Histology Equipment Catalog
2012-2013

Full range of quality histology equipment at compatible price
With one year manufacturer warranty
KEDEE Brand Histology Equipments

Our KEDEE series instruments include Microtome, Cryostat, Tissue Processing System, Tissue Embedding System, Tissue Slide Stainer, Tissue Spreader and Roaster, Automatic Grinder & Related Pathological Consumable, etc., especially, our patented Instrument: Ultrathin Semi-Automatic Microtome KD-3358 can slice and accurate at 0.25µm. It reflects that we are standing on the top of this field.

KEDEE Histopathology instruments are widely used in the hospital at all levels, medical and life science division, agricultural and forestry institute, epidemic prevention center, veterinary center, public security and legal medical experts office, scientific research institute and laboratory etc.

Microtome

KD3368AM Full Automatic Microtome

KD-3368AM automatic microtome is advanced new-type developed based on semi-automatic microtome. It’s soul combined by device and manufacture, which owns proprietary intellectual property rights. It’s ideal slicing machine in histopathology research. KD-3368AM adopted with streamline design, advanced, stable performance, easy to operate. Driving feed system is controlled by intelligent procedure, quick rotary-switch or automatic slicing. Speed of automatic slicing can be adjusted, with safe, quick braking system; precise electronic mechanic design and manufacture to ensure high precision of tissue slicing; automatic operation ease labor intensity, correspond with human ergonomics.

Features:
- advanced import drive systems, trimming, slicing, fast forward, fast step back, easy-transform
- LCD indicates thickness of slicing, trimming and also counting of slicing
- both slicing and trimming can be finished by controlling system
- hand wheal can be locked at any position, to ensure safety of tissue slicing
- high-volume trash tank can be easily taken down

Technical Specifications:
- Range of section thickness setting:
  - 0.5-100 µm
  - 0.5-2µm increment 0.5µm
  - 2-10µm increment 1µm
  - 10-20µm increment 2µm
  - 20-100µm increment 5µm
  - Range of trimming setting: 1-600µm
  - 1-10µm increment 1µm
  - 10-20µm increment 2µm
  - 20-100µm increment 10µm
  - 100-600µm increment 50µm
  - Specimen horizontal feeding:26mm
  - Maximum stroke length:60mm
  - Range of specimen retraction:20µm
  - Specimen clamp can be 360° turned
  - Minimum setting thickness of slice:0.5µm
  - Maximum size of slicing:50 x 50mm
  - Precision error:±10%
  - Voltage: AC220V 50Hz or 110V 60Hz
  - Power: 150VA. Weight : 35kg

Price: $9,800
KD3368 Semi-Automatic Microtome  
Price: $8,900

KD-3368 is a new semi-automatic Microtome. After promoting KD-3368, we successfully design and complete a new generation of microtome KD-3368. It integrates the modern and ergonomic design, adopted with our advance technique with the excellent performance, it reflect as the characteristic of the latest model in Histopathology fields, that point the way to the future.

Function and characteristic:
- Motorized drive.
- Compatible Embedding Material paraffin, plastic.
- The cutting and trimming function can be finished by the control system.

Technical Specifications:
- Range of the thickness of slice: 0 ~ 100μm
- Range of the thickness of trimming: 0-100μm
- Setting thickness of slice ranges:
  - 0~10μm increment 1μm
  - 10~20μm increment 2μm
  - 20~100μm increment 5μm
- Horizontal specimen stroke: 26mm
- Vertical specimen stroke: 60mm
- The retraction of the specimen clamp: 20μm
- Minimum setting thickness of slice: 1μm
- Maximum section of slice: 50×50mm

KD3358 Ultrathin Semi-Automatic Microtome  
Price: $7,900

After promoting KD-202, KD-1508, KD-2508, KD-2258, we successful design and complete a new generation of microtome KD-3358, it integrate the modern and ergonomic design, adopted with our advanced technique, with the excellent performance, it reflect as the characteristic of latest model in Histopathology field, that point the way to the future.

Technical Specifications:
- Motorized drive.
- Range of the thickness of slice: 0.25-60 μm. Range of the thickness of trimming: 0.25-60 μm.
- Setting thickness of slice ranges: 0.25-1 μm increment 0.25 μm; 1-10 μm increment 1 μm; 10-20 μm increment 2 μm; 20-60 μm increment 5 μm.
- Specimen Horizontal feeding: 28 mm. Stroke Length: 58 mm.
- Maximum section of slice: 50 x 50 mm.
- Disposable Blade Index: Low profile blades.
- Retractable specimen clamp, auto feed cutoff: with alarm. Lateral knife holder.
- Dimension and weight: KD-3358 Microtome: Length x Width x Height: 520 x 430 x 330 mm, 24 kg.
- Working Voltage: 220 V, 50 Hz. (110 V, 60 Hz. optional)
KD-2268 Manual Microtome

KD-2268 microtome is a new-developed model. It offers features different from others. This machine adopts advanced guide rail, high-precision lead screws, retraction function, section and trimming modes. This model has professional design, secure structure, high-precision, stable performance. It’s perfectly suited for those who expect precision sectioning.

**Technical Specifications:**

- Section thickness range: 0～60μm
- Setting value: 0～20μm increment 1μm
  20～60μm increment 5μm
- Minimum setting value: 1μm
- Precision Error: ±5%
- Maximum Specimen Size: 60x50mm
- Trimming setting mode: 15μm or 35μm
- Specimen retraction range: 90μm
- Specimen retraction range of 90μm can be shut off
- Object Feed: 30mm, Vertical Stroke: 70mm
- Specimen orientation system: 8 X/Y
- Dimension: 570mmx500mmx300mm
- Net Weight: 33kg

**Features:**

- Ergonomical conception of devise, no feeling of tire for routine operation
- Good section result whether by use of Standard Steel Knife or Disposable Blade
- Specimen clamp positioned at 8 X/Y precision orientation system
- Handwheel system allow the handwheel locked at any position
- Specimen retraction function (this function can be shut), Cutting and trimming modes
- Course Feed handwheel systems, closer to user to protect fatigue-free section
- Exact zero position precise orientation systems, easy to operate
- Red Knife guard to avoid any damage to user, and easy to change disposable blade
- Blade holder can be moved sidewise, no need to move blade
- An integrated storage tray (not supplied with basic instrument) ensures that ancillary tools are on hand at all times
- Large Waste tray, easy to clean and unload

KD-2258 Manual Microtome

In order to meet the standard need of analysis and research of lab institute, KD-2258 is designed to meet the request of senior scientist for achieving their demand of operating the instrument by infallibility manual and experience. It constructs with precise mechanical axis structure internal, that with a high-degree of accuracy and stability.

**Technical Specifications:**

- Ergonomic mechanism structure internal.
- Both of steel knife and disposable blade can be used.
- Specimen clamp can be fixed flexible in 3 dimensional axis.
- Hand-wheel can be locked in any position.
- Blade holder can slide to and from, lateral.
- Easy clean enclosure and litter groove.
- Setting thickness of slice ranges: 1-25 μm increment 1 μm; 25-60 μm increment 5 μm
- Specimen Horizontal feeding: 28 mm. Stroke Length: 58 mm.
- Maximum section of slice: 55 x 50 mm.
- Dimension and weight: KD-2258 microtome: Length x Width x Height: 500 x 460 x 300 mm, 23.3 kg.

**Price:** $6,800

**Price:** $5,900
KD-2508 Rotary Microtome

Technical Specifications:
- Mechanism drive.
- Compatible Embedding Material: Paraffin.
- Range of the thickness of slice: 1-35 μm.
- Minimum setting thickness of slice: 1μm.
- Precise error: + 10%.
- Maximum section of slice: 60 x 40 mm.
- Steel-knife holder and disposable-blade holder are available. Disposable-blade holder can be used for low & high profile disposable blade.
- Dimension and weight: KD-2508 microtome: Length x Width x Height: 450 x 320 x 320 mm, 19 kg.

Adopted with precise mechanism internal with good stability that ensure the constant and evenly slice. It is ideal instrument for analysis and research in the lab institute.

KD-1508A Rotary Microtome

Technical Specifications:
- Mechanism drive.
- Compatible Embedding Material: Paraffin.
- Range of the thickness of slice: 1-35 μm. > 35 μm, setting any thickness for slice.
- Minimum setting thickness of slice: 1 μm.
- Precise error: + 10%.
- Maximum section of slice: 50 x 40 mm.
- Dimension and weight: KD-1508A microtome: Length x Width x Height: 470 x 320 x 320 mm, 22.5 kg.

Adopted with mechanism structure internal with good stability that ensure the reproducible and evenly slices. It is universal used in the lab institute.

KD-1508B Rotary Microtome

Technical Specifications:
- Mechanism drive.
- Compatible Embedding Material: Paraffin.
- Range of the thickness of slice: 1 - 35 μm (reproducible slices).
- Minimum setting thickness of slice: 1 μm.
- Precise error: + 10%.
- Maximum section of slice: 60 x 40 mm.
- Dimension and weight: KD-1508R microtome: Length x Width x Height: 470 x 320 x 320 mm, 22.5 kg.

As the improved product of KD-1508A, KD-1508. KD-1508B adopted with good-hardness alloy steel mechanism structure internal with good stability that ensure the reproducible and evenly slices. It is specially used for slicing the hard tissue such as fibrin, plastic, bone, plant, hair etc.

Price: $3,200

Order: sales@ihcworld.com Tel: 443-686-9618 Fax: 443-638-0394 Web: www.ihcworld.com
KD-400 Vibration Microtome

Price: $3,800

Technical specifications:
- Slice speed: 0-1.3 mm/s.
- Vibration sphere: 0-1 mm (adjustable).
- Sphere of specimen platform up and down: 9 mm.
- Range of the thickness of slice: > 10 μm.
- Minimum setting thickness of slice: 1 μm.
- Angle of the knife for slice: 15 degree.
- Dimension and weight: KD-400 Vibration microtome: Length x Width x Height: 400 x 220 x 300 mm, 12 kg.
- Working Voltage: 220 V, 50 Hz. (110 V, 60 Hz. optional)

It is general used in biomedical research institute, especially used for slicing fresh tissue such as brain, marrow, heart, kidney etc. the tissue needn’t freezing and embedding before slice, that the specimen remain its active and modality of cell. With the related scientific experimented it is proved that vibration microtome can slice a minimum thickness of 10μm for brain tissue & marrow tissue. And it can slice a minimum thickness of 30μm for heart tissue & kidney tissue. And their slice section is intact & smooth for further evenly dyeing.

KD-ZMD-II Automatic Steel-Knife Grinder

Price: $2,600

Technical specifications:
- Angle of knife-edge adjustment: 20°C - 45°C.
- Interval turnover of knife: 5s, 10s, 25s.
- Grinding time: 0 – 60 minutes.
- Grinding knife size: below 240 mm in length.
- Working voltage: 220 V /50 Hz, 110V/60Hz optional.
- Power: 40 W.
- Dimensions overall: 570 x 500 x 420 mm (W x D x H), Weight: 52 kg.

Especially supply for sharpening steel knife’s edge that saving a lot of manual work of grinding.

Cryostat

KD-2900AM Fully Automatic Cryostat

Price: $19,800

Parameter:
- Cryo-plate temperature: -5°C to -45°C.

- Emergency stop function :if meet emergency time, press red button, it can stop in no time;
- 2 small controlling panels left side and right side to operate touch LCD screen;
- Cooling unit consists of a heavy duty compressor operating with CFC-free cooling gas to reach -35°C.
- Design and construction takes into consideration easy handling and minimal servicing requirement. The enclosed microtome has connection to external drive and includes anti-roll device. The sliding window is made of dual insulation frost free glass. The spacious cabinet consists of coated sheet metal with the opening at the top. It
- Cryo-probe temperature: -5°C to -30°C.
- Speed of horizon specimen feeding: 0.8mm/second.
- Dimensions: height 1120 x length 780 x width 720 mm, Weight: 130 kg.
- Voltage: 220 V, 50 Hz /110 V, 60 Hz (optional).
- Power: 600 W.

Accessories:
- 1 tool bag.
- 1 operation manual
- 1 knife 16 cm C-Profile with box
- alternatively 1 box with 50 disposable blades

Options:
- Additional motor drive for Cryostat
- Additional four castors (mounted)

Features:
- Fully-automatic sectioning with adjustable speed and three sectioning mode: continuous step and single;
- 114 x 60mm touch LCD screen can display data such as sample stroke, thickness, function controlling date, time, temperature, timed on/off, fumigate and defrost and so on;
- Precision of the microtome gives reproducible sections of 0 - 60 µm in 1 µm step up to 10 µm, 2 µm step up to 20 µm and 5 µm step up to 60 µm. Automatic micro-retraction of holder, adjustable at time of manufacture.
- Specimen table are 22 mm or 35 mm diameter. The maximum specimen size is 55 mm diameter. Stroke of the X-axis is 59 mm. The motorized advance/retraction has a range of 28 mm and is push-button controlled by 2 different speeds, ergonomically installed in left-hand arm rest. The unit uses a modern rotary microtome with extremely good mechanical stability. The specimen is only going on one direction. The knife carriage is only going one plain. The accessories of the knife holder include the knife holder base and the disposable blade holder, optional the steel knife holder.
- Fully automatic controller allows adjustment of temperature in 1°C steps down to -40°C. The defrost system is fully automatic and is adjusted by real time clock. Defrost is automatic and freely programmable.

KD-2950 Semi-Automatic Cryostat Microtome

**Price:** 16,800

Features:
- It is designed under overall engineering and ergonomic concept. All the components are processed with computer numerical controlled machine.
- Specimen retraction function protects specimen from blade injury.
- Trimming/Cutting button makes it easy to switch from trim and section mode.
- Equip with counter to calculate total pieces and thickness.
- Dual compressors, which are made in Germany, freeze the Cryostat chamber, freezing shelf, knife holder and specimen Clamp separate with pro-environment refrigerant R404.
- Temperature can drop to working condition in 60 minutes after switching on.
- Adapt to UVC sterilize for 35 minutes every time.
- Peltier may be on or off manually.
- Heated, removable sliding window.
- Two defrost methods: definite time and
Features:

- Coarse feeding speed: 0.7mm/s; 0.35mm/s.
- Section thickness range: 1μm-80μm adjustable.
  - 1μm-20μm, in 1μm increment
  - 20μm-40μm, in 2μm increments
  - 40μm-80μm, in 5μm increments
- Trimming thickness range: 10μm-400μm, adjustable.
  - 10μm-50μm, in 5μm increments
  - 50μm-100μm, in 10μm increments
  - 100μm-400μm, in 50μm increments
- Retraction range: 0-80μm adjustable; in 5μm increment.
- Voltage and frequency: AC220V~10% 50HZ (Standard) Special requirement (AC110V) may customize by order.
- Power: 850VA.
- Dimension (WX DX H): 660x640x1130mm.
- Net weight: 130kg.
- The high-precision microtome is enclosed outside the cryostat chamber to protect it from thermal expansion and contraction and keep minimum service and maintenance.
- Self-explanatory symbols for all functions and displays, easy to learn and operate.
- LCD screen can display date such as sample travel, thickness, function controlling, day, time, temperature, timed on/off and so on.
- Standby mode, after initializing, the temperature in cryostat chamber can be controlled between -4 C and -9 C by computer automatically; when stop initializing, the temperature in freeze chamber will arrive to working temperature within 10 minutes.
- Control panel with locking function to avoid wrong operation.
- Handwheel locking.
- Sensor self-diagnosis function.
- Wide freezing shelf may put 10 specimen cassettes.

Technological Specifications:

- Freezing chamber temperature range: between -10 C to -30 C.
- Cooling down time to -30 C: 60 min.
- Freeze shelf minimum temperature:-45C
- Lowest temperature of peltier unit on freeze shelf: -55 C.
- Peltier working time: 15 minutes.
- Maximum specimen size: 35mm x35mm
- Vertical stroke: 60mm, Object feed: 20mm.
- Coarse feeding speed: 0.7mm/s; 0.35mm/s.
- Section thickness range: 1μm-80μm adjustable.
  - 1μm-20μm, in 1μm increment
- The high-precision microtome is enclosed outside the cryostat chamber to protect it from thermal expansion and contraction and manual.
- It is designed under overall engineering and ergonomic concept. All the components are processed with computer numerical controlled machine.
- Specimen retraction function protects specimen from blade injury.
- Trimming/Cutting button makes it easy to switch from trim and section mode.
- Equip with counter to calculate total pieces and thickness.
- In the mandatory refrigeration structure, one compressor, which is made in Germany, freezes the cryostat Chamber and shelf separate with pro-environment refrigerant R404.
- Temperature can drop to working condition in 60 minutes after switching on.
- Adopt to UVC sterilize for 35 minutes every time.
- Peltier may be on or off manually.
- Heated, removable sliding window.
- Two defrost methods: definite time and manual.
- The high-precision microtome is enclosed outside the cryostat chamber to protect it from thermal expansion and contraction and manual.
Trimming thickness range: 10μm-400μm, adjustable.
- 10μm-50μm, in 5μm increments
- 50μm-100μm, in 10μm increments
- 100μm-400μm, in 50μm increments

Retraction range: 0~80μm adjustable; in 5μm increment.

Voltage and frequency: AC220V~10% 50HZ (Standard) Special requirement (AC110V) may customize by order.

Power: 650VA.

Dimension(WX DX H): 660x640x1130mm

Net weight: 125kg.

keep minimum service and maintenance.
- Self-explanatory symbols for all functions and displays, easy to learn and operate.
- LCD screen can display date such as sample travel, thickness, function controlling, day, time, temperature, timed on/off and so on.
- Standby mode, after initializing, the temperature in cryostat chamber can be controlled between -4 C and -9 C by computer automatically; when stop initializing, the temperature in freeze chamber will arrive to working temperature within 10 minutes.
- Control panel with locking function to avoid wrong operation.
- Handwheel locking.
- Sensor self-diagnosis function.
- Wide freezing shelf may put 10 specimen cassettes.

**Tissue Processor**

**KD-TS6A Automatic Tissue Processor**

- Tissue basket specification: Barrel tissue basket- ø 95x80mm. Layer nacelle- ø 95x80mm, five layers.
- Weight: < 60kg.
- External dimension: (diameter) 660 x (high) 550 x 680(Top top) mm.
- Rated voltage: 220v, 50Hz or 110V, 60Hz

**Technical specification:**
- Adopting computer to control whole work process, operate brief work stabilization.
- Having exchange jar and change place control draw perch, operate agility brief.
- If lose electric, alarm sounds to protect tissue in liquid.
- Adopting agitation dehydrate mode enhance reagent and paraffin penetration into tissues.
- Easy to use with screen display in English.
- Wide time range: delay time 59hrs59min. The longest working hours for each container is 59hr59min, Time design least interval is 1 min.
- Wax jars adopt constant temperature control system. Temperature precision high: defend pollution, defend canker.
- Adopting 9 slices 1.2L medicine aquarium, at any moment observe tissue change at work.
- According to user’s need to tailor standby electrical source, after power cut it can also work in great, working hours can reach 4-16 hours.

This processor is used to process animal and human tissues automatically. It is accurate and easy to use and maintain. It is an excellent choice for histology and pathology labs of hospitals and research institutions.

Main Technical Data

- Steps of processing tissue: 12 steps.
- Glass containers: 9 with capacity of 1.2L each.
- Wax cups: 3 with capacity of 1L each. Temperature range: 45~85C±3
- Process: Each cup working hours between 0-59hr59min. Delay process: 0-59hr59min.
- Vertically reciprocal motion of tissue basket: 3 times/min.
KD-TS6B Automatic Vacuum Tissue Processor

Price: $14,800

This processor uses Vacuum function to accelerate the speed of tissue processing for animal and human tissues automatically. It is accurate and easy to use and maintain. It is an excellent choice for histology and pathology labs of hospitals and research institutions.

Main Technical Data
- Steps of processing tissue: 12 steps.
- Glass containers: 9 with capacity of 1.2L each.
- Wax cups: 3 with capacity of 1L each.
- Temperature range: 45~85°C ±3
- Process: Each cup working hours between 0-59hr59min. Delay process: 0-59hrs59min.
- Vacuum: ≤0.053 Mpa.
- Vertically reciprocal motion of tissue basket: 3 times/minute.
- Tissue basket specification: Barrel tissue basket-￠95x80mm. Layer nacelle-￠95x80mm, five layers.
- Weight: <60kg.
- External dimension: (diameter) 660 x (high)550 x 680(Tip top) mm.
- Rated voltage: 220V, 50Hz or 110V, 60Hz

Technical specification:
- Adopting computer to control whole work process, operate brief work stabilization.
- Having exchange jar and change place control draw perch, operate agility brief.
- If lose electric, alarm sounds to protect tissue in liquid.
- Adopting agitation dehydrate mode enhance reagent and paraffin penetration into tissues.
- Easy to use with screen display in English.
- Wide time range: delay time 59hrs59min. The longest working hours for each container is 59hr59min. Time design least interval is 1 min. Each jar can be set with vacuum separately.
- Wax jars adopt constant temperature control system. Temperature precision high: defend pollution, defend canker.
- Adopting 9 slices 1.2L medicine aquarium, at any moment observe tissue change at work.
- According to user’s need to tailor standby electrical source, after power cut it can also work in great, working hours can reach 4-16 hours.

KD-TS3D1, Automatic Tissue Processor

Price: $9,800

Features:
- The cover is elegant with fluent line and it is spraying with APS engineering plastic which has high-intensity, anticorrosion function and easy to clean. With key parts imported, it runs steadily without noise and comply with theory of ergonomics
- 20 sets of programs, broad screen touch LCD, with man-machine dialogue interface, prompt identifying can be made in abnormal situation to make sure each operation can be indicated

Technical specification:
- Numbers of stations: 12 (no.10, 11 and 12 are wax dispensing cylinder)
- Volume of each station: 2 liter
- Range of temperature: ambient-80°C
- Temperature tolerance: +/-1°C
- Processing time of each station: anytime (No.1 station) 0-24 hrs (other stations)
- Time of exchange station, delay, leachate:10-60s (adjustable), and leachate, basket shaking work above cylinder
- Tissue protecting stations: No 1 - No 7 (adjustable)
- Voltage: AC220V/50Hz, AC110V/60Hz
- Power: 1000VA
- Dimension: 1135x480x490 mm
- Weight: 88kg
The intelligent design gives the ability to deal with abnormal situation automatically. The synchronous animation show the present working process clearly.

Environment-friendly inner circulated air cleaning system absorb, remove and decompose toxic and harmful gas in the instrument.

Randomly setting start-up time and automatically showing finish time, make sure task is finished in stipulated time.

10-60s adjustable time of dropping liquid, shaking basket, and drop liquid above cylinder once exchange cylinder to avoid liquid mix from one bath to another. In this way, service time of reagent can be prolonged, avoid dirty on the table.

0-6 times/min adjustable stirring times (0 shows no-stirring), make sure all tissues immersed thorough, evenly and completed enough.

Once power-off, protecting station No. 1-7 can be set, position of protecting station can be adjusted as required.

Self-control fan, it automatically starts up once basket goes up; as basket goes downwards, fan works 10s per min.

Self-control illuminating lamp, it starts up in programming; touch any key to prolong to 2 min as the instrument is running.

Waterless inner heating, high precision of controlling.

Low energy-consuming control circuit, self-protection once power-off; display panel is still illumed and scrolling panel indicates it's self-protection situation as power-off, and time of running is more than 30 hrs.

It can manually add the tissue during the auto running mode. Customer can check and add the tissue conveniently during operation process.

More than 150 tissues can be processed at a time.

**KD-TS3D, Automatic Tissue Processor**

Price: $8,600

**Features:**

- The cover is elegant with fluent line and it is spraying with APS engineering plastic which has high-intensity, anticorrosion function and easy to clean.
- Adopted bilingual LCD operation system, several sets control system, man-machine dialogue interface; It is environmental protection with organic glass cover, air extract system and good sealing property
- The intelligent design gives the ability to deal with abnormal situation automatically
- The roll and page down LCD indicates every working step
- Randomly setting start-up time and automatically showing finish time, make sure task is finished in stipulated time.
- 10-60s adjustable time of dropping liquid, shaking basket and drop liquid above cylinder once exchange cylinder to avoid liquid mix from one bath to another. In this way, service time of reagent can be prolonged and avoid dirty on the table.
- Environment-friendly inner circulating air cleaning system, exhaust harmful gas
- Waterless inner heating, high precision of controlling
- Low energy-consuming control circuit, self-protection once power-off; display panel is still illumed and scrolling panel indicates it's self-protection situation as power-off.
- Adopted with imported components, run smoothly, no noise, comply with theory of ergonomics
- More than 100 tissues can be processed at a time.

**Technical specification:**

- Numbers of cylinder: 12 (no.10, 11 and 12 are wax dispensing cylinder)
- Volume of each cylinder: 1.8 liter
- Processing time of each cylinder: anytime (No.1 cylinder) 0-24 hrs (other cylinders)
- Time of exchange cylinder, delay, leachate:10-60s (adjustable), and leachate, basket shaking work above cylinder
- Voltage: AC220V 50Hz, AC110V 60Hz
- Power: 1000VA
- Dimension: 1135x480x490 mm
- Weight: 88kg

**Features:**

- Environment-friendly inner circulating air cleaning system, exhaust harmful gas
- Waterless inner heating, high precision of controlling
- Low energy-consuming control circuit, self-protection once power-off; display panel is still illumed and scrolling panel indicates it's self-protection situation as power-off.
- Adopted with imported components, run smoothly, no noise, comply with theory of ergonomics
- More than 150 tissues can be processed at a time.
- 0–6 times/min adjustable stirring times (0 shows no-stirring), make sure all tissues immersed thoroughly, evenly and completed enough.
- Illuminating lamp and exhaust fan are intelligent control, the lamp only works for 3 min when the instrument is at working situation except from reset, upward keys; fan only works once cylinder goes upwards or making programming, its working time is 10s per min.

**KD-TS3S, Automatic Tissue Processor (Double Tissue Basket)**

**Price:** $11,900

**Features:**

- KD-TS3S has fluent & elegant appearance, easy to clean since it is coated with APS engineering plastic with high intensity, anti-corrosion.
- Flexible transmission mechanism makes it no abrasive, no noise. Precise positioning system ensure the stable processing.
- **Double organization operating mode can double the processing capability.** The tissue can put on different basket according to its size to get better effect. If there is little tissue, you can also use one operating mode for easy operation.
- 20 sets programmed for A&B procedures, broad screen finger-touched LCD with man-machine dialogue, prompt identifying can be made in abnormal situation to make sure each operation can be indicated.
- LCD indicate running situation, adopted with imitated sync graphic display to make operation process perfect.
- Environment-friendly inner circulated air cleaning system, adsorb, remove, decompose toxic and harmful gas in the instrument.
- Setting timing of starting up machine during 0–99 hrs 59 minutes and automatically showing finish time, make sue task is finished in stipulated time.
- 10–60s adjustable time of dropping liquid, shaking basket and drop liquid above cylinder once exchange cylinder to avoid liquid run from one bath to another, in this way, service time of liquid medicine, avoid dirty on the table.
- 0–6 times/min adjustable stirring times (0 shows no-stirring), make sure all tissues immersed.

**Technical specification:**

- Numbers of cylinder: 14 (10 reagent cylinders, No.11, 12, 13, 14 are wax dispensing cylinders)
- Volume of each cylinder: 1.5 Liter
- Range of temperature: ambient-80°C
- Precision tolerance: +/-1%
- Processing time of each cylinder: 0–99 hrs (No.1 and No.2 cylinders), 0–24 hrs (No.3–No.14 cylinders)
- Time of exchange cylinder, delay, leachate: 10–60s (adjustable), and leachate, basket shaking work above cylinder.
- Times of basket shaking: 0–6 times/min (adjustable).
- Protecting station of tissue: No.7 for A program, No.5 for B program.
- Voltage: AC220V/50Hz, AC110V/60Hz
- Power: 550VA
- Dimension: 1250x430x490 mm
- weight: 85kg

**Features:**

- Once power-off, protecting cylinder of tissue: No.7 for A program, No.5 for B program can be set, position of protecting cylinder can be adjusted as required.
- Self-control fan, it automatically starts up once basket goes up as basket goes downwards, fan works 10s per min.
- Self-control illuminating lamp, it starts up in programming; touch any key to prolong to 2 min as the instrument is running.
- Waterless inner heating, high precision of controlling with triple protection. Automatic gradient temperature control system. Starting heating automatically when need which save energy.
- Low energy-consuming control circuit, self-protection once power-off; display panel is still.
thorough, evenly and completed enough

illumed and scrolling panel indicates it’s self-protecting situation as power-off, and time of running is more than 30 hrs

- After running, randomly hand-control can be made to check or add other tissues
- More than 200 tissues can be processed at a time

**KD-TS3A Tissue Processor**

- Price: $7,800

It is a close tissue processor that is the perfect combination of proven technology and a modern, functionally enhanced design. Gentle specimen processing and maximum safety at all stages of processing are the result of robust engineering design based on proven and precise mechanics in conjunction with a friendly user interface.

**Parameter:**

- Electrical: Working voltage: 110/220 VAC, frequency: 50/60Hz
- Power: 800 W
- Overall dimensions: 1000x420x450 mm (LxWxD)
- Dry weight: 80 kg
- Wax baths: Number: 3
- Capacity: 1.0 L
- Temperature range: ambient temperature to 99°C
- Temperature tolerance: + 1°C
- Reagent containers: Number 9
- Capacity: 1.0 L

**Technical specifications:**

- Tissue baskets made of metal with varying capacities of up to 80 cassettes.
- Ergonomic control panel with LCD.
- Delayed start function up to 99 hours.
- Infiltration time separately programmable for each station.
- Possibility of interrupting an automatic process for reloading or removing cassettes for special applications before the end of a run.
- Easy editing and changing of programs, even during a processing run.
- Audible alarms, advanced safety concept.
- Glass encloser.

**Features:**

- Re-circulated atmosphere depurative system that absorbing unhealthy volatilization gas.
- Anhydrous heating element.
- UPS build-up, power backup.
- Noiseless.
KD-TS1A Tissue Processor (Small Type)  Price: $6,800

Features:

- APS engineering plastics, high intensity, anti-corrosion, streamline design, elegant appearance, save reagent, low cost, economical and work well.
- Body of this machine is small, convenient to operate, it adopts monolithic computer controlling technics, complete function, body made of organic glass, function of gas exhausting, good sealability, environment-friendly and safe.
- With a capacity of at least 40 pcs tissue can be processed one time.
- Work continue in case of instant power failure or switch off once machine is working.
- No-water internal heating system, high precision of temperature controlling.
- Two dimension soft driving systems, low noise, resistant to wear.
- High precision photoelectric register control system, stable performance, high precision positioning.
- Intelligent design, instant identification in case of problems. Memory function in built-in procedure.

Technical Specifications:

- Number of stations: 12 (9 reagent stations, 3 paraffin stations)
- Volume of station: 700 ml
- Time setting: 0～99 hours (No. 1 station)
  0～24 hours (other stations)
- Temperature pre-setting range: ambient ～ 99 degrees
- Leach liquor time: approx. 30 seconds
- Tissue protecting station: No.7 station
- Working voltage: AC 220V, 50Hz / 110V, 60Hz
- Power draw: 500 VA
- Heating control: heating start when basket goes into No.2 station, energy-saving
- Dimension: 1000x450x420 mm
- Net weight: 75kg

KD-SK1 Ultrasound Quick Tissue Processor  Price: $4,600

The adjustable ultrasonic power makes it convenient for tissue treatment of different sizes. The working slot is designed with drainage.

Features:

- Ambient temperature: 5 - 40°C
- Relative humidity: ≤80%
- Power: AC 220V±22V, 50Hz±1Hz
- Preheating time: 20min
- Temperature control range: adjustable gradually between 40°C and 100°C, the displayed error ≤±2°C
- Temperature regulating precision: ≤±5°C
- Regulating time range: adjustable gradually between 1 min and 99 min, the displayed error ≤±2s
- Nominal ultrasonic frequency: 1MHz

This KD-SK biological tissue swift processor (ultrasonic handling) is with ultrasonic shaking and precise temperature control functions to make the general tissue handling swifter and perfect. The effect is almost the same to the routine handling of biological tissues. The extensive application of the last-to-30 min transmitted report is for your reference. The design of one-way temperature conduction, dual time display and touched key make the operation handy. The microcomputer chip with value memory makes the operation easy and convenient.
KD-T Tissue Roasting Processor  

![KD-T Tissue Roasting Processor](image1)

**Price:** $1,380

**Features:**
- Adopted with ATME microprocessor technique, Heat conduction fast, durable.
- Dual-purpose of spread & roasting, compact design, stability performance.
- Display presetting temperature & current temperature.
- Corrosion-resistance of the bath.
- General used for pathological research in hospital, medical college, sanitation division etc.

**Parameter:**
- Range of spreading temperature of water: ambient to 90°C (constant adjusting).
- Range of roasting temperature: ambient to 90°C (constant adjusting).
- Self memory of presetting temperature.
- Allowance ambient temperature: 0 - 40°C.
- Working voltage: 220 V /50 Hz. 6.
- Power: < 500 W.
- Dimensions overall: 550x400x120 mm (WxDxH)
- Weight: 13 kg.

Tissue Slide Stainer

**KD-RS Slide Stainer**  

![KD-RS Slide Stainer](image2)

**Price:** $8,600

**Tissue Slide Stainer is essential in doing the pathological research and this instrument is designed for saving the fussy process of manual tissue slide staining.**

**Features:**
- High-definition & sensitive of touch LCD
- Unique design for staining process
- Flexible transmission, noiseless.
- Intellectualized infall, outfall & drainage system.
- Special staining shelf loading with decades of slides
- Streaming water cleaning & tissue roasting function.

**Technical specifications:**
- Reagent containers: 12.
- One cleaning bath (the 9th one).
- One roasting bath (the 1st one).
- Processing time of each container: 1 s – 59 min and 59 s.
- Working voltage: 110/220 VAC, frequency: 50/60Hz, Power: 1000 W.
- Overall dimensions: 1130 x 460 x 400 mm (LxWxD), weight: 85 kg.
**KD-RS1 Slide Stainer**

- **Price:** $9,600

**Features:**
- High-definition & sensitive of touch LCD, effective, convenient
- Broad screen touch LCD with man-machine dialogue interface, prompt identifying can be made in abnormal situation to make sure each operation can be indicated (online help), synchronous animation show the present working process clearly
- Randomly setting start-up time and automatically showing finish time, make sure task is finished in stipulated time
- There is four sets program and can check online
- Intellectualized infall, outfall & drainage system make sure the water is clean for every step
- 36 immersion steps can be set, mistake alarm function
- Environment-friendly inner circulating air cleaning system, exaust harmful gas
- 18 stations, the 10th station is cleaning, the first station is roasting station
- 0-30s adjustable shaking, leachate time reduce the reagent mix chance thus prolong reagent use time and make the working surface clear

**Technical specifications:**
- Total stations: 18 (cleaning bath, the 10th, roasting bath, the 1st)
- Capacity of stations: 100x180x40mm
- Specimen process: 52 pc
- Processing time of each stations: 0s 59 min and 59 s
- Leachate time on tank shafting: 0-30S adjustable (shaking above the station)
- Working voltage: AC220V/50Hz, AC110V/60Hz
- Power Draw: 500VA
- Overall dimensions: 1170 x 450 x 4070 mm (L x W x D)
- Weight: 88kg

---

**Tissue Embedding System**

**KD-BM-II Tissue Embedding System**

- **Price:** $3,200

**Paraffin Dispenser:** Stainless steel paraffin large tank of 5 liters capacity. The sensor allows to supply paraffin without any mechanism (and without maintenance). Halogen lamp to light up the working area. Cooled spot for a quick cooling of specimens. Wide aluminum hot plate, with 6 holes for forceps. Heated basin to collect the excess of paraffin. Possibility to apply heated forceps directly to the Dispenser Unit.

**Thermal Unit:** Stainless steel Upper chamber for paraffin moulds and Lower basin for liquid paraffin (to store samples from tissue processor) are heated and regulated separately. The stainless steel basin is removable in order to facilitate cleaning operations.

**Technical features:**
- Dimensions overall: 550x500x360 mm (WxDxH)
cloud be run and checked separately. The heating function is controlled by accurate digital thermostat (heating up + 70°C). Marble working platform is easy to clean up.

- Weight: 28 kg.
- Working Voltage: 220 V / 50 Hz (110V, 60Hz, optional).
- Power: 800 watt.

**KD-BL Cryo Plate**

[Image of KD-BL Cryo Plate]

Technical specifications:

- Setting temperature: +50 C ~ -35 C
- Protection requirement of time delay
- Area of cryo-plate: 320x300 mm
- Voltage: AC220V 50Hz or AC110V 60Hz
- Power: 100VA
- Dimension: 652x380x425 mm
- Weight: 20 kg

KD-BL Cryo-plate adopted with new-type inverter compressor which makes tissue paraffin cooled quickly. Teflon plating ensure easy cleaning. Cooling temperature can be adjusted freely. Temperature is set properly to avoid tissue wax from not cooling enough or frost splitting. KD-BL Cryo-plate can be used separately.

**KD-BM-II & BL Tissue Embedding & Cooling System**

[Image of KD-BM-II & BL Tissue Embedding & Cooling System]

The paraffin Embedding System allows a convenient, quick and careful paraffin embedding of tissue specimens. The modular structure and the standard height of the working area permit to combine the three modules of the embedding Station so as to meet the needs of the user. All function cloud be run and checked separately. Each heating and cooling functions are controlled by accurate digital thermostats (heating up + 70 °C, cooling down to -20 °C). Marble working platform is easy to clean up.

- Dimensions overall: 900x500x360 mm (WxDxH)
- Weight: 53 kg
- Working Voltage: 220 V / 50 Hz (110V, 60Hz, optional).
- Power: < 1000 watt.

Thermal Unit: Stainless steel Upper chamber for paraffin moulds and Lower basin for liquid paraffin (to store samples from tissue processor) are heated and regulated separately. The stainless steel basin is removable in order to facilitate cleaning operations.

Cooling Plate: The cooling plate can be used for embedding and also during microtome cutting operation. The cooling plate has a new frame all around the stainless steel surface which improves cooling performances and prevents the dropping of water around the instrument.

Order: sales@ihcworld.com Tel: 443-686-9618 Fax: 443-638-0394 Web: www.ihcworld.com
KD-BM III Tissue Embedding Center

Price: $3,600

Features:
- automatic controlling procedure, time of power on/off can be reset in any time of each day of a week.
- adopted with new-type silastic heating element, heated quickly and evenly, and energy-saving.
- American DALLAS temperature-measuring chip, high precision, stable performance, display as icon in the state of working.
- paraffin tank, dispenser nozzle, left preservation box, right preservation box, embedding workstation can be separately controlled, work independently. Five different modes of controlling temperature and multiply over-heating protection, safe, reliable, and energy-saving.
- automatic memorization, and self-recovery, reserving resetting temperature when starting up.
- small cooling plate makes embedding medium solidified quickly.
- high capacity (5 liters) wax dispenser.
- low-voltage lighting system, safe and reliable; 2 modes of switch: manual control and foot-drive.
- heating of workstation and table storing forceps ease for tissue embedding.
- workstation, forceps table can be heated, easy for embedding.
- high-precision time indication, easy to reset technical parameters.
- adopted int’l advanced heating theory.
- volume of paraffin dispenser : 5 liters.
- range of temperature-control of forceps table: ambient~99 C.
- range of temperature in paraffin dispenser: ambient~99 C.
- temperature range in storing box: ambient-99 C.
- temperature range at workstation: ambient-99 C.
- precision error : ±1%.
- mode of wax-flow: automatic soft-touching switch on/off, foot-operated control.
- time reset: time of power on/off can be set freely in a week.
- voltage: AC220V 50Hz or AC110V 60Hz.
- power: 800VA (KD-BM III).
- dimension: 650×580×450mm(KD-BM III).
- Weight: 29kg(KD-BM III).

KD-BL III Cooling Plate

Price: $2,800

Technical specifications:
- Setting temperature: +50 C ~ - 35 C
- Protection requirement of time delay
- Area of cryo-plate: 330x322mm
- Voltage: AC220V 50Hz or AC110V 60Hz
- Power: 100VA
- Dimension: 652x380x425 mm
- Weight: 20 kg

KD-BL III Cryo-plate adopted with new-type inverter compressor which makes tissue paraffin cooled quickly. Teflon plating ensure easy cleaning. Cooling temperature can be adjusted freely. Temperature is set properly to avoid tissue wax from not cooling enough or frost splitting. KD-BL III Cryo-plate can be used separately.
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- automatic memorization, and self-recovery, reserving resetting temperature when starting up.
- embedding center, cooling system, and heating table can be combined randomly.
- cooling system adopted with new-type inverter compressor, cooling temperature can be adjusted freely.
- range of temperature in paraffin dispenser: ambient ~ 99°C.
- range of temperature in storing box: ambient ~ 99°C.
- range of temperature at workstation: ambient ~ 99°C.
- precision error: ±1%
- mode of wax-flow: automatic soft-touching switch on/off, foot-operated control.
- time reset: time of power on/off can be set freely in a week.
- temperature of cryo-plate: ambient ≤ -20°C, protection requirement of time delay.
- dimension of cryo-plate: 330x322mm.
- voltage: AC220V 50Hz or AC110V 60Hz.
- power: 800VA (KD-BM III), 100VA (KD-BL III).
- dimension: 650×580×450mm (KD-BM III) 652×380×425mm (KD-BL III).
- weight: 29kg (KD-BM III), 20kg (KD-BL III).

**Tissue Floating Bath and Slide Warmer**

**KD-P Tissue Spread Processor/Water Bath**

- Display presetting temperature & current temperature.
- Corrosion-resistance of the bath.

**Parameter:**
- Range of setting temperature: ambient to 90°C (constant adjusting).
- Temperature precise error: ± 1°C.
- Allowance ambient temperature: 0-40°C.
- Working voltage: 220 V/50 Hz or 110V/60Hz
- Power: 200 W.
- Dimensions overall: 340x340x120 mm (WxDxH)
- Weight: 6 kg.

**Features:**
- Heat fast, durable.
- Self memory of temperature.

**Tissue Floating Bath**

**Price: $198**

**Model Number:** XH-1001

**Round Basin**

**Detailed Description:**

Low profile 2.3 liter black, finished interior chamber reduces glare, thus improving visibility of the tissue specimen. Glazed glass lid for easy viewing of interior. Top ledge allows space for preheating or for evaporating away any remaining water on the glass slides. Durable fiberglass insulated body prevents heat loss and fluctuations in temperature for uniform surface heating. Non-stick coated chamber & detachable power cord for easy cleaning.
Lighted Tissue Floating Bath

**Price:** $598

**Model Number:** XH-1003

**LED Lighted Rectangular Basin**

**Detailed description:**

Low profile design with **removable rectangular glass basin**, illuminated with LED light from the side. Easy to read LED display shows both set temperature and actual temperature.

- Overall size: 14” x 14” x 4.5”
- Interior size: 10” x 6.5” x 2”
- Temperature Range: room temp to 75°C +/- 1°C
- Voltage: 110V, 60Hz

**Shipping Weight:** 22 lbs.

---

KD-H Tissue Baking Processor/Slide Warmer

**Price:** $498

**Model Number:** XH-2002

**10” x 7” (26cm x 18cm) Surface**

**Features:**

- Heat fast, durable.
- Self memory of temperature.

**Display presetting temperature & current temperature.**

**Corrosion-resistance of the bath.**

**Parameter:**

- Range of setting temperature: ambient to 90°C (constant adjusting).
- Temperature precise error: + 1°C.
- Allowance ambient temperature: 0-40°C.
- Working voltage: 220 V /50 Hz or 110V/60Hz
- Power: 200 W.
- Dimensions overall: 340x340x120 mm (WxDxH)
- Weight: 6 kg.

---

Slide Warmer 10”x7”

**Price:** $298

**Model Number:** XH-2002

**10” x 7” (26cm x 18cm) Surface**

**Detailed Description:**

Ideal for use in the fields of cytology, histology, pathology, and biology for paraffin tissue section mounting. Thermal heater ensures even heat transfer. Anodized black surface provides contrast. LED temperature display.

- Size: 10” x 7”
- Thermostat Setting: room temperature to 70°C
- Voltage: 110V, 60Hz

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Order: sales@ihcworld.com Tel: 443-686-9618 Fax: 443-638-0394 Web: www.ihcworld.com
Slide Warmer 25" x 8"

**Detailed Description:**

Ideal for use in the fields of cytology, histology, pathology, and biology for paraffin tissue section mounting. Thermal heater ensures even heat transfer. Anodized black surface provides contrast. LED temperature display.

- Model Number: XH-2001
- Size: 25" x 8"
- Thermostat Setting: room temperature to 70°C
- Voltage: 110V, 60Hz

**Price:** $358

---

Step Up Slide Warmer 14" x 14" x 4"

**Detailed Description:**

Our Step Up™ Slide Warmer’s unique parent pending design helps you save space while still meeting a busy lab’s needs. The Step Up™ holds twice as many slides as a flat unit of the same size and also makes retrieving your slides easier since the end of the slide is not on the flat surface. Anodized black surface provides contrast with samples. Removable tray for easy cleaning. Digital LED temperature display and temperature setting.

- Model Number: XH-2003
- Capacity: 40 3"x1" slides
- Temperature Range: Room Temperature to 70
- Power Adjustments: 300 (110V, 60Hz)
- Overall Size: 14" x 14" x 4"H
- Shipping Weight: 22 lbs.

**Price:** $498

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Paraffin Dispenser and Wax Trimmer

**Paraffin Dispenser**

**Detailed Description:**

Large capacity (2.3 gallon) tabletop style dispenser. Industrial metal outer shell with durable stainless steel, easy to clean interior. Built in temperature controller and heated faucet to keep paraffin flowing. New lid with hole for thermometer!

- Temperature maximum: 72 degrees (tolerance +/- 2 degrees)
- Shipping weight: 46 lbs.

- Model Number: XH-4002
- Large capacity (2.3 gallon) tabletop paraffin dispenser

**Price:** $780
Paraffin Wax Trimmer

**Model Number:** XH-90

**Wax Trimmer**

**Price:** $398

**Detailed Description:**

For removing excess paraffin from embedding tissue cassette. Compact tabletop design fits easily in any lab. The melted paraffin is shaved away and drains down into the included removable tray below. Collection tray stays in place by magnetic contact with unit. Our convenient PE disposable tray liner allows easy disposal of the runoff wax. No need to scrape out the collection tray! Low & High temperature settings range from approx. 80F to 90F. 5 pcs of the disposable tray liner included.

Additional tray liners sold separately: #XH-90L 50pcs/pk.

---

**Slide Cabinet and Paraffin Block Cabinet**

**KD-101 Slide Cabinet (KD-101-1 Slide Cabinet with Lock)**

**Price:** $1,800

The base use Cold-rolled steel plate SPCC1.2 from Baosteel; the cabinet use Cold-rolled steel plate 0.8; the drawer use Cold-rolled steel plate 0.8.

The biomedical slide cabinet divides into 6 grids and 12 layers with total of 72 cells, loading more than 60,000 pcs of regular sized microscope slides.

**Size:** H1620 x W403 x D478 mm

**Weight:** 113 kgs

Specialized slide drawer, ABS slide plate, inner anti-skip lock. Handle use ABS Chromium plating and it divides into six grids each drawer and convenient for storage.

Surface treatment: Defatted oil, Table regulator, Zinc phosphating, passivation, Powder spraying.

Slot: The slot is made by special mold.

Mark groove: Integration forming. The unique drawer lock have declared national patent.
KD-102 Paraffin Block Cabinet (KD-102-1 Paraffin Block Cabinet with Lock)  Price: $1,800

The base use Cold-rolled steel plate SPCC1.2 from Baosteel; the cabinet use Cold-rolled steel plate 0.8; the drawer use Cold-rolled steel plate 0.8.

The biomedical paraffin block cabinet has three independent cabinet, each cabinet has six drawers, totally 18 drawers. Paraffin wax block can be put freely with its size. It can store totally around 11,000 blocks.

Size: H1295 x W450 x D478 mm

Weight: 80 kgs

Specialized slide drawer, ABS slide plate.

Surface treatment: Defatted oil, Table regulator, Zinc phosphating, passivation, Powder spraying.

Slot: The slot is made by special mold.

Mark groove: Integration forming.
KD-103 Slide Cabinet  | Price: $1,800
---|---
The base use Cold-rolled steel plate SPCC1.2 from Baosteel; the cabinet use Cold-rolled steel plate 0.8; the drawer use Cold-rolled steel plate 0.8.

The biomedical slide cabinet has three independent cabinet, each cabinet has six drawers with inner digital tags for easy storage. It can store totally around 9,000 pcs of regular sized microscope slides.

Size: H1295 x W450 x D478 mm.

Weight: 80 kgs

Specialized slide drawer, ABS slide plate.

Surface treatment: Defatted oil, Table regulator, Zinc phosphating, passivation, Powder spraying.

Slot: The slot is made by special mold.

Mark groove: Integration forming.

KD-103-1 Slide Cabinet  | Price: $1,600
---|---
The base use Cold-rolled steel plate SPCC1.2 from Baosteel; the cabinet use Cold-rolled steel plate 0.8; the drawer use Cold-rolled steel plate 0.8. The biomedical slide cabinet has 4 independent cabinets, each of them can hold 24 Slide Trays and each tray can hold 20 slides. Total capacity of the cabinet is 1,920 slides

Size: H1210 x W450 x D315 mm.

Weight: 35 kgs

Surface treatment: Defatted oil, Table regulator, Zinc phosphating, passivation, Powder spraying.

Slot: The slot is made by special mold. Mark groove: Integration forming.

Slide Tray size: 30 x 19.7cm will fit this cabinet. Slide Trays are not included.
Price for Slide Tray: $8.50 each

Accessories

Order: sales@ihcworld.com Tel: 443-686-9618 Fax: 443-638-0394 Web: www.ihcworld.com
### Specimen Clamp/Specimen Holder

<table>
<thead>
<tr>
<th>Price</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>680 each</td>
<td>KD-18 Silver</td>
</tr>
<tr>
<td></td>
<td>KD-19 Silver</td>
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### Microtome Blade Holder

<table>
<thead>
<tr>
<th>Price</th>
<th>Item</th>
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</thead>
<tbody>
<tr>
<td>680 each</td>
<td>KD-16A for Low Profile Blades</td>
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<tr>
<td></td>
<td>KD-16B for Low Profile Blades</td>
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<tr>
<td></td>
<td>16C Low &amp; High Profile Blades</td>
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<tr>
<td></td>
<td>KD-E3 Blade Holder</td>
</tr>
<tr>
<td></td>
<td>KD-E2 Blade Holder</td>
</tr>
<tr>
<td></td>
<td>KD-N1 Blade Holder</td>
</tr>
</tbody>
</table>
HESTION Brand Histology Equipment

**Quality:** Every product is put through vigorous tests before shipment to ensure performance as well as durability. We feel quality control is a very crucial part of a product’s life span. Our products have been thoroughly tested over a wide range of operating conditions. **Shipping:** We try to ship all orders within 8 business days. Customers can request dispatch by Sea freight, Air freight or by UPS, Fedex, DHL, TNT. **Warranty:** In order to ensure our product quality and reliability as well as to give the best service to every customer, all Hestion Histology products offered include warranty supported by our individual distributors with factory backup.

**QC:** QC department checks all Components and Finished products, to ensure 100% quality certified products for every customer. **R&D:** Experienced engineers and a powerful technical team to ensure state-of-the-art machines for our users and compliance with customer requirements.

**Microtome**

**ERM-4000 Fully Automatic Microtome**

<table>
<thead>
<tr>
<th>Price: $12,800</th>
</tr>
</thead>
</table>

- It is a motorized rotary microtome. The stepper motor operated the specimen movement forward and back, coarse feed and sectioning in manual operation. It is better in precision sectioning, easy operation.

**Characteristics**

- The crust is made in ABS plastic with fire prevention function, and streamlined designed in artistic appearance.
- Spacious ingenious assembly section waste tray
- Retraction function make it is better to sectioning. The retraction value can be set.
- Universal and fast specimen holders fit to internal Embedding cassette.
- Locking may be activated at any position by handwheel. It ensure cassette changing safety when the cassette located in the toppest locked.
- The electric coarse feed operates two speeds which is easy to record the feed.
- Separate control panel is more easy to operate.
- Three motorized sectioning modes (Cont, Single and Step) are available, user can choose at will.
- Automatic memorized coarse feed and reload fast can improve efficiency during sectioning.
- Emergency-stop function for safety work.
### ERM-3100 Semi-Automatic Microtome

**Price:** $11,800

**Characteristics**
- Display monitor a range of functions including Section thickness, trimming, section counter etc.
- Separate control panel is easy to operate.
- Spacious magnetized section waste tray.
- Light Balance handwheel with ergonomic concept design.
- Specimen Clamp with adjustable function could easily parallel the block and knife on on X-Y orientation.
- Retraction function effective avoid the specimen come against blade during specimen turn around.
- Universal specimen holder fit to internal standard cassette.
- Locking may be activated at any position by handwheel to protect blade or cassette changing safety.
- Automatic specimen feed memory function improves the trimming speed and quality.

**Technical parameter:**
- Section thickness range: 0.5 — 600μm
  - 0.5μm-2μm in 0.5μm increments
  - 2μm-10μm in 1μm increments
  - 10μm-20μm in 2μm increments
  - 20μm-100μm in 5μm increments
  - 100μm-600μm in 50μm increments
- Trimming thickness: 0.5 to 600μm
- Retraction thickness: 20μm
- Specimen horizontal feed: 20mm
- Specimen vertical feed: 70mm
- Maximum specimen: 40x50mm
- Specimen holder adjusted system:
  - Horizontal orientation: +/-8°
  - Vertical orientation: +/-8°
- Repositioning of knife holder base (east-west): 50mm
- Cutting speed: 300μm/s and 900μm/s
- Dimension: Length: 520mm
- Width: 410mm (without handwheel, 320mm)
- Height: 300mm
- Weight: 42kg

### ERM-3000 Semi-Automatic Microtome with Build in Control Panel

**Price:** $9,800

**Characteristics**
- Display monitor a range of functions including Section thickness, trimming, section counter etc.
- Spacious magnetized section waste tray.
- Light Balance handwheel with ergonomic concept design.

**Technical parameter:**
- Section thickness range: 0.5 — 600μm
  - 0.5μm-2μm in 0.5μm increments
  - 2μm-10μm in 1μm increments
  - 10μm-20μm in 2μm increments
  - 20μm-100μm in 5μm increments
  - 100μm-600μm in 50μm increments
- Trimming thickness: 0.5 to 600μm
- Retraction thickness: 20μm
- Specimen horizontal feed: 20mm
- Specimen vertical feed: 70mm
- Maximum specimen: 40x50mm
- Specimen holder adjusted system:
  - Horizontal orientation: +/-8°
  - Vertical orientation: +/-8°
- Repositioning of knife holder base (east-west): 50mm
- Cutting speed: 300μm/s and 900μm/s
- Dimension: Length: 520mm
Specimen Clamp with adjustable function could easily parallel the block and knife on X-Y orientation.
- Retraction function effective avoid the specimen come against blade during specimen turn around.
- Universal specimen holder fit to internal standard cassette.
- Locking may be activated at any position by handwheel to protect blade or cassette changing safety.

Width: 410mm (without handwheel, 320mm)
- Height: 300mm
- Weight: 42kg

Cryostat

CM-2850 Cryostat Microtome

Price: $17,900

CM-2850 Freezing Microtome is the equipment designed for pathological section analysis of human, animal and plant tissue used for sectioning refrigerant samples and making thin sections of samples. It is widely employed and applied in hospitals, medical colleges, and scientific research institutes of legal medical experts, animal and plant studies for pathological diagnosis, analysis and research, etc.

- Section thickness range: 0~60μm adjustable.
- When the thickness of section is between 1-30μm, the step value is 1μm; when thickness is between 35-60μm, the step values is 5μm. The thickness difference is +/-20%.
- Temperature of freezing box: -15 C ~ -24 C adjustable.
- Front to back movement of the sample arm: 10mm; top to bottom movement of the sample arm: 45mm.
- Power supply: AC 220V +/-10%; 50Hz +/-1Hz or AC 110V +/-10%; 60Hz +/-1Hz.
- Input power: 850VA.
- Dimension: 660 x 40 x 1130 mm
- Machine weight: 110kg
- Working noise: 65dB (A)

The equipment contains the following main components:

- A part of the panels are under computer control; temperature is shown; a part of the working conditions are shown
- The middle part is the low-temperature freezing box for quick freezing of biopsy tissue and section cutting operations.
- The lower part is the compressor unit for refrigeration.
- The back middle part is for mechanical drive and motor drive.
The model tissue Processor is an apparatus used for routine processing of animal, plant and human body tissue. It can be widely used in such institutions as hospitals, scientific research institutes, universities and judicial departments for clinical pathologic analysis and research on animal and plant cells.

**Characteristics**

- **It has two hanging baskets.**
- One program of standard steps be fixed in the machine for user easily to operation directly.
- The processor uses CPU microcomputer control system.
- External UPS device for user choose to use which protect the running in order when power outage and balance the electrical current.
- Simple control panel is easy to program and operate.
- Safe tank and delay time function to help customer using with no worry.

**Technical Parameter:**

- Quantity of hanging basket: 2 (each basket can hold 72 standard embedding cassettes with total capacity of 144 cassettes).
- Quantity and capacity of liquid tank: 14(each basket can hold 72 standard embedding cassettes with total capacity of 144 cassettes).
- Retention period in each tank: 1 minute~23 hours and 59 minutes (it can be set at will but the time period for second running basket should not catch up the first running basket during the program is enforced).
- Heating: press key <run>, heating begins automatically.
- Temperature setting range for paraffin station: 55 C~ 70 C.
- Retention period after leaving the tank: 30 seconds.
- The two baskets move up and down in turn every 5 minutes.
- Power supply: 220V +/-10%, 50Hz/60Hz or 110V +/-10%, 50Hz/60Hz.
- Power: 600W.
- Outside dimensions (mm): 1215 x 475 x 550.
- Weight: 105 kg.
research on animal and plant cells.

Characteristics

- **It has one hanging basket.**
- One program of standard steps be fixed in the machine for user easily to operation directly.
- The processor uses CPU microcomputer control system.
- External UPS device for user choose to use which protect the running in order when power outage and balance the electrical current.
- Simple control panel is easy to program and operate.
- Safe tank and delay time function to help customer using with no worry.

- Retention period after leaving the tank: 30 seconds.
- Power supply: 220V +/-10%, 50Hz/60Hz or 110V +/-10%, 50Hz/60Hz.
- Power: 600W.
- Outside dimensions (mm): 1215 x 475 x 550.
- Weight: 105 kg.

**Tissue Embedding System**

**TEC-2800 Tissue Embedding System**

The Embedding Centre is made up of three modules: the control module, the cold stage and the work stage. The modular design gives serviceability and reliability.

**Features:**

- Separate modules: Cold Plate, Paraffin dispenser and Thermal console
- Easy to clean
- Large well drained mould oven
- Simple and robust design
- Large display
- Large capacity paraffin reservoir
- Good ergonomic layout
- Easy-to-use controller
- Socket for heated forceps
- Auto on/off set from Monday to Sunday

**Details Description**

This model embedding center is incorporates two separate components, heated paraffin dispensing module, cold plate and thermal plate. The independent unit offers the flexibility to ensure embedding workflow in either direction to suit the user’s needs.

The embedding center is the ideal modular tissue embedding machine for the discerning customer. The mold and cassette warming trays are located at the same level and interchangable to accommodate individual workflow requirements. The model is to meet all the embedding requirements of the modern histology laboratory.
### TEC-2800M Tissue Embedding Center

**Price:** $5,800

**Characteristics**

**Working surface**
- The tissue embedding cassettes and base molds trays are removable to accommodate in embedding workflow and can be set at different temperatures.
- The heated forceps holder can be set at the preferred temperature and six holes be available.
- The ergonomic large working surface allows processing many samples at the same time.
- The setting knobs allow to adjust the precise paraffin flow.
- The large work surface allows draining of the excess paraffin into two large waste trays and allows processing many cassettes at the same time.
- It can be set heating automatically from Monday to Sunday as user requirement timing.
- The display panel allows convenience, quick operation.
- New functions: The time of Switch off automatically can be set as user need.

The heated paraffin dispensing module for 4L liquid paraffin reservoir with a spacious heated working surface and storage capabilities for both cassettes and molds. Uniquely designed with microprocessor temperature sensors, each single console which maximizes space utilization, multifunctional work stations. The entire unit is encased in a durable housing.

**Cold Spot**
- The cold spot peltier is designed to orient even small and big cassettes.
- The temperature range is from room temp. to -5 C.
- It is convenience.

**Technical parameter:**
- Nominal supply voltage: 220V/50Hz or 110V/60Hz
- Maximum power draw: 1000VA
- Capacity: Paraffin reservoir: 4 Liter, Cassettes/molds tray: 1.4 Liter.
- Dimensions: Width: 560mm, Depth: 640mm, Height: 400mm.
- Net Weight: 26kg

### TEC-2800C Cold Plate/Cryo Console

**Price:** $2,600

**Characteristics**

**Working Surface**
- It can be placed 60 cassettes.
- Compressor cooled work surface offers cooling soonest.

The Cryo console is composed of a compressor cooled work surface held to chill the paraffin blocks rapidly. In combination with the heated embedding center ZMN 7803 and also can be used as a stand alone unit near microtome station. It is the best suits the laboratory.

**Technical Parameter:**
- Nominal supply voltage: 220V/50Hz or 110V/60Hz
- Maximum power draw: 1000VA
- Working temperature: from ambient to -15 C increments 1 C.
- Dimensions: Width: 340mm, Depth: 540mm, Height: 390mm
- Weight: 24kg
• Stand alone unit near microtome/embedding unit.
• It may be placed randomly up to user operating habit.
• New Improved: Used New design to ensure the best stability cooling performance.

**TEC-2800T Thermal Console**  
Price: $1,980

Thermal Console holds processed tissue specimens, in any type of cassettes, awaiting paraffin embedment. Stores and warms specimens in a large paraffin tank.

**Technical Parameter:**

- Nominal supply voltage: 220V/50Hz or 110V/60Hz
- Maximum power draw: 400VA
- Working temperature: from ambient to 75°C increments 1°C.
- Capacity: Paraffin tray: 2.5 Liter
- Dimensions: Width: 300mm, Depth: 540mm, Height: 390mm
- Weight: 7.5 kg

**Characteristics**

**Working Surface**

- It is removable in order to facilitate cleaning operations.
- Stand alone unit near microtome/embedding unit.
- It may be placed randomly up to user operating habit.

Tissue Slide Stainer

**LST-94 Automatic Tissue Slide Stainer**  
Price: $9,800

**Technical Parameter:**

- Quantity of liquid tank: 13
- Capacity of liquid tank: 1.3 Liter
- Quantity of circulating water tank: 1
- Loading capacity at a time: 94 pieces of slides
- Retention time in each tank: 1 second~99 minutes and 59 seconds (can be set as need)
- Moving up and down: stirring every 15 seconds
- Power supply: 220V +/-10% at 50Hz or 110V +/-10% at 60Hz
- Power: 120W
- Outside dimensions (mm): 1200 x 530 x 590
- Weight: 98kg

**Characteristics**

- Self-adapted cover used with the multiple gasket seal produces excellent sealing performance, which minimizes the volatilization loss of the liquid.
- The organic glass housing, sealing strips and double layer active carbon filter ensure that the air in the room is not polluted.
- The larger screen liquid crystal display enables the operator to see clearly the operation condition.
- Manual operation can be used at will during running to adjust the staining effect.
- Microtome sections are washed with circulating water to ensure clean sections without
The efficient large liquid tank can process as many as 94 microtome sections at a time.

**Immunostainer**

**MY-2300 Immuno-Histo Stainer**

Price: $38,000

- Power failure safeguard: If any power failure occurs in operation, the external UPS will provide power supply to keep the procedures running continually. The whole system will stop working if the power in UPS is exhausted. Then as soon as connected to the external power supply, the system will keep on working according to former setup.
- Great programming capacity: The stainer can program and run different procedures needed for 48 sections at the same time.
- When any operation breakdown occurs, press the red button on the display panel twice, then the equipment will stop working and restore to zero state.
- Automatic reminding of reagent shortage: the equipment can estimate automatically whether the amount of the rest reagent is enough for current procedure. If the amount is not enough, the system will remind operator by dialogue box.
- Automatic burettes cleaning: The system will automatically clean burettes each time after dropping reagent in order to avoid cross pollution.

**Technical Parameter:**

- Maximal sections done at one time: 48
- Reagent types: 64
- Minimal drop amount: 50μl
- Maximal output power: ≤350VA
- Power Supply: 220V±10V 50Hz or 110V±10V 50Hz
- Rated current: 1.6A
- Continually working for 24 hours
- Working noise: ≤60dB(A)
- Outside dimensions: 1015 x 665 x 520 mm.

**Microscope Slide and Tissue Block Cabinet**

**B101 Slide Cabinet**

Price: $1,600

Standard one set: 12 rows with 72 drawers
Size: H1620 x W403 x D478 mm
Storage: 65,000 slides
B102 Dry Slide Cabinet with Plastic Tray

Price: $1,600

The slide cabinet has 4 independent cabinets, each of them can hold 24 Slide Trays and each tray can hold 20 slides. Total capacity of the cabinet is 1,920 slides.

Size: H1210 x W450 x D315 mm.
Weight: 35 kgs

Surface treatment: Defatted oil, Table regulator, Zinc phosphating, passivation, Powder spraying. Slot: The slot is made by special mold. Mark groove: Integration forming.

B103 Paraffin Block Cabinet

Price: $1,600

Standard one set: 3 groups with 18 drawers
Size: H1295 x W450 x D478 mm
Storage: 15,000 blocks

Tissue Floating Bath and Slide Warmer

TEC-2601 Water Bath

Price: $680

The tissue bath is made of sheet aluminum and has the advantages of artistic appearance, temperature control, stable performance, program control system and easy and reliable operation. It is mainly used for flattening and drying of the microtome sections of tissues.

Characteristics
- It can be set the water temperature as user’s favor.
- Easy and reliable operation display.
- Stand alone unit near microtome.
- It may be placed randomly up to user operating habit.

Technical Parameter:
- Capacity: 1.95 Liter
- Water trough dimensions (mm): 230 x 180 x 56
- Temperature range: ambient temperature ~ 75 C.
- Temperature control accuracy: +/- 1 C
- Rated voltage: 220V +/- 10% at 50/60Hz or 110V +/- 10% at 50/60Hz
- Rated power: 350W (power of heater: 330W)
- Outside dimensions (mm): 328(W) x 300(D) x 86(H)
- Weight: 2.4 kg
TEC-2602 Slide Dryer

Price: $680

The Slide Dryer is made of sheet aluminum and has the advantages of artistic appearance, contactless temperature control, stable performance, program control system and easy and reliable operation. It is mainly used for flattening and drying of the microtome sections of tissues.

Technical Parameter:
- Table top: 324mm x 272mm
- Temperature range: ambient temperature ~75 C
- Temperature control accuracy: +/- 1
- Rated voltage: 220V +/- 10% at 50/60Hz or 110V +/- 10% at 50/60Hz
- Rated power: 350W (power of heater: 330W)
- Outside dimensions (mm): 324(W) x 300(D) x 82.5(H)
- Weight: 2.75 kg

Characteristics
- It can be set the water temperature as user’s favor.
- Easy and reliable operation display.
- Stand alone unit near microtome.
- It may be placed randomly up to user operating habit.

TEC-2500 Tissue Bath - Slide Dryer

Price: $1,380

The pathologic microtome section bath & slide dryer has the characteristics of integral design, beautiful appearance, compact structure, digitalization temperature control and stable performance. The program control system makes operation easier and more reliable. It can be widely used in such institutions as hospitals and scientific research universities.

Technical Parameter:
- Temperature range: Bath Tank: room temperature ~ 90 C, the most favorable temperature is in 45. Oven: room temperature ~ 90, the most favorable temperature is in 70 C. Warmer: room temperature ~ 90, the most favorable temperature is in 70 C.
- Rated voltage: 220V +/- 10% at 50/60Hz or 110V +/- 10% at 50/60Hz
- Rated Power: 450W
- Outside Dimensions (mm): 550 x 340 x 140
- Weight: 9 kg
YIDI Brand Histology Equipments

YIDI Medical Appliance specializes in researching, developing, producing and selling of medical pathological instruments. We always serve our customer with advanced technology, reasonable price and top quality. Our main products are various medical equipment and their accessories including microtome, cryostat, tissue processor, tissue embedding system. Our company have get the GB/T19001-200 : ISO9001-2000 certificate. Applied extensively in the units of scientific researches and their laboratories of the biomedicine, education, hygiene, epidemic prevention, public security, farming, forestry animal husbandry and veterinary science etc.

### Microtome

**YD-355AT Fully Automatic Microtome**  
**Price:** $12,800

The Fully Automatic Microtome YD-355AT provides utmost reliability, user benefit and outstanding operator comfort. Great basic stability and precision, make this microtome a real multi-purpose instrument that meets the requirements both in paraffin and hard sectioning techniques of the biological, medical and industrial lab

#### Product Specification:

- Fully automatic or manual model, its two-in-one design concept, which allows motorized and manual sectioning, provides reproducible high-quality sections.
- Adopted Germany motor drive ensure slice more precisely, more reliable and quiet.
- The LCD screen shows slice and trimming thickness, section counter, keyboard with controls for thickness, mode and speed
- Special function of specimen retraction which avoid the damage due to the attrition between sample and the back of knife so that the sectioning is more smooth and the life of the knife is longer
- Model of Blade Holder for High and low Profile Disposable Blades
- The hand wheel can be locked in any position to ensure the sectioning as safe and convenient as possible
- The waste tray can be disassembled easily
- Safety alarm system, overload protection fuction, sleep mode protection
- Universal cassette clamp and standard specimen clamp
- Emergency stop

#### Technical Data:

- **Section thickness range:** 0.5 - 100 μm

- **Setting values:**
  - From 0.5-2μm in 0.5μm -increments
  - Form 2-10μm in 1μm -increments
  - Form 10-20μm in 2μm -increments
  - Form 20-50μm in 5μm -increments
  - Form 50-100μm in 10μm increments

- **Trimming section thickness range:** 0-999μm. Setting value:
  - from 0-999μm in 1μm -increments
- **Horizontal specimen stroke:** 28 mm
- **Vertical specimen stroke:** 60mm
- **Specimen retraction:** 12um
- **Precise orientation of specimen clamp**
- **Sample orientation:** 8°along the X-Y-axis, rotatable 360°
- **Speed of fast forward and Fast backward**: 1mm/s
- **Precision error:** ± 5%
- **Maximum section size:** 50 × 45mm
- **Four speed of sectioning:** 50mm/s , 100mm/s ,140mm/s or 180mm/s
- **Voltage and power:** 220v / 50Hz or 110 v /60Hz •
- **Net weight:** 35kg
- **Dimensions incl. tray (L/T/H)**: 500mm(L)X 320mm(W) X 500mm(H)
YD-335 Semi-Automatic Microtome

Price: $7,500

Technical Data:

- Section thickness range: 0 - 100 μm

Setting values:
- Form 0-10μm in 1μm -increments
- Form 10-20μm in 2μm -increments
- Form 20-50μm in 5μm -increments
- Form 50-100μm in 10μm increments

- Trimming section thickness range: 0 - 500μm
- Horizontal specimen stroke: 28 mm
- Vertical specimen stroke: 60 mm
- Specimen retraction: 12 um
- Precision error: ± 5%
- Maximum section size: 50 x 45mm
- Dimension: 520 x 450 x 300mm
- Net weight: 30kg

Product specifications:

- Adopted Germany motor drive ensure slice more precisely, more reliable and quiet.
- The LCD screen shows slice and trimming thickness, section counter, keyboard with controls for thickness, mode and speed
- Special function of specimen retraction which avoid the damage due to the attrition between sample and the back of knife so that the sectioning is more smooth and the life of the knife is more longer
- The hand wheel can be locked in any position to ensure the sectioning as safe and convenient as possible
- The waste tray can be disassembled easily
- 3-Axis Orientation Attachment for Clamp
- Safety alarm system, overload protection fuction, sleep mode protection Universal cassette clamp and standard specimen clamp

YD-315 Rotary Microtome

Price: $5,900

Technical Data:

- Section thickness range: 0- 60um

Setting values:
- From 0-2μm in 0.5μm –increments
- Form 2-10μm in 1μm –increments
- Form 10-20μm in 2μm –increments
- Form 20-60μm in 5μm –increments

- Horizontal specimen stroke:28 mm
- Vertical specimen stroke: 60mm
- Precision error: ± 5%
- Sample orientation: 8°along the X-Y-axis, rotatable 360°
- Maximum section size: 50 x 45mm
- Dimensions incl. tray (L/T/H): 300mm (L) X 570mm (W) X 270mm (H)
- Net weight: 30kg

Product Specifications:

- High precision specimen feed
- Universal cassette clamp and standard specimen clamp
- The hand wheel can be locked in any position or highest position, The dual fail-safe control system is safe and reliable
- It adopt the special blade holder, it is more safe and convenient to use the disposable blade directly. Good durability and long service life
- Smoothly running handwheel
- Spacious, integrated section waste tray

The key components such as guide rail, screw mandrel, Ratchet rod are imported from Japan. The Rotary microtome YD-315 is ideal for most routine histology, biological and industrial needs. High precision & stability ensures exact reproducible section quality in wax and plastic embedded sections.
YD-2508 Rotary Microtome

Price: $4,800

Technical Data:
1) Section thickness range: 1-40 μm
2) Minimum setting value: 1μm
3) Precision error: ± 5%
4) Maximum section size: 60 × 40mm
5) Dimension: 400×350×350mm

Roatry microtome YD-2508 is the improved model on the basis of the YD-1508 series. The key components such as guide rail, screw mandrel, Ratchet rod are imported from Japan. The disposal blade can used directly. Perfect performance to slice hard tissue, such as plastic, fibre, bone, plant, hair. The Microtome have alarm system.

YD-1508R Rotary Microtome

Price: $3,900

Improved machine on the basis of YD-1508A(B), Adopted Precision Roller Cross Guide. Made of strength alloy steet. Perfect performance for slice soft tissue, it used particularly to slice hard tissue, such as plastic, fibre, bone, plant, hair. The ideal microtome for research institution, laboratories, and medical pathology.

Technical Data:
1) Section thickness range: 1-30 μm
2) Minimum setting value: 1μm
3) Precision error: ± 5%
4) Maximum section size: 60×30mm

YD-202A Rotary Microtome

Price: $2,200

YD-202A Rotary Microtome improved in appearance and precision on the basis of microtome model YD-202. LCD show section counting, alarm system, smooth-running hand wheel, compact, ergonomic design.

Technical Data:
- Section thickness: 1 - 25μm
- Minimum setting value: 1μm
- Maximum section size: 35 x 25mm
- Horizontal specimen stroke: 35mm
- Vertical specimen stroke: 46mm
- Dimensions: 335×350×300mm
- Net Weight: 26.5kg
YD-335 III Freezing Microtome

Price: $8,900

Technical Data:

1) Section thickness range: 1 - 100 μm

Setting values:
Form 0-10μm in 1μm -increments
Form 10-20μm in 2μm -increments
Form 20-50μm in 5μm -increments
Form 50-100μm in 10μm increments

2) Trimming section range: 0-500μm
   Setting value: from 0-500 μm in 1um-increments

3) Horizontal specimen stroke: 28 mm
4) Vertical specimen stroke: 60mm
5) Specimen retraction : 12μm
6) Lowest slice adjusting graduation: 1μm
7) Tissue slice adjusting graduation: 1μm
8) Slip precision: ± 5%
9) Maximal slice section: 50×45mm
10) The angle between cyroplate and cyroscalpel is 45°which made the tissue attached to the slice easily.
11) LCD display show the temperature of cyroplate and cyroscalpel simultaneity
12) Maximum difference in temperature of cyroplate ≥60 C
13) Maximum difference in temperature of cyroscalpel ≥50 C
14) Automatic recovery of refrigeration working state after defrost
15) After automatic defrost, it takes 4-8 minutes to reach setting temperature

YD-2508 III Freezing Microtome

Price: $6,500

Technical Data:

1) Slice thickness range: 1-40 μm
2) Least slice adjusting graduation: 1μm
3) Slice precision: ± 5%
4) Maximal slice section: 60×40mm
5) Maximal freezing section: 40×35mm
6) The angle between cyroplate and cyroscalpel is 45°which made the tissue attached to the slice easily.
7) LCD display show the temperature of cyroplate and cyroscalpel simultaneity
8) Maximum difference in temperature of cyroplate ≥60 C
9) Maximum difference in temperature of cyroscalpel ≥50 C
10) Automatic recovery of refrigeration working state after defrost
11) After automatic defrost, it takes 4-8 minutes to reach setting temperature
**YD-202A III Freezing Microtome**

YD-202A III is comprised of the disposal machine - YD-202A Rotary Microtome and Fast Freezing System. The Fast Freezing System is adopted high-powered semiconductor freezing theory, nanometer material and intelligent liquid crystal display. It have the function of showing the preset temperature, current temperature, automatic thermostatic control system, alarming system, automatic store and automatic defrost. This type of microtome is used to both fast freezing section and regular paraffin section. It is a ideal products for histology and clinical pathology.

**Technical Data:**
1) Slice thickness: 1 - 25μm
2) Lowest slice adjusting graduation: 1μm
3) Maximum slice section: 35×25mm
4) Horizontal specimen stroke: 35mm
5) Vertical specimen stroke: 46mm
6) The angle between cyroplate and cyroscalpel is 45° which made the tissue attached to the slice easily.
7) LCD display show the temperature of cyroplate and cyroscalpel simultaneity
8) Maximum difference in temperature of cyroplate ≥60 C
9) Maximum difference in temperature of cyroscalpel ≥50 C
10) Automatic recovery of refrigeration working state after defrost
11) After automatic defrost, it takes 4-8 minutes to reach setting temperature

**Cryostat**

**YD-1900 Cryostat**

Product Specifications:
- MPU (Microprocessor) Control the temperature and LCD display automatically, and control the function of the section and trimming semi-automatically.
- Two Compressor for freezing (import from Denmark). Five freezing place: two freezing tray, freezing specimen holder, freezing box, freezing knife.
- Beautiful Streamline design
- Specimen retraction function, protects specimen from blade injury.
- Adopt advance import actuation system for advance of the specimen holder.
- UV lamp sterilization system and fluorescent lamp for lighting
- Defrost automatically (set arbitrarily in 1-24 hours)
- Automatic retraction system for section.
- Automatic retraction system for specimen holder.

**Technical Data:**
- Temperature of Freezing Box: -5～-35 C (±2 C)
- Temperature of Freezing Tray: -10～-40 C
- Temperature of Freezing specimen holder: -5～-40 C (±2 C)
- Temperature of Freezing Knife: 5～-25 C
- Range of Section Thickness
- Trimming thickness: 1-60um
- Setting value: from 1-60um 1um increment
- Maximum Sample: 55mm
- Maximum vertical specimen stroke: 59mm
- Maximum horizontal specimen stroke: 28mm via step motor
- Range of Angle Adjustment of freezing Knife: 0-15°
- Specimen Orientation on X/Y – axes 8° and specimen rotation on Z-axes 360°
- Dimension: 600×640×1150mm
- Weight: 120kg
- Power: 560w

**Price:** $3,500

**Price:** $17,200
Tissue Processor

**YD-14P1.8 Automatic Tissue Processor**

**Price:** $11,200

**Features:**
- Bigger screen for Chinese or English display, easy and convenient to operate.
- There are 3 running models: 1. single tissue basket running model, 2. double tissue basket running model, 3. crossed running model.
- Electromagnetism for attaching the basket and the cover.
- Individual heating element in the wax baths. Precise temperature sensor for control temperature exactly.
- Battery power backup for instrument running if the power failure.
- Microprocessor control.

**Technical specification:**
- Quantity of bath: 14. (10 reagent bath, 4 wax bath)
- Capacity of bath: 1.8 L
- Cover opening: Electromagnetism
- Manageable running programs.
- Processor time for each bath: 0-100hrs
- Delaying process time setting in anytime of a year.
- Basket shaking interval in the bath setting: from 1 to 59 minutes.
- Immersion interval from one bath to another: 5 seconds.
- Electricity voltage: 220 V, 50 Hz. (option: 110 V, 60 Hz.)
- Working power: < 600 W.
- Instrument overall: 1220x420x500 mm.

**YD-12P Automatic Tissue Processor**

**Price:** $7,500

With high intelligent, it can judge in time and solve automatically when it meets some small problems. It can make sure prevent tissue from being injured, can automatically track feedback, remove some error in accumulating, position orderly, operate reliably. The users can set two programs and choose any one according to different tissue. If the power is switched off suddenly, the machine can go on work and correct mistake automatically when the power switch on again. The LCD is made the communication between user and machine easily. The sterilization system can clean, sterilize and exhaust the harmful air which exist from the evaporation of reagent.

**Technical Data:**
1) Total containers: 12 (9 for reagent + 3 for medical paraffin)
2) Station capacity: 1000 ml
3) Processing time: 0~99 hrs
4) Temperature range: 0~99 C
5) Delay boot -strap time set arbitrarily in 1~96 hrs (4 days)
6) Hydraulic stop time: 20~120 seconds
7) Remaining infiltration time: 20 seconds
8) Tissue protective hydraulic: Container 6
9) Normal voltage and frequency: AC200± 10% 50Hz ± 1Hz 500W± 10%
**YD-12G Automatic Tissue Processor**

Technical Data:
1) Total containers: 12 (9 for reagent + 3 for medical paraffin)
2) Station capacity: 1000 ml
3) Processing time: 0~99 hrs
4) Temperature range: 0~99 °C
5) Delay boot -strap time set arbitrarily in 1~96 hrs (4 days)
6) Hydraulic stop time: 20~120 seconds
7) Remaining infiltration time: 20 seconds
8) Tissue protective hydraulic: Container 5
9) Normal voltage and frequency: AC200± 10% 50Hz ± 1Hz 500W± 10%

With high intelligent, it can judge in time and solve automatically when it meet some small problems. It can make sure prevent tissue form being injured, can automatically track feedback, remove some error in accumulating, position orderly, operate reliably. The users can set two program and choose any one according to different tissue. If the power is switched off suddenly, the machine can go on work and correct mistake automatically when the power switch on again. The LCD is make the communication between user and machine easily.

**Tissue Slide Stainer**

**YABO-700 Automatic Slide Stainer**

Technical specification:
1. Tank quantity: 18pcs (first tank is clean tank)
2. Loading capacity for each basket: 47 pieces of sheer glass
3. Retention time in each tank: 1 second- 99 minutes
4. Moving up and down in tank: continuous
5. Outside dimensions(mm): 1400×500×550

Main Characteristics:
- Ion decontaminate fitting: Ion decontaminate fitting via ionization gas to bring ion, change and decompose the deleterious gas, to reduce the health unsafety effect. Comparing with the active carbon filter, this will not be replacing termly.
- It can store 4 different programs.
- Find position memory function: Each running automatically, it can find the original position and memory to make sure the right running every time.
- During running automatically, it can insert manual operation at any time.
- It is convenient to adjust the program to make sure the good staining effect.
- During running, the program can be modified. The program can be add or delete a tank time.
- Alarm function: If the operation is fault, it will alarm to remind. If the instrument has any trouble, it will alarm also.
Tissue Embedding Center

**YD-6L Tissue Embedding and Freezing System**

![Image of YD-6L Tissue Embedding and Freezing System]

**Price:** $4,200

**Features:**
- The newest high technology and Touching Screen Control, new type of heating material.
- The machine is made up of embedding machine, freezing part. The design can be flexibly selected between embedding machine and freezing part.
- Automated processor control system make it possible for presetting the start time and temperature of any day.
- Special nano technical make it heat up quickly and equably.
- The LCD display can show you the temperatures of the paraffin bath, thermostatic bath and paraffin nozzle. So the user can operate it easily.
- Inductive head lamp and metal switch, user can touch the switch by tweezers or knives to control the paraffin.
- Automatic memory the presetting temperatures and start to work based on the time.
- Large capacity crock can contain enough paraffin for use at one time.
- Multilevel security protection system.
- There are 3 heating hole for forceps in two side of the paraffin nozzle.

**Technical Specification:**

- Capacity of the wax bath: 6000 ml.
- Melting paraffin prefabricate: 0~99 C
- Freezing range temperature: 0~20 C
- Complete machine consuming more electricity: Less than 1KVA
- Control mode: Auto, foot
- Environment temperature: 0~40 C
- Time control: Opening and closing time of the machine is set in 24 hours optionally.
- Nominal voltage: AC220V±10%.
- Rated frequency: 50±1Hz
- Dimension: 1180×660×470mm
- Weight: 68kg

**YD-6D Tissue Embedding Center**

![Image of YD-6D Tissue Embedding Center]

**Price:** $2,800

**Features:**
- The newest high technology and Touching Screen Control, new type of heating material.
- The machine is made up of embedding machine, freezing part. The design can be flexibly selected between embedding machine and freezing part.
- Automated processor control system make it possible for presetting the start time and temperature of any day.
- Special nano technical make it heat up quickly and equably.
- The LCD display can show you the temperatures of the paraffin bath, thermostatic bath and paraffin nozzle. So the user can operate it easily.
- Inductive head lamp and metal switch, user can touch the switch by tweezers or knives to control the paraffin.
- Automatic memory the presetting temperatures and start to work based on the time.
- Large capacity crock can contain enough paraffin for use at one time.
- Multilevel security protection system.
- There are 3 heating hole for forceps in two side of the paraffin nozzle.

**Technical Specification:**

- Capacity of the wax bath: 6000 ml.
- Melting paraffin prefabricate: 0~99 C
- Freezing range temperature: 0~20 C
- Complete machine consuming more electricity: Less than 1KVA
- Control mode: Auto, foot
- Environment temperature: 0~40 C
- Time control: Opening and closing time of the machine is set in 24 hours optionally.
- Nominal voltage: AC220V±10%.
- Rated frequency: 50±1Hz
- Dimension: 1180×660×470mm
- Weight: 68kg
Zeedo

ZEEDO Brand Histology Equipments

Hisure Scientific Co., Ltd, locates in Dongmei Industrial Park of Huan Cheng Nan Lu, Jinhua City, Zhejiang province, is a leading manufacturer and distributor of histology product. Our production is equipped with advanced equipments, imported main parts, complete quality control systems, experienced technical experts and we are confidence to supply you the good quality product. We are also good at design and develop the new model which maintain the company’s sustainable development. Our product covers almost every aspect of lab work and our products harmonize with each other perfectly. It includes Microtome, Cryostat, Tissue Embedding System, Stainer, Tissue Processor and Accessories. Our employees are happy to take the time to help you find just the right combination of equipment for your workplace.

Microtome

| HS-3345 Automatic Microtome | Price: $10,800 |

HS-3345 Automatic Microtome is a full automatic microtome which made in China. It has two models for advance system of specimen clamp: automatic model and manual model. If automatic model, the user can release his hands to do other things. It simplifies the technical difficult of the section, release the hardness of labor, and improve the work effect.

Main technical parameters:
© Two model for section: Manual and automatic, the user can switch arbitrarily.
© Four speed of section: 50mm/s, 100mm/s, 140mm/s, 180mm/s
© Switch arbitrarily between section and trimming.
© Alarm system for horizontal and vertical stock limit, protection system for motor surcharge.
© Slice thickness range: 0.5-100um
Setting value: From 0.5-2 um in 0.5um increment.
From 2-10 um in 1um increment
From 10-20 um in 2 um increment
From 20-100 um in 5 um increment
© Trimming section range: 0.5-999um.
© Horizontal specimen stroke: 20mm
Vertical specimen stroke: 60mm
© Slip precision: ±10%
© Speed of fast-forward and back-forward: 1 mm/s
© Precise orientation of the specimen clamp.
© Orientation of the specimen head: Axes X and Y 8°, axis Z 360°.
© All kinds of specimen clamp can be Exchanged arbitrarily
© The large waste tray can be disassembled easily.
© Voltage and power: AC220V/50Hz or 110V/60Hz.
© Dimension: 500mm (L) X 320mm (W) X 500 mm (H)
© Net weight: 35 kg
HS-3315 Semi-Automatic Microtome

Price: $7,500

A newly developed product after HS-2235, it has adopted internationally advanced design. This microtome is classic of the current advance craftwork. It reach the perfect mixture of electronic and mechanism so the customer can operate it easily and conveniently.

Features:
- It adopted the advanced import actuation system so that can slice the tissues more precisely, more reliable and quiet.
- The LCD display show the slice and trimming thickness, section counter in Chinese or English version.
- It have special function of sample retraction, it can avoid the damage due to the attrition between sample and the back of knife so that the slice is more smooth and the life of the knife is more longer.
- The hand wheel can be locked in any position to make the section as safe and convenient as possible.
- The waste bath can be disassembled easily.
- It has safety alarm system.

Technical Data:
- Slice thickness range: 0 - 100um
- Setting values: From 0-10 um in 1 um - increments
- Form 10-20um in 2um-increments
- Form 20-50 um in 5um-increments
- Form 50-100um in 10 um-increments
- Trimming section range:0-500um
- Setting value: from 0-500 um in 1um-increments
- Horizontal specimen stroke: 28 mm
- Vertical specimen stroke: 60mm
- Specimen retraction: 12um
- Slip precision: ± 5%
- Maximal slice section: 50 x 45mm
- Dimension: 520 x 450 x 300mm

HS-2235 Semi-Automatic Microtome

Price: $7,200

HS-2235 microtome is a new high precision computerized microtome after HS-2205. the machine laid more stress on constructional advantage in mechanical-electrical integration, which make machine and electricity perform separately but non-interfering. Thus, they reach section’s requirements of high precision and high stability. The machine is an ideal product for modern histopathology section because it’s sophisticated and stable mechanical construction and excellent drive performance of electric stepping.

Functional Features:
- It adopted the advanced import actuation system so that can slice the tissues more precisely, more reliable and quiet.
- The LCD display show the slice and trimming thickness, section counter in Chinese or English versions.
- It have special function of sample retraction. It can avoid the damage due to the attrition between sample and the back of knife so that the slice is more smooth and the life of the knife is more longer.
- The handwheel can be locked in any position to make the section as safe and convenient as possible.
- The angle between sample and knife can be adjusted freely.
- The waste bath can be disassembled easily.

Technical Data:
- Slice thickness range: 0 - 60um
- Trimming section range: 0 - 60um
- Horizontal specimen stroke: 50mm
- Vertical specimen stroke: 93mm
- Specimen retraction: 15um
- Lowest slice adjusting graduation: 1um
- Tissue slice adjusting graduation: 1um
- Slip precision: ± 10%
- Maximal slice section: 50 x 40mm
- Dimension: 480x380x330mm
Histology Equipment Catalog 2013

**HS-2046 Rotary Microtome**

Hisure model HS2046 Rotary Microtome is a high accuracy pathological microtome designed based on our model HS2205 Rotary Microtome. This model features light feeling, offering less stress for prolonged operation. Damage of knife caused by backward friction of knife and tissue is avoided so that knife life is longer. The hand wheel can be locked at any position with just one hand operation. The sample’s position can be adjusted at X-Y directions at random.

**Main Technical Specifications:**
- Section thickness range: 1-60μm
- Section thickness setting:
  - 1-10μm, in 1μm increment
  - 10-20μm, in 2μm increments
  - 20-60μm, in 5μm increments
- Trimming thickness: 10μm and 30μm
- Specimen retraction: 60μm
- Specimen vertical stroke: 70mm
- Specimen horizontally stroke: 25mm
- Max specimen size with cassette clamp (H×W): 40mm×28mm
- Max specimen size with C clamp (H×W): 55mm×40mm
- Dimensions (W×D×H): 560×470×300mm
- Weight: 35kg

Price: $7,200

**HS-2205 Rotary Microtome**

**Features:**
- It have clipper - built case, the user can put blade, wax block, or other consumable one the top of case. It is easy.
- It does not need to be lubricated and maintain the microtome frequently.
- The handwheel in the right can be locked in any position, and the handle can be locked in highest position, it is double safe for changing blade or tissue block.
- The specimen Orienting system: axes X and Y 8°, axis 180°.
- It adopt the special blade holder, it is more safe and convenient to use the disposable blade directly. it also can to longer the user life of disposable blade.

**Technical Data:**
- Slice thickness range: 0- 60um
- Setting values : from 0-2 um in 0.5 um –increments
- Form 2-10um in 1 um-increments
- Form 10-20 um in 2 um-increments
- Form 20-60um in 5 um-increments
- Horizontal specimen stroke: 28 mm
- Vertical specimen stroke: 60mm
- Slip precision: ± 5%
- Maximal slice section: 50 × 45mm

Price: $5,600

**HS-2026 Rotary Microtome**

Adopted with mechanism structure internal with good stability that ensure the reproducible and evenly slices. It is universal used in the lab institute.

**Technical Specifications:**
- Mechanism drive.
- Compatible Embedding Material: Paraffin.
- Range of the thickness of slice: 1-35 μm. > 35 μm, setting any thickness for slice.
- Minimum setting thickness of slice: 1 μm.
- Precise error: + 10%.
- Maximum section of slice: 50 x 40 mm.
- Dimension: Length x Width x Height: 470 x 320 x 320 mm.
- Weight: 22.5 kg

Price: $3,600
Cryostat

HS-3060T Cryostat

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Price: $16,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>The unit essentially comprises these components:</td>
<td></td>
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<tr>
<td>- interior cooling chamber made of stainless steel</td>
<td></td>
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<tr>
<td>- rotary microtome with retraction and motorized course advance/retraction</td>
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<tr>
<td>- refrigeration unit and electronic control</td>
<td></td>
</tr>
<tr>
<td>Features:</td>
<td></td>
</tr>
<tr>
<td>1. The cooling unit consists of a heavy duty compressor operating with CFC-free cooling gas to reach -35°C.</td>
<td></td>
</tr>
<tr>
<td>2. The design and construction takes into consideration easy handling and minimal servicing requirement. The enclosed microtome has connection to external drive and includes anti-roll device. The sliding window is made of dual insulation frost free glass. The spacious cabinet consists of coated sheet metal with the opening at the top. It includes fluorescent lighting and hygienic drainage system. There is a low temperature storage area on the left for up to 10 specimen holders. In addition there is a storage space on the right-hand shelf.</td>
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<tr>
<td>3. The precision of the microtome gives reproducible sections of 0 - 60 µm in 1 µm step up to 10 µm, 2 µm step up to 20 µm and 5 µm step up to 60 µm. Automatic micro-retraction of holder, adjustable at time of manufacture.</td>
<td></td>
</tr>
<tr>
<td>4. The specimen table are 22 mm or 35 mm diameter. The maximum specimen size is 55 mm diameter. Stroke of the X-axis is 59 mm. The motorized advance/retraction has a range of 28 mm and is push-button controlled by 2 different speeds, ergonomically installed in left-hand arm rest. The unit uses a modern rotary microtome with extremely good mechanical stability. The specimen is only going on one direction. The knife carriage is only going one plain. The accessories of the knife holder include the knife holder base and the disposable blade holder, optional the steel knife holder.</td>
<td></td>
</tr>
<tr>
<td>5. The fully automatic controller allows adjustment of temperature in 1°C steps down to -40°C. The defrost system is fully automatic and is adjusted by real time clock. The defrost is automatic and freely programmable.</td>
<td></td>
</tr>
</tbody>
</table>

Parameter:
1. Cryo-plate temperature: -5°C to -45°C
2. Cryo-probe temperature: -5°C to -30°C
3. Speed of horizon specimen feeding: 0.8mm/second
4. Dimensions: height 1120 x length 780 x width 720 mm, Weight: 130 kg
5. Voltage: 220 V / 50 Hz or 110 V, 60 Hz
6. Power: 600 W

Accessories:
1 tool bag.
1 operation manual
1 knife 16 cm C-Profile with box alternatively 1 box with 50 disposable blades

Options:
- Additional motor drive for Cryostat
- Additional four castors (mounted)
HS-3060 Cryostat  

Price: $15,200

Parameter:
- Cryo-plate temperature: -5°C to -45°C
- Cryo-probe temperature: -5°C to -30°C
- Speed of horizon specimen feeding: 0.8mm/second
- Dimensions: height 1065 x length 660 x width 640 mm
- Weight: 120 kg
- Voltage: 220 V / 50 Hz or 110 V, 60 Hz
- Power: 590 W
- Option Accessories:
  - 1 tool bag.
  - ledC knife 16 cm C-Profile with box
  - alternatively 1 box with 50 disposable blades

The unit essentially comprises these components:
- interior cooling chamber made of stainless steel
- rotary microtome and motorized course advance/retraction
- refrigeration unit and electronic control

Features:
The cooling unit consists of a heavy duty compressor operating with CFC-free cooling gas to reach -30°C. 
The design and construction takes into consideration easy handling and minimal servicing requirement. The enclosed microtome has connection to external drive and includes anti-roll device. The sliding window is made of dual insulation frost free glass. The spacious cabinet consists of coated sheet metal with the opening at the top. It includes fluorescent lighting and hygienic drainage system. There is a low temperature storage area on the left for up to 10 specimen holders. In addition there is a storage space on the right-hand shelf. The precision of the microtome gives reproducible sections of 0 - 60 µm in 1 µm step up to 10 µm, 2 µm step up to 20 µm and 5 µm step up to 60 µm. The specimen table are 22 mm or 35 mm diameter. The maximum specimen size is 50 mm diameter. Stroke of the X-axis is 59 mm. The motorized advance/retraction has a range of 28 mm. The unit uses a rotary microtome with extremely good mechanical stability. The specimen is only going on one direction. The knife carriage is only going one plain. The accessories of the knife holder include the knife holder base and the disposable blade holder, optional the steel knife holder.
- The fully automatic controller allows adjustment of temperature in 1°C steps down to -30°C. The defrost system is automatic and is adjusted by real time clock. The defrost is automatic and freely programmable.
Tissue Processor

ATP-300 Tissue Processor

Price: $18,000

Technical Parameters:
- Nominal voltage: AC220V
- Nominal frequency: 60HZ
- Main fuses: 10A
- Nominal power: 1000 VA
- Dry weight, unpacked: approx. 100 kg
- Weight, packed: 120 kg
- Operating temperature range: 15 °C to 35 °C
- Relative humidity: 10 % to 80 %, non-condensing

Hardware and Software:
- Large color Liquid Crystal Display (LCD)
- User-friendly, intelligent software.
- Alarm system to reminder wrong operation and trouble
- Multiple specimen protection system.

Capacities:
- 15 programs that consist of up to 9 reagent and 3 paraffin wax steps.
- Time per program step: 0 to 99 hours, 59 minutes.
- Up to 200 cassettes can be processed simultaneously.
- Wax clean program.
- 9 reagent bottles.
- 3 wax baths.
- 3 cleaning solution bottles.
- 2 condensate bottle.

Paraffin wax baths
- Number of baths: 3
- Volume (liters): 4.0 l per bath
- Melt time: approx. 3 hrs
- Temperature: 65 C
- Temperature accuracy: + 1 C

Retort
- Capacity: approx. 200 cassettes
- Reagent volume (in liters): 5.3
- Temperature (paraffin): 65 °C
- Temperature (processing reagents): ambient or 35°C
- Temperature (cleaning reagents): 65 °C
- Temperature accuracy: + 1 °C
- Filling time: 5 min
- Drain time: 5 min
- Impregnation vacuum: -70 kPa (g)
- Impregnation pressure: 35 kPa (g)
- Fill vacuum: -70 kPa (g)
- Drain pressure: 35 kPa (g)

General
- Reagent bottles: 9
- Cleaning solution bottles: 3
- Maximum bottle volume: 4.0 l
- Recirculation (pump in/out): ON/OFF
- Time between cycles: 15 min
HS-566 Tissue Processor

Price: $11,600

Technical Data:
© Steps of processing tissue: 12steps.
© Glass container: Quantity—9; capacity—1.2L.
© Wax cup: quantity—3; capacity—1L.
© Temperature range—45~85°C±3°C.
© Process: Each cup working hours—0~59hr59min.
© Delay process—0~59hr59min.
© Vetically reciprocative motion of tissue basket: 3 times/min
© Tissue basket specification: Barrel tissue basket—￠95x80mm.
© Layer nacelle—￠95x80mm Five layers.
© Weight: <60kg.
© External dimension: (diameter)660 x (High)550 x 680(Tiptop)mm.
© Rated voltage: 220v,50Hz.

Features:
© Adopting computer to control whole work process, operate brief work stabilization.
© Having exchange jar and change place control draw perch, operate agility brief.
© If lose electric give an alarm, protecting tissue in liquid, obstacle, protect function and so on.
© Adopting agitation dehydrate mode, so tissue and solvent, paraffin meet, thereby well effect.
© Screen showing information is English, easy to use.
© Time design range wide: delay time 59hr59min. Each jar working hours longest 59hr59min, Time design least distance 1 min.
© Wax jar adopt constant temperature control system.
© Temperature precision high: defend pollution, defend canker.
© Adopting 9 slices 1.2L medicine aquarium, at any moment observe tissue change at work.
© According to user’s need to tailor standby electrical source, after power cut it can work in great, working hours can reach 4—16 hours.

HS-366 Tissue Processor

Price: $9,800

Technical Data:
© Steps of processing tissue: 12steps.
© Glass container: Quantity—9; capacity—1.2L.
© Wax cup: quantity—3; capacity—1L.
© Temperature range—45~85°C±3°C.
© Process: Each cup working hours—0~59hr59min.
© Delay process—0~59hr59min.
© Vetrically reciprocative motion of tissue basket: 3 times/min
© Tissue basket specification: Barrel tissue basket—￠95x80mm.
© Layer nacelle—￠95x80mm Five layers.
© Weight: <60kg.
© External dimension: (diameter)660 x (High)550 x 680(Tiptop)mm.
© Rated voltage: 220v,50Hz.

Features:
© Adopting computer to control whole work process, operate brief work stabilization.
© Having exchange jar and change place control draw perch, operate agility brief.
© If lose electric give an alarm, protecting tissue in liquid, obstacle, protect function and so on.
© Adopting agitation dehydrate mode, so tissue and solvent, paraffin meet, thereby well effect.
© Screen showing information is English, easy to use.
© Time design range wide: delay time 59hr59min. Each jar working hours longest 59hr59min, Time design least distance 1 min.
© Wax jar adopt constant temperature control system.
© Temperature precision high: defend pollution, defend canker.
© Adopting 9 slices 1.2L medicine aquarium, at any moment observe tissue change at work.
© According to user’s need to tailor standby electrical source, after power cut it can work in great, working hours can reach 4—16 hours.
LTP-200 Tissue Processor

Technical specifications:

- Numbers of cylinder: 14 (10 reagent cylinders, No. 11, 12, 13, 14 are wax dispensing cylinder)
- Volume of each cylinder: 1500ml
- Range of temperature: ambient~80°C
- Precision tolerance: ±1%
- Processing time of each cylinder: 0~99 H (No.1 No.2 cylinder), 0~24 H (No.3~No.14 cylinder)
- Time of exchange cylinder, delay, leachate: 10~60s (adjustable), and leachate, basket shaking work above cylinder
- Times of basket shaking: 0~6 times /min (adjustable)
- Protecting station of tissue: No.7 for A program, No.5 for B program
- Voltage: AC220V 50Hz, AC110V 60Hz
- Power: 550VA
- Dimension: 1250x430x490 mm
- Weight: 85kg

Features:

- LTP200 has fluent & elegant appearance, easy to clean since it is coated with APS engineering plastic with high-intensity, anticorrosion
- Flexible transmission mechanism makes it no abrasive, no noise. Precise positioning system ensure the stable processing
- Double organization operating mode can double the processing capability. The tissue can put on different basket according to its size to get better effect. If there is little tissue, it can also use one operating mode for easy operation
- 20 sets programmed for A&B procedures, broad screen finger-touched LCD, with man-machine dialogue, prompt identifying can be made in abnormal situation to make sure each operation can be indicated (online help)
- LCD indicate running situation, adopted with imitated syncraphic display to make operation process perfect
- Environment-friendly inner circulated air cleaning system, adsorb, remove, decompose toxic and harmful gas in the instrument
- Setting timing of starting up machine during 0~99hrs 59mins and automatically showing finish time, make sure task is finished in stipulated time
- 10~60s adjustable time of dropping liquid, shaking basket, and drop liquid above cylinder once exchange cylinder to avoid liquid run from one bath to another, in this way, service time of liquid medicine, avoid dirty on the table
- 0~6 times /min adjustable stirring times (0 shows no stirring), make sure all tissues immersed thorough, evenly, and completed enough
- Once power-off, Protecting cylinder of tissue: No.7 for A program, No.5 for B program can be set, position of protecting cylinder can be adjusted as required
- Self-control fan, it automatically starts up once basket goes up; as basket goes downwards, fan works 10s per min
- Self-control illuminating lamp, it starts up in programming; touch any key to prolong to 2 min as the instrument is running
- Waterless inner heating, high precision of controlling with triple protection, Automatic gradient temperature control system. Starting heating automatically when need which save energy
- Low energy-consuming control circuit, self-protection once power-off; display panel is still illummed and scrolling panel indicates it’s self-protecting situation as power-off, and time of running is more than 30 H
- After running, randomly hand-control can be made to check or add other tissues
- More than 200 tissues can be processed one time
HS-2000L Tissue Processor

**Product Function:**
1) Display on large LC screen, Chinese-language menu, man-machine interaction, simple operation
2) Streamline stainless working platform with a simple appearance
3) Use the imported guide rail and step motor to achieve transmission through the imported synchronous belt. Computer-control technology leads to stable running and precise positioning.
4) Unique functions: electromagnetical adsorption of cover, changing cylinder and liquid trickling
5) Machine can be started in the condition of no electricity. If it is heated continuously (in DC 24V), it can run for consecutive four hours.
6) Environment friendly: the noxious gas can be adsorbed by active carbon through internal circulation, and drained out through pipeline.

**Technical Parameter:**
1) Quantity of cylinder: 14 (10 liquid cylinders and 4 wax cylinders)
2) Operational mode: Single-basket running, double-basket running and multi-basket roll running
3) Working hour of Single-cylinder: set arbitrarily in the range of 0 to 99 hour(s)
4) Time of changing Cylinder and tickling: adjustable
5) Single-basket can hold 120 specimens (Standard dehydrating box)
6) Capacity of Single-cylinder: 1800ml
7) Heating mode: Double-control, without water, DC24V
8) Delay time: Adjustable
9) Uncovering mode: Electromagnetic adsorption
10) Voltage of power: AC220V±10%
11) Frequency: 50HZ±1HZ
12) Overall dimension: 1220×420×500

HS-1500L Tissue Processor

**Product Function:**
1) Chinese menu, man-machine interaction, simple operation.
2) Prompt judge and automatic processing in case of abnormal condition, which can prevent the tissue from being damaged.
3) Double-control heat without water
4) Based on different tissues, several running programs available for customers
5) Self-provided power supply can ensure to continue 6 hours’ working even if the electricity has been cut off.
6) Environment friendly: The air as purified through internal circulation can be exhausted off the window.
7) With transmission of gear and rack, mechanical failures can be reduced.
8) Several standby programs available

**Technical Parameter:**
1) 12 cylinders (3 wax cylinders in the end)
2) Capacity of single-cylinder: 1500ml
3) Basket can hold 90 specimens (Standard dehydrating box)
4) Single-cylinder processing time: Randomly set within the range from 0 to 99 hour(s).
5) The temperature of wax cylinder can be randomly set within the range of 99°C.
6) Time for cylinder to be lifted: 38 seconds
7) Tissue-protection cylinder sequence: 7th cylinder
8) Times of mixing per minute: 3 times
HS-1000L Tissue Processor

<table>
<thead>
<tr>
<th>Technical Parameter:</th>
<th>Price: $5,900</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) 12 cylinders (3 wax cylinders in the end)</td>
<td></td>
</tr>
<tr>
<td>2) Capacity of single-cylinder: 1000ml</td>
<td></td>
</tr>
<tr>
<td>3) Basket can hold 60 specimens (Standard dehydrating box)</td>
<td></td>
</tr>
<tr>
<td>4) Single cylinder processing time: set arbitrarily in the range of 0 to 99 hour(s)</td>
<td></td>
</tr>
</tbody>
</table>

Product Function:
1) Chinese menu, man-machine interaction, simple operation.
2) Prompt judge and automatic processing in case of abnormal condition, which can prevent the tissue from being damaged.
3) Double-control heat without water
4) Based on different tissues, several running programs available for customers
5) Self-provided power supply can ensure to continue 6 hours’ working even if the electricity has been cut off.
6) Environment friendly: The air as purified through internal circulation can be exhausted off the window.
7) With transmission of gear and rack, mechanical failures can be reduced.
8) Several standby programs available

Slide Stainer

LSD-600 Tissue Slide Stainer

<table>
<thead>
<tr>
<th>Technical specifications:</th>
<th>Price: $7,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>■ Reagent containers: 12</td>
<td></td>
</tr>
<tr>
<td>■ One cleaning bath (the 9th one)</td>
<td></td>
</tr>
<tr>
<td>■ One roasting bath (the 1st one)</td>
<td></td>
</tr>
<tr>
<td>■ Processing time of each container: 0s～59 min and 59 s.</td>
<td></td>
</tr>
<tr>
<td>■ Capacity of containers: 1 L, specimen process: 40 pc. (2 L, specimen process: 80 pc, optional)</td>
<td></td>
</tr>
<tr>
<td>■ Working voltage: AC220 V 50Hz ,AC110 V 60Hz</td>
<td></td>
</tr>
<tr>
<td>■ Power: 1000 VA</td>
<td></td>
</tr>
<tr>
<td>■ Dimensions: 1130 x 460 x 400 mm</td>
<td></td>
</tr>
<tr>
<td>■ Weight: 85 kg</td>
<td></td>
</tr>
</tbody>
</table>

Tissue dyeing process is essential in doing the pathological research, this instrument is designed for saving the fussy process of manual tissue dyeing

Features:
■ High-definition & sensitive of touch LCD
■ Unique design for dyeing process
■ Flexible transmission, noiseless
■ Intellectualized infall, outfall & drainage system
■ Special dyeing shelf loading with decades of specimen
■ Streaming water cleaning & tissue roasting function
LSS-800 Tissue Slide Stainer

Price: $13,000

The big Tissue Stainer can stain large quantity slides at same time.

Characteristics:
- © Adopt PLC control system and Electronic Touch Screen, it's convenient to operation and low failure rate.
- © Adopt high performance stepper motor and drive with Synchronous Belt, to ensure the balanced running, accurately fixed position, min. noise and so on.
- © Adopt Photoelectric switch to fixed position, it has find position memory and reset automatically functions.
- © It can store 5 different programs to meet the different staining requirements.
- © Battery backup can be optional, to permit staining of slides to continue during the main power failures.
- © It has 26 stations: From1 to 17 stations are reagent containers, 19, 21, 23 stations are water washing containers, 18, 20, 22 stations are waiting containers that for putting the ready staining racks. 24 station for loading staining rack. 0 station for unloading staining rack. 25 station is oven.

Technical data:
- © Specimen slide throughput: At least 200 specimen slides per hour (depend on the selected program)
- © Loading capacity: 3 slides rack
- © Slide rack capacity: 30 specimen slides
- © Total number of stations: 26
- © Number reagent stations: 18
- © Reagent container volume: 600ml
- © Number of wash stations: 3
- © Number of wait stations: 3
- © Oven: 1
- © Oven chamber temperature: from ambient temperature to 85°C
- © Load/unload stations: 1 each
- © Incubation time setting: from 0 sec. up to 9999 sec.
- © Permanent memory capacity: 5 programs, up to 24 program steps each
- © Operation temperature range: 15°C to 35°C
- © Relative humidity: ≤90%(+25°C)
- © Dimension ( W×D×H): 120cm×50cm×60cm
- © Weight: 110Kg
- © Voltage: 220V, 50Hz
- © Power rating: 300VA

Tissue Embedding Center

ES-500 Tissue Embedding Center

Price: $5,400

Main Console Specification:

Nominal supply voltage: 220V/50Hz
Maximum power draw: 650VA
Working temperature: from ambient to 80 C increments 1 C
Capacity:
Paraffin reservoir: 6.0 L
Cassette/mold tray: 1.6 L
Dimensions:
Width: 600mm
Depth: 650mm
Height: 460mm
Weight: 30Kg

Cryo Console Specification:

Nominal supply voltage: 220V/50Hz
Maximum power draw: 200VA
Working temperature: from 0 C to -20 C increments 1 C
Dimensions:
Width: 410mm
Depth: 580mm
Height: 440mm
Weight: 25Kg

Thermal Console Specification:

Nominal supply voltage: 220V/50Hz
Maximum power draw: 650VA
Working temperature: from ambient to 80 C increments 1 C
Capacity: Paraffin tray: 5 L
Dimensions:
Width: 410mm
Depth: 620mm
Height: 440mm
Weight: 13Kg
ES-300 Tissue Embedding Center

Price: $3,500

**Description:**

The Embedding center is composed of two modules, main console and Cryo Console. It is independent design, can put the position left-to-right or right-to-left, to meet different habits of customers. The large working surface allows user processing many samples at the same time. The temperature and work start time can be settable through the control panel.

**Characteristics:**

**Main Console:**
- The ergonomic large working surface allows processing many samples at same time.
- The large cold spot Peltier is designed to orient even small and big samples (Mega Cassettes).
- Work start time and day can be programmed automatically.
- The tissue embedding cassettes and base molds trays are removable and can be set at different temperatures.

**Cryo Console:**
- It is composed of a compressor cooled work surface held to chill the paraffin blocks rapidly.
- The Teflon coated surface allows a minimum ice formation and easy cleaning.
- Temperature is adjustable from ambient to -13 centigrade.
- It can be used as a stand alone unit near the microtome station.

**Technical data:**

**Main Console:**
- Nominal supply voltage: 220V/50HZ or 110V/60HZ
- Maximum power draw: 1000VA
- Working temperature: From ambient 90 centigrade
- Increments: 1 centigrade
- Capacity: Paraffin reservoir: 5.2L
  Cassettes/molds tray: 1.4L
- Dimensions: (W*D*H) 600mm * 580mm * 410mm
- Weight: 30kg

**Cryo Console:**
- Nominal supply voltage: 220V/50HZ or 110V/60HZ
- Maximum power draw: 110VA
- Working temperature: From ambient to -20 centigrade
- Increments 1 centigrade
- Dimensions: (W*D*H) 340mm * 540mm * 410mm
- Weight: 24kg
The Paraffin Block Trimmer enables the researchers to trim the paraffin blocks automatically. This instrument removes only paraffin residues around the paraffin blocks without damage to the tissue samples or the plastic cassette.

When users load the paraffin blocks finished the embedding process, the blocks moves to trim the paraffin residues into the instrument and the trimmed block is discharged from the outlet of the instrument. Eventually, this instrument also enables to save the research time and to prevent the users from any injuries caused by the conventional trimming way.

Features

- Save time and labor of researchers
- Protect researchers from physical damages by conventional trimming tools like razor.
- Max. 600 paraffin blocks can be trimmed in an hour.
- Semipermanent life time of trimming modules (Cutting blade replacement is unnecessary)
- Check trimmed block quantity on the LCD Panel.
- LCD Panel shows the status of trimming process
- Suitable for various kinds of embedding cassettes.

Overview

How to Use

Order: sales@ihcworld.com Tel: 443-686-9618 Fax: 443-638-0394 Web: www.ihcworld.com
1. Turn on the main power switch located at the bottom of left side.

2. Load paraffin blocks onto the block tray number 1 and 2. Refer to the pic. no 1.

   < pic no. 1 >

※ A sensor which detects the block and its loading direction is located at the position of tray number 2.

   < pic no. 2 >

3. When blocks are loaded onto the tray number 1 and 2, the blocks are conveyed into the inside of the instrument. Sensors detect the block to recognize if the block are positioned at a right way and start trimming the block back and forth. Then, the block moves to the right to trim the block left and right.

4. When the block is trimmed completely, the number of the trimmed block is displayed on the LCD monitor.

5. The trimmed blocks are automatically extruded from the outlet of the instrument and collected in a container to be prepared by users. The wastes of paraffin from the blocks are to be collected into the waste box under the conveyer belt.

6. After 300~400 paraffin blocks are trimmed, an alarm will sound and the instrument comes to stop automatically. Then, open the front door to take out the waste box and clean the waste box and fit it into the instrument, and close the door to continue the work.
## Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>UPBT-1011</td>
</tr>
<tr>
<td><strong>Nominal Power voltages</strong></td>
<td>Free Voltage (100 to 240V)</td>
</tr>
<tr>
<td><strong>Nominal electronic current</strong></td>
<td>4.5A @ 24V</td>
</tr>
<tr>
<td><strong>Nominal frequency</strong></td>
<td>50 / 60Hz</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>36 kg</td>
</tr>
<tr>
<td><strong>Max Size (W x D x H)</strong></td>
<td>697 x 325 x 480mm</td>
</tr>
<tr>
<td><strong>Operating temperature range</strong></td>
<td>Room temperature</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>Max. 80% non-condensing</td>
</tr>
<tr>
<td><strong>Operating control SW</strong></td>
<td>MICOM (PIC) type</td>
</tr>
<tr>
<td><strong>Monitor</strong></td>
<td>LCD Panel (70 x 25mm), Dot Matrix type</td>
</tr>
<tr>
<td><strong>Trimming capacity</strong></td>
<td>about 600 blocks per hour</td>
</tr>
<tr>
<td><strong>Operation environment</strong></td>
<td>Indoor use only</td>
</tr>
<tr>
<td><strong>Certification / Approval CE / ISO</strong></td>
<td>CE/ISO</td>
</tr>
</tbody>
</table>

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