horizontal position.

MAIN FUNCTIONS
- Start switch
- Emergency switch
- Ventilation system start / stop switch
- Switch for germicidal U.V. lamp (only with option 19-AC15/UV)
- Suction speed control
- Visual bright LED alarm and audible filter saturation alarm
- Acoustic alarm for open door
- Acoustic alarm for muted keys
- Key for parameters of work change
- Automatic start and stop programming
- Filter change scheduling
- Automatic start and stop programming of the U.V. lamp (only with option 19- AC15/UV)

VENTILATION / FILTRATION SYSTEM
Anti-spark electric fan of adjustable speed. IP 55 protection. 60mm H2O.
- Activated aluminum 19FT200AL and potassium permanganate formalin filter, or for solvents 19FT250CC (optionally supplied)
- The cabinet is provided with a connection of Ø 120 mm at the top to allow connection to the hospital centralized pipeline system.
- The fan at the top allows the aspiration of gases from the interior. The air is purified by the filter located below the fan

Modelo FC 1200, Ext.dimensions(Width x Depth x Height): 1200x550x1900mm.
Modelo FC 1000, Ext.dimensions(Width x Depth x Height): 1000x550x1900mm.
Modelo FC 700, Ext.dimensions(Width x Depth x Height): 700x550x1900 mm.
VENTILATED LOCKERS FOR SURGICAL STAINLESS STEEL PARTS

Cabinet entirely made of stainless steel, with ventilation system for formaldehyde vapors, to store pieces in their histological polystyrene containers.

• 6 shelves, 4 of which are adjustable in height
• Divided in two areas upper and lower, with independent ventilation in each area towards the side vent panel.
• The gases produced by the formol are extracted by the side panel (on the left or on the right as required) outward, favoring clean air inside the cabinet. Upper or external extractor as required.
• 4 sliding laminated glass safety doors (3 +3). Because its transparent glass it makes easier to find the sample before opening. When opened, the typical formation of air currents in the case of swinging doors is prevented. They also facilitate maneuverability in tight spaces.
• Ability to attach cabinets

Illustration: Two attached cabinets with central panel ventilation

Specifications:

Dimensions:

Different Widths: 1.000 mm, 1.300 mm, or 1.500 mm (including side panel vent of 100 mm)
Height: 2.000 mm
Depth: 500 mm or 600 mm

Material: Stainless steel (DIN 1.4301), 320 grit fine grinding
SECURITY STORAGE CABINETS

FOLDING DOORS CABINET

Fire protection according to UNE-EN 14470-1 (Type 90).

Operation:
Soft closing doors with air cushion. Low-effort demand: the doors open and lock with one hand. The mechanical closure elements are outside of the storage area. The corrosion is avoided and the main components are protected. Folding doors. Greater space saving. Opening to 90°. Vertical profile at the hinge, maximum protection against entrapment.

Lock:
Includes lock with key. They can be adapted to the building master key. Locking system (standard). Thermal fuse built into the deadlocks system acting between 40 and 50°C.

Trays:
Adjustable height at 32 mm. With bracket against overturning. Easily-removable retention bucket. With lip seals on three of its sides to collect spills.

Practicable drawers:
High storage capacity. Total accessibility and easy handling.

Supporting feet:
Integrated into the closet’s floor. Adjustable from the inside. They level the cabinet without additional mounting hardware.

Accessories:
Ventilation system with UFA.20.30 filter. Protected pipe sleeves for wires or tubes. Protectors for trays in PE and PP. Chemical products box. Inside locked chest to control the access to special products.

Model VBFT196.120, cabinet width 1200 mm with practicable drawers or fixed trays, and deadlocks system.

We have more models and measures besides the ones displayed in this catalogue.