




















**HEALTH
EXPORT MANAGEMENT COMPANY**

PRODUCTS CATALOGUE

2022

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Introduction

Health Export Management Company (Health EMC), affiliated to Salam Holding, is established with the aim of exporting knowledge-based products and services and related know-how from Iran to Global Markets and importing the required items such as raw materials, capital goods, and knowledge transfer to Iran.

The main objective of this company is to make constructive interaction with global markets, select trusted partners, and transaction of goods and services, that are competitive in the market in terms of technology, quality, price, and after-sales services and achieve customer satisfaction.

As an export agent in the field of medical equipment, pharmaceutical and health services, Health EMC has been licensed by about 30 Iranian knowledge-based companies and also companies with advanced technologies to do marketing and export their products and services to regional and trans-regional markets. we try to convey more detailed information about these products and services and possible cooperation frameworks as well.

It is our pleasure to start a long-term, win-win cooperation to respond to the interests of the two countries and local companies. We try to be a reliable partner for you and Iranian companies and we are interested in ***B2B sales, B2C sales, after-sales service provision, joint ventures, production with local brands, cobranding and knowledge transfer partnerships.***

1

Neonatal Care



1-1

NICU

- **Infant Cot 033**
- **Infant Incubator 111**
- **Transport Incubator 320**
- **Infant Intensive Phototherapy**
- **Infant Home Phototherapy 0271**
- **Infant Radiant Warmer 083**
- **Oxygen Hoods**



Infant Cot 033

Infant cot model 033 is specifically designed for infants in hospital. The clear partition of each side of the bed makes it easier for the nurse to observe and watch the infant from a short distance. In addition the bed is very easily maneuvered because of the wheels on each side and the infant is at reaching distance. Furthermore the base of the bed can adjust to a 12 degrees angle.

- Tilting patient pad: During care, it is important base of the bed can adjust. Our infant base bed can adjust to a 12 degree easily
- Pulled out patient: For special treatments the patient pad can be pulled out completely.
- Built in convenient storage: During care it is important to have necessary items available at all times. The one basket of the infant bed is accessible easily from front side and in every situation.
- Castors: Smooth castors provide a stable position of the infant baby and allow easy movement. Two casters are fitted by locks.
- Additional Specification:

Dimension and Weight	Dimension of patient deck	66cm*30cm
	Height of of patient deck	17.5cm
	Weight	15.5Kg
	Length	98.4cm
	Width	50cm
	Height	91.5cm
Available option	Basket	
Classification according to Directive 42/93/EEC		



Infant Incubator 111

Incubator for warming and intensive care of new born babies

The incubator 111 helps to facilitate the baby ongoing health. it combines the climate stability of a closed ambulance with Increased access and contact possibilities offered by open care systems. The incubator 111 makes a calm environment for preterm babies in the first few months of their live.

- Always the right climate: selecting air and skin temperature, humidity and oxygen concentration
- Ergonomic design / Baby Access
- Control Panel: which displays air temperature, skin temperature, humidity control and alarms
- Height adjustment: adjusting appropriate height of the incubator by pushing the pedals
- Compartment noise: Ultra low noise level (less than 50 dB) inside the compartment
- Tilting patient pad: patient pad can be adjusted into head-up or head-down position
- Built in convenient storage: four drawers are accessible easily from front sides.
- Pulled out patient pad: For special treatments the patient pad can be pulled out completely.
- Additional Specification:

Dimension, weight	Weight	90Kg
	Dimension of patient deck	600*340 mm
	Height of patient deck	985-1190 mm
Alarms	Skin sensor failure	Audible and Visible
	Air sensor failure	Audible and Visible
	Circulation Fan failure	Audible and Visible
	Oxygen fan failure	Audible and Visible
	Cut-out	Audible and Visible
	Skin temperature overheat	Audible and Visible
	Air set deviation	Audible and Visible
	Line Interruption	Audible
	Low battery	Visible
Operating parameters	Skin Temperature	28°C to 37.5 °C
	Air Temperature	28°C to 37°C override to 39 °C
	Temperature Resolution	0.1 °C
	Humidity Range	30%-90% RH
	Humidity Resolution	0.1 °C
	Internal noise level	< 48 dB (A)
	Warm-up time	30 minutes
	Disposal filter	
Electrical parameters	Voltage , current	220A -2.4 A
	Maximum power input (with maximum power to sockets)	550 W
Classification according to Directive 93/42/EEC		



Infant Transport Incubator 320

Incubator for warming and intensive care of new born babies during transporting
Transport of preterm birth from one hospital to another is the most difficult start into our world. The transport incubator 320 helps to facilitate the baby ongoing health. it combines the climate stability of a closed ambience with Increased access and contact possibilities offered by open care systems.

- Always the right climate
- Monitor /operator terminal: Air & skin temperature, cabin lighting, Phototherapy, alarms and ...
- Heat control
- Ergonomic design / Baby Access: front and rear doors are easily open for easy access to the baby
- Compartment noise: Ultra low noise level (less than 50 dB) inside the compartment
- Phototherapy: phototherapy system for treating neonatal jaundice fewer than 18 mg
- Lighting inside the compartment: The lamps have natural brightness for the treatment of infants
- Oxygen Cylinder: Infant transport incubator is equipped with an 8-liter oxygen cylinder
- Additional Specification

Dimension , weight	Weight	41 Kg
	Dimension of patient deck	300*500 mm
Alarms	Skin sensor failure	Audible and visible
	Air sensor failure	Audible and visible
	Circulation fan failure	Audible and visible
	Skin temperature overheat	Audible and visible
	Thermostat Cut- out	Audible and visible
	Air set deviation (ASD)	Audible and visible
	Line Interruption	Audible
	Low battery	visible
Operating parameters	LCD touch screen	3 inches touch screen graphic display
	Intelligent battery	3 hours to fully charge the battery
	Air Temperature	28°C to 37°C
	Skin Temperature	28°C to 38.5 °C
	Temperature Resolution	0.1°C
	Oxygen cylinder	8 litter
	Internal noise level	< 40db(A)
	Cabin light	2W
	Phototherapy	450nm , 12W
Electrical parameters	Voltage (AC) , Power	100-120 Vac 50-60 Hz , 177W
	Voltage (AC) , Power	200-240 V ac 50-60Hz , 177W
	Voltage (DC) EMS , Power	12Vdc , 150W
	All 3	All power supply models meet EMC standards
Classification according to Directive 93/42/EEC		



Infant Intensive Phototherapy

The LED phototherapy device for outstanding performance

Neonatal jaundice is a strain for both new born babies and their parents, especially in the first few days of life. A prompt therapy with shortwave, blue radiation can prevent damage to the central nervous system and ease symptoms of jaundice, thus relieving stress for everyone involved. Intensive Phototherapy LED is the outcome of a continuous product development within phototherapy, keeping in mind both the babies' health and nursing staff's needs. This assures a high performance device which is simultaneously improving the nursing situation

- The right environment for jaundice treatment: The apparatus by light radiation in wavelength 460 nm thorough infant skins in different and special process causes bilirubin molecule which leads to infant jaundice to be broken and evacuated through kidneys.
- Control Panel: which controls, monitors and displays Skin temperature and Treatment time
- High-performance phototherapy: The Intensive Phototherapy
- Automated therapy
- Castors: Sturdy smooth castors provide a stable position and allow easy movement
- Additional Specification:

Dimension , weight	Weight	37 Kg
	Dimension of patient deck	560*460 mm
	Height of patient deck	881 mm
	Fan failure	Audible and visible
	End of Treatment	visible
	Line Interruption	visible
	Overheat	Audible and visible
	Low battery	Audible and visible
Operating parameters	LED tube	8, 12, 16 (9W)
	LED tube code	T8-600B02
	Touch screen control panel	
	Air and skin temperature measurement	
	Lifespan of the LED tube	30000 hours
	Treatment time adjustment	
	Irradiance intensity adjustment	50% or 100%
	Exposure angle	360°
Electrical parameters	Ventilation of the Enclosure	Fan for ventilation of enclosure air and cooling the electrical part
	Voltage	200-240 V
	Power	360 W
Classification according to Directive 93/42/EEC		



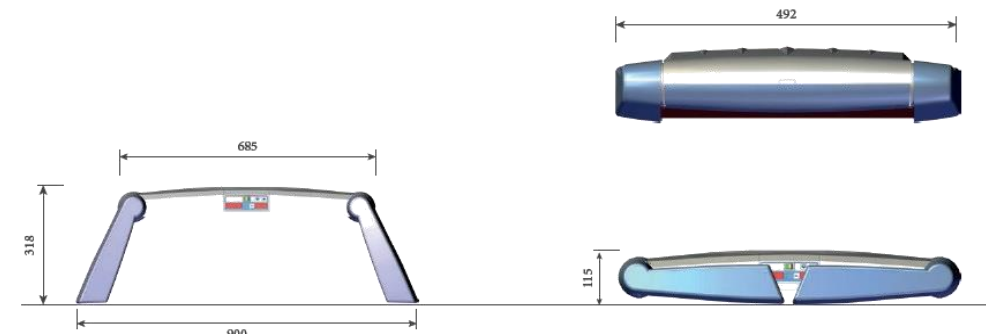
Infant Home Phototherapy 0271

Neonatal jaundice is a strain for both new born babies and their parents, especially in the first few days of life. A prompt therapy with shortwave, blue radiation can prevent damage to the central nervous system and ease symptoms of jaundice, thus relieving stress for everyone involved. Home Phototherapy LED assures a high performance device which is simultaneously improving the nursing situation.

The apparatus by light radiation in wavelength 460 nm thorough infant skins in different and special process causes bilirubin molecule which leads to infant jaundice to be broken and evacuated through kidneys. The treatment of infant jaundice is done by light radiation in 460 wavelengths through infant skins. In Home phototherapy the time of light therapy is adjustable.. It is portable because of having movable stands and special bag moreover the treatment could be done at home near the mother with the administration of the physician. Infants with the bilirubin under 18 mg could be easily treated by this apparatus. The advantage of this apparatus is that fewer hospital beds would have been occupied because the treatment is done near mother at home.

- Control Panel: which displays Treatment time, Led lifetime and low battery
- High-performance phototherapy
- Automated therapy: Once the therapy duration runs out, the device stops the therapy automatically
- Additional Specification:

Dimension , weight	Weight	6Kg
Alarm	End of Treatment	Audible and visible
	Line Interruption	Audible
	Low battery	Audible and visible
	End of LEDs' lifespan	Audible and visible
Operating parameters	LED tube	4 (9W)
	LED tube code	T8-600B02
	Digital Display	
	Lifespan of the LED tube	30000 hours
	Treatment time adjustment	
	Exposure angle	45°
Electrical parameters	Voltage	220 V , 50Hz , 1A
	Power	50 W



Infant Radiant Warmer 083

Infant intensive postnatal care

During the first hours and days of life, new born and premature infants primarily need warmth, comfort and closest possible contact to their parents. The Infant Radiant Warmer 083 has been developed for these very specific conditions and offers unimpeded access for diagnostic and therapeutic measures as well as care treatments.

Long wave infrared radiation is not visible and takes smooth effect on the epidermis, the subjacent dermis and the bloodstream.

- Always the right climate
- Control Panel: which displays Skin Temperature, Treatment time, Suction, Alarms, Heater’s power
- Heat control
- Gentle soft-lift height adjustment
- Homogeneous illumination
- Focus on the patient
- Functional wall assembly: The walls can be folded up and down by one hand.
- Built in convenient storage: two drawers of the Infant warmer are accessible easily from sides
- Additional Specification:

Dimension , weight	Weight	135 Kg
	Dimension of patient deck	780*680 mm
	Height of patient deck	875-1050 mm
Alarms	Skin sensor error	Audible and visible
	Skin temperature overheat	Audible and visible
	Temperature set deviation	Audible and visible
	Power failure	Audible and visible
	Low battery	visible
	Cut-out	Audible and visible
	Line Interruption	Audible
Operating parameters	Mechanical tray tilting	Up to 12 degree front and rear
	Heat power indicator	10% to 100%
	LED Lamp	2*10 Watt
	Temperature range	28°C to 39.3°C
	Controllable temperature range	28°C to 37°C
Electrical parameters	Voltage	200-240 V
	Maximum power input (with maximum power to sockets)	1100 W
Facility	Monitor tray	
	Radiology cassette	
	Rotary head while radiology	
	Adjustable oxygen flow	
	Adjustable suction vacuum	

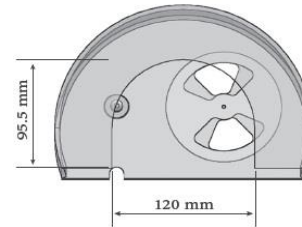


Oxygen Hoods

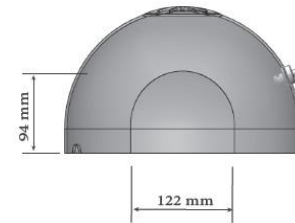
During the first hours and days of life, new born with heart or lung problems may need to breathe increased amount of oxygen to get normal levels of oxygen in their blood. Our Oxygen Hoods have been developed for these very specific conditions and oxygen therapy provides Neonatal with extra oxygen.

○ Additional Specification:

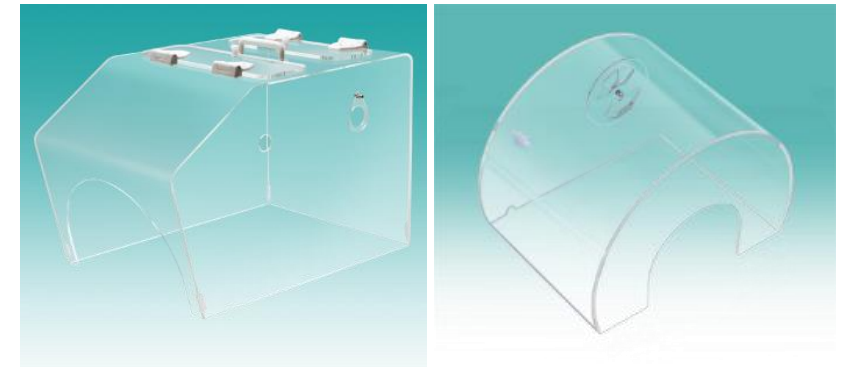
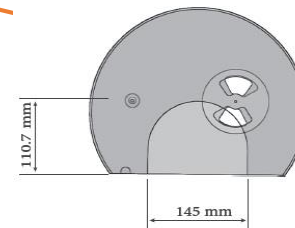
Oxygen Hood Model 041		
Dimension and Weight	Weight	530 g
	Compartment volume	4.5 litter
	Crater height	95.5 mm
	Crater width	120 mm



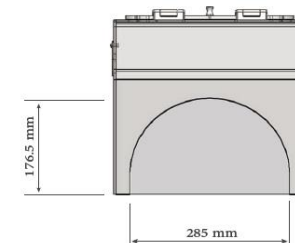
Oxygen Hood Model 042		
Dimension and Weight	Weight	340 g
	Compartment volume	6.5litter
	Crater height	94 mm
	Crater width	122 mm



Oxygen Hood Model 044		
Dimension and Weight	Weight	1000 g
	Compartment volume	12.3 litter
	Crater height	110.70 mm
	Crater width	145 mm



Oxygen Hood Model 047		
Dimension and Weight	Weight	1200 g
	Compartment volume	5 litter
	Crater height	176.50mm
	Crater width	285 mm



1-2

Cardiovascular Diagnostic Devices

- **Infants Heart Failure Diagnostic Device**



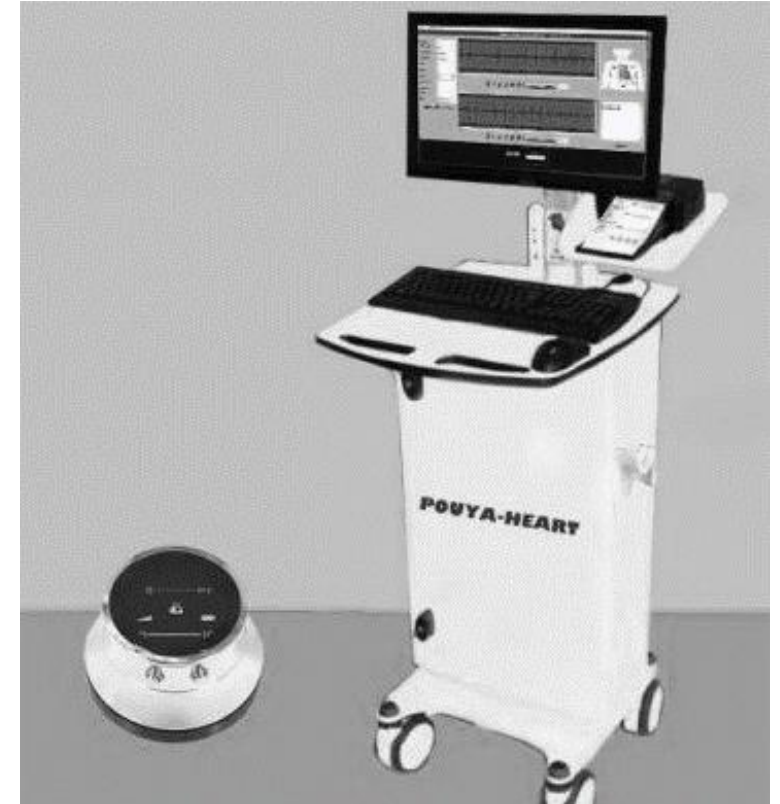
Pouya-Heart Diagnostic Device

Automated digital phonocardiograph, POUYA-Heart is an auscultation device for automatically screening children's heart diseases. The screening accuracy of the digital phonocardiograph, POUYA-Heart, is by far higher than the accuracy of a typical pediatric cardiologist who invokes conventional auscultation or even computer-assisted auscultation.

A large number of pediatric referrals for cardiac evaluation have normal hearts. Besides, pathological symptoms are sometimes neglected during conventional auscultation due to incapability exists in human auditory system, such as masking effect. To find solution to these problems, we have done an elaborated international research and development for 21 years with close contact with engineering schools and children's university hospitals.

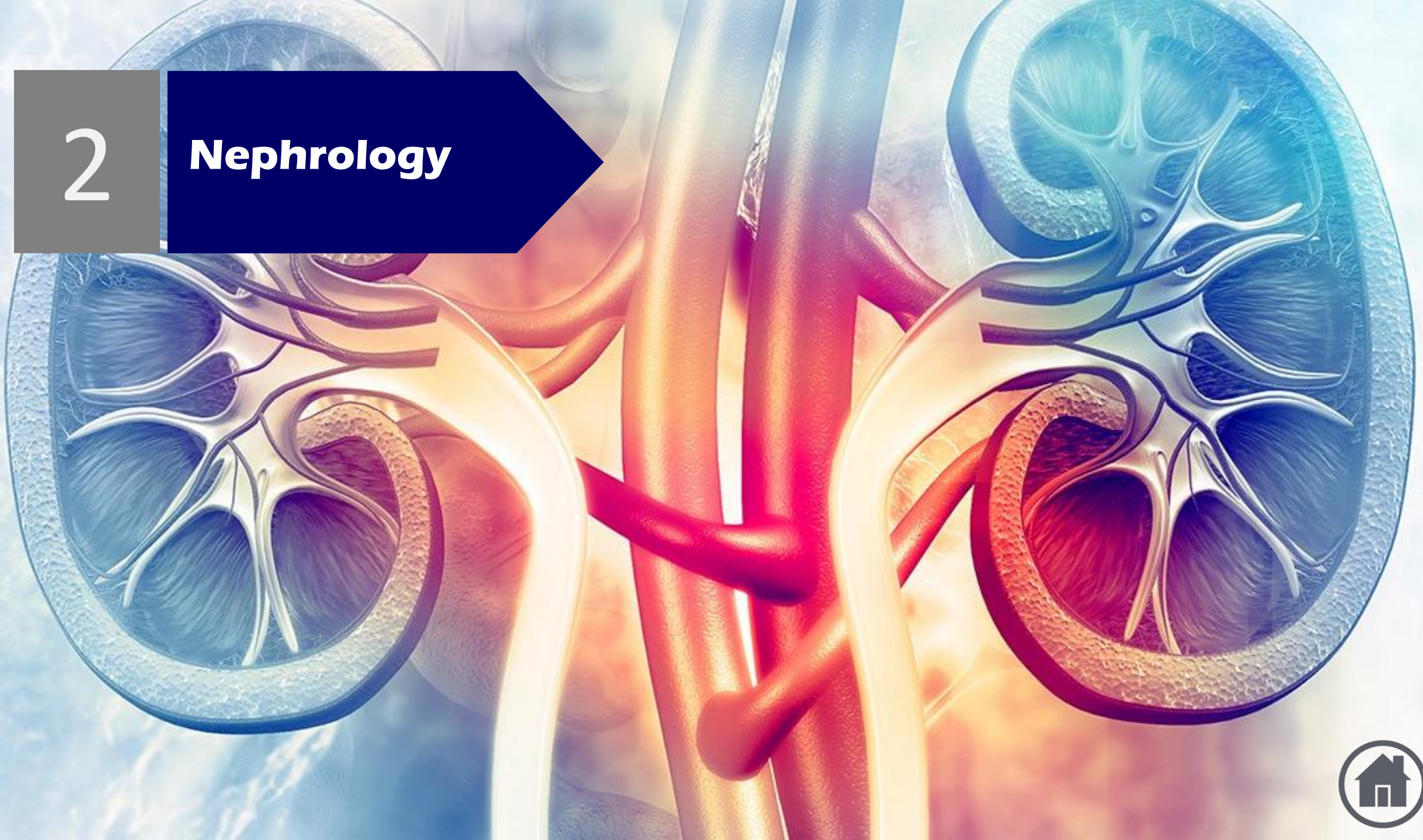
Discriminating Between Different Heart Sound Another interesting capabilities of the system is its discrimination power in distinguishing innocent murmurs from the pathological murmurs.

Beside automated screening, as an intelligent digital phonocardiograph, POUYA-Heart also provides different options such as, listening and playback of recorded heart sounds with adjustable intensity levels, various selectable time scales for viewing the whole or part of a sound cycle, it shows the diagnosing results, segmentations and other characteristics of the signals. POUYA-Heart also provides the possibility of recording sound signals from different locations, ULSB, URSB, LLSB, and APAX.



2

Nephrology



2-1

Dialysis Field

- **Hemodialysis Machine**
- **Central Reverse Osmosis Water Purifier Systems**
- **Portable Reverse Osmosis Water Purifier Machine**



Hemodialysis Machine ATF1022

- Touchscreen monitor
- Blood pressure sensor on intake
- Data logging and saving data files/log files for each dialysis session
- Printable graphic dialysis result sheet at the end of hemodialysis process
- Programmable for three types of disinfection operations (Chemical, Thermal and Combined)
- Ability to compute and measure KT/V during hemodialysis process (Online Clearance Monitoring/OCM)
- Adjustable settings for UF and Sodium profiles
- Audio and voice alarms
- 45 minutes' battery backup

Comfort control	35-38	°C
Temperature alarm limits	± 0.5	°C
Conductivity range	12-16 (adjustable)	ms/cm
Flow	(100)-(800)	mL/min
Transmembrane pressure, mm Hg Rx dialysis	Up to (+500)	mmH
Bicarbonate	Yes (2.5)-(3.8)	
Ultrafiltration removal rate	(0.1)-(2)	L/h
Arterial pressure	(-250)-(+250)	mm Hg
Venous pressure	(-100)-(+500)	mm Hg
Blood pump range	50-500	mL/min
Heparin pump range	0.5-10	mL/hr



Central RO Water Purifier Systems

- Automatic washing cycles (Auto Flush)
- Recycling of produced water and prevention of excessive sewage
- Digital sensors for inlet water and sewage flow rate
- Digital sensors for pre-purifier and membrane pressure
- sensor for conductivity, TDS and water temperature
- Audio alarm and automatic function in case of disruption
- Easy access to parts for maintenance and repairs

Device Identification		
Name	Central Reverse Osmosis (R.O.) Water Purifier	
Models	AVISA-400, AVISA-800, AVISA-1200, AVISA-1600, AVISA-2000	
Nominal Capacity	400 to 2000 liter/hr. , suitable for 6 to 30 dialysis bed	
Standard	Based on Medical Equipment Standards IEC60601-1	
R.O. Main Unit		
Dimensions (Width× depth× height)	1500 mm× 660 mm× 500 mm	
Pressure Vessel	Stainless Steel or Fiberglass	
Bypass Valve	To control intake water to membrane	
Multistage Pump	High Quality Stainless Steel pump	
Produced Water Specifications		
Capacity	400 to 2000	Lit/hr
Outflow Pressure	2-4, Adjustable	Bar
Recovery percentage	70-85	%
Standards	ANSI/AAMI RD62	



Portable RO Water Purifier Machine

Portable R.O. machine, designed for standalone hemodialysis station. This unit is suitable for Home Dialysis and/or CCU/ICU utilization. Avisia100 fulfills all requirements for microbiological purity and economic performance.

- Automatic washing cycles; at start-up of the unit and also during unit stand-up period, ensures microbiological purity.
- initial testing of all components and actuators at start-up of the unit
- Audio alarm and automatic function in case of disruption of inlet water
- Recycling of produced water and prevention of excessive sewage

Device Identification		
Name	Portable Reverse Osmosis (R.O.) Water Purifier	
Models	AVISIA-100	
Nominal Capacity	100 liter/hr. , suitable for 1-2 dialysis bed	
Standard	Based on Medical Equipment Standards IEC60601-1	
Physical Features		
Weight	40 kg	
Dimension (width × depth × height)	500 mm × 30 mm × 70 mm	
Main Body Material	Steel Sheet with electrostatic color	
Display	Touch Screen , 5.7 inch	
Produced Water Specifications		
Outflow Pressure	2-4, Adjustable	Bar
Recovery percentage	70-85	%
Standards	ANSI/AAMI RD62	



3

Neurology



3-1

Neurological Diagnostic Devices

- **EEG Devices**
 - **EEG-3840**
 - **Portable 3840**
- **EMG Devices**
 - **EMG/NCV/EP 5000Q**
 - **EMG/NCV/EP 5000Q-Pro Portable**



EEG-3840

It is a strong, high quality, and user friendly EEG system with flexible configuration on 24 and 32 channels and optional functions such as, 8 extra channels and Surface EMG and ECG.

Hardware:

- Routine or clinical EEG 3840 contains the following parts:
- 24 or 32 channel Head box with its cable (EEG Cable)
- Interfacing box
- Photic stimulator and its cable
- Isolation transformer (if required)
- PC in case of requires (with Microsoft Windows XP/Vista/Seven Professional operating system and EEG application software)
- Trolley (if required)
- Printer (if required)
- EEG accessories
- Optional video EEG recording (if required)

Software:

- Programmable functions include: ~~Montage Manager~~ and figures, Montage Editor, filters, scales, time division, EEG process pattern (stimulator, and HV patterns), review and recording panels, reanalysis tools, video EEG data extraction, ASCII data extraction, editable report generator.
- Event detector and navigator, events summary and navigation at a glance.
- High Quality video recording, analog zoom, time stamp, programmable review speed, data selection and storage, easy annotation and data selection.
- Programmable systems default values such as sample rate, channels number, low and high pass filters, time scales, and sensitivities, annotation, selection, and report texts.
- Test results can be reviewed even electronically or in printed format. User has the opportunity in printing selected parts of the recorded signals.
- Brain Mapping (for selected or whole EEG data).
- Impedance Checking.
- Available with either laptop or PC.



EEG Portable 3840

EEG Portable 3840 has all you need for a portable device: ultra-low noise, easy and fast to use in Emergency and ICU rooms. It is a strong, high quality, and user friendly EEG system with 22 EEG and 1 ECG channels.

Hardware:

Routine or clinical EEG 3840 contains the following parts:

- 22 EEG Channel + 1 ECG Channel Head Box
- Photic stimulator and its cable
- Laptop (with Microsoft Windows XP/Vista/Seven Professional operating system and EEG application software)
- EEG accessories
- Easy cap (if required)
- Optional video EEG recording (if required)
- Hardware Specifications: CMRR > 100 dB; Sensitivity 10 μ V – 2 mV; Noise Level < 2 μ V; Frequency 0.16 – 500 Hz; Programmable Sample Rate 500 – 3000 Hz.

Software:

- Programmable functions include: Montage Manager and figures, Montage Editor, filters, scales, time division, EEG process pattern (stimulator, and HV patterns), review and recording panels, reanalysis tools, video EEG data extraction, ASCII data extraction, editable report generator.
- Event detector and navigator, events summary and navigation at a glance.
- High Quality video recording, analog zoom, time stamp, programmable review speed, data selection and storage, easy annotation and data selection.
- Programmable systems default values such as sample rate, channels number, low and high pass filters, time scales, and sensitivities, annotation, selection, and report texts.
- Test results can be reviewed even electronically or in printed format. User has the opportunity in printing selected parts of the recorded signals.
- Brain Mapping (for selected or whole EEG data).
- Impedance Checking (also available by using a button on the head box).



EMG/NCV/EP 5000Q

MG/NCV/EP 5000Q Manufacturing is a full featured diagnostic EMG system with a low noise high performance amplifier and state-of-the-art software features. This system can be configured for 2 channels (configuring for 4 channels is optional).

In following, there are the list of the tests which can be taken:

- Needle EMG
- Sensory NCV
- Motor NCV
- F Wave
- H reflex
- RNS (Repetitive Nerve Stimulation)
- Blink Reflex
- Visual Evoked Potential
- Auditory Evoked Potential
- Somatosensory Evoked Potential

Technical Specifications:

- Accuracy: Time measurement error: less than 5%; Amplitude measurement error: less than 5%
- 2, 4 Channel EMG and EMG/EP Systems
- Input Impedance: >1000M OHM, < 30pF; CMRR >100dB; Noise < 5 μ V r.m.s
- Low Cut (-6dB/octave) 0.1, 1, 3, 10,, 30,100, 200, 300, 400, 500, 1000, 2000Hz
- High Cut (-12dB/Octave) 40, 50, 60, 80, 100, 200, 300,400, 500 Hz; 1, 2, 3, 10, 20 KHz
- Notch Filter 50Hz/60 Hz Selectable
- A-D Conversion 12 Bit ADC
- Sweep Duration 1ms to 1s per channel
- Average Double buffer averaging with choice of display modes
- Display Customer option; Display Sensitivity 0.2 μ V to 30mV/div
- Power Requirements: Input 100-220 volts 50Hz/60HZ
- Approx. 500VA max (dependent on configuration)



EMG/NCV/EP 5000Q & 5000Q-Pro Portable

EMG/NCV/EP 5000Q Portable Features:

- Ultra Slim Portable EMG system with light weight and easy to port
- 2-channel Low noise amplifier
- Easy to setup and state-of-the-art software development.
- Generating customize report in Word, PDF, or Video.

EMG/NCV/EP 5000Q-Pro Portable Features:

- Portable EMG system with Light weigh and easy to port
- 2 or 4 channel Low noise amplifier
- Designed to achieve the high flexibility, portability.
- Easy to setup and State of the Art software Development.
- Generating customize report in world, PDF, or Video.
- Compact and efficient user interface



4

Cardiology



4-1

Cardiovascular Surgery

- **Open Heart Surgery**
 - **ACT Kit**
 - **Sternum Sutures**



ACT Kit (Activated Clotting Time Kit)

ACT Kit (Activated Clotting Time Kit) is one of the most used Point of Care (POC) type tests, which in cases such as open-heart surgery with an oxygenator pump, angioplasty, electrophysiology and some other cardiovascular interventions, in order to monitor the effect of anticoagulant heparin is used. For this purpose, devices and kits are made by the world's leading brands, such as Medtronic, which accelerates and increases the accuracy of this test.

One of the most critical and key technologies for this test is the diagnostic kit, consisting of a polymer cartridge set, containing an activating reagent within a cuvette.



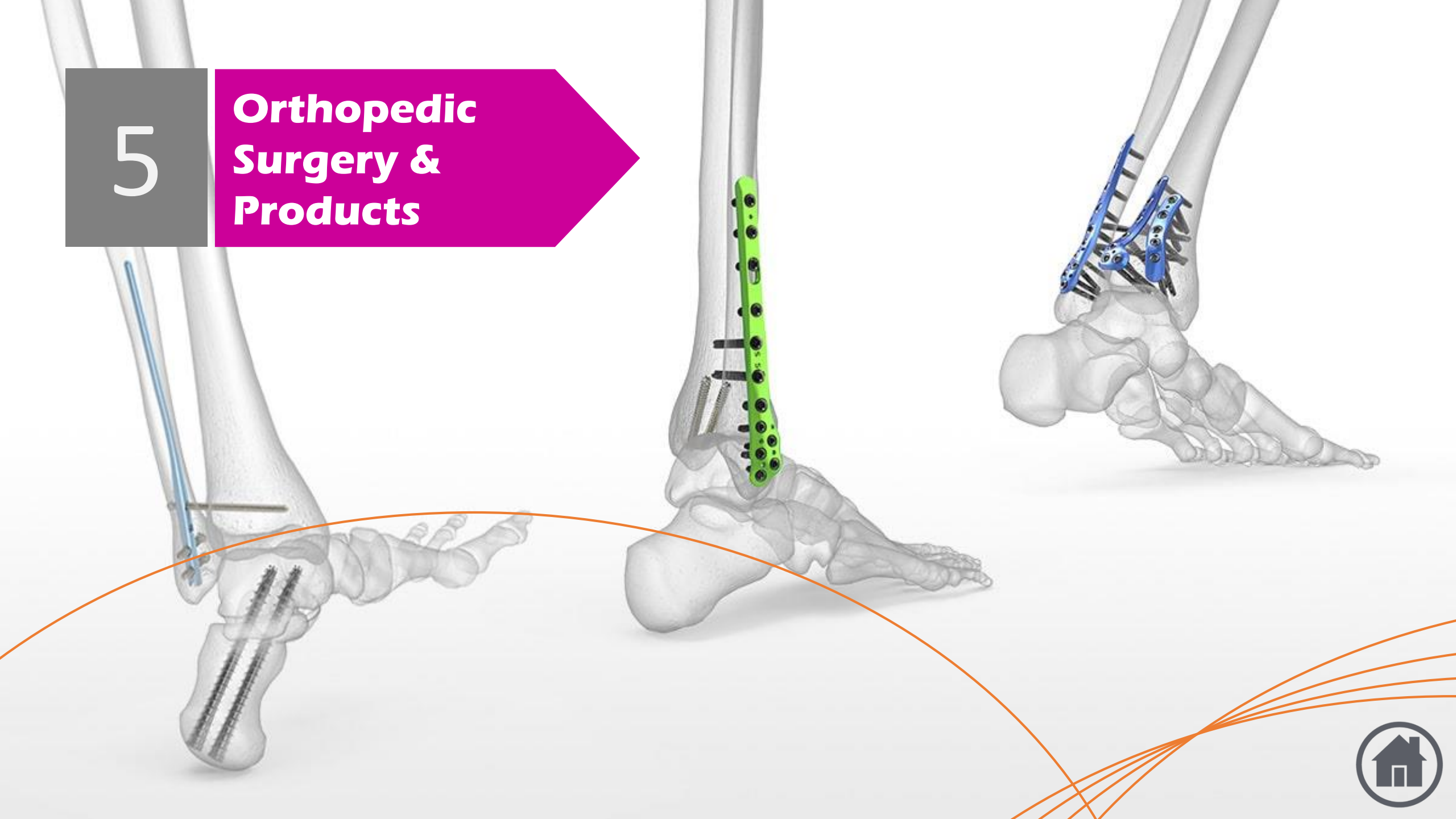
Sternal suture (steel suture)

The most common tool used for clamping the chest sternum in open heart surgery is a non-absorbable metallic suture, known as Sternal Suture. This suture often remains in the patient's body for life, thus it requires to be resistant to corrosion and maintain long-term tensile strength. Bio-compatibility, non-sensitivity, non-poisonous, and non-infectious are also other important factors in its function. These metallic sutures can be monitored by X-rays.



5

Orthopedic Surgery & Products



- **Spine Surgery**
 - **Set Screw & Rod**
 - **Thoracolumbar Products**
 - **Cervical Anterior Plate**
 - **Domino**
 - **Cervical Peek Cages**
 - **TLIF & PLIF Peek Cages**



Set Screw & Rod

Set Screw (Nut)

Ref. No	Size
106-10-00	10 mm



Rod

- Diameter: 5.5 mm
- Hex Head

Ref. No	Size
108-55-08	L 8
108-55-10	L 10
108-55-12	L 12
108-55-14	L 14
108-55-16	L 16
108-55-18	L 18

Ref. No	Size
108-55-20	L 20
108-55-30	L 30
108-55-40	L 40
108-55-50	L 50
108-55-60	L 60



Thoracolumbar Products

Cross Link

Ref. No	Range	Size
103-27-00	25-30 mm	27.5 mm
103-35-00	30-40 mm	35 mm
103-45-00	40-50 mm	45 mm
103-55-00	50-60 mm	55 mm
103-65-00	60-70 mm	65 mm



Cross Link

Ref. No	Range	Size
104-27-00	25-30 mm	27.5 mm
104-35-00	30-40 mm	35 mm
104-45-00	40-50 mm	45 mm
104-55-00	50-60 mm	55 mm
104-65-00	60-70 mm	65 mm



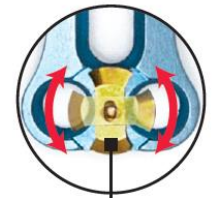
BACK



CONTACT US

Cervical Anterior Plate

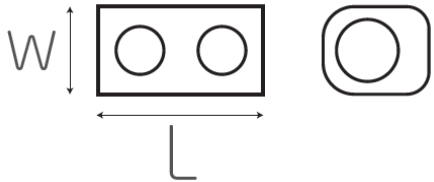
- Low profile
- Biocompatible titanium material
- Designed in accordance with lordosis of neck
- Wide measurement range
- Easy and quick locking
- Implantation of the desired angles
- 2 mm thickness



Domino

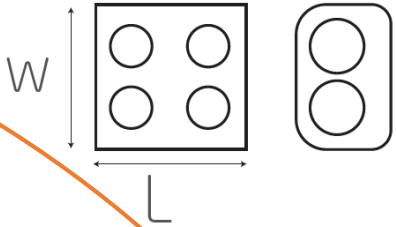
Domino 1 Hole

Ref. No	Size
D.1608.01	W 8.6 / L 16



Domino 2 Holes

Ref. No	Size
D.1615.02	W 15.1 / L 16



BACK



CONTACT US

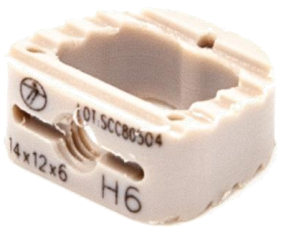
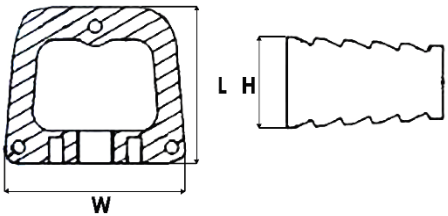


Cervical Peek Cages

Cervical Peek Cage

- Titanium markers.
- Maximum graft area.
- Trial and openers.
- Implantation at one time.

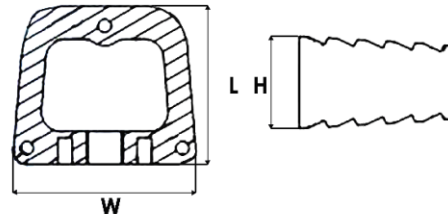
Ref. No	Width	Length	Height
C.1214.05	14 mm	12 mm	5 mm
C.1214.06	14 mm	12 mm	6 mm
C.1214.07	14 mm	12 mm	7 mm
C.1214.08	14 mm	12 mm	8 mm



Locking Cervical Cage (With Blade)

- 7o Angle
- Titanium markers
- Maximum graft area
- Trial and openers
- Implantation at one time
- User handle friendly
- Special blade design

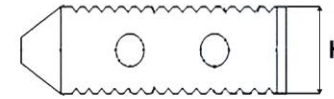
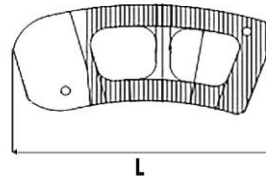
Ref. No	Width	Length	Height
C.1214.05	14 mm	12 mm	5 mm
C.1214.06	14 mm	12 mm	6 mm
C.1214.07	14 mm	12 mm	7 mm
C.1214.08	14 mm	12 mm	8 mm



TLIF & PLIF Peek Cages

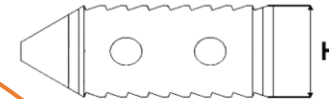
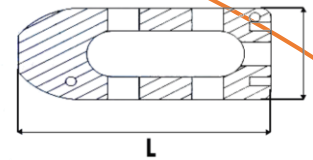
PLIF Peek Cage

- Implantation at one time
- Strong and sturdy body structure
- Special tooth form
- Maximum graft area
- Excellent anatomic design



PLIF Peek Cage

- Safe and fast implantation
- Easy use with the anatomical structure
- Angle measurement option



6

Ophthalmology



6-1

Eye Surgery

- **Lens Injection Systems**
- **Brilliant Blue**
- **Endo illumination Probe**
- **PFCL (Decaline)**
- **Tamponade**
- **Retractor**

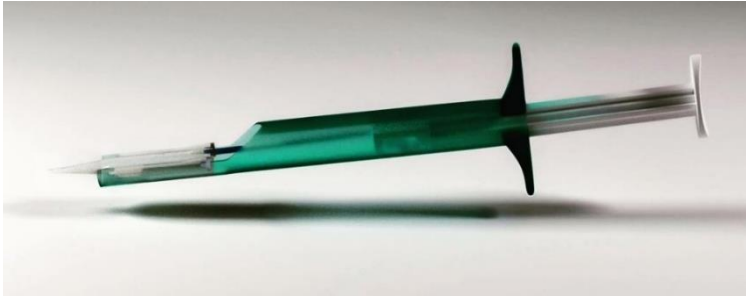


Lens Injection Systems



the Butterfly injector and cartridge system (Sunject, packed, sterilized) represents yet another advancement for safe and effective micro-incision cataract surgery. Not only the surgeons but also the theater nurses can do the loading of the lens easily and smoothly. The unique design of this injector and cartridge ensures the accurate positioning of the lens and therefore lead into a secure and precise position for a perfect lens delivery into the eye. Lens insertion is gentle and even without the lens wedging or twisting. Sunject guarantees a gradual controlled release, and consequently a correct positioning in the eye. Sunject provides maximum safety with remarkably improved efficiency. The lens can be loaded quickly and precisely via guiding rails. Sunject single-use injector-sets with or without lock come sterile packed in dispenser boxes of 10 sets.

	Size 2.2 mm	Size 2.8 mm	Size 3.2 mm
Hydrophilic power	0 -25		0-34
Hydrophobic power	o - 22	0 - 30	0 -34



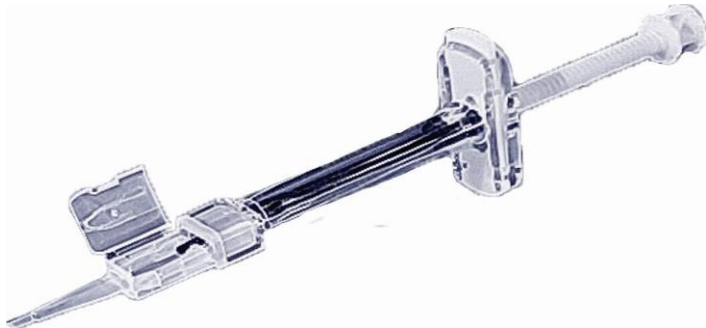
	Size 1.8mm	Size 2.2 mm	Size 2.8 mm	Size 3.2 mm
Hydrophilic power	0 -28	0 — 34	0 — 34	0-34
Hydrophobic power	o - 22	0 - 25	0 - 30	o -34



Lens Injection Systems

Eyesun preloaded ject's latest addition to the PRELOADED JECT family is the PRELOADED JECT SCREW injection system. This is a single-use screw-type injector with a new design plunger and is available for incisions of 2.2 mm to 3.2 mm and it can be used for Hydrophobic IOLs as well.

With a further enhancement of the PRELOADED J ECT Injection System, we introduce the newly developed loading chamber which includes a supreme technology for back loading any type of hydrophobic lens.



	Size 2.2 mm	Size 2.8 mm	Size 3.2 mm
Hydrophobic power	-5 to 22	-5 to 28	-5 to 34

Brilliant Blue

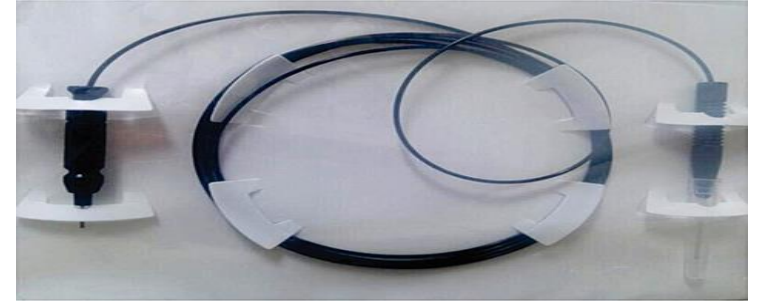
Brilliant Blue G is used in an ophthalmic solution for staining the internal limiting membrane (ILM) of the eye during ophthalmic procedures. This membrane is thin and translucent, making it difficult to identify during eye surgeries that require high levels of visual accuracy.

- Precise and intense staining of the ILM due to fast sinking dye
- Safe application under air and BSS Quick and easy application (Ready-to-use)
- Physiological osmolality
- Sterilized
- Biocompatible



Endoillumination Probe

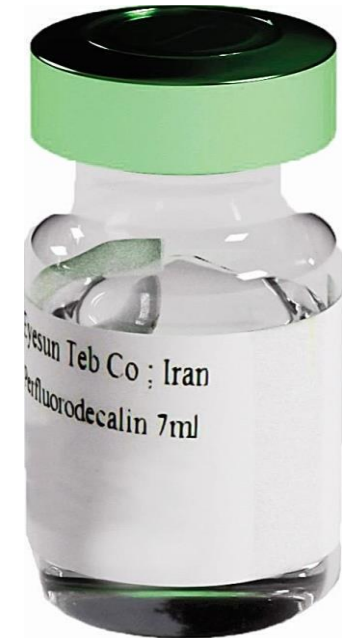
- **Used in vitrectomy Surgery**
- **20 & 23 gauges**
- **Light Pipe (Standard) - Wide Pipe - Chandelier for ALCON -DORC- & High quality ; 10 / BOX**
- **Sterile : EO**



PFCL (Decaline)

Perfluorocarbon Liquid or PFCL is labeled for use in primary or recurrent RD complicated by giant retinal tear, proliferative vitreoretinopathy, and penetrating ocular trauma. It is also used in other conditions to stabilize the retina and to identify breaks in regular RD, to float a dislocated crystalline lens or intraocular lens, and to evacuate hemorrhage from the subretinal or suprachoroidal space.

- Perfluorodecaline fluid
- Used for vitrectomy surgery High quality
- 7 ml & 5 ml ; Sterile



Tamponade (Sf6 Gas)

Sulphur Hexafluoride (SF_6) is a man-made gas comprising of one Sulphur and six fluoride atoms. Key properties of the gas are that it is extremely chemically stable and has a relatively high density. At the end of the vitrectomy surgery, the ophthalmologist is required to fill the space left by the vitreous gel. This can be achieved by injecting a small amount of SF_6 gas into the eye, in order to maintain the pressure required to allow the retina to remain in place and adequately heal. Due to the high density of the SF_6 gas the body is unable to absorb it for 3-4 weeks. In comparison, air takes only 1-3 weeks, which does not allow the eye sufficient time to repair.

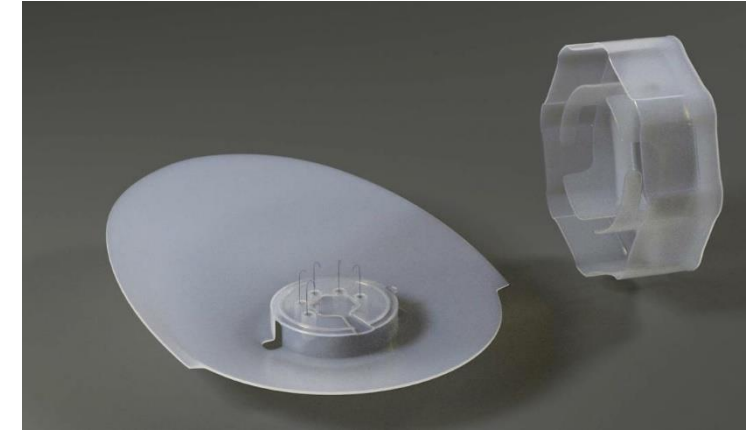
- Sulfur Hexafluoride 99.99%
- Medical gas
- Used for Vitrectomy surgery
- Capacity: 50 ml & 80 ml
- Sterile: EO



Retractor

Flexible iris retractors are used for temporary retraction (pupil enlargement) of the iris where dilation cannot be achieved pharmacologically. This technique minimizes further iris prolapse and damage to the iris by the phacoemulsification needle, as well as increasing the space accessible by the phacoemulsification needle.

- Iris Retractors / Iris Hooks Flexible Hooks used to increase pupillary diameter during surgery.
The attached silicon stopper allows better grip and easy adjustment of pupil size.
- provided in a sterile pack of 5 pcs



6-2

Treatment of Visual Impairment

- **Amblyopia (Lazy eye) treatment**



Amblyopia (Lazy eye) treatment package

Our goal is to improve and accelerate the recovery process of lazy eye, using virtual reality technology.

Amblyopia (Lazy eye) impairs vision in one eye due to inadequate coordination between the eyes and the brain. Lack of image clarity in the lazy eye and the better image created in a healthy eye causes the brain to choose a healthier eye to see between the two eyes and in fact, blocks the path of sending an image from the patient's eye to the brain or so-called turn off patient's vision.

Out of every 100 children, almost 3-5 of them suffer from low vision or complete blindness due to lazy eye and lack of prevention.

The most current treatments for this disease include using eye patches and atropine drops, but these methods increase the risk of damage to a healthier eye despite the time-consuming treatment process.

This package uses intelligent systems and special treatment algorithms based on artificial intelligence in a virtual reality environment. Game therapy helps the recovery of lazy eye and informs you about the recovery process by providing periodic reports during the treatment process.

Cyclops cures lazy eye with a leading unique technique with the least amount of time and using the most attractive games and animations, just install the exclusive app on your mobile phone and then put it inside our virtual reality glasses.



7

Dental



7-1

Dental Materials

- **Alum-Stop (Aluminum Chloride 25%)**
- **Calcium Hydroxide**
- **Cera-Etch (Hydrofluoric Acid Gel)**
- **17% EDTA Solution & Gel**
- **Hypo-Endox**
- **Endo-Cal (Calcium Hydroxide Paste)**
- **Eugenol**
- **Morva Etch**
- **Morva Prep (EDTA Cream)**
- **Morva-Sept (Chlorhexidine 2%)**
- **Tempo-Cem**
- **Zinc Oxide**
- **ZOE (Zinc Oxide-Eugenol)**



Alum-Stop (Aluminum Chloride 25%)

Tissue management is a key challenge during indirect procedures. The right choice of dental hemostatic agents can make all the difference. Hemoban™ Gel 25% Aluminum Chloride Hemostatic Solution provides a clinically better way to achieve fluid control and reduce the risk of secondary bleeding.

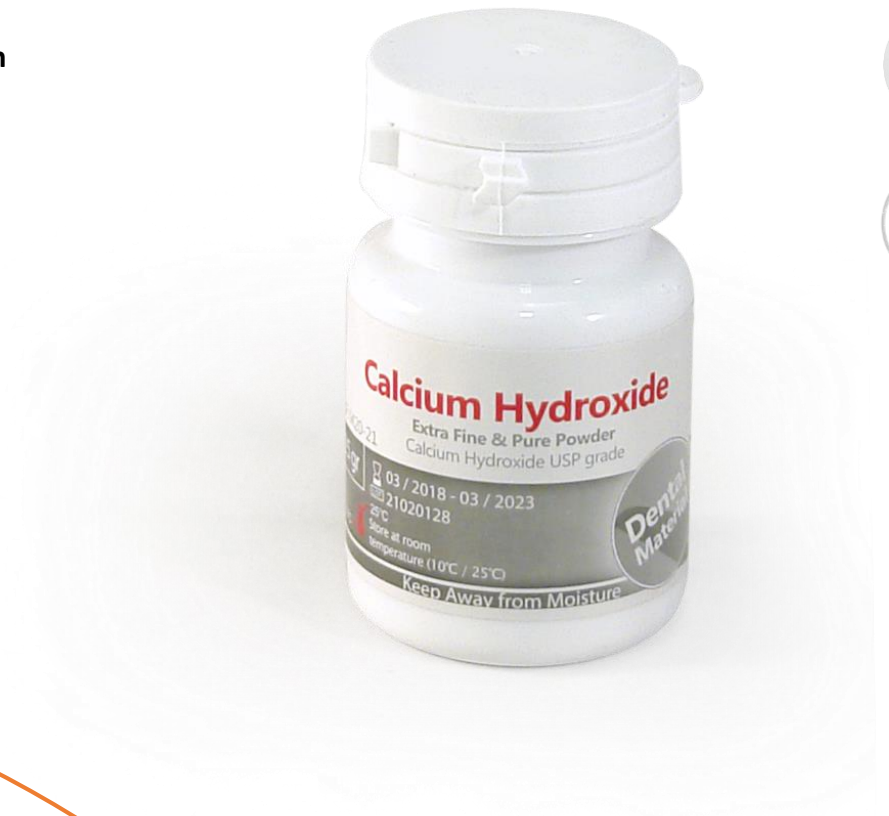
- Colorless gel for better performance
- without leaving any stains or Colors
- Good viscosity without spreading
- No interaction with bonding agent



Calcium Hydroxide

Calcium Hydroxide is used as a cavity liner, cement base, root canal filling material, direct and indirect pulp capping material in restorative dentistry. This material also helps in the formation of reparative dentine.

- Calcium Hydroxide
- Powder for root canal treatment Ideal for use as a temporary root canal filler
- Fine powder
- USP Grade
- Antibacterial



Cera-Etch (Hydrofluoric Acid Gel)

Hydrofluoric Acid (HF) acid usually is used to etch the internal surface of the ceramic restoration. This acid increases surface relief in micromechanical bonding of resin cement to ceramic restoration. In dentistry, Cera-Etch gel (Hydrofluoric Acid gel) is used for porcelain and ceramic restorations inside of the mouth. Its use should be done with caution.

- Suitable yellow pigment with easy cleaning ability
- Appropriate gel viscosity for injection



17% EDTA Solution & Gel

Intended for chemo-mechanical root canal preparation, EDTA 17 % solution is an effective calcium binding or chelating agent used to facilitate instrumentation of root canals and for smear layer removal. The solution decalcifies the canal walls making it easier to enlarge and shape the canal with files and reamers.

- 17% EDTA Solution and gel
- For irrigation during endodontic therapy
- Chelating effect of EDTA make root canal softened calcium dissolved DTA%17 Solution
- Easy to enlarge the canal and clean it
- Excellent for final rinse



Hypo-Endox

Hypo-Endox 5.25% solution Sodium Hypochlorite 5.25%

- Effective Disinfectant
- Efficient and significant reduction of microorganism
- Dissolve the organic matter present in the root canal
- During mechanical canal widening %s.2S it removes the non-vital pupl debris e
- Removal of dead tissues
- Effective destruction of microbial biofilms and old biofilms
- It can be dissolved necrotic tissue and abscess and can be disinfected deep layers



Endo-Cal (Calcium Hydroxide Paste)

- Ready to use and contains Radiopack material
- Suitable for filling infected dental canals
- Strong antibacterial activity up to 72 hours
- Continuous release of Calcium ions into the root canal tissue
- Appropriate paste viscosity for channel injection
- Stay in the mouth for up to 10 days



Eugenol

- Pure USP grade
- Antiseptic, Analgesic and Sedative essential.
- Antisepsis of the root-canal
- Treatment of dry socket that may develop after extraction
- Temporary obscuration of the root-canal where pulp is partially exposed
- Treatment of exposed pulp



Morva Etch

Acid etching is the use of an acidic substance to prepare the tooth's natural enamel for the application of an adhesive. The acid roughens the surface microscopically, increasing retention of resin sealant. Etching of dental enamel with acid removes the smear layer and opens enamel tubules.

- (Phosphoric Acid gel) Total Etching gel
- Suitable blue pigment with easy cleaning ability with water
- Appropriate gel viscosity for injection
- Easy to use for the dentist without prior preparation



Morva Prep (EDTA Cream)

- Contains of 15% EDTA, 10% Urea Hydrogen Peroxide
- Root canal cleaning, widening and Chemo-mechanical preparation
- Removal of smear layer in canal
- Ideal product for cleansing and preparation of canal by using of files
- Appropriate for tight canals in posterior tooth
- Softening of dentin canal



Morva-Sept (Chlorhexidine 2%)

Morva-Sept solution and gel (Chlorhexidine 2%) Effective Disinfectant

- Effective elimination of dangerous *Candida albicans* colonies in 30 seconds
- Effective rinsing within the root canal
- Removal of dead and pus tissues
- Effective destruction of microbial biofilms and old biofilms
- Significant and effective reduction of micro-organisms
- No toxic effect on soft gum tissue
- Persistence of antimicrobial efficacy in root canal for up to 72 hours and up to 2 weeks
- Ability to absorb and attach live tooth tissue and efficacy during treatment



Tempo-Cem

2-part temporary cement-Zinc Oxide paste with Eugenol gel

- Zinc oxide based paste with resin and accelerator and an Eugenol gel based on eugenol a EBA
- Non-interference with permanent cement
- Easy removal unlike high bond strength
- Chew-resistant seal, repair, prevent penetration
- Easy handling



Zinc Oxide

powder For making and filling dental paste

- Fine powder
- USP grade
- Mild antibacterial effect



BACK



CONTACT US

ZOE (Zinc Oxide-Eugenol)

Zinc oxide eugenol (ZOE) is a material created by the combination of zinc oxide and eugenol contained in oil of cloves. An acid-base reaction takes place with the formation of zinc eugenolate chelate. The reaction is catalysed by water and is accelerated by the presence of metal salts. ZOE can be used as a dental filling material or dental cement in dentistry. It is often used in dentistry when the decay is very deep or very close to the nerve or pulp chamber.

- Temporary dental cement that has analgesic properties
- Quick setting time
- Pulp protection
- Temporary dressing and temporary filler
- High resistance
- Low solubility



8

Hospital Furniture, Infrastructure, Logistics & Services



8-1

Cleaning & Disinfection

- **Endoscope Washer**
- **Automatic Bedpan Washer**
- **Waste Paper Shredder**
- **Washer & Disinfector**
- **Dental Instrument Washer & Disinfector**
- **Drying & Storage Cabinet for Endoscopy**
- **Pulp Dishes**
- **Medical Refrigerators**



Endoscope Washer

No.	Features	Description
1	Function	Leak test 1.Washing by cold water & detergents inside & outside the endoscope 2.Immersion in high level Liquid & disinfection inside & outside the endoscope 3.Final rinse inside and outside the endoscope device 4.Alcohol injection to speed up drying of the work & air channel 5.Use filtered air (HEPA) in endoscope work & air channel
2	Cabin	1.Structure : Stainless Steel profile 20 * 20 (mm) 2.Cabinet : AISI 304 sheet 3.Sink and Front Panel : Anti-acid ABS 4.Door : Plaxy Glass
3	Fitting & pipes	AISI and Brass
4	Nozzle	Spray Arm To wash all endoscope points
5	Operation Of Door	1.Electric jack 2.Lower ocular for easy opening of the door without interference by hand or foot involvement
6	Chambers	2 Stainless steel separate chambers for detergents and high level liquid
7	Dimensions	Height 110 , Depth 72, Length 68 CM
8	Consuming water	20 to 40 liters of water depending on the choice of different program
9	Alarms	1.Door openness 2.Lack of liquid detergent and disinfectant 3.Blockage 4.Expire time of disinfectant 5.Counter of the number of times the disinfectant is used 6.Disrupt the internal channel washing function. SV – inlet 7.Disconnect the internal channel wash and disinfection connector
10	Leak test	Digital control of internal channel air pressure and audible error notification
11	Accessories	1.Printer for record device performance 2.Alcohol chamber 3.Foot sensor for operating of door 4.Leakage test 5.portable
12	weight	85kg
13	Power	220V single phase & 1 KW max



Automatic Bedpan Washer

No	Feature	Description
1	Function	<ul style="list-style-type: none"> •Washing with cold water •Washing with warm water •90° steam disinfection •Cold water rinse
2	structure	Profil (20*20) AISI profil (30*20)
3	cabin	AISI304
4	Water tank	AISI304
5	Piping system	High pressure hose up to 10 times
6	Water pump	PEDROLLO (1hp) /Pentax pump
7	Water level controller inside the tank	Adjustable electrical controler for up / down level
8	Electrical controler system	Programmable micro controler . PLC delta model
9	Display and control panel	Touch HMI, Water and scratch resistant display dimension 3/5 inch
10	Ped pan holder and pipe holder	Steel rebar with chromium coating
11	Boiler	AISI304, 3litre
12	Element	3 kw
13	Tempreture controler	Tempreture cars PLC delta thermocouple sensor
14	Holder stand	Adjustable and fixed
15	Drain pipe	Springe pipe (6 cm diameter)
16	Power input voltage	220 v, 50Hz , 1 phase
17	Power consumption	3kw
18	Electrical door	Jack 8.4m/sec – 3000N – 24 vdc
19	Foot pedal	For opening and closing door with out hand interference
20	Electrical protection system	2 separate fuse for fase and nul input
21	Water tank dimension	42 (height) 20(depth) 20(length)
22	Boiler dimension	Dia 10cm height 27 cm
		145 (height) 44(depth) 62 (length)

BEDPAN WASHER & DISINFECTOR

For Hospitals & Clinics
Model : TT. 8W - 2001



T.T.S. 2001 is a compact bed-pan washer with a modern design have been constructed on the basis of EN ISO15883 has specially been developed for hospitals, nursing homes, private clinics, etc. The machine is also suitable for isolation rooms where there is a need of washing and disinfection.



Waste Paper Shredder

No	Features	Description
1	function	<ul style="list-style-type: none">•Dewatering by cold& warm water•Crushing cycle•Discharge•Wash chamber
2	Electric control	PLC controler
3	Door	Foot pedal
4	Spring of door	8.4 m/sec – 3000N – 24vdc
5	capacity	2Bedpans or 2 unit bottles or 2 receivers
6	structure	Iron profil
7	Cabin `s cover material	Door and front tray made of formed ABS Body made of scratched AISI
8	The blade material	AISI 316 ,3mm thick
9	Dimension /close door	550mm *750mm * 105mm
10	Dimension /open door	550 mm* 750 mm * 120mm
11	Water consumption	About 8 litre
12	weight	75 kg
13	Engine power	1/1 kW , 1400 RPM , clutch
14	chamber	AISI 316 , thich 2mm
15	Installation requirements	<ul style="list-style-type: none">-Two tap of warm &cold water , 2cm diameter , 1 meter from the ground-Drain 80-100mm on the ground from the wall, 400mm-Power outlet , 1 phase , separate power phase , minimum 10ampFan for room `s air conditioning-floor washing for washing space around the machine

WASTE PAPER SHREDDER

Basin, Urine tube, Receivers &...
Model : TT . DR



Paper containers, is shredded on the water by steel blades. Paper containers for liquids remaining pulp waste water (sewage) are discharged.



Operation



Time (S)	0	30	90	130	180
Water (30 S)	Start	End			
Maceration (100 S)		Start	End		
Drain (50 S)			Start	End	



Washer & Disinfector

No	Features	Description
1	Function	1.Designed & manufactured to ISO15883 2.Initial wash & disinfection with cold water 3.Disinfection with warm water & disinfectants in different times 4.Use of neutralizer in different times 5.Use medicinal liquid in order to speed up drying instrument 6.Final rinse & use soft water 7.Drying 8.Double Door
2	Device cabin	Stainless steel 304
3	Wash chamber	Stainless steel Ti – 316 , sheet thickness 2 mm
4	calibration	Ability to fix temperatures fault & concentration of chemicals
5	Input voltage	3 PH . 30A . 50Hz
6	Power	P max 21 kW - P min 2w
7	Water pump	LEO , 2/2 kW , 2"
8	Washing liquid & disinfection pump	Dosing pump , accurate to 1cc per second & 5 vdc
9	Motorize valve , 2- ports	Faber stainless steel anti – acid , 1 inch
10	Doors	The door automatically slides up & down with photocell sensor
11	Dimensions with wheels	107(L) × 77(W) × 196(H) cm
12	Dimensions of chamber	55(L) × 57(W) × 97(H) cm
13	Dryer element	6 kW
14	Capacity	8 Bascet for 8 set
15	weight	390 Kg
16	Amount of water consumed	Minimum 100 litre (in normal program) Maximum 160 liter (in special program)
17	Piping system	Use stainless steel fittings & high pressure silicone hoses
18	Operation time	40-70 min depending on different programmes
19	Motorize 2- parts	Faber brand stainless steel anti – acid . 1/5 inch (one & one second)
20	Alarms	1.Finishing disinfectant & polishers alarm 2.Counter at nozzles rotation 3.Open doors alarms 4.High inlet cold water temperature s' alarm 5.Hot water alarm 6.Drain alarm 7.Hitter alarm



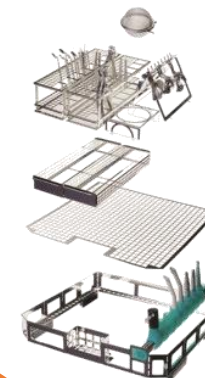
Dental instrument Washer & Disinfector

No	Features	Description
1	function	<ul style="list-style-type: none"> •Dewatering by cold& warm water •Crushing cycle •Discharge •Wash chamber
2	Electric control	PLC controler
3	Door	Foot pedal
4	Spring of door	8.4 m/sec – 3000N – 24vdc
5	capacity	2Bedpans or 2 unit bottles or 2 receivers
6	structure	Iron profil
7	Cabin `s cover material	Door and front tray made of formed ABS Body made of scratched AISI
8	The blade material	AISI 316 ,3mm thick
9	Dimension /close door	550mm *750mm * 105mm
10	Dimension /open door	550 mm* 750 mm * 120mm
11	Water consumption	About 8 litre
12	weight	75 kg
13	Engine power	1/1 kW , 1400 RPM , clutch
14	chamber	AISI 316 , thich 2mm
15	Installation requirements	<ul style="list-style-type: none"> -Two tap of warm & cold water , 2cm diameter , 1 meter from the ground -Drain 80-100mm on the ground from the wall, 400mm -Power outlet , 1 phase , separate power phase , minimum 10amp Fan for room `s air conditioning -floor washing for washing space around the machine

DENTAL INSTRUMENTS WASHER & DISINFECTOR Bench type

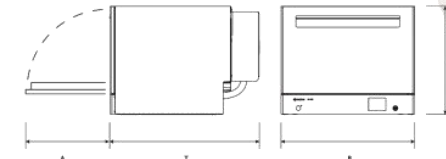


Model : T.T.IW - 74



DENTAL INSTRUMENTS WASHER & DISINFECTOR (Bench type) Model: T.T.IW - 74

The stainless-steel cabinet for the DENTAL WASHER & DISINFECTOR allows simple installation in an existing space in your sterilization line. You can easily store your process chemicals or a further basic basket in the base cabinet. It is also suitable for Gynecology , Dermatology , Podiatry , ENT, and Proctology.



Design & manufacturing is according to iso 15883



Drying & Storage Cabinet for Endoscopy

No	Features	Description
1	Cabin	AISI304
2	Hanger	Pelaxiglas thickness 15mm
3	Capacity	6 Endoscopic devices
4	Controller	Delta PLC Programmable
5	Display	HMI delta, 3/4 Inch touch, Programmable
6	Circulation fan	2100 rpm, 88W
7	Air compressor	Oil free, 160W, 240 L/min
8	Electrical specifications	220V, Single phase, 1100W, 50Hz
9	Dimension (Height)*(Width)*(Length)	Closed door : 98*60 *216 cm Opemd door : 115 cm
10	Weight	180 kg
11	Air filter	Hepa filter (H13)
12	Door	Glass with steel frame
13	Drying	Purge by filtered air
14	Holder structure	Adjustable height & fix
15	installation	Max 16 A
16	Capabilities	<ul style="list-style-type: none"> • Expiration alarms, Hepa filter to swap •Programmable •Saving time control in separate for each endoscopic by touch key in HMI •24hours functionality with out shut down •Noise 70db< •Positive pressure in chamber for preventing of contamination •Teflon holds for protection of endoscopy `s lens •Usable hanger for all endoscopy brands
17	lighting	Green& red halogen to indentify device status
18	sensor	Open door alarming sensor
19	Hanger	6 Hanger



Pulp Dishes

Disposable pulp containers are waterproof with no leaks. These containers include bedpan, urine bottle & receiver. New paper is used to make these containers that it has been approved for use in the hospital and infection control & can be a replacement for plastic containers and stainless steel. The purpose of using these containers is to prevent the transmission of infection and reduce environmental infection. Multipurpose containers usually do not become disinfected after use and cause infection transmission. This infection spreads to the environment, but these containers are destroyed after use with the contents & excreted through the hospital sewage.



Medical Refrigerators

No.	Features	Description
1	Function	Cold air circulation in the floors
2	Cabin insulation	Polyurethane foam
3	Cabin	AISI 304
4	Controller	Programmable microcontroller, delta plc model
5	Display panel	Touch HMI, scratch resistant, with display dimensions 4.3
6	Temperature controller	Delta PLC temperature card and K sensor
7	Holder base	Adjustable and fixed
8	Electrical	220 v , 50 Hz single phase , 185 W (max)
9	Dimension	Internal: height 70 * depth 45 * length 55 (cm) Exterior: height 130 * depth 60 * length 65 (cm)
10	Capacity	150 L
11	Floors	4
12	Environment operating temperature	10° – 32° c
13	Temperature range	1° – 6° c
14	Floors temperature difference	1.5° c
15	Sensor accuracy	0.1° c
16	Installation	1.Suitable temperature condition for environment (5° -40° c) 2.Turn on the device one hour after moving 3.Installation place should not be open Area and exposed to direct sunlight 4.Do not expose to water 5.The installation environment must have emergency power 6.Dimension: height 150 * depth 80 * length 80 (cm)
17	Recordable	USB port to record temperature information at night and day
18	Options	1.Ability to adjust and control the temperature depending on the type of blood or drug use according to the user 2.Graph performance report 3.Audible and visible alarm 4.Auto defrost system 5.Switch door lock



8-2

Stainless Steel Hospital Furniture

- **Trolleys**
- **Sinks**
- **Cabinets**
- **Tables**
- **Examination Beds**
- **Poles**
- **Other Products**



Trolleys

Our Hospital Trolleys are categorized into:

- Anesthesia Trolleys
- Emergency Trolleys
- Medicine Trolleys
- Instrument Trolleys
- Electrocardiography Trolleys
- Wound Dressing Trolleys
- Safety Box Trolleys
- Single & Double Bowl Stand Trolleys
- Laundry & Linen Trolleys
- Chart File Trolleys
- Hospital Food Trolleys
- Conventional Trolleys

Features:

- Made of 304 stainless steel
- Stabilized with a main structure, in case, to extend product lifetime
- Easy Handling & Moving
- Capability of utilizing for operating theater
- Special Design
- Comprised of required accessories for easy usage
- Comprised of anti-static lockable hospital casters




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Conventional Trolley

- Made of 304 stainless steel
- Capability of utilizing in the operating theater, clean and dirty utility rooms, wards and emergency departments and all other hospital sections
- With guard on three sides
- With four special anti-static hospital casters (two of which are lockable)

Sizes mm	A	B	H	HH	
PTR 31	440	440	750	800	75
PTR 32	600	400	750	800	75
PTR 33	750	500	850	900	75
PTR 34	900	600	900	950	100



Emergency Trolley

Emergency Trolley (Crash Cart)

- Dim. (Height × length × width) 100 × 72 × 52 cm
- Made of 304 stainless steel
- Capability of utilizing in operating theater, recovery room, emergency department, resuscitation room and other vital departments of hospital
- With special and unique design
- Equipped with side tray used as a drawer for medication preparation on top of trolley
- Comprised of five drawers which the first two are according to global standards
- Equipped with safety-box, electrical sockets and oxygen capsule holder
- Equipped with IV pole, and defibrillator holder bar
- Having CPR board
- Equipped with easy opening lock and unique code seals locks
- Comprised of main structure for longevity product increasing
- With four special anti-static hospital casters (two of which are lockable)



Medicine Trolley

Medicine Distribution Trolley

- Made of 304 stainless steel
- Capability of utilizing in treatment room, emergency department and other units required
- Comprised of unique design for bilateral application
- Including 24 transparent drawers
- Equipped with medicine preparation sheet
- With boxes for storing medical items such as serums
- Comprised of a longitudinal drawer on both sides of trolley
- Including safety box and storage box for catheters and syringes
- With handle for easy mobility
- Stabilized with a main structure to extend product lifetime
- With four special anti-static hospital casters (two of which are lockable)

Medicine Trolley (New Design)

- Made of 304 stainless steel
- Capability of utilizing in treatment room, emergency department and other units of hospital
- Including unique design by four sided optional usage
- With 20 medicine drawers in various dimensions
- With medicine preparation working table
- Including easy access serum storing space
- Including safety box and storage box for catheters and syringes
- Equipped with serum preparation holder
- Having special waste bin by foot opening pressure-sensitive slides
- With handle for easy mobility
- Stabilized with a main structure to extend product lifetime
- With four special anti-static hospital casters (two of which are lockable)



Electrocardiography Trolley

PTR43A

- Made of ST37 steel and coated with electrostatic powder (antibacterial)
- For keeping and carrying ECG in operating theater, emergency and other hospital departments
- New design with MDF wood
- Equipped with cable holder for lead wires and probes
- With Guard on three sides of the work desk
- With four special anti-static hospital casters (two of which are lockable)

PTR43B

- Made of 304 stainless steel
- For keeping and carrying ECG in operating theater, emergency and other hospital departments
- Equipped with cable holder for lead wires and probes
- With Guard on three sides of the levels



Laundry Trolley

Basket Trolley Specialized for CSSD and Laundry

- Made of 304 stainless steel
- Capability of utilizing in CSSD and CSR sections of hospitals and clinics
- Special design for tolerating 400 kg loading weight
- Equipped with wire basket structure with a special design
- With handles on both sides for easy movement
- With four special anti-static hospital casters (two of which are lockable)

Linen Trolley

- Made of 304 stainless steel
- Capability of utilizing for dirty linen collection and transporting clean linen for beds preparation
- Consist of 3 levels for clean linen
- Equipped with washable fabric compartment made of coated plastic, especially for collecting dirty linen (180 liters)
- Facilitated with stainless steel guards around each level
- With four special anti-static hospital casters (two of which are lockable)

Laundry Collection Trolley (different Capacities)

- Made of 304 stainless steel
- Capability of utilizing for different units such as dirty lounge, for collecting unclean and dirty clothing and linen
- Equipped with washable fabric compartment made of special coated plastic (380 Liters)
- Available in yellow and blue colors for infectious and non-infectious clothing and linen
- With four special anti-static hospital casters (two of which are lockable)



Surgical Instrument Trolley

Surgical Instrument Trolley

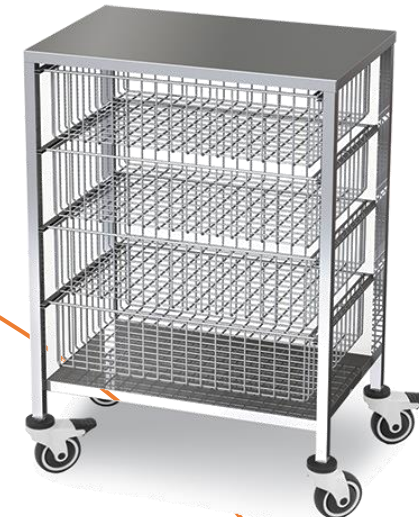
- Made of 304 stainless steel
- Capability of utilizing in operating theater, dirty utility room and emergency department
- To store contaminated instruments in order to increase surgical tool lifetime and prevent infection and contamination on dirty tools
- With two separate isolated containers for storing usual and micro-surgical tools separately
- With 2 handles for easy movement on both sides of trolley
- With 4 special Anti-static hospital casters (two of which are lockable)

Sterile Equipment Transport Trolley

- Made of 304 stainless steel
- Capability of utilizing for CSSD section of hospitals and CSR in clinics
- Utilized in sections and other departments of hospital for collecting dirty instruments and sets and distribution of clean and sterile sets
- Equipped with protective guard and chassis for product longevity increasing
- Comprised of two lockable doors with 170 degree opening capability
- Including 2 levels
- With 4 special anti-static hospital casters (two of which are lockable)

Drawer Basket Trolley

- Made of 304 stainless steel
- Capability of utilizing in CSSD, CSR and operating theater for keeping tiny and small sets of instruments
- Including 4 basket drawers with grid structure
- With 4 special anti-static hospital casters (2 of which are lockable)



Hospital Bowl Stand Trolley

Single Bowl Stand Trolley (5-leg base)

- Made of 304 stainless steel
- Capability of utilizing next to scrub sink, orthopedic operating theater and emergency department
- Equipped with 5-liter movable bowl
- With star-shaped 3 or 5-leg base
- Including handle for easy mobility
- Comprised of anti-static lockable hospital casters
- Unique and Special design for places with limited space

Double Bowl Stand Trolley (Gauze Counter)

- Made of 304 stainless steel
- Capability of utilizing next to scrub sink or operating room as the gauze counter trolley
- Including two 5-litre movable bowls
- With star-shaped 3-leg base
- Including handle for easy mobility
- Comprised of 5 anti-static lockable hospital casters



Hospital Trolley

- Dim. (Height × length × width) 97 × 90 × 60 cm
- Made of 304 stainless steel
- Capability of utilizing in wards, emergency department, public hospital sections and operating theater
- 2 or 3 levels including telescopic rails
- Equipped with guard around the levels
- With four special anti-static hospital casters (two of which are lockable)
- In different types:
 - a) 2 level, 1 drawer
 - b) 2 Level with Drawers
 - c) 3 Level with Drawers



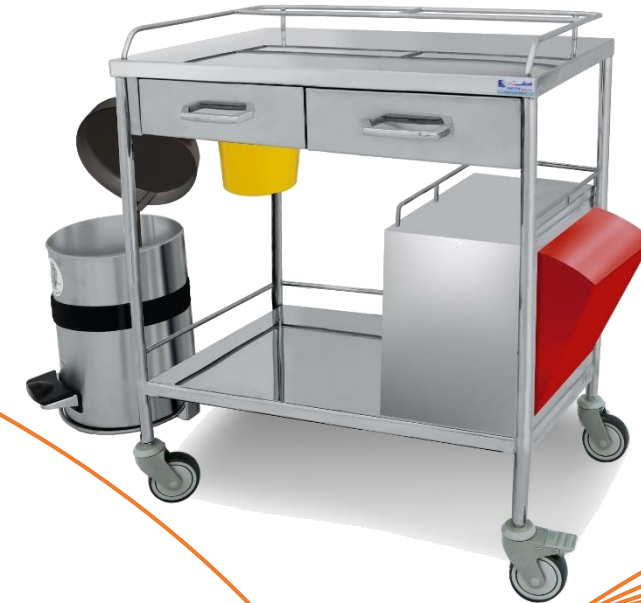
Wound Dressing Trolley

Wound Dressing Trolley (Lower Drawers)

- Made of 304 stainless steel
- Capability of utilizing in all hospital sections, such as emergency department, operating theatre and resuscitation room
- Including 2 levels and 2 drawers
- Equipping with safety box and wash bowl
- Including separated special infectious and non-infectious waste bin with 7 liters capacity
- Comprised of 3sided protective guard around the levels
- With four special anti-static hospital casters (two of which are lockable)

Wound Dressing Trolley (Upper Drawers, Hidden Bucket)

- Made of 304 stainless steel
- Capability of utilizing for all departments, emergency, resuscitation and surgery room
- Including 2 levels and 2 drawers
- Comprised of 3sided protective guard around the top plate
- With safety box
- Including conventional bin with pedal (20 liters capacity)
- Including special washable two-layered infectious waste bin, equipped with pedal (hidden) and 20 liters capacity
- Equipped with handle for easy mobility
- With a unique design
- With four special anti-static hospital casters (two of which are lockable)



Anesthesia Trolley

- **Dim. (Height × length × width) 145 × 75 × 54 cm**
- **Made of 304 stainless steel**
- **Capability of utilizing in operating theater for anesthesia**
- **With 16 medication boxes for anesthesia medicines**
- **Comprised of medication preparation desk and sheet**
- **Equipped with two longitudinal drawers at the top and one drawer at the bottom of the trolley**
- **Including a guarded shelf for serums**
- **Stabilized with a main structure to extend product lifetime**
- **With four special anti-static hospital casters (two of which are lockable)**



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CONTACT US

Sinks

Our Hospital Sinks are categorized into:

- Scrub Sinks
- Single, Double & Triple-step Processing Sinks
- Infant Bath Sinks
- Plaster Sinks
- Clinical Sinks (Suction Bottle Discharge Sink)

Features:

- Made of 304 stainless steel (and Corian materials in Corian sinks)
- Having unique design for preventing from water splash
- Ability to be used with lever or pedal faucet or automatic hands-free faucet
- Ability to add a tray or shelf above the sink for drying tools
- Facilitated with water jet gun (or the ability to add specialized water jet gun and compressor)



Clinical Sink

Clinical Sink (Suction Bottle Discharge Sink)

- Made of 304 stainless steel
- Capability of utilizing in dirty utility room for bottle suction discharge
- Equipped with flush tank and related valves
- Including rod cap for ease of suction bottle discharge
- Comprised of protective mesh to prevent objects from falling into the siphon
- Unique design of cup sink with water circulation for quick wash and remaining no infestation in the sink
- With shower hose valve for sink wash and suction bottle
- Ability to install siphon to prevent bad smell around



Processing Sink

Processing Sink (Double-Step)

- Made of 304 stainless steel
- Capability of utilizing in CSSD section of hospitals and CSR in clinics
- Including 2 wash basins and 1 tray in the middle
- Consist of basin and mesh for immersion
- Facilitated with water jet gun
- Useable with pedal or lever valve
- Ability to add compressor and air gun
- Ability to add a tray, shelf or rack above the sink for drying process of instruments

Processing Sink (Triple-Step)

- Made of 304 stainless steel
- Capability of utilizing in CSSD section of hospitals and CSR in clinics
- Including 2 large wash basins 30 * 60 * 50
- Including large immersion basin of 20 * 60 * 50 with pneumatic drain valve
- Including 2 immersion meshes
- Equipped with 2 Long spring faucet and 1 shower faucet for ease of washing
- Facilitated with polymer air gun for Compressed air with Oil free compressor with air dehumidifier unit
- With Polymer-water jet gun (the ability to add specialized water gun with 8 nozzles, proportional to the surgical instrument for ease of water washing)
- Double-layer back sheet with foam insulation to control sink infection
- Featured porous shelf for placing containers and instruments
- With protective Shield and movable shield along the sink to prevent water spillage to operator for controlling nosocomial infection
- Comprised of cabinet for placing solutions, gently closing doors and adjustable pedestals



Scrub Sink

Scrub Sink (PSK34A, PSK34B, PSK34C,36A)

- Made of seamless and integrated 304 stainless steel
- Capability of utilizing in pre-entrance room of operating theater and other sections for hand scrubbing
- Capability of utilizing in pre-entrance room of isolation rooms
- Usability of pedal or automatic hands-free faucet
- Equipped with lever for water temperature and pressure adjustment
- Having unique design for preventing from water splash

Sizes mm	A	B	H	HH
PSK 34 A	700	550	870	900
PSK 34 B	1250	550	870	900
PSK 34 C	2000	550	870	900



Cabinet

Our Hospital Cabinets are categorized into:

- Operating Room Cabinets
- Medicine Cabinets
- Balloon Stent Cabinets
- Catheter Cabinets
- Laparoscopy & Urology Instrument Cabinet
- Floor Cabinets
- Wall-Mounted Cabinets
- Portable Units
- Fixed Units

Features:

- Made of 304 stainless steel
- Equipped with main structure, in case, for high resistance, longevity and balance
- Specially designed to control nosocomial infection
- Equipped with sloped roof, in case, for hospital infection control
- Capability of utilizing for clean and dirty utility room and treatment room
- Capability of utilizing in different hospital sections such as operating room, emergency departments, CSSD section of hospitals and CSR in clinics, urology and laparoscopic surgical room, hospital pantries and other public areas, based on application.
- With special Anti-static hospital casters, in case.
- With double-layered full stainless steel sheet with foam reinforcement, in case.



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Operating Room Cabinet

Operating Room Cabinet

- Made of 304 stainless steel
- Capability of utilizing in operating rooms and emergency departments
- Equipped with sloped roof for hospital infection control
- Facilitated with one fixed floor and one movable floor on the top side including two stainless steel frame doors with anti-scratch and shatterproof synthetic glass
- Including desktop
- Equipped with two drawers with telescopic slides
- With a double-level cabinet with soft-close door and lock
- Facilitated with height-adjustable holders
- With four special Anti-static hospital casters (two of which are lockable)

Operating Room Cabinet (Glass Door)

- Made of 304 stainless steel
- Capability of utilizing in operating room
- Capability of utilizing in clean and dirty utility room and CSSD
- Equipped with sloped roof for hospital infection control
- Facilitated with four fixed floors and one movable floor
- Equipped with main structure for high resistance, longevity and quite balance
- With four special Anti-static hospital casters (two of which are lockable)



Floor & Wall-Mounted Cabinet

Sloped Roof Wall-Mounted Cabinet (With and Without Doors)

- Made of 304 stainless steel
- Capability of utilizing for clean and dirty utility room and treatment room
- Capability of utilizing in CSSD section of hospital and CSR in clinics
- Capability of utilizing in orthopedic plaster room
- Capability of utilizing for hospital pantries and other public areas
- Comprised of sloped roof to control nosocomial infection
- Including full stainless steel doors facilitated with soft-close hinge (in the model with doors)

Floor Cabinet (2 Door)

- Made of 304 stainless steel
- Capability of utilizing for clean and dirty utility room and treatment room
- Capability of utilizing in CSSD section of hospital and CSR in clinics
- Capability of utilizing in orthopedic plaster room
- Capability of utilizing for hospital pantries and other public areas
- Specially designed to control nosocomial infection
- Including 2 full stainless steel doors facilitated with soft-close hinge
- With height-adjustable pedestals
- With double-layered full stainless steel sheet with foam reinforcement



Cabinets with Special Use

Catheter Cabinet (Hidden Door)

- Made of 304 stainless steel
- Capability of utilizing for angiography department for storing catheters
- Equipped with 10 catheters holder on each axis
- Specially designed with patented swing door
- Capability of hiding door after opening while using to have optimum application of product
- Including 3 movable axes for holding catheters
- Capacity for storing 600 catheters
- Facilitated with stainless steel locks with frame doors plus anti-scratch and shatterproof synthetic glass
- Including main structure for keeping the product balance and increasing the product lifetime
- With four special Anti-static hospital casters (two of which are lockable)

Laparoscopy & Urology Instrument Cabinet

- Made of 304 stainless steel
- Capability of utilizing for Urology and laparoscopic surgical room
- Facilitated with two stainless steel door frames with anti-scratch and shatterproof synthetic glass for checking sterile process in the cabinet
- Including a main structure for keeping the product balance and increasing the product lifetime
- With 1 stainless steel and 3 artificial (anti-scratch, shatterproof) glass level for more protection from surgical instruments
- With four special Anti-static hospital casters (two of which are lockable)



Tables

Our Hospital Tables are categorized into:

- **Falcate Tables for Operating Theater**
- **Surgical Tables**
- **Fixed & portable Mayo Tables**
- **Working Tables**
- **Packing Tables**
- **Linen Inspection Tables**
- **Wall-mounted Folding Tables**

Features:

- **Made of 304 stainless steel**
- **Capability of utilizing in general and specialized operating rooms, resuscitation and orthopedic plaster room, CSSD section of hospitals and CSR in clinics, based on application.**
- **With special Anti-static hospital casters, in case.**
- **height adjusting mechanism, in case.**
- **Comprised of two double-layer and water-resistant sheets for hospital infection control, in case.**
- **Reinforced with waterproof foam, in case.**



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Working Tables

Working Table (Full Stainless Steel)

- Dim. (Height × length × width) 90 × 90 × 50 cm
- Dim. (Height × length × width) 90 × 115 × 50 cm
- Dim. (Height × length × width) 90 × 150 × 50 cm
- Made of 304 stainless steel
- Capability of utilizing in CSSD section of hospitals and CSR in clinics
- Utilized in sections, medication, clean and treatment room
- Including 2 floors without protective guards
- With 4 special anti-static hospital casters (2 of which are lockable)



Tables For Operating Room

Falcate Table for Operating Theater

- Dim. (Height × length × width) 90 × 160 × 55 cm
- Made of 304 stainless steel
- Capability of utilizing in general and specialized operating rooms
- With special design by appropriate curvature for ease of access to instruments
- Including upper and lower double-layer sheets for product's strength
- Having 3 sided guards for lower level of product
- With four special Anti-static hospital casters (two of which are lockable)

Adjustable Surgical Table

- Dim. (Height × length × width) (80-120) × 90 × 60 cm
- Made of 304 stainless steel
- Capability of utilizing in operating Theater
- With H-shaped Base- leg for strength and balance of the table
- With 1cm edge for three sides of table
- With four special Anti-static hospital casters (two of which are lockable)



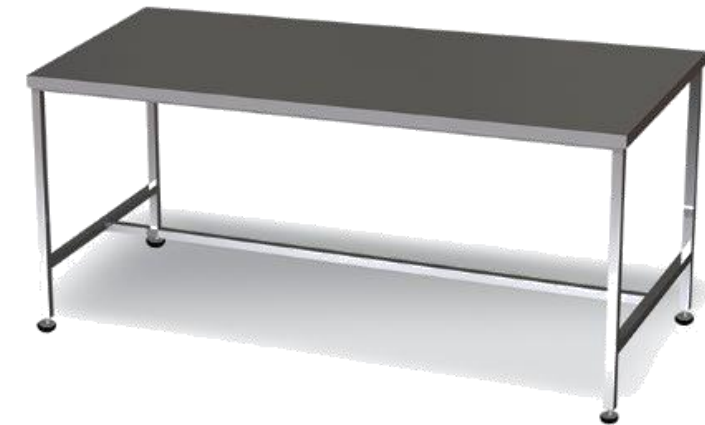
Packing Tables

One-Floor Packing Desk

- Dim. (Height × length × width) 90 × 190 × 90 cm
- Made of 304 stainless steel
- Capability of utilizing in CSSD section of hospitals and CSR in clinics
- Including H-shaped bases for increasing product's strength
- Comprised of two double-layer and water-resistant sheets for hospital infection control
- Reinforced with waterproof foam
- A unique design with capability of sedentary and stand-up position possibility for user
- Including height-adjustable pedestals

Two-Floor Packing Desk

- Dim. (Height × length × width) 140 × 190 × 70 cm
- Made of 304 stainless steel
- Capability of utilizing in CSSD section of hospitals and CSR in clinics
- Including H-shaped bases for increasing product's strength
- Comprised of two double-layer and water-resistant sheets for hospital infection control
- A unique design with capability of sedentary and stand-up position possibility for user
- Including Height adjustable pedestals



Mayo Tables

Mayo Table (Movable Tray)

- Dim. (Height × length × width) (80-120) × 60 × 40cm
- Made of 304 stainless steel
- Capability of utilizing in operating theater, resuscitation and orthopedic plaster room
- Including manual height adjusting mechanism
- With movable edged-tray to facilitate washing
- Suitable for using on surgical beds
- With four special Anti-static hospital casters (two of which are lockable)

Mayo Table (Fixed Tray)

- Dim. (Height × length × width) (80-120) × 75 × 45 cm
- Made of 304 stainless steel
- Capability of utilizing in operating theater, resuscitation and orthopedic plaster room
- Including height adjusting mechanism
- With fixed edged-tray
- Suitable for using on surgical beds
- With four special Anti-static hospital casters (two of which are lockable)



Examination Beds

Examination Bed (Full Stainless Steel)

- Made of 304 stainless steel
- Capability of utilizing for medical offices in clinics and hospitals
- Capability of utilizing for emergency departments, check-up and injection rooms
- Capability of utilizing for orthopedic plaster rooms
- Facilitated with roll jar for using disposal bed sheet
- Equipped with basis insole made of Zellamid® which will protect bed from slipping and movement while using
- Including special mattress made of cold foam and resisting plastic
- Capability of tolerating 300 kg weight

Folding Examination Bed

- Made of stainless steel 304 or ST37 steel with anti-bacterial electrostatic coating
- Capability of utilizing for medical offices in clinics and hospitals
- Capability of utilizing for emergency departments, examination and injection rooms
- Capability of utilizing for orthopedic plaster room
- Including folding breaker on upper part of bed beneath patient's head
- Equipped with a gas jack and movable lever to raise bed's breaker
- Facilitated with roll jar for using disposal bed sheet
- Equipped with basis insole made of Zellamid® which will protect bed from slipping and movement while using
- Including a special mattress made of cold foam and resisting plastic
- Capability of tolerating 300 kg weight



Poles

Floor stand Portable IV Pole

- Dim (Height × base diameter) 50 × (160-200 cm)
- Made of 304 stainless steel
- Capability of utilizing for all units of hospitals
- Including a unique design, light weight and balance stability while moving
- 3 kg weight tolerance for each hook
- With height adjustment
- With star-shaped structure base
- With 5 special Anti-static hospital casters (two of which are lockable)
- Comprised of special hook for blood transfusion and its related products

Floor Stand Portable IV Pole with Separate Hook for Blood Transfusion Products

- Dim (Height × base diameter) 50 × (180-250 cm)
- Made of 304 stainless steel
- Capability of utilizing for all units of hospitals
- Including a unique design, light weight and balance stability while moving
- Capability of 3 kg weight tolerance for each hook
- Comprised of special hook for blood transfusion and its related products
- Height adjustment up to 2.5 meters
- With star-shaped structure base
- With 5 special Anti-static hospital casters (two of which are lockable)



Poles

New Design IV Pole

- Dim. (Height × base diameter) (160-200) × 55 cm
- Made of combined ST12 steel and 304 stainless steel with antibacterial electrostatic coating
- Capability of utilizing for operating theater, emergency and other sections
- Tolerating 5 kg weight
- With unique design on base part to keep balance and to hang multiple high-weight medical serums
- With 2-meter height adjustability
- With color category variability for base part for different departments of hospital
- With 6 special anti-static hospital casters (two of which are lockable)

Infusion Pump IV Pole

- Dim. Adjustable sheet (Height × base diameter) (85-120) × 55 cm
- Dim. Adjustable hook (Height × base diameter) (180-250) × 55 cm
- Made of combined ST12 steel and 304 stainless steel with antibacterial electrostatic coating
- Capability of utilizing for operating theater, emergency and other sections
- Equipped with infusion pump holder (with height adjustability)
- Comprised of motion handle
- With unique design on base part to keep balance and to hang multiple high-weight medical serums
- With color category variability for base part for different departments of hospital
- With 6 special anti-static hospital casters (two of which are lockable)



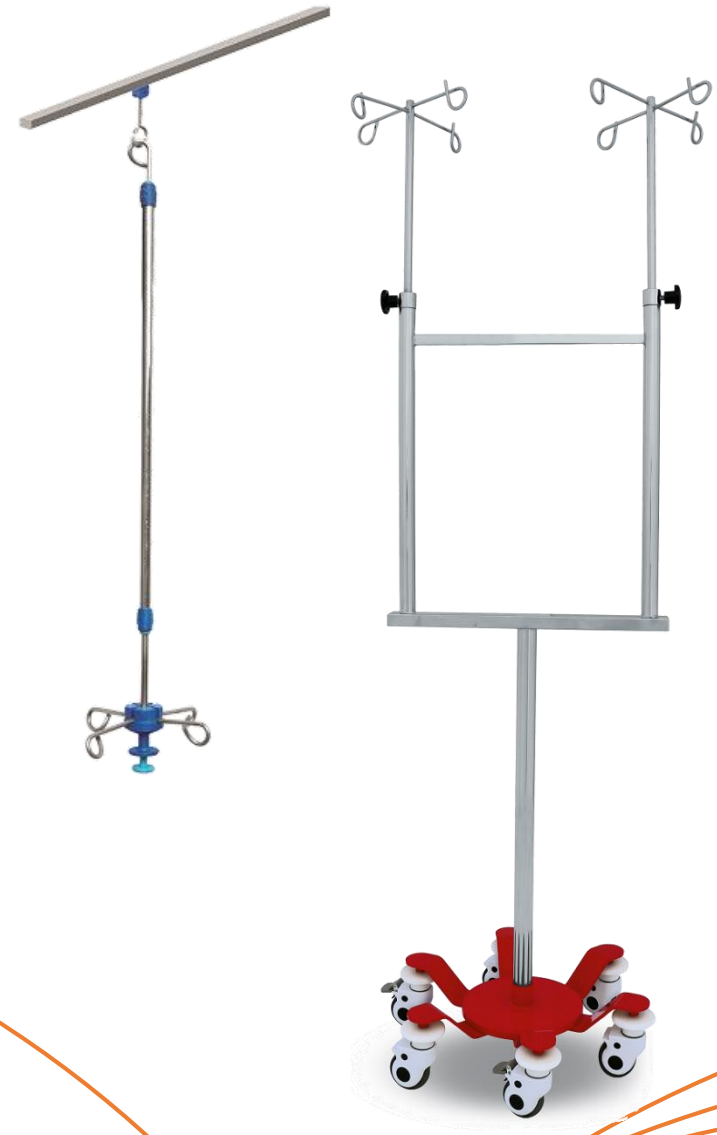
Poles

Two-Holder IV Pole

- Dim. (Height × base diameter) (160-200) × 55 cm
- Made of combined ST12 steel and 304 stainless steel with antibacterial electrostatic coating
- Capability of utilizing for operating theater, emergency and other sections
- Including two separated holders and four hooks on each rods
- With unique design on base part to keep balance and to hang multiple high-weight medical serums
- With 2-meter height adjustability
- With color category variability for base part for different departments of hospital
- With 6 special anti-static hospital casters (two of which are lockable)

Ceiling Serum Hanger

- Dim. (Height × length × width) (75-120) × 120 × 5 cm
- Made of combined 304 stainless steel and a special anodized aluminum alloy
- Capability of utilizing for emergency, recovery and other hospital departments
- With 2m moving course
- With height adjustability from ceiling
- Including 4 serum hangers



Other Products

Our other stainless steel hoteling products consist of:

- Wheeled Waste Bin for Operating Theater
- Single & Double Foot Steps
- Slipper Cabinets (with Caster)
- Wall Mounted Slipper Cabinet
- Pedal Bucket (Double-Layer)
- Entrance Stand for Operating Theater (Small Plate)
- Dispenser
- Wall-Mounted Instrument Shelf
- Blood sampling tray
- Laboratory Sampling Racks
- Handles
- And other products upon requests



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CONTACT US

9

Pharmaceutical & Food Additives



9-1

Human Pharmaceutical

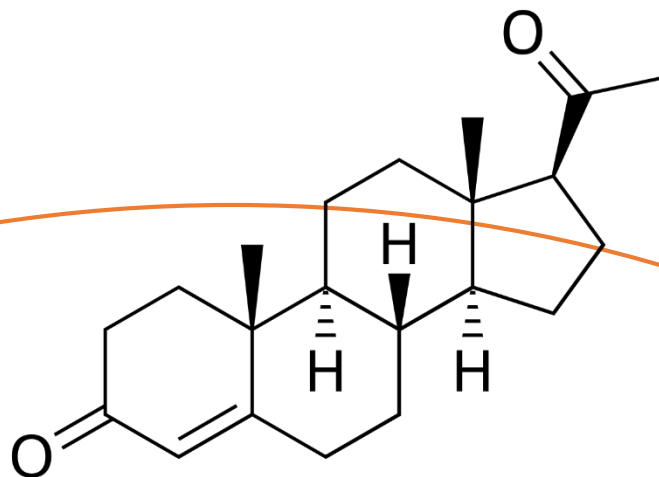
- **Corticosteroid APIs**
- **Anti-Cancer Drugs**
 - **SinaCurcumin**
 - **SinaDoxosome**



Corticosteroid APIs

Corticosteroids are a class of drugs based on hormones formed in the adrenal gland or derived synthetically. They are created from cholesterol and divided into two major groups: glucocorticoids and mineralocorticoids. These products comply with the latest international standards of USP, BP pharmacopeia and GMP certification of Food and Drug Administration.

- **Betamethasone Valerate**
- **Hydrocortisone**
- **Medroxyprogesterone**
- **Progesterone**



SinaCurcumin

Nano-Micellar Soft gel (80 mg Curcumin)

Curcumin, the yellow pigment in curry spice, Turmeric, is the principal curcuminoid in the rhizome of *Curcuma longa* Linn. The plant is belonging to ginger family (Zingiberaceae) and is native in India and south-east Asia. Curcumin is the prototypical curcuminoid and has effects similar to other polyphenols (diarylheptanoid). In combination with other main curcuminoids including desmethoxycurcumin, bis-desmethoxycurcumin and cyclo-curcumin, they form 3-5% of dried turmeric powder.

Pharmacological effects and Indications:

There are more than 3000 studies based on cell culture, animal and clinical, indicating anti-oxidant, anti-inflammation and anti-cancer effect of Curcumin and there is high interest in using Curcumin as supplement in different conditions such as:

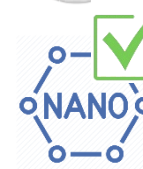
- Anti-inflammatory
- Supplement in treatment of Depression disorders, Cardiovascular problems, Anti-lipid Agent, Hepatic disorders and improvement of liver function and Neuropathy and Retinopathy in diabetic patient.

Advantages of SinaCurcumin:

Curcumin is a lipophilic agent and its absorption from GI with normal dosage forms such as powder, capsules and tablets is very low.

SinaCurcumin is Nano-micellar form of Curcumin in 10 nm average size. The active ingredient, Curcumin, is concentrated inside the micelle which is lipophilic and the hydrophilic part of the micelles increases the solubility in water.

The soft gels of Curcumin are completely dissolve in acidic condition of stomach and the Nano-micelles are released which are stable up to 6 hours in this conditions. The Nano-micelles are delivered to intestine and absorbed there.



SinaDoxosome

(Doxorubicin HCl Liposome Injection 2 mg/ml)

Doxorubicin HCl is a drug used in cancer chemotherapy. Doxorubicin is commonly used in the treatment of a wide range of cancers, including hematological malignancies, many types of carcinoma, and soft tissue sarcomas. Doxorubicin's most serious adverse effect is life-threatening heart damage, which limits its application. Therefore, various efforts have been made to reduce its side effects, including encapsulating it in nanoparticle systems such as nanoliposomes. The nano-liposomal form of doxorubicin HCl (Doxil®/Caelyx®) has entered the global market during the past few years by the approval of FDA.

Unique features of SinaDoxosome® are as follow:

- The polyethylene glycol coating (stealth polymer) reduces the uptake of liposomes by RES cells, therefore increasing the life span of liposome in the blood (half-life about 53 hours).
- The particle diameter of approximately 100 nm enables the nanoparticles to target the tumor tissues by enhanced permeation and retention mechanism.
- The lipid matrix with high phase transition temperature and low permeability provides stable encapsulation of the doxorubicin in nanoliposomes and the internal aqueous buffer phase provides high loading efficiency for the Doxorubicin.

Advantages

- **Slow Release:** reduced peak levels of free drug and prolonged tumor exposure
- **Change in Biodistribution:** avoiding drug deposition in certain tissues will reduce tissue-specific toxicities
- **Tumor Targeting:** passive accumulation by enhanced permeability and retention (EPR) effect
- Effectively reduce the side effects of drugs



- **Natural & Herbal Products**

- **Immuno Propophyt**
- **Immuno Echinamol**
- **Hepamarin**
- **Lavar Ren**
- **Neuro Calm**
- **Mito Fade Plus**
- **Anti-Ammonium Extra**
- **Cocci Phyt**



Immuno Propophyt

Immuno Propophyt is a 100% natural solution for oral administration and improves the immune response.

Composition: Propolis extract, Echinacea purpurea extract, Licorice extract

Mechanism of action:

Propolis is a natural resinous mixture produced by honey bees. Due to the many biological activities of propolis, such as antimicrobial, anti-inflammatory, antioxidant and immune stimulatory, which are attributed to its chemical composition, including flavonoids, aromatic acids, diterpene acids and phenolic compounds. propolis have an immune stimulating effect by increasing antibody production and by activating B and T lymphocytes. Also Propolis is a powerful antioxidant. This effect is due to the high concentration of phenolics and other antioxidant compounds.

Echinacea is antibacterial, antiseptic, antiviral, anti-inflammatory and stimulates the immune system. This plant stimulates cell-mediated immunity and improves immune function by increasing T lymphocytes, phagocytes, leukocytes function and increasing the synthesis of interferon.

Licorice (*Glycyrrhiza glabra*) has a long history of medicinal use against respiratory and gastrointestinal diseases. Glycyrrhizic acid and its metabolites are most effective component in licorice extract. Glycyrrhizic acid pharmacological effects include anti-inflammation, anti-ulcer, immune modulatory, anti-allergic, antibacterial and anti-viral effects.

Use advantages:

- Immune system stimulant
- Improve immune system function against pathogens and diseases
- Provide better vaccination efficiency
- Relief of respiratory tract inflammations
- Enhance gastrointestinal ulcers healing
- Decrease mortality
- Improve FCR

Indication of use: for Poultry & Pets

Recommended dosage: 250 ml/1000 L of drinking water for Poultry and 0.5 ml per 10 kg of body weight for Pets.

Packaging: 30 & 250 ml bottles

Storage conditions: keep in dry place at 25°C

Expiry date: 2 years from production date



BACK



Immuno Echinamol

Immuno Echinamol is a 100% herbal solution for oral administration and improves immunity and respiratory health.

Mechanism of action:

Immuno Echinamol contains natural plant extracts such as Echinacea and Thyme. Echinacea is antibacterial, antiseptic, antiviral, anti-inflammatory and stimulates the immune system.

This plant stimulates cell-mediated immunity and improves immune function by increasing T lymphocytes, phagocytes, leukocytes function and increasing the synthesis of interferon.

Thyme is attributed with antioxidant, antiviral, antifungal and antimicrobial effects. This plant is mucolytic (expectorant), reduce the thickness of bronchial secretions thus increasing mucus flow that can be removed more easily. Thymol and carvacrol are active ingredients and these components have antibacterial and antifungal effects. They are effective in respiratory collapse and increase lung capacity. Immuno Echinamol will provide better vaccine efficiency and reduce the side effects of vaccination and secondary infections.

Indications:

- improve immunity
- Prevent respiratory diseases
- Increase appetite
- prevent mucus membrane dryness and irritation
- Reduce side effects of respiratory complex diseases
- Chronic respiratory disease (CRD)
- Mucolytic and expectorant
- Infectious Bronchitis, Influenza, Laryngotracheitis, Infectious Coryza and Pneumonia

Recommended dosage:

Poultry:

via drinking water: To prevent respiratory diseases and increase immunity before and after vaccination, environmental stress: 250 ml/1000 L of drinking water

To reduce the side effects of respiratory diseases: 500 ml/1000 L of drinking water

via spray: For every 1,000 m², dissolve 250 ml in 10 L of water and spray.

Pets: 0.5 ml per 10 kg of body weight

Packing: 30 & 250 ml bottles

Storage conditions: keep in dry place at 25°C



Hepamarin

Hepamarin is 100% herbal product and a solution for oral administration which improves Liver function.

Composition: The most important substances in this product include silymarin.

Mechanism of Action:

Milk Thistle is known for its high pharmaceutical value among the people of the world. Silymarin is the main ingredient of milk thistle and due to its properties such as anti-inflammatory and anti-oxidant effects will improve liver function and helps to treat liver and gallbladder disorders in poultry.

Indications:

- Supportive treatment in chronic inflammatory liver diseases
- Fatty liver syndrome
- Liver and gallbladder complaints
- Liver function disorders
- After intensive antibiotic treatment
- Prevent and supportive treatment of hepatotoxicity associated with poisoning like mycotoxicosis and drug poisoning
- Free radical scavenger and have hepatoprotectant properties
- High doses of fat in feed

Recommended dosage:

Poultry:

250 ml/1000 L of drinking water

Pets:

0.5 ml per 10 kg of body weight

Packing: 30 & 250 ml bottles

Storage conditions: keep in dry place at 25°C

Expiry date: 2 years from production date



Lavar Ren

Lavar Ren is a solution for oral administration and improves kidney function.

Mechanism of action:

Lavar Ren contains natural plant extracts such as Nettle extract. The various components of plant extracts will enhance the beneficial effects of each other.

The most important substances in this product include phenolic compounds, quercetin, caffeine, malic acid and chlorogenic acid.

People from different countries have long recognized the nettle as a valuable herb. Nettle is very effective in reducing inflammation and urinary tract infection, and by increasing the volume and flow of urine, it prevents urinary retention in the urethra and results in the removal of urinary deposits from the kidneys.

It is also rich in iron and vitamin c and can act as an antioxidant and anti-stress agent.

Indications:

- Disinfection of the urethra
- Diuretic
- After treatment with antibiotics
- In cases of viral diseases (such as bronchitis and infectious bursal disease) and bacterial infections that cause inflammation and necrosis of the kidneys
- Ascites syndrome
- Gout
- Supportive care
- Following stresses such as beak trimming and heat stress
- Fatigue and metabolic diseases

Recommended dosage:

Poultry:

To prevent renal failure and after antibiotic administration: : 250 ml/1000 L of drinking water

In order to treatment (gout , metabolic problems ,kidney infections): 500 ml/1000 L of drinking water

Pets:

0.5 ml per 10 kg of body weight

Packing: 30 & 250 ml bottles

Storage conditions: keep in dry place at 25°C



BACK



Neuro Calm

Neuro Calm is a 100% herbal product and a solution for oral administration which acts as an Anti-Stress composition.

Mechanism of action:

Neuro Calm contains natural plant extracts such as Valerian and Lemon balm. The various components of plant extracts will enhance the beneficial effects of each other. Valerian and lemon balm are used as anti-stress for a long time. These plants naturally affect the nervous system and cause relaxation and restlessness. Today, these plants are also used to reduce anxiety and stress.

Indications:

- Exposure to environmental stresses such as heat stress, light and noise
- Exposure to mechanical stresses such as transportation and personal movements
- During peak production and nutrition stresses
- Stresses caused by insects, mite and predators like mice
- Before and after vaccination
- In the case of cannibalism

Recommended dosage:

Poultry:

250 – 500 ml/1000 L of drinking water

Pets:

0.5 ml per 10 kg of body weight

Packing: 30 & 250 ml bottles

Storage conditions: keep in dry place at 25°

Expiry date: 2 years from production date



Mito Fade Plus

Mito Fade Plus is a Herbal Product against the poultry Red Mite.

Composition: Each 100 g contains: 5 g Garlic+ 4 g Eucalyptus + 3 g Thyme + 3 g Chamomile

Mechanism of action:

Mito Fade Plus is a carefully balanced combination of Eucalyptus, Thyme, Chamomile and Garlic. Cineole which is rich in Eucalyptus species has mucolytic effects. It is exhibited anti parasite activity. Thymol the main ingredient of Thyme, by stimulating blood circulation and regulates its flow, and its antibacterial and anti-parasitic function keeps parasites away. The Apigenin content in Chamomile can help in improving cardiovascular conditions, stimulate immune system and provides faster epithelialization and enhance wound healing caused by mites. Garlic has been used as medicine for thousands of year. Allicin is the major biologically active component of Garlic. It has natural anti parasitic effects and also stimulating the immune system.

Indications:

- Reduce more than 90% of red mite
- Improve flock performance
- Reduce microbial load in feed
- Improve immune responses
- Reduce ammonia and moisture content of litter
- Reduce mortality
- Reduce the number of dirty eggs
- Reduce feather pecking and cannibalism
- Reduce insects and larvae in litter
- Improve anemia and sever skin conditions caused by mites
- Reduce transmission of bacterial (Salmonella, Pasteurella, Chlamydia) and viral (Newcastle Disease, Fowl Pox) infections

Recommended dosage: 1 – 2.5 kg / ton of feed

Storage conditions: Keep in dry place and store at less than 25°C, away from direct light and in closed door sachets.

Compatibility: Mito Fade Plus is compatible with other commonly used feed additives and there is no any drug interaction

Expiry Date: 2 years after production

Packaging: 5 & 25 kg Aluminium sachets & Packets



Anti-Ammonium Extra

Premix for pathogen control in feed: For Veterinary Use Only

Composition: Plant extracts, Organic acids and Mineral compounds

Mechanism of action:

Anti-Ammonium extra is a unique product contains plant extracts, minerals and organic acids. Anti-Ammonium extra is a premix which provides pathogen control in feed. In addition to reduce the transit time of feed through the digestive tract, this product has the antimicrobial effects. Also with reducing the number of harmful bacteria and more water absorption in the intestine will lead to reduced moisture and ammonia of litter.

Use advantages:

- Prevent the growth of pathogens in feed
- Reduce feed microbial count (Bacteria & fungi)
- Ammonia reduction of litter and consequently reduce respiratory disease
- Reduce ammonia and odor emissions in manure and litter
- Reduce the PH of manure and litter
- Reduce litter humidity and increase the dry matter of litter
- Reduce insects and larvae in litter
- Reduce the number of flies specially at climate change on different seasons
- Reduce the number of coliforms in manure
- Reducing enteritis
- Reducing coccidiosis
- Reducing dirty feathers and pseudo dermatitis

Indication of use: poultry

Recommended dosage: 0.5 to 1 kg/ton of feed

Stability: stable in premixes, concentrates as well as mash, pelleted or expanded feed

Compatibility: compatible with other commonly used feed additives like enzymes, prebiotics and probiotics

Drug interaction: There is not any drug interaction

Expiry date: 9 month after production

Storage condition: keep in dry place and store less than 25 °C, away from direct light and in closed packets

BACK



Packaging: 10 kg and 25 kg packets



Cocci Phyt

Against Coccidiosis & Gut Health Enhancer

Composition: Quercus infectoria, Artemisia annua and Allium sativum

Mechanism of action:

Cocci Phyt is a Nature friendly product containing natural herbs, Quercus infectoria (Oak Gall), Artemisia annua and Allium sativum (Garlic). It acts as a potent Eimeria spp inhibitors and therefore benefits the animal by improving the gut environment.

Tannins in the Oak Gall inhibit the life cycle of coccidia by decreasing the sporulation of the oocyste of Eimeria spp.

Artemisinin in Artemisia annua has anticoccidial action by inhibiting sporulation and cell wall formation in Eimeria species through inducing oxidative stress.

Garlic and its sulfur compounds, allicin, alliin, ajoene, diallyl sulfide, dithiin, and allylcysteine, inhibit the parasite life cycle and also possess broad antimicrobial activities which can eliminate negative factors of microbial infections.

Use advantages:

- Help to prevent coccidiosis
- Inhibit the growth and reproduction of Eimeria parasites
- Improves immunity
- Improve uniformity in livestock
- Improve growth rate
- Improve feed efficiency
- Improve intestinal environment & digestive function

Indication of use: For veterinary use only

Recommended dosage: 0.5-1 kg / Ton of feed (0.1 g/kg of body weight)

Stability: Cocci Phyt is stable in premixes, concentrates as well as mash, pelleted or expanded feed.

Compatibility: Cocci Phyt is Compatible with other commonly used feed additives.

Drug interaction: There is not any drug interaction

Expiry date: 2 years from production date

Storage condition: keep in dry place and store less than 25 °C, away from direct light and in closed packets.

Packaging: 10 & 25 kg Packets



10

Health Services



10-1

Dialysis Field

- **Dialysis Centers**
 - **BOO Contract**
 - **BOT Contract**

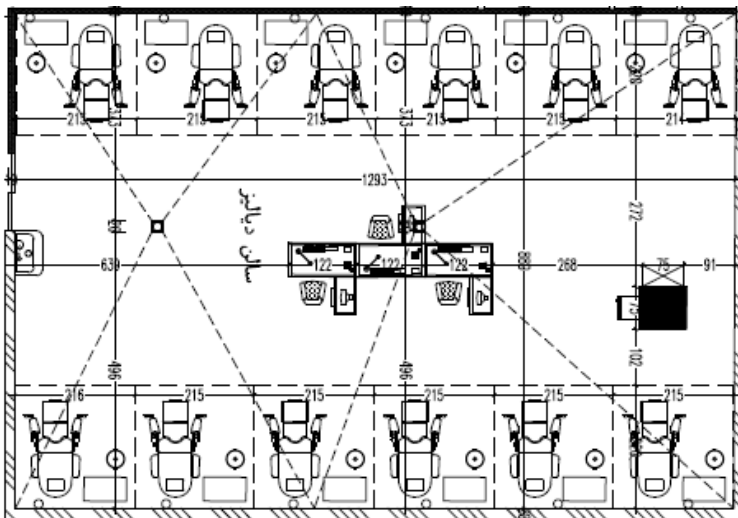


Cooperation in Dialysis Centers

Health EMC is ready to cooperate in establishment, equipping, and operation of Dialysis Centers both in BOO and BOT contractual formats . In addition to creating dialysis clinics, this company provides training to physicians, nurses, and caregivers for patients and their families.

Moreover, Health EMC has a smart offer for management a dialysis center. We have developed an executive procedure for the processes in Dialysis Centers, and turning it into comprehensive software for management of dialysis clinics, which contains the subsystems for treatment, insurance, warehouse, financial and accounting, infection control subsystems, CRM, infrastructure management and management of the chain of dialysis centers.

We have already established 7 dialysis centers with more than 100 active dialysis beds, and we have planned to increase this number to 300 until the end of 2021.



- **Food Testing & Analysis**
 - **GMO Test**
 - **Halal Food**
 - **Vegetable Oil Origin Detection**
 - **Identification of fish specie**
 - **Saffron fraud**
 - **Meat origin detection**
 - **Diagnosis of pistachio and fava beans mix**
 - **Diagnosis of almonds and peanuts mix**



Food Testing & Analysis

General	<ul style="list-style-type: none"> ○ Animal origin detection in raw and processed meat (Types of sausages, burgers, sausages, nuggets, etc.) ○ Identify the origin of protein foods (types of kebabs and kebab chickens) ○ Identify the origin of the animal in animal feed (meat powder, bone powder, fish powder) ○ Identify fish sails in canned tuna ○ GMO detection in crops and snacks ○ Scientific advice and research projects, including the identification of medicinal plants
Specific	<ul style="list-style-type: none"> ○ Animal origin detection in Dairy products (yogurt, cheese, milk, etc.), powdered milk and curd ○ Halal detection (pigs, cattle, fish and aquatic) in gelatin products such as: pharmaceutical capsules, gelatin powder, stabilizers, jellies, etc ○ Identification of genus and species of fish and shrimp (processed and unprocessed products) ○ Determining the authenticity of saffron including tracing of safflower, corn cob and turmeric in saffron by genetic method (national invention) ○ GMO detection in crude and refined oils ○ Detection of pistachio and bean mixing by genetic method (national invention) ○ Detection of almond and peanut mixing by genetic method (national invention) ○ Identification of mixing 7 vegetable oils (rapeseed, corn, soybean, hazelnut, sunflower, olive and sesame) (national invention) ○ Mixing determination of rice genotypes
Educational	<ul style="list-style-type: none"> ○ Food fraud detection by genetic method ○ Specific primers design ○ Bioinformatics ○ Determining the affinity of species from sequencing to drawing a phylogenetic tree ○ Real-Time PCR method in food fraud and GMO detection ○ Holding various educational workshops in the field related to the mentioned activities in theory, practice and virtual



GMO Food

Genetic Modified Organisms (GMO) detection in following products:

- Soybean, Canola, Maize and Sunflower seeds and products containing them, Corn flex, soy milk, soy protein etc.
- Vegetable oils
- Feed of livestock and poultry produced from agricultural products Conventional animals



Halal Food

Detection of halal food, gelatin, product including gelatin and gelatin capsules

- checking specific gene for pig and cow identification
- detecting the species of fish in the above cases



Vegetable Oil Origin Detection

Oils origin detection specially vegetable oils:

Soybean, Canola, Maize, Sunflower, Sesame, Olive, Hazelnut and Argan oils origin detection through DNA tracing. Also, we can determine the oils fraud which is mixed.



Identification of fish specie

Identifying the type of fish and marine

Detection of fish (Tilapia, Salmon, Trout, Anchovy, Tuna fish, Shark and catfish etc.) and aquatic (Shrimp, Crab, Snail, Shellfish, Octopus and etc.) in meat, fish canned, gelatin powder, gelatin drug capsules and etc.



Saffron fraud

Saffron fraud identification by using specific primers

The saffron flower (*Crocus sativus*) is one of the oldest and most expensive spices in the world.

Safflower is a common substitute sometimes sold as saffron. Also curcuma and maize tassel be used as a fraud. We can detect these frauds by using the specific primers through PCR.



Meat origin detection

Meat origin detection

We use precise molecular and genetic techniques in raw and processed meat products to be able to identify the following:

- Conventional animal and bird such as cow, goat, sheep, buff, camel, deer, chicken, ostrich, duck, turkey etc.
- Unconventional animal and bird such as horse, pig, dog, donkey, Cat, dove, rabbit, mouse etc.



Diagnosis of pistachio and fava beans mix

Diagnosis of pistachio and fava beans mix by the molecular method

Pistachios are rich in copper, magnesium and all kinds of vitamins in group B, which strengthen the immune system and prevent many diseases. Pistachio consumption also helps to make red blood cells properly. Pistachio, on the other hand, is one of the best sources of potassium, with its potassium content smaller than potassium orange.

People with Favism disease should refrain from eating or even smelling beans. The high nutritional value of pistachios has led to the importance of this product and its high price. Therefore, the profiteers sometimes mix pistachios with beans at much lower prices, and it is very difficult for consumers to identify their appearance. The bean is forbidden for people who have glucose-6-phosphate and hydrogenase deficiency (people with phytatement) because they have mixtures of vitamin, covariant and isauramil and may cause death.

We have the ability to identify beans during pistachio used in various types of confectionery, ice cream, ham, pistachios, halvah, sugar, desserts, Muscat, etc., and has been licensed by the Food, Drug and Patent Organization This is the method.

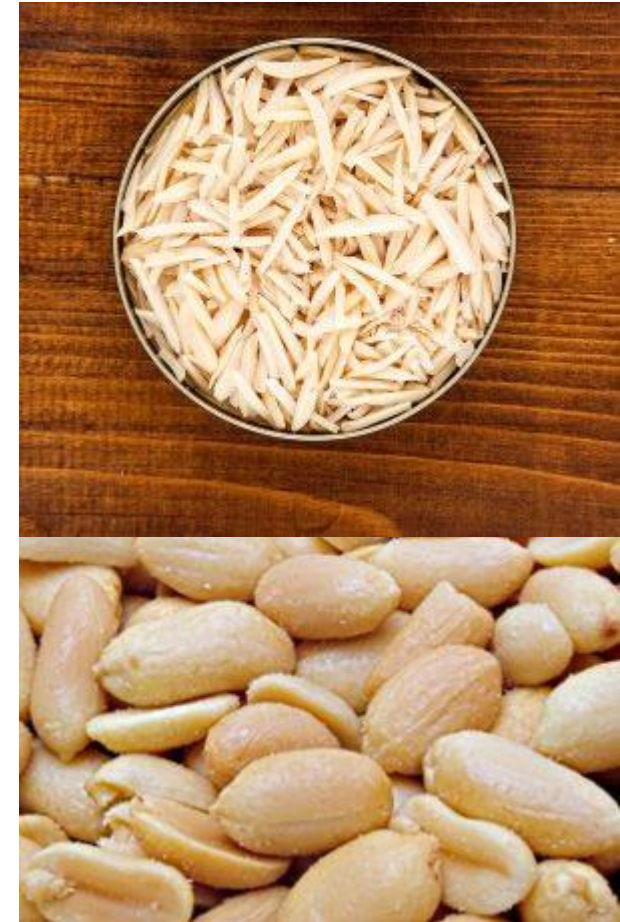


Diagnosis of almonds and peanuts mix

Diagnosis of almond and peanut mixing by the molecular method

Almonds are one of the most important dry crops in Iran. The nutritional, pharmaceutical, and health benefits of almonds and its products have led to the high importance of this product and its high price. On the other hand, peasants are mixing almonds with peanuts that are much lower. It is also difficult to identify consumers, and this kind of fraud, in addition to financial damage, will also lead to consumer health threats. Because peanut allergy is one of the most common causes of severe allergic attacks, and symptoms of peanut allergy can also lead to death (anaphylaxis). Also, in some people who are allergic to peanut, even a small amount of it leads to a serious reaction.

We are able to identify peanuts used in the almonds used in varieties of shrimps, desserts, halvah sugar, etc., and has been licensed by the Food and Drug Administration and has patented this method.



11

Biotechnology



11-1

Stem Cell Technology

- **Woundcare**
 - **Amniosin**
 - **Cell-Amniosin**
 - **Amniodisk**



Cell-Amniosin

Cell-Amniosin™ is a cryopreserved cellular human amniotic membrane-derived biological dressing. Human placental membranes are a rich source of MSCs, collagen matrix, and growth factors and also they contain different bioactive factors such as Fibronectin, Laminin, Proteoglycan and glycosaminoglycan, therefore they can support tissue regeneration and repair

Indications and Clinical use

Cell-Amniosin™ has been demonstrated in clinical trials to improve the healing of different wounds in different size such as:

- Dressing and cover the burn wounds
- Diabetic ulcers
- Chronic wounds
- Urology surgeries
- ENT (Ears, Nose, Throat) surgeries

Cell-Amniosin™ is indicated for use in the treatment of full-thickness diabetic foot ulcers greater than 6 weeks duration. Cell-Amniosin™ should be used in conjunction with standard wound care regimens and in patients who have adequate blood supply to the involved wound.

Cell-Amniosin™ is supplied frozen in a clear bag containing one piece of 2×2, 3×3, 5×5, 5×10 or 10×10 cm for a single-use application. The product can be stored frozen for up to 2 years at -75 C ± 5° C and up to 1 year at -20° C and is delivered to the customers in shipping containers packed with dry ice.



Amniosin

Amniosin™ is a cryopreserved acellular human amniotic membrane-derived biological dressing. Due to containing of different biological factors, Amniosin™ has an important reconstructive role as a biological dressing.

Amniosin™ has proved to provide two elements to the chronic wound repair process:

1. Supply of different bioactive extracellular matrix components such as collagen, Fibronectin, Laminin, Proteoglycan and glycosaminoglycan.
2. Function as a permissive, performed, normal human matrix for keratinocyte and fibroblast migration and proliferation.

Indications and Clinical use:

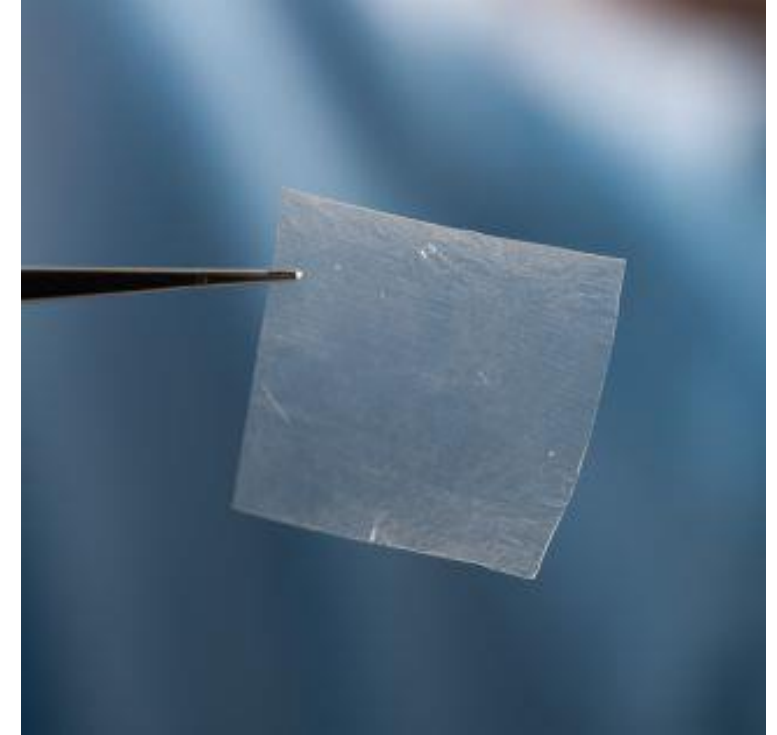
Amniosin™ has been demonstrated in clinics for Corneal and conjunctival diseases:

Observed Clinical Effects:

- Facilitate epithelialization
- Reduce vascularization
- Maintain normal epithelial phenotype
- Reduce scarring
- Reduce inflammation

As a graft for corneal diseases:

- Persistent corneal epithelial defect with or without ulceration
- Painful bullous keratopathy with erosion
- Stevens- Johnson syndrome & Toxic Epidermal Necrolysis
- Partial limbal stem cell deficiency
- Chemical burns
- Sterile corneal stromal thinning descemetocoele & perforation
- Band keratopathy, scar or tumor



Amniodisk

Amniodisk is a human amniotic membrane allograft tissue that has undergone several stages of preparation, drying and sterilization.

Amniotic membrane (amnion) is a non-vascular thin membrane that is the innermost layer of the fetal membrane that surrounds the fetus during pregnancy and it is involved in protecting and nurturing the fetus.

Amnion produces important proteins that are involved in the development of the fetus. These proteins have immune modulatory, anti-fibrotic, anti-inflammatory, antiangiogenic, non-tumorigenic, and tissue repair properties.

When maintained well, its positive effects, such as reducing inflammation and neovascularization and promoting wound healing, are maintained and can be used to enhance the process of tissue repair. This tissue derived from embryonic cells does not express HLA antigens, as a result, the risk of immunization is very low.

It has a unique collagen structure and consists of several parts:

- An epithelial cell layer
- A thick basement membrane
- A stromal matrix without vessels

Indications and Clinical use:

Amniodisk has been demonstrated in clinical trials to improve the healing of different wounds such as: Treatment of corneal ulcers, conjunctival and epithelial damages and eye burns.



12

Nanotechnology



12-1

Technological Apparatus

- **Microscopes**
 - **Transmission Electron Microscope (TEM)**
 - **Atomic Force Microscope (AFM)**
- **Nano Fabrication Equipment:**
 - **Oxidation & Diffusion Furnace**
 - **Physical Vapor Deposition**
 - **Sputtering**
 - **DRIE**



Transmission Electron Microscope (TEM)

Aimed for: Biology, Medical Science, Material Science & Engineering Applications.

Key Features:

- High contrast imaging
- High quality imaging of biological specimens
- Motorized and robust control of apertures
- Motorized X-Y specimen stage
- Thermionic tungsten electron source
- Top entry sample holder

Resolution (nm) at 80 kV	
point	0.50 nm
Lattice	0.34 nm
Acceleration voltage	
Range	50 kV, 80 kV
Stability	8×10^{-6}
Magnification	
Range	200X to 400,000X
Steps	16
Diffraction	
Selected area	>1.5 μm diameter, selected apertures (SAD)
	>3 μm diameter, selected by micro-beam illumination
Illumination system	
Electron Gun	Pre-centered tungsten hairpin filament
Beam Alignment	Electromagnetic beam alignment system
Double condenser	Factory aligned double condenser system specimen
	Illumination adjustable from 3 μm to 2 mm diameter



Atomic Force Microscope (AFM)

inability of optical microscope in imaging sizes smaller than wavelength of visible light resulted in invention of Nanoscopes in the last decades. AFM is the top in the list due to its low price and multi-applications.

Nowadays AFM is the main tool in Nano research works. Apart from 3-dimensional Nanoimaging, AFM is capable of determining various properties of the sample in Nano scale. AFM could also perform Nano-manipulations and nanolithography.

AFM Standard Operational Modes:

- Contact (Static, DC)
- Non-Contact (Dynamic, AC)
- Tapping (Semi-Contact, Intermittent-Contact)

Optional AFM kits:

- Fly Kit Operational Modes:
- Magnetic Force Microscope (MFM)
- Electrostatic Force Microscope (EFM)
- Phase Imaging
- Pro-Contact Kit Operational Modes:
- Force Spectroscopy
- Force Distance Microscopy
- Chemical Nanolithography
- Mechanical Nanolithography
- Experts Kit Operational Modes:
- Conductive AFM (C-AFM)
- Force Modulation Microscopy (FMM)
- Kelvin Probe Force Microscopy (KPFM)
- Piezoresponce Force Microscopy (PFM)



Atomic Force Microscope (AFM)

Features:

- All-in-one Computer
- High magnification OM
- Developed tip fixing procedure
- Simplified procedure for Nano-imaging
- New generation of the controller
- LAN feature
- Fast Approach
- Time saving in approach
- Fantastic compact design
- Direct online communication with users
- Developed image making software
- Tip putting up straight and easy
- Elegant and innovative appearance and modest volume
- Extremely user friendly; eliminating strains on users
- Robustness

Main applications:

- Quality control of high tech technologies
- Solar cells, semiconductors and integrated circuits
- Surface engineering- material science
- Pathology and medicine synthesis- medical science
- Bio technology researches
- Nano scale Mechanical and electrical properties
- Ceramics and coatings
- Polymers and chemical products



Atomic Force Microscope (AFM)

Scanner: XY scanner 50 µm Maximum Scan Range 1 nm Resolution Z Scanner 4 µm Maximum Scan Range 0.1 nm Resolution	Electronics: 4 Channel ADC 24bit 4 Channel DAC 24bit Signal processing 40MHz frequency zinc processor Integrated Functions 10, 100, 1000 Mb/s LAN
Stage XY Stage Software-controlled motorized stage for sample positioning 15 mm Stage travel Range 40 nm XY Stage Steps Z Stage 15 mm Stage Z travel range 40 nm Z Stage Steps Automatic engage of the cantilever to the sample surface (Auto Fast Approach)	Software: Data acquisition Real-time 100 Mb/s Windows 10 compatible Integrated optical view window for both sample and probe vision Image processing Independent software for image processing, data analysis and presentation Capability of exporting different data of images Build in with all Microsoft OS
Sample Mount: 20 mm Maximum Sample Diameter 10 mm Maximum Sample thickness Includes slight magnetic sample holder -10V to +10V bias voltage range applied to the sample	Dedicated Computer Configuration: 21.5" All in One PC Core i5-7500 CPU 8GB DDR4 RAM 1920*1080 Resolution
Top view Microscope: 8 megapixel, Color 60X to 600X Optical Zoom Integrated Lighting 260µm² to 2.6mm² Field of view	AFM Unit: Dimension 300 mm × 400 mm × 300 mm Weight 20 Kg without packing
Head: High precision adjustment by micrometer screws 670 nm laser Frequency 5 mW Maximum laser diod power	Options/Accessories: Plug and Play Microscope Dimmer Standard test samples, Sample mounting kit, Sample substrate Tip changing kit including vacuum pen, tweezers, magnet box



BACK



CONTACT US

Oxidation & Diffusion Furnace

Oxidation Furnace:

Thermal Oxidation is a simple route to cover a silicon substrate with oxide. In microdevices oxide may be used for a variety of purposes from chemical attachment and modifiability of surfaces to using oxide as a filter material in gaps etc. In micro fluidic channels with submicron accuracy level or making microcantilevers. Based on the type of oxidation thermal oxide may be categorized as dry and wet oxides.

Diffusion Furnace:

In order to adjust the conductivity of semiconductors, small amounts of dopants are injected in the bulk material. The dopant is inserted in the silicon by diffusion in a diffusion furnace. Doping can be achieved by Phosphorus Oxychloride $POCl_3$.

Wafer size	100mm, 75mm or any custom size
Wafer load	FP: +100 RD: 25 to 50 (typical)
Heating system	3 or 5 Zone
Flat zone	FP: up to 750 mm (30") RD: down to 300 mm (12") $\pm 1^{\circ}\text{C}$ across flat zone
Process temperature	Up to 1100°C
Power supply	2 to 5 line with 220V, 40A, 50 or 60Hz
Options	wafer handling automation Wafer gripper Water cooling system



Physical Vapor Deposition

Evaporation is a common method of thin-film deposition. The source material is evaporated in vacuum. Evaporation is commonly used in microfabrication to deposit metal films.

Application:

- Thin Film Physics
- Sensors and actuators
- MEMS technology
- Solar Cells
- Plasma Sterilization
- Plasma surface activation
- Plasma Based High End Lithography (RIE and Plasma Etching)
- Metallization for contacts
- Magnetic thin films
- Ceramic coatings

Wafer size	100mm, 75mm or any custom size
Wafer number	3
Evaporation material	Au, Cr, Ni, Ag, Al,...
Thermal source	3
Process temperature	Up to 300°C
Ultimate pressure	≤ 10E-6
option	Graphite substrate heating system wafer fully rotational stage



Sputtering

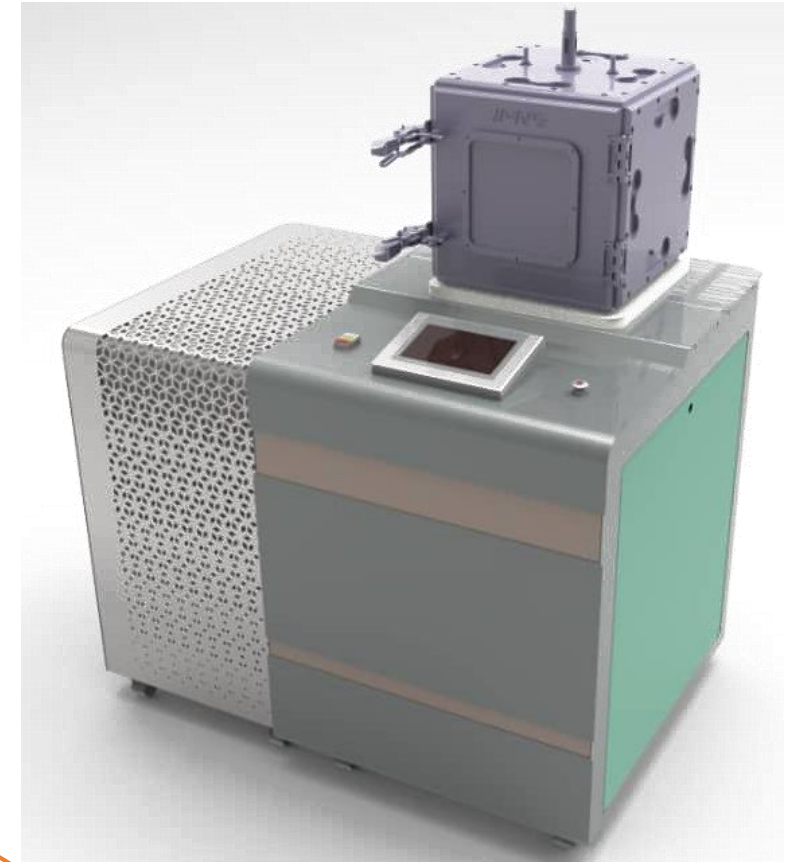
Design and manufacture of Sputtering with the following feature:

Substrate:

- Ability to rotate in two axes for layer uniformity
- Ability to load 5 wafers (4inch) simultaneously
- Graphite substrate heater
- Ability to adjust the sub layer temperature up to 300°C

Vacuum system

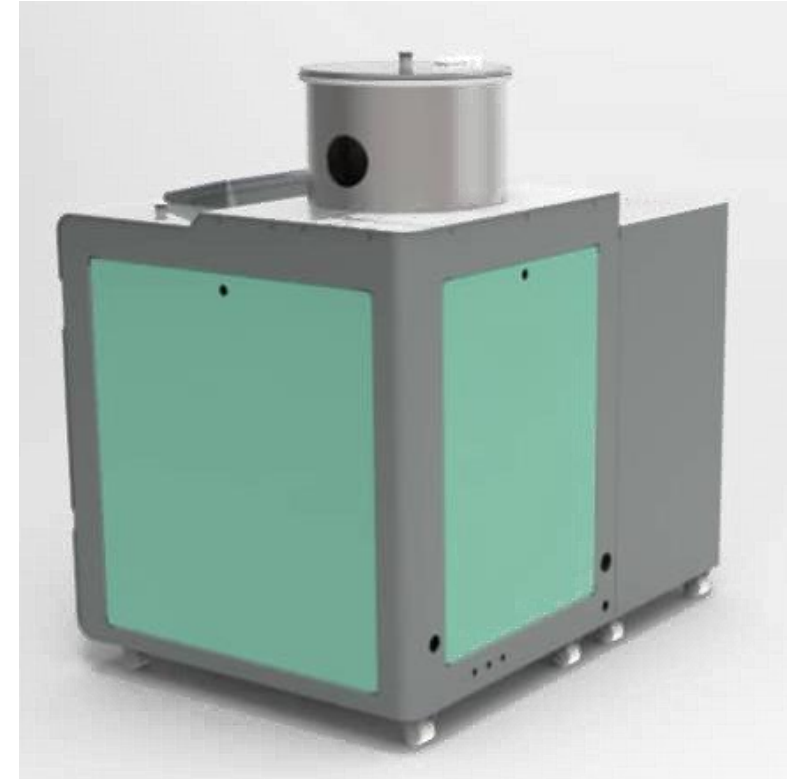
- Equipped with turbo and rotary pump
- Equipped with rough and fore line vacuum valves
- Automatic vacuum system control
- Equipped with wide range and Pirani gauge



DRIE

Deep Reactive Ion Etching design with the following feature:

- **Equipped with ICP and CCP system**
- **Equipped with turbo and rotary pump**
- **Automatic vacuum system control**
- **Ability to process 4inch wafer**
- **High uniformity etching**
- **Highly directional deep etching**



BACK



CONTACT US

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Micro & Nanotechnology-powered Products

- **AFM Tip**
- **TCD Sensors**
- **Micro Needle**
- **Micro GC**



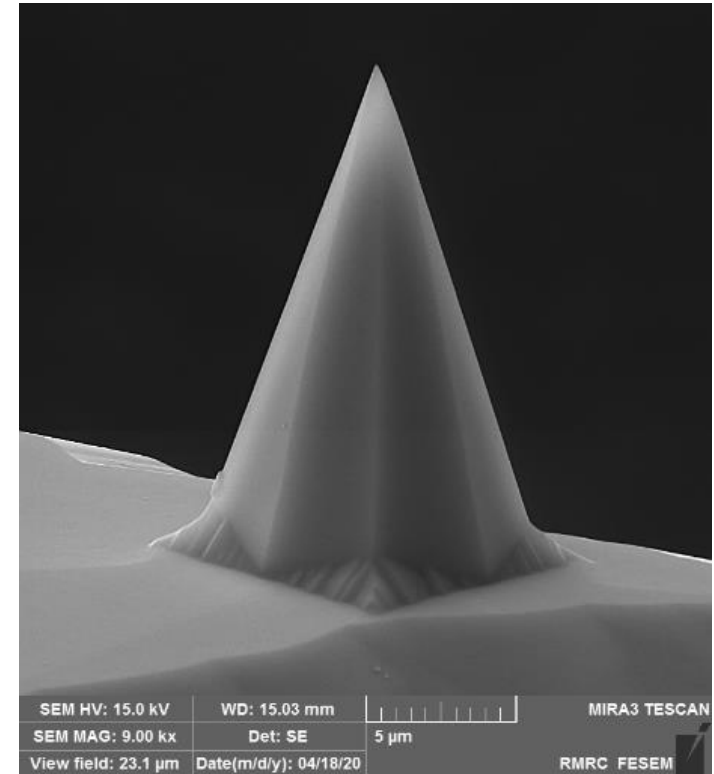
AFM Tip

Shape: tetrahedral

Height: 10 to 20 μm

Properties:

- **Compatible with the most of commercial AFM devices**
- **High reflective chemically stable Au backside coating**
- **The base silicon is highly doped to avoid electrostatic charges**
- **High aspect ratio tips**
- **Probes are available with no coating**
- **Probes are available tipples**
- **Probes packaged in boxes with 15, 50, 400 chips and One 4inch wafer**
- **Probes with conductive and magnetic coatings are available**
- **Thick cantilevers possible**
- **Monolithic design**
- **Semi-contact/Noncontact Probes**



TCD Sensors

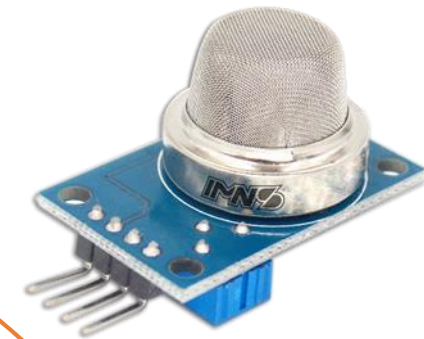
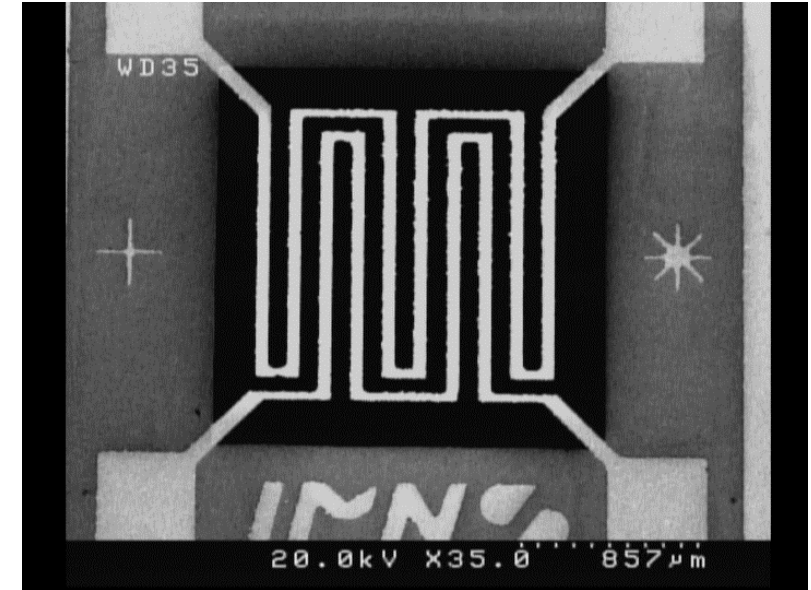
Fabricated 350 pieces of TCD Sensors in a 4-inch wafer.

Features:

- Extremely low power consumption
- Operate in high temperature environment
- Very stable long-term operation
- Minimal field maintenance required

Applications:

- Replace traditional TCD in gas chromatography (GC)
- Leak detection for Natural Gas (CH₄), Hydrogen (H₂), and refrigerant gases
- Natural gas quality control
- Natural gas engine combustion control
- Fuel cell applications
- Carbon Dioxide (CO₂) monitoring for Indoor Air Quality (IAQ)
- Methane (CH₄) detection for mining safety
- Pirani vacuum gauge
- Measurement of concentration of Helium, Hydrogen, etc. in air and other gases.
- Measurement of thermal conductivity and gas type
- Measurement of binary gas-mixture composition.



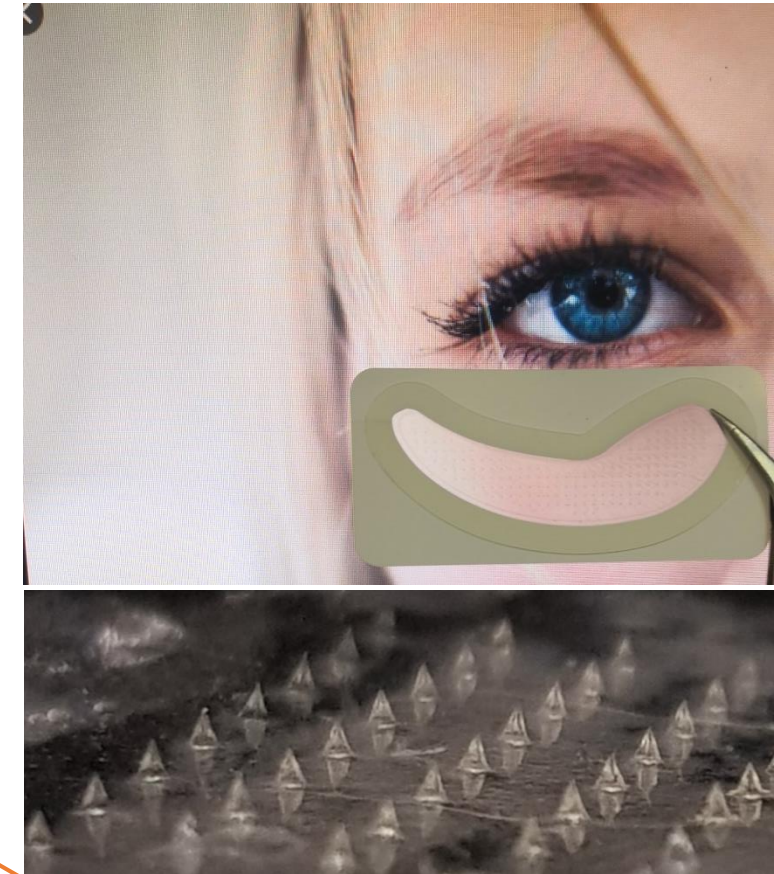
Micro Needle

Microneedling patches are great options to enhance delivery and potentially the future of not just skin care but medicine.

- Producing original masks with special sizes to respond to the anatomical features of face (the areas around the eyes and smile line)
- In addition to excellent biocompatibility, the use of CMC material in the back substrate of CMC micro-needle has greatly expanded in the cosmetics industry due to the lack of sensitivity and unpleasant feeling towards the skin.

Applications:

- Cosmetic application
- Disease diagnosis
- Disease treatment
- Immunobiological administration



Micro GC

A gas chromatograph is a chemical analysis instrument for separating chemicals in a complex sample.

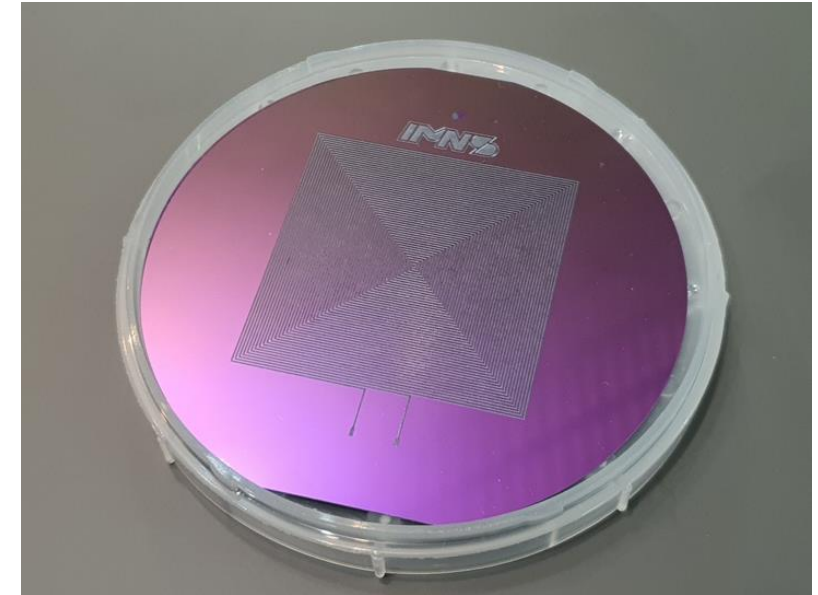
A microfabricated GC system requires a number of components to function properly: preconcentrator, micro-valves for injecting the sample into the carrier gas, microfabricated columns well-functionalized for the specific use, heaters and temperature sensors for controlling column temperature, and detectors for detecting the arrival of different types of molecules.

Application:

- Natural gas and extended natural gas analysis
- H₂S and odorant in natural gas
- SO₂ and H₂S gas monitoring
- Permanent gases and olefins in refinery gas
- Syngas, fuel cell, landfill gas and biogas
- Impurities in petrochemical products and specialty gases
- Solvent/VOC gas monitoring
- Catalyst research for alternative energy
- Mud logging in oil and gas exploration
- Mine gas
- Carbon Monoxide diffusing capacity in the mouse lung

gas chromatography column fabricated on (4 inch) silicon wafer.

Length	5 meter
Width	250 micron
Depth	150 micron
Detector	TCD, FID,...



13

Laboratory



13-1

Laboratory Equipment & Supplies

- **Liquid Handling**
- **Sharps Container & Safety**
- **Sampling Instruements**
- **Tube Racks, Tips Racks, Microtube Racks**
- **Sample & Equipment Transportation Instruements**
- **Microscopic & Staining Equipment**



Liquid Handling

single channel, fixed volume pipettes

Fixed volume pipettes are designed to deliver superior performance and accuracy year after year. The non-involvement of multiple metal and plastic components allow the pipette to perform well in its long-time life span. Utilizing numerous leak tight O-rings, offers ultimate precision and prevents leakage that may occur with a single-seal design. P.I.P. pipettes operate according to air cushion principles (air displacement pipettes) thus, they are highly accurate for most pipetting applications.

- available in a wide range of nominal volumes from 1 µl to 1000 µl
- Ultimate precision
- Exclusive interior design
- Autoclavable
- Ergonomic Design
- Easy Identification



Liquid Handling

Graduated Pasteur Pipette

Handling and transferring a certain volume of liquid

The Graduated Pasteur Pipettes are available in 3 different sizes to meet user's needs. These Pasteur Pipettes are ideal for measured transferring of liquids, preparation of fixatives and stains. They are made from LDPE (low-density polyethylene) which is inert and chemically unreactive to most of common acids and biological liquids. They have low-affinity surface which reduces cell, protein and sample loss. These Pipettes can be sterilized by Ethylene Oxide and Gamma irradiation. These pipettes can also be used as freezing vials, and their tips are heat sealable, providing a non-toxic, inert sample container. They are ideal for all laboratory procedures that require fast and safe measured transferring of liquids, aliquoting, drop by drop work, slide preparation and adding reagents/chemicals.

Extra Long Pasteur Pipette

Handling and transferring liquids, with access to unreachable points and narrow-neck containers

The Extra Long Pasteur Pipettes are available in 3 different lengths to meet laboratories various needs. The main advantage of these pipettes is their high capacity and long stem that makes it possible to reach into large bottles with narrow necks and makes sampling from hard-to-access environments possible. These pipettes are made from LDPE (low-density polyethylene) which is inert and chemically unreactive to most of common acids and biological liquids. They have low-affinity

surface which reduces cell, protein and sample loss. These Pasteur Pipettes can be sterilized by Ethylene Oxide and Gamma irradiation. They can also be used as freezing vials, and their tips are heat sealable, providing a non-toxic, inert sample container. Extra Long Pasteur Pipettes are ideal for subculturing after centrifugation to remove cell layers; layer in columns / transfers in columns, loading gels; reaching into large bottles, 24 - hour urine containers, blood culture bottle, cylinders and jars.



Liquid Handling

Bellows Pasteur Pipette

Handling and transferring liquids, with careful control and ease of use

The Bellows Pasteur Pipettes are available in 2 capacities and 6 different sizes to meet laboratory needs. These pipettes with integrated bellows and stems provide easy control during liquid handling and have reliable performance.

These pipettes are made from LDPE (low-density polyethylene) which is inert and chemically unreactive to most of common acids and biological liquids. They have low-affinity surface which reduces cell, protein and sample loss. P.I.P. Bellows Pasteur Pipettes can be sterilized by Ethylene Oxide and Gamma irradiation. These pipettes can also be used as freezing vials, and their tips are heat sealable, providing a non-toxic, inert sample container. They are ideal for all laboratory procedures such as drawing and dispensing viscous liquids, sampling and decanting infectious or toxic liquids, transferring supernatant, adding reagents/chemicals and extracting samples.



Liquid Handling

Rotary micropipette stand (6-clamp) Holding and organizing micropipettes

The Rotary Micropipette Stand (6-clamp) is designed for safely holding micropipettes upright. It rotates around the axis which facilitates retrieving and organizing micropipettes. This stand is robust, stable and space saving, making your work bench look neat and tidy and its heavy base prevents toppling over. The rotary micropipette stand is made from ABS which is lightweight and resistant to most of the common laboratory acids and chemicals.

- Useable for single channel and multichannel pipettes at the same time
- Appropriate for most of the pipettes (different sizes and brands)
- Holding and organizing 6 micropipettes
- Rotary axis for facilitating retrieving micropipettes
- Highly balanced (stable)

Micropipette stand (5-place) Holding and organizing micropipettes

This stand has 5 places designed for safe holding of micropipettes upright. The micropipette stand is made of plastic which is lightweight but robust and it is useable with most of the common micropipettes.

- Useable for single channel and multichannel pipettes at the same time
- Appropriate for most of the pipettes (different sizes and brands)
- Holding and organizing 5 micropipettes
- Facilitating retrieving micropipettes
- Highly balanced (stable)
- Space saving



Liquid Handling

Tips Rack

Storing and organizing micropipette tips

Tips Rack is ideal for storing any micropipette tips from 0.1-1000µl. These racks are made from polypropylene, are autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals.

According to the wells configuration, using the 8-channel and 12-channel micropipettes is recommended, but there is no limitation to use other micropipettes. These boxes have transparent hinged lids with latch, and their rectangular structure makes them safely stackable. They are available in 3 different models with 3 specific colors for an easy retrieval.



Plastic Graduated Cylinder

Measuring and transferring liquids

The Graduated Cylinders are made from polypropylene, are autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. One of the advantages of these cylinders is their hexagonal base which makes them balanced and stable. Each cylinder has a mouth designed to facilitate pouring fluids. They are available in 5 different capacities.



Sharps Container & Safety

Sharps are one of the most useful and yet, the most dangerous tools in healthcare industry, as in the majority of the medical procedures (from the first specimens collected from the patient for hospital reception and drug injection, to specialized surgical procedures) sharps are vastly applicable. Moreover, all the expert and non-expert staff in the medical centers are exposed to the sharps.

Even though the sharps wastes form a small part of the hospital wastes, a large percentage of the annual injuries in the medical center pertains to them. Needle stick injuries and other blood or bodily fluid incidents transmit so many blood borne pathogens including human immunodeficiency virus (HIV), hepatitis B virus (HBV) and hepatitis C virus (HCV), and viral hemorrhagic fevers. The diseases can also be transmitted by mucus membrane.

Therefore sharps waste collection and transportation requires safe and standard containers. The design of these containers shall make them leak-proof, with no harm for the user to dispose of the waste or carry it. They also need to be autoclavable and impact resistant, with a sanitary and stylish shape. There are a wide range of products under this category:

- Standard Sharps Containers
- Sharps Containers
- Color-Coded Sharps Containers
- Sharps Containers Table
- RC plus Sharps Containers
- R Series Sharps Containers
- C Series Sharps Containers
- P Series Sharps Containers
- XL Sharps Container
- Ampoule Opener
- Trolley for XL Sharps Container
- Injection and Dressing Tray
- Brackets for Sharps Containers

Capacity* Model	0.08	0.3	0.5	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7	8.5	9.5	11.5	12	15	22	25	26.3	
RC plus					✓		✓		✓		✓		✓	✓									
Ra						✓		✓	✓	✓		✓			✓	✓	✓						
Rb																			✓	✓	✓		
C plus				✓	✓		✓				✓												
Cd			✓	✓	✓		✓				✓												
Cc														✓				✓					
P	✓	✓																					
XL																							✓

* All capacities are in liter.



Sampling Instruments

Fix Vein Tourniquet

Fast blood sampling and preventing vein from rolling

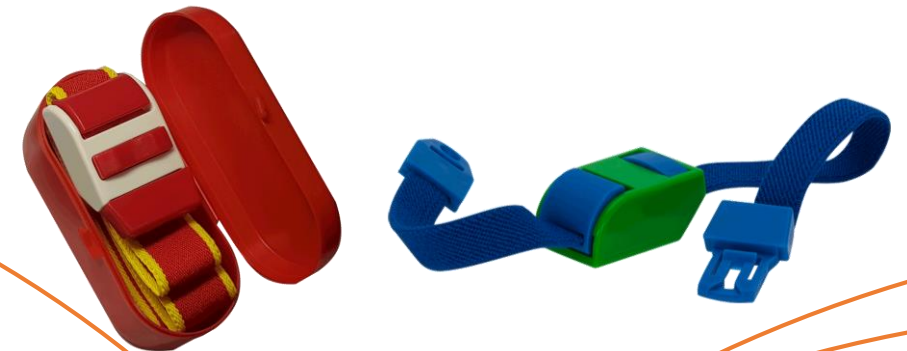
One of the problems bothering healthcare workers in process of infusion and venipuncture is rolling veins, especially in the elderly and children. The special design of P.I.P. Fix Vein Tourniquet prevents vein slippage by fixing and immobilizing the vein for certain puncture and cannulation. Because of the curvature in the buckle's structure, this tourniquet does not block the vein. Therefore, the coagulation system will not be activated, so it will not have a considerable effect on coagulation tests and the sampling area, which is tied, will have the minimum acidosis. The buckle of Fix Vein Tourniquet is made from ABS and POM. This tourniquet can be opened single-handedly with easy-release mechanism. The strap is latex free, smooth and washable, which does not wrinkle the skin or pinch.



Tourniquet

Facilitating infusion and venipuncture

The structure of P.I.P. Tourniquet makes a meaningful difference: single-handed operation due to easy release mechanism, no uncomfortable pinching and latex free. This tourniquet is washable and its buckle is made from POM and ABS which is high quality and durable. They are available in different colors in two sizes for children and adults.

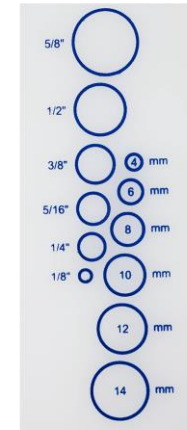


Sampling Instruments

Dissecting Board

Dissecting different tissues with quick and accurate measurement on the board

Dissecting Board is ideal for cutting the tissue samples easily and precisely which is often used in pathology sections. Dissecting board is resistant to most of the laboratory acids and chemicals. This product has many advantages over glass, wood, or steel ones. Fluids streaming out of the board, blunting blades, swelling and curvature of the board, are some of the common problems of conventional boards. All of these defects are eliminated in these boards. For measuring tissue samples, there are scaled axes, a netted rectangle and circles with different diameters printed on this board so that using a ruler or transferring the sample will not be necessary. Besides, a wide surface and also the drainer grooves embedded around the board will prevent overflow of fluids. It can also be washed and disinfected.



Disposable Base Mould

Paraffin embedding and preparing tissue block

Disposable Base Mould is designed with 6 different models with excellent thermal exchange and the paraffin does not stick to it, so that the expensive and time-consuming process of cleaning metal base moulds will be no longer required. The curved edges and the completely flat and smooth inner surface allow easy block removal and paraffin ribbon continuity. Their built up sidewalls reduce risk of paraffin spillage during embedding and the standard dimensions are compatible with most of the tissue cassettes. They are cost-effective to be discarded after use, yet strong enough to be reused.



Sampling Instruments

Tissue Cassette

Processing, embedding, sectioning and storing tissue samples

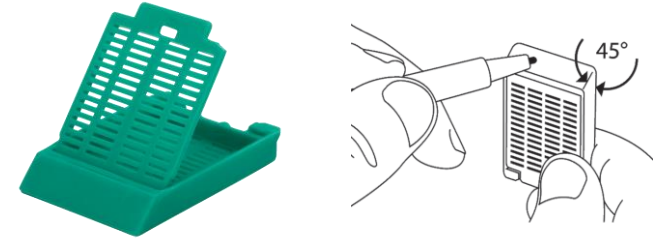
Tissue Cassettes are disposable and resistant to the common solvents in histology and they will keep tissue sample totally immersed in the fluids. The labelling area has a 45° angle which can be used with cassette labelers. This product is available in different colors for sorting and classification of samples.

- Resistant to the common solvents in histology
- Total submergence in liquids
- Usable with cassette labelers
- Made from high-density POM



Tissue Cassette with Lid

- Hinged lid to be shut and reopened multiple times
- With 124 slots on the base and lid



Tissue Cassette without Lid

In two models with 62 square holes or 34 round holes



Stainless Steel Tissue Capsule

Keeping and processing tissues

This Tissue Capsule is autoclavable and made from stainless steel. There are holes embedded on its lid and base to facilitate the fluid flow. It has a snap cap with 3 clamps. Tissue Capsule is resistant to most of the common laboratory acids and chemicals and has secure snap cap.



Sampling Instruments

CBC Tubes

Storing laboratory samples with volume measurement

The CBC Tubes are disposable and anticoagulant free. These tubes are in two models, made from polystyrene and polypropylene with two types of caps (snap cap made from polyethylene and push cap made from polypropylene). As displayed schematically, the CBC tube is graduated. In addition, bottom of these tubes are flat that makes them stable upright.

Simple Test Tube

Storage and transport of laboratory samples

These disposable tubes are made from transparent polypropylene and can be used for storing or transporting different samples. They are resistant to most of the common laboratory acids and chemicals. Simple test tubes are available in two sizes, with cap (push cap made from polypropylene and snap cap made from polyethylene) or without cap.

Winged cap for test tubes

With two flexible flanges to ensure a leak-proof seal

The winged cap for test tubes are made of polyethylene (PE) and they are available in various colors for easy identification and color coding of samples. Each cap features two flexible flanges to ensure a leak proof seal. These winged cap are available in 3 sizes (12, 13, 16 mm in diameter) and are suitable for test tubes, round cuvettes and centrifuge tubes.



Sampling Instruments

Conical Tubes

Storing laboratory samples, applicable in centrifuge

Conical Tubes are disposable and made from transparent polypropylene. These Tubes are graduated and available in two sizes of 15ml (graduated up to 12) and 50ml for storing and centrifuging samples up to 6500 g (RCF). They are also autoclavable and freezable. These tubes have screw top lids in different colors and are resistant to most of the common laboratory acids and chemicals.

Round Bottom Tube

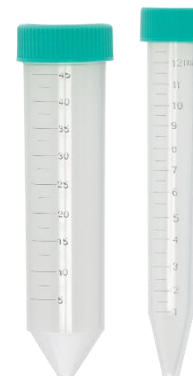
Storing laboratory samples

Round Bottom Tube is disposable and available in two models of transparent and opaque, which are non-sterilized. The transparent model is made from polystyrene which is sterilizable by Gamma irradiation, while the opaque model is made from polypropylene which is autoclavable and both models are sterilizable by ethylene oxide. These tubes are vastly used in immunoassay tests (RIA, EIA...) and can be also used for storing or diluting samples. Due to their dimensions, these tubes can be used in most laboratory and medical equipment with no need to change the tubes and this prevents losing samples while transferring them.

Specimen Container with Spoon

Sampling and storing the samples

Specimen Containers with Spoon are disposable, made from polypropylene, with a capacity of 15ml and depth of 51mm, suitable for storing and carrying different samples such as tissue, mucus, semen etc., with leakproof screw-top lid and attached spoon. In order to facilitate storing, it is available in different colors which can help laboratory personnel to choose and assign certain colors to each sample. This container is autoclavable and resistant to most of the common laboratory acids and chemicals.



Sampling Instruments

Filing Cabinets for Slide, Tissue Cassette, and Tissue Mould Managing and archiving the samples

Because of the probable need to reuse a slide or preparation of new slides from a specific tissue block, in hospitals pathology departments and different laboratory sections, long-term preserving and archiving is of great importance. With regard to the necessity and sensitivity of retrieving the samples, our Filing Cabinets have the following properties:

- Humidity resistant in comparison to metal models
- No decay or mould in comparison to wooden models
- Lightweight in comparison to metal models
- High-capacity drawers with numbering for easy retrieval
- Smoothly-moving drawers
- No sharp edges
- Stackable
- Made from ABS

Filing Cabinet for Slide

- Managing and archiving 76 mm × 26 mm slides
- Causing no damage to the slides (due to the orderly grooves)

Filing Cabinet for Tissue Mould

- Managing and archiving tissue moulds

Filing Cabinet for Tissue Cassette

- Managing and archiving standard tissue cassettes

Metal Trolley for P.I.P. Filing Cabinets

- Organization and easy transportation of the Filing Cabinets



Sampling Instruments

24 - Hour Urine Collection Container

Storing and measuring urine specimen during 24 hours

The Urine Containers are made from polyethylene and are graduated to provide fast and easy measurement. These containers have two apertures: one is wide in order to facilitate sample collection by patient; the other is small for laboratory personnel to pour the specimen into other containers without trickling. They are supplied in 2 models: horizontal and upright, with different capacities in two colors. The upright model occupies small space and the horizontal model is suitable for placing in refrigerators.

- Graduated
- Handle for easy transportation
- Separate sampling and transferring apertures
- Amber tinted model for photosensitive analytes

Stool Container with Spoon

Storing and transferring stool samples

The disposable P.I.P. Stool Container with an appropriate design is easy to use by patients and is available in two capacities of 15 and 30 ml with screw or push cap. The spoon is not embedded at the center of the lid so that it can be used more easily without the possibility of hand touch. Moreover, the container's shape makes it proper for labeling. P.I.P. stool containers are made from polypropylene and polyethylene.



Sampling Instruments

Plastic Spatula

Collecting cervical samples and transferring onto slide

Our disposable spatulas are made from HIPS (High-Impact Polystyrene). Plastic Spatulas have many advantages over wooden ones; for instance, for sampling of the endocervix and ectocervix, due to the infiltration of epithelial cells into fibers of the wooden spatula and failing to transfer them onto the slide, the detailed microscopic study is practically impossible. But there will not be such defects in plastic spatulas and their ribbed surface facilitates sampling and transferring sample onto the slide. Its flexibility and rounded smooth edges are some other advantages.



Sampling Instruments

Inoculating Loops, Needles and Spreaders

Needles, spreaders and inoculating loops are important tools used vastly in microbiological and cell culture for a multitude of different tasks. Some of these tasks involve the planting and streaking of hundreds of urine specimens per day or the careful selection and extraction of proper material for culture within sticky samples like sputum, pus, tissue or feces.

Choosing the right inoculating loop depends on the required task and the user's need for ease of use and more accuracy. Some microbiologists prefer to use metal inoculating loops and sterilize them with loops sterilizers or Bunsen to use them again, while others prefer or need to use disposable inoculating loops. Plating and streaking specimens in petri dish usually require the use of plastic inoculating loops. These inoculating loops are made from different types of materials that impacts their rigidity or flexibility of the products to meet user's different requirements.

Metal Inoculating Loop

Sampling a certain volume Metal Inoculating Loop is made from a special alloy, with the capacity of 5µl. Bunsen burner or other conventional methods can be used to sterilize this inoculating loop. One of the advantages of this alloy is that it cools down quickly after sterilization. Apart from flexibility, this loop is rigid enough for sampling in all culture environments.

Plastic Inoculating Loop

Sampling a certain volume Plastic Inoculating Loops are sterile, available in 3 different models, made from polypropylene (flexible) or polystyrene (rigid). These inoculating loops are hard enough for sampling in all culture environments. This product is disposable and resistant to most of the common laboratory acids and chemicals, available in different volumes and colors.



Sampling Instruments

Inoculating Loop Holder

Holding metal inoculating loops for sampling

To extend the application of Inoculating Loop Holder and its lifetime, it is sterile, made from brass alloy which is resistant to heat. The handle of this holder is insulated by PVC coating which increases user's convenience and prevents it from heating up. Each pack contains 6 holders plus 12 meters of special wire.

Spherical Spreader with Needle

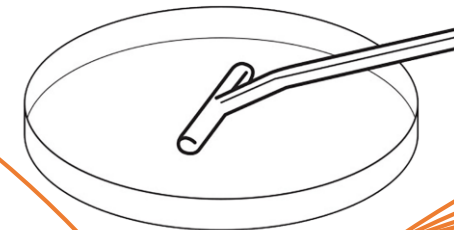
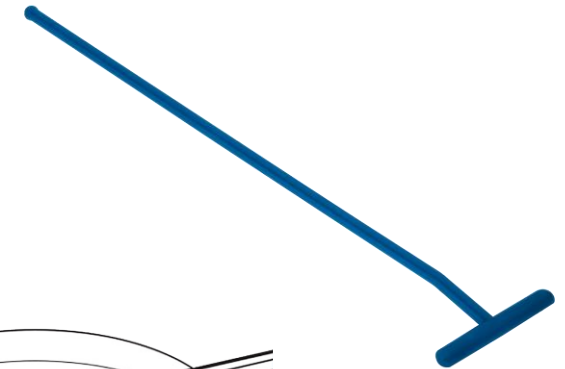
Sectional spreading of sample

This product is a spherical spreader at one end and at the other, a needle. It is sterile, available in different colors made from polypropylene (flexible) and polystyrene (rigid). It is sterile also disposable and resistant to most of the common laboratory acids and chemicals.

T-shaped Spreader

Flattening samples

T-shaped Spreader is sterile, available in polypropylene (flexible) and polystyrene (rigid) in different colors. Its base length (spreading part) is 36mm and it can be used across all Petri dishes. The special design of P.I.P. T-shaped Spreaders prevents any cutting or gouging of agar during inoculation of culture plates. It is also disposable and resistant to most of the common laboratory acids and chemicals.



Tube Racks, Tips Racks, Microtube Racks

Chain Rack

Storing and organizing test tubes

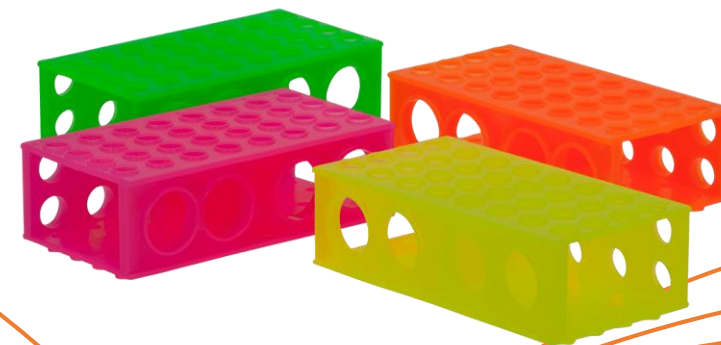
The Chain Rack has a unique linkable design that enables the possibility of multiple configurations to form different shaped tube racks. It holds 5 ml tubes on one end or 15 ml tubes (15-17 mm of diameter) on the other. User can mix and match the well sizes to create one rack that holds multiple sized tubes in a variety of favorite and functional configurations.

- Saving bench space with the flexibility of holding multiple tube sizes in one configurable rack
- Creating larger tube rack configurations by linking together multiple Chain Racks
- Made from polypropylene

Universal II Rack

Storing and organizing different tubes and microtubes

Universal II Rack is ideal for different test tubes, microtubes, and conical tubes. Made from polypropylene, it is autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. For an easier retrieval of the tubes, it has an alphanumeric grid, available in different colors to facilitate classification.



Tube Racks, Tips Racks, Microtube Racks

Microtube Combo Rack

Storing and organizing microtubes while keeping them cold

Microtube Combo Rack is designed in two models, suitable for accommodating different microtubes in one box which allows user to keep the samples cold. To do so, the box's lower container can be filled with crushed ice or water. This rack is made from polypropylene which is autoclavable and freezable and resistant to most of the common laboratory acids and chemicals. Its microtube holder has alphanumeric grid for easy retrieval of the microtubes. Microtube Combo Rack has a transparent hinged lid with a latch.

Tak Rack Microtube

Storing and organizing microtubes with 8 removable segments

Tak Rack Microtube has 8 reversible segments that 64 x 0.5ml microtubes by using one side of the rack or 96 x 0.2ml microtubes by using the other side can be placed in this rack (they can also be combined). Another advantage of this product is the ease of use and it stops opened microtube lids from interfering with others.

Tak Rack Cryotube

Storing and organizing microtubes and cryotubes with 8 removable segments

Tak Rack Cryotube is designed with 8 segments to hold 64 x 1.5 or 2ml microtubes/cryotubes. Wells of this rack have a center depression to stabilize conical tubes and a cryogenic vial lock for one-handed cap removal.



Tube Racks, Tips Racks, Microtube Racks

Microtube Storage Rack

Storing and organizing microtubes

Microtube Storage Racks are made from polypropylene, are autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. Microtube Storage Rack has alphanumeric grid for an easy retrieval of microtubes. These racks have transparent hinged lids with latch, and their rectangular structure as well as the raised edges on the lid makes them safely stackable. They are available in 3 different models and various colors. The variety of colors facilitate classification.

Cryo Box

Storing and organizing tubes and microtubes up to 2ml

Cryo Box can be used to store cryotubes with volumes up to 2ml. It is made from polypropylene, is autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. There is an alphanumeric grid on the base for an easy retrieval of tubes. These boxes have transparent hinged lids with latch, and their square cross-section makes them safely stackable. They are available in various colors. The variety of colors facilitates classification.

Tips Rack

Storing and organizing micropipette tips

Tips Rack is ideal for storing any micropipette tips from 0.1µl to 1000µl. These racks are made from polypropylene, are autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. According to the wells configuration, using the 8-channel and 12-channel micropipettes is recommended, but there is no limitation to use other micropipettes. These boxes have transparent hinged lids with latch, and their rectangular structure makes them safely stackable. They are available in 3 different models with 3 specific colors for an easy retrieval.



Tube Racks, Tips Racks, Microtube Racks

Eppendorf Rack

Storing and organizing microtubes

Eppendorf Rack with square wells is designed to hold all kinds of microtubes and tubes with diameters up to 10 mm. It is made from polypropylene, is autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. It has alphanumeric grid for easier retrieval. The advantage of this rack is that it can be folded and unfolded when necessary in order to save space and put a large number of them in autoclave.

Pop-Up Rack

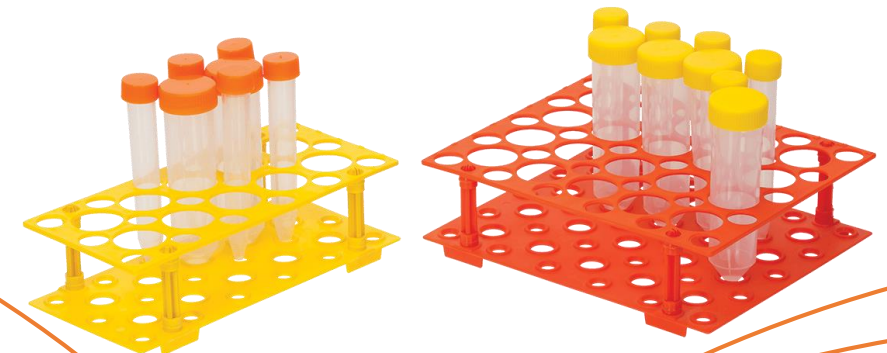
Carrying and organizing laboratory sample containers

Pop-Up Racks are made from polypropylene, are autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. In addition to stabilizing sample containers and tubes, these racks provide easy storage and organization of containers and test tubes. They are available in different colors. This product is foldable to save space while stacking and autoclaving.

Conical Tube Rack

Storing and organizing different test tubes

Conical Tube Rack is made from polypropylene, is autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. It has alphanumeric grid for an easier retrieval of tubes. One of the advantages of this rack is that it can be collapsed and reassembled to save space when necessary and autoclave a larger quantity of them at the same time. It is available in 2 different models in yellow and orange to facilitate classification.



Tube Racks, Tips Racks, Microtube Racks

Test Tube Rack

Storing and organizing test tubes

Test Tube Rack is made from polypropylene, is autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. Side walls provide labeling area. The main advantage of these racks is that the parts can be collapsed and reconnected when necessary to save space and put more of them inside autoclave. They are available in 4 different models.

Mega-Mix Rack

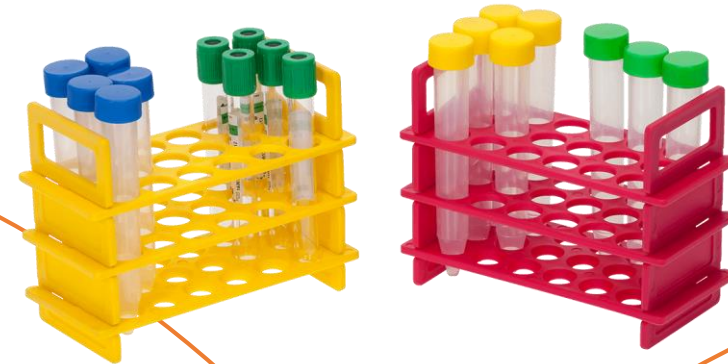
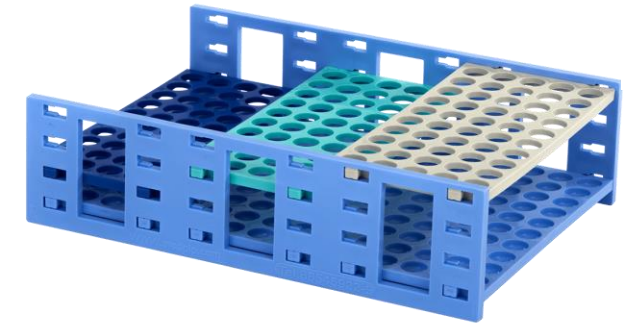
Mega-Mix Racks are available in two models of 150-well (for tubes with maximum diameter of 16mm) and 216-well (for tubes with maximum diameter of 12mm). Each rack has three movable plates, so that by interchanging the plates of the two models, users can place different sizes of test tubes in different heights into one rack. These racks are made from sturdy polypropylene in different colors. Their design allows user to disassemble the rack to save space when necessary. Mega-Mix Racks are autoclavable and resistant to most of the common laboratory acids and chemicals, available in different colors for easier classification.

- Alphanumeric grid
- Robust structure
- Height - adjustable plates

T3 Rack

Storing and organizing test tubes

T3 Rack is ideal for different test tubes with diameters between 10mm and 16mm. It is made from polypropylene, is autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. One of its advantages is that it can be collapsed and reconnected when necessary to save space and put more of these racks inside autoclave. The two handles facilitate carrying The samples. T3 Rack is available in different colors for easier retrieval and classification.



Tube Racks, Tips Racks, Microtube Racks

MultiRack

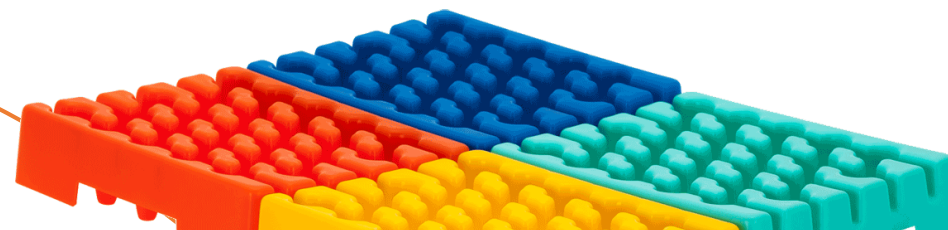
Storing and organizing different test tubes and microtubes

MultiRacks are available in 12 models, useful for storing and managing different kinds of tubes and microtubes in different laboratory departments. They are made from POM, submersible and resistant to most of the common laboratory acids and chemicals. The handles of these racks facilitate carrying the samples. They are compact and lightweight, so they are ideal for placing inside incubators, refrigerators, freezers, under lab hoods and on bench tops. MultiRacks are provided in different colors.

Conical Tube Tray

Storing and organizing conical tubes

Conical Tube Trays are designed for storing and organizing 15 and 50ml conical tubes. These racks can be connected indefinitely. Made from polypropylene, these trays are autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. Conical Tube Trays are available in different colors for proper classification.



Tube Racks, Tips Racks, Microtube Racks

Puzzle Rack

Storing and organizing different test tubes

With a modern design, our Puzzle Racks are suitable to hold tubes with diameters from 11 to 28mm. Made from polypropylene, they are autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. With their unique structure, they can be used individually or connected in groups. Having wells with different diameters on each side of the rack, these racks can accommodate tubes with different sizes and volumes at the same time. For an easier retrieval of the tubes, they have alphanumeric grid, also available in different colors for easy classification.

Rotatory Rack

Storing and organizing different tubes and microtubes in one rack

Rotatory Rack is appropriate for different microtubes from 0.2 to 2ml and tubes up to 16mm of diameter. Made from polypropylene, they are autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. Their special structure and interconnections give more advantages than conventional racks. Having different sizes of wells on each side of the rack, user can connect more pieces and use tubes with different diameters and volumes inside Rotatory Rack at the same time. They are available in various colors for easy classification.

Pipette and Thermometer Stand

Holding different glass pipettes and thermometers

Pipette and Thermometer Stand is steady, autoclavable, made from polypropylene, and resistant to most of the common laboratory acids and chemicals. It is available in two models of 25 and 50-well. The 25-well model has wells with 8mm diameter, which is appropriate for 0.1 to 3 ml glass pipettes and 1 to 8 ml volumetric pipettes. Besides, all glass thermometers that have diameters less than 8mm can be placed in this model. The 50-well model has wells with 16mm diameter, which is appropriate for 5 to 25ml glass pipettes and 7 to 50ml volumetric pipettes. Both models can be collapsed and reconnected for saving space.



Sample & Equipment Transportation Instruments

LA.BOX

Safe transportation of biological samples

Regarding the hazards that medical and laboratory samples can cause for people and environment, any biological samples from laboratories, hospital departments, or clinics should be transported leaving no leakage. In this case, either protection of the integrity and quality of samples, or prevention of any surrounding contamination have the same importance. Therefore, different regulations have been set by international organizations and countries for air, sea, and land transportation. According to the IATA regulations, for air transport of materials classified under UN3373, specific containers are required. These containers should have first packing, second leak proof packing, and durable outer packing.

The LA.BOX is an ideal product according to IATA standards for transporting biological samples. LA.BOX is lightweight and provides safe and easy transportation of samples , with two-layered packing and foam tube rack. Besides, there is a special slot for documents and the variety of colors facilitates classification.

Properties:

- Optimum stability of the box in the open position
- Visibility of sample tubes with transparent internal lid
- Inside of outer lid usable as sampling preparation tray
- In accordance with the international standards and regulations
 - Two-layered packing
 - Sturdy Polypropylene body
 - Secondary leak proof polycarbonate lid with PVC O-ring
 - With latch to avoid unintended opening of the lid



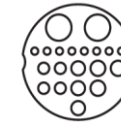
Sample & Equipment Transportation Instruments

Biojar

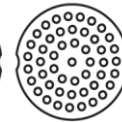
Safe Transportation of Samples via Air, Sea and Land

Biojar is a 1.5 liter container for air, sea, and land transport of different types of laboratory and medical specimens, test tubes, pathology samples, and other substances. Sturdy structure, strong body, and withstanding 1.5 atm make Biojar and its contents resistant to the changes in atmospheric pressure so that air transport will also be possible. The body is fortified, the closure is internally threaded, and because of EPDM O-ring, it gets sealed completely, so that during the transport process, samples remain unharmed and the contents will not leak out under any circumstances. Besides, Biojar has a lug to seal the container by a tamper-evident seal. There are inner holders designed for Biojar to hold different laboratory tubes. On the one hand, the built-in torque handle on the lid facilitates transporting the Biojar and on the other, makes it easy to open and close the lid. In addition, Biojar can be transported inside a Cool Box containing dry ice/ice packs while handling thermo-sensitive samples (Do not put dry ice / ice packs inside Biojar!). Biojar is made from polypropylene which is autoclavable.

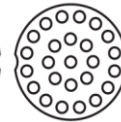
There are 8 different models of inner holders designed to provide more safety and a better arrangement of different test tubes. These holders are made from EPE (Expanded Polyethylene).



General



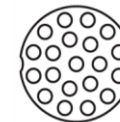
49-well



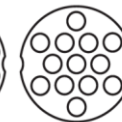
25-well



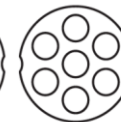
22-well



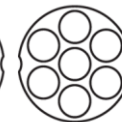
20-well



13-well



7-well
φ 28 mm



7-well
φ 34 mm



Sample & Equipment Transportation Instruments

Pathology Sample Transport Container

Safe Transportation of samples via air, sea, and land

The Pathology Sample Transport Container is the ideal equipment for transporting samples to long distances. Samples can be placed in this container within or without tubes. Because of its structure, atmospheric pressure does not influence the contents and can also be put in the plane's cargo. This container can be used in land and sea transport as well. It has a screw-top lid and the EPDM O-ring inside the lid prevents leakage. This container is made from polypropylene and is very rigid. These containers are autoclavable, freezable, and resistant to common laboratory acids and chemicals. Their dimensions allow user to place them inside Cool Box or different fridges while handling thermo sensitive samples.

There are 5 different models of inner holders designed to provide more safety and a better arrangement of different test tubes. These holders are made from EPE (Expanded Polyethylene).



Universal Case

Safe transportation of medical, laboratory, dental, and general equipment

Universal Cases are suitable for safe carrying, storage and transportation of medical, laboratory, and general equipment. Variety of sizes and colors with available foam inserts for more safety and a better arrangement of the contents make Universal Cases ideal for transfer and storage of equipment. They are completely made from polypropylene with no metal parts, and in spite of being lightweight, they are robust and strong.

- Sturdy structure
- Useful for different applications
- Labeling area
- Ergonomic molded-in handle for easy transportation
- Variety of colors
- Different foam inserts
- Opaque and semi-transparent body
- Two sturdy latches for more safety



Sample & Equipment Transportation Instruments

First Aid Kit

Providing first aid requirements

Regarding the growing number of accidents that lead to injury and burns, it is even more necessary to have first aid kits available in any place. Our First Aid Kit can be used at home, office, school, workshop, gym, inside vehicles, and many other places. It is made from semitransparent polypropylene which is available in three sizes with different colors. As for the size and capacity, each model can be used to meet a wide range of requirements and with different internal arrangements for specified applications such as burns, cuts, poisoning, asphyxia, sting, bleeding, hypothermia, eye care etc. In order to facilitate classifying instruments inside the kit, there are internal dividers for medium and large models. The lid has two latches in order for preventing unwanted opening of the lid. There is also a molded-in handle for easy transport.

Plastic Bracket for First Aid Kit

Mounting First Aid Kit on the wall or similar surfaces

This bracket is designed for our large First Aid Kits. It is made from polypropylene and is resistant to most of the common laboratory acids and chemicals. It can be simply mounted on the wall.



Sample & Equipment Transportation Instruments

Cool Box

Storing different materials in temperatures between 0 and 4°C

Cool Box is an insulated container which provides appropriate temperature conditions based on Cold Chain Technology for storing different medicines and vaccines, blood and its derivatives, and generally all temperature-sensitive substances. This product is available in two models of 11L and 30L which can contain 26 and 70 ice packs (400g each) respectively. The inner insulation is made from expanded polystyrene and the body is made from polyethylene. The 11L model has a dual-purpose handle for easy transport and locking the lid (by turning the handle upward), while in the 30L model, the lid gets locked by two latches each at one side of the box and there are two handles on the other two sides for easy transport. Both models have an average body thickness of 25mm.



Injection and Dressing Tray

Organizing and carrying injection and dressing accessories

The Injection and Dressing Trays are suitable for organizing the accessories in laboratories and medical centers. This product can be used on workbench or for transporting injection and dressing accessories. These trays are available with compartments assigned for sharps containers.



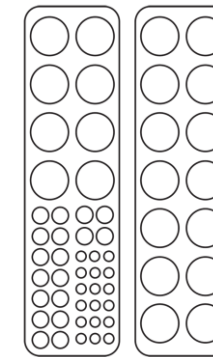
Sample & Equipment Transportation Instruments

Phlebotomy Tray

Safety transportation of samples and sampling tools

The Phlebotomy Tray is specially designed to ensure that the sampling procedure is carried out quickly and specimens are handled safely and properly. It features a molded-in handle for easy transport and its unique bottom structure allows the user to put the tray comfortably both on flat surfaces and most of the bed rails. The Phlebotomy Tray is made from polypropylene, available in different colors which facilitate classification.

- Without lid, with deep compartments, preventing spillage and falling of equipment
- Customizing compartments using kits and dividers
- Special design for placing on horizontal poles (bed rails, trolleys, etc.)
- Lightweight and robust



Sample Collection and Transportation Case

Safely transporting and organizing different samples and containers

Sample Collection and Transportation Case is a simple but efficient instrument which can be vastly used for different purposes. This case has three different internal kits which are removable and interchangeable and each one has a different design with different numbers of wells. It can also be used in Cool Box for temperature-sensitive samples. Both the case and the internal kits are autoclavable and resistant to common laboratory chemicals and acids. This case is available in different colors which facilitates classifying the samples. Because of the two strong latches, in case one of them opens accidentally, the other will keep the lid locked and the samples will remain safe.



Microscopic & Staining Equipment

Microscope Slide

Studying and processing samples under a microscope

Microscope Slide with dimensions 75mm x 25mm and the thickness of 1.2 mm is made from high quality glass which increases the accuracy and validity of microscopic examinations, due to its perfectly smooth and transparent surface. These slides are precleaned, corrosion resistant, in packs of 50 in which there is a piece of paper between each slide and each pack is individually vacuumed.

Serology Cavity Spot Plate

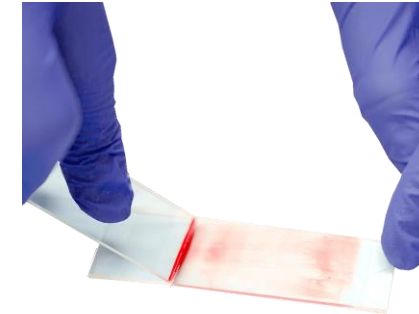
Storing different materials in temperatures between 0 and 4°C

Cavity spot plates are usually used for agglutination, flocculation, and precipitation tests. P.I.P. Serology Cavity Spot Plates are made from a transparent polymer, resistant to most of the common laboratory acids and chemicals, with circular cavities. These plates are suitable for different serological tests. They are also ideal for observing sedimentation reactions, temporary storage of small amounts of samples or solutions and also combining samples and stains. These plates are available in two models of 10 and 12-cavity. The 12-cavity model has alphanumeric grid for easy retrieval.

White Serology Cavity Spot Plate

Studying and processing samples under a microscope

White cavity spot plates are usually used for agglutination, flocculation, and precipitation. White Serology Cavity Spot Plates are resistant to most of the common laboratory acids and chemicals, and have circular cavities. These plates are suitable for different tests such as VDRL test, pH tests, and quantitative chemical analysis for precipitation. They are also ideal for observing staining reactions, temporary storage of small amounts of samples or solutions and also combining samples and stains. These plates are available in two models of 10 and 12-cavity. The 12-cavity model has alphanumeric grid for easy retrieval.



Microscopic & Staining Equipment

Slide Staining Set

Organizing staining solutions and increasing precision and efficiency in staining

Slide Staining Set is ideal for staining in histology, cytology, hematology, pathology, and microbiology. These sets consist of dishes with attached hinged lids, Slide Staining Holder with handle for 25 slides, and a Metal Holder. Slide Staining Dishes and the Slide Staining Holders are made from PET which is resistant to common solvents in the histology laboratories (such as toluene and xylene). The capacity of Slide Staining Dishes is 300ml and it is deep enough for the total immersion of the slides. Besides, its lid is specially designed to be completely shut in order to prevent the reagents from probable evaporation. The Slide Staining Holder for 25 slides has a handle designed for convenient and controlled grip and transfer. The Metal Holder for organizing these dishes is made from stainless steel, it is washable and resistant to common laboratory acids and solvents. In addition, since all of these items are lightweight, user can handle and transfer them effortlessly.

Slide Staining Dish

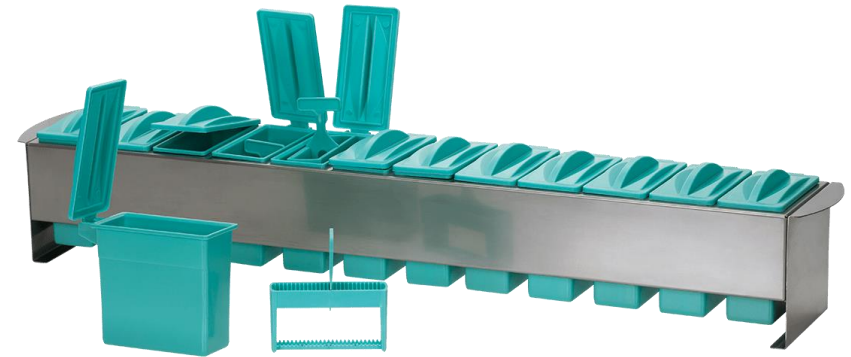
Microscopy staining

Slide Staining Dish is made from PET which is resistant to common solvents in the histology laboratories (such as toluene and xylene) and it is ideal for the histology, cytology, hematology, pathology, and microbiology staining. The capacity of this dish is 300ml and it is deep enough for the total immersion of the slides. Besides, its lid is specially designed to be completely shut in order to prevent the reagents from probable evaporation. The slide staining holder for 25 slides can be used in these dishes.

Slide Staining Holder with Handle

Holding slides in staining dish

Slide Staining Holders are made from PET which is resistant to different solvents, especially common solvents in the histology laboratories (such as toluene and xylene). These holders for 25 slides are ideal to be used in the Slide Staining Dishes.



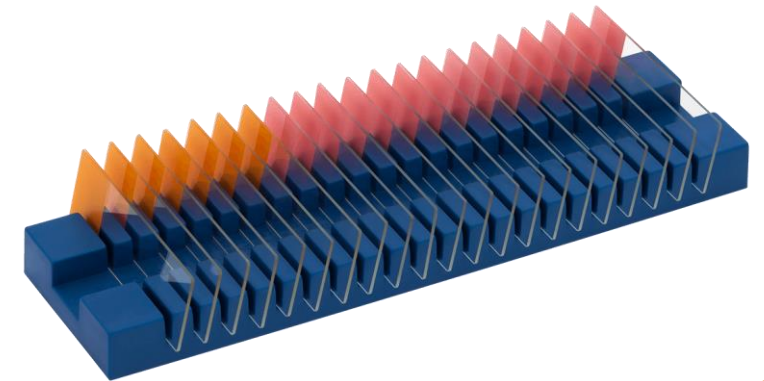
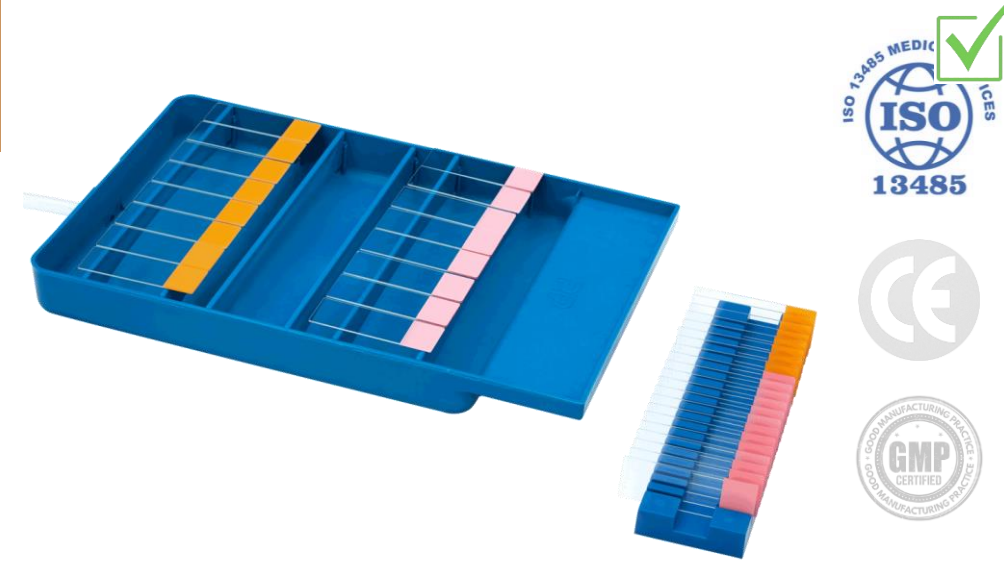
Microscopic & Staining Equipment

Staining Tray with Slide Holder Staining and holding slides

Staining Tray is ideal for staining different slides of histology, cytology, pathology etc. It has two separate sections for staining and holding slides. The staining chamber has a capacity of 21 slides at the same time and the holder has 21 grooves to hold the slides; these parts can also be used separately. One of the advantages of this tray is its discharge pipe which provides the tidiness of the lab. It is resistant to most of the common laboratory acids and chemicals.

Slide Holder with Grooved Slot Holding and organizing slides

Our Slide Holder is made from rigid polystyrene and is ideal for holding 21 slides. It can be used to carry slides in laboratories. User can easily place slides inside this slide holder and the color-coded slides will be easily separated and completely visible in an orderly manner.



Microscopic & Staining Equipment

Diamond Scribe

Marking on glass and hard surfaces, slides in particular

Diamond Scribe is for marking on hard surfaces such as slide, glass etc. Its body is made from stainless steel and is available in two colors of silver and navy blue.



Slide Mailers

Holding and safely transporting slides

Slide Mailers are strong protection for 76mm × 26mm slides and are made from polypropylene, autoclavable, freezable, and resistant to most of the common laboratory acids and chemicals. These Slide Mailers feature a snap-close lid to keep slides secure during transport and have inner support bars to protect slides from being damaged.



Slide Storage Box

Holding and organizing slides

Slide Storage Box is made from ABS, it is freezable and provides the best protection for the 76mm × 26mm slides. There is a numbered blank index embedded on the base of the box in order for easy retrieval of the slides and a foam embedded inside the lid to keep slides safe. Due to the rectangular base of these boxes, they are completely stackable. These boxes have a safety lock and are available in 4 models and 2 colors (black and gray). Different colors facilitate classification.



13-2

Laboratory Devices

- **Stirrers**
- **Centrifuges & Rotors**
- **Incubators**
- **Shakers**
- **Mixers**
- **Cell Counters**



Mini Stirrer

Mini Stirrer MS65

Mixing fluids

The main advantage of our Mini Stirrer is having a very small footprint and being low-power. This product is specially designed to provide high stirring power, despite of being small and laboratory vessels with maximum diameters of 65mm can be used on this device. It is designed to remain safe in case of liquid spillage.

Technical Data	Max. stirring power	1 W
	Max. stirring capacity	250 ml
	Stirrer speed	100 – 1800 rpm
	Max. ambient humidity	60%
	Input voltage	210 – 230 VAC
	Weight	450 g



Hot Plate with Magnetic Stirrer

Hot Plate with Magnetic Stirrer

Mixing fluids and distributing heat uniformly

Hot Plate has a magnetic stirrer and the liquid can be totally mixed by putting a stir bar inside the container. The main body and heating plate are made from robust aluminum. Rotational speed and temperature can be separately controlled and adjusted. Due to the high temperature of the liquid and its fast rotation, safety becomes much more important. Therefore, its control panel is designed safe from the hot and moving source. However, to provide more safety, a height difference is embedded on the body of the device providing a fluid conducting channel in order to reduce the risk of fluid leakage into the control panel. Its body is impervious and resistant to most of the common laboratory acids and chemicals.

Hot Plate Specifications:

- Optimal and uniform temperature distribution
- Resistant to heat shock
- Resistant to oxidation

Technical Data	Temperature range	50-300°C
	Max. stirring power	30 W
	Max. stirring capacity	1.5 Liter
	Stirrer speed	50-1800 rpm
	Max. ambient humidity	60%
	Max. power	700 W
	Input voltage	~220 V
	Weight	3.0 Kg



Universal Centrifuges PIT320 Series

Centrifuging samples and separating substances

Universal Centrifuges PIT320 series with high speed up to 15,000 rpm in two models Classic and Cooled is ideal for meeting the major parts of the requirements of laboratories and medical & research centers. These centrifuges with a maximum relative centrifugal force of 21,382 are suitable for separating compounds with a maximum density of 1.2 Kg/dm³. Their powerful brushless electromotor along with a wide range of accessories allow user to centrifuge samples in standard test tubes, microtiter plates, falcon tubes, blood collection tubes, microtubes, and to prepare slides for cytological examinations. Centrifuge lid and body are made from metal and the centrifuging chamber is made from stainless steel.

- 10 programmable memories
- Ability to set and use the centrifuge based on rpm and RCF (relative centrifugal force)
- Adjustable centrifuging time up to 99':59" and nonstop (unlimited time)
- Adjustable starting and brake steps
- Ability to change the centrifuge parameters (rotational speed, time, etc.) during operation
- User and equipment error detection system
- Short centrifugation system
- Displaying device lifetime



Technical Data	Model	PIT320	PIT320R
	Rotational Speed	500-15,000 rpm	
	Temperature (fluctuation)	-	-5+40°C (±1°C)
	Relative Centrifugal Force (RCF)	21,382	
	Max. Density	1.2 Kg/dm ³	
	Max. Capacity	4 × 100 ml	
	Voltage	210-230 ~ V	
	Electric Current	I ≤ 4 A	I ≤ 6.2 A
	Frequency	50 Hz	
	Max. Kinetic Energy	8,600 Nm	
	Max. Power	1,000 w	1,100 w
	Ambient Condition	Up to 2000m above sea level. Maximum relative humidity 80% for temperatures up to 31°C, linearly decreasing to 50% relative humidity at 40°C	
	Weight	29 kg	52 kg



Universal Centrifuges Premium 20000 Series

Centrifuging samples and separating substances




























Universal Centrifuges Premium 20000 series with high speed up to 20,000 rpm in two models Classic and Cooled is ideal for meeting the major parts of the requirements of laboratories and medical & research centers. These centrifuges with a maximum relative centrifugal force of 25,938 are suitable for separating compounds with a maximum density of 1.2 Kg/dm³. Their powerful brushless electromotor along with a wide range of accessories allow user to centrifuge samples in standard test tubes, microtiter plates, falcon tubes, blood collection tubes, microtubes, and to prepare slides for cytological examinations. Centrifuge lid and body are made from metal and the centrifuging chamber is made from stainless steel.











- 10 programmable memories
- Ability to set and use the centrifuge based on rpm and RCF (relative centrifugal force)
- Adjustable centrifuging time up to 99':59" and nonstop (unlimited time)
- Adjustable starting and brake steps
- Ability to change the centrifuge parameters (rotational speed, time, etc.) during operation
- User and equipment error detection system
- Short centrifugation system
- Displaying device lifetime











Technical Data	Model	Premium 20000	Premium 20000R
	Rotation Speed	500-20,000 rpm	
	Temperature	-	-5 + 40°C (±1°C)
	Relative Centrifugal Force (RCF)	25,938	
	Max. Density	1.2 Kg/dm ³	
	Max. Capacity	4×100 ml	
	Voltage	210-230 ~V	
	Electric Current	I ≤ 4 A	I ≤ 6.2 A
	Frequency	50 Hz	
	Max. Kinetik Energy	8600 Nm	
	Max. Power	1000 W	1100 W
	Ambient Condition	Up to 2000m above sea level. Maximum relative humidity 80% for temperatures up to 31°C, linearly decreasing to 50% relative humidity at 40°C	
	Weight	29 kg	52 kg

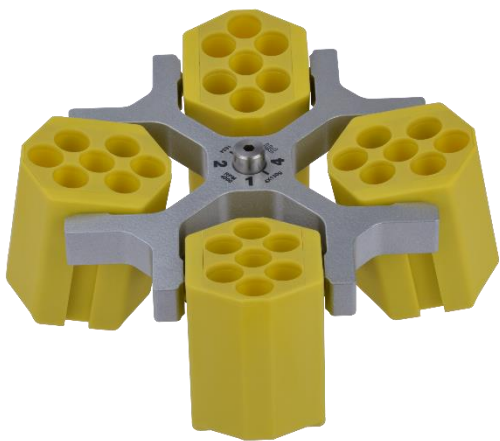


Rotors

Capacity in ml	5		6	7	9		15		20		25	45	50	1.1-1.4	2.6-3.4	4-5.5
Ø x L in mm	12x75		12x82	12x100	14x100		17x100		21x100		24x100	31x100	34x100	8x66	13x65	15x75
 rotor Cat. No. 1624																
	 with decanting aid		 with decanting aid			+0701 								+0701 	+0716 	
Cat. No.	1369-91	1372	1369-91		1370	1741	1369	1742	1346	1745	1345	1746	1741	1742		
boring Ø x L in mm	12.5x64.4	13.5x65	12.5x71.5		14.6x74	14.6x78	17.6x74	17.6x78	21.5x74	26x78	32x74	35x78	14.6x78	17.6x78		
Tubes per rotor	16	68	16		20	40	16	28	8		4		40	28		
Max. RCF	2,111	2,218	2,361			2,469	2,361	2,504	2,415	2,504	2,415	2,504	2,469	2,379		
Radius in mm	118	124	132			138	132	140	135	140	135	140	138	133		
run-up in sec	20															
run-down in sec, braked	20															
Temperature in °C	-2															

Capacity in ml	4.9	1.6-5	4-7	8.5-10	30
Ø x L in mm	13x90	13x75	16x75	16x100	26x95
 rotor Cat. No. 1624					
		+0716 			
Cat. No.	1741	1742		1369	1745
boring Ø x L in mm	14.6x78	17.6x78		17.6x74	26x78
Tubes per rotor	40	28		16	8
Max. RCF	2,504	2,379		2,361	2,504
Radius in mm	140	133		132	140
run-up in sec	20				
run-down in sec, braked	20				
Temperature in °C	-2				

Capacity in ml	1.5	2.0	1	3	4
Ø x L in mm	11x38	6x45	10x60	12x60	
 carrier Cat. No. 1366					
					
Cat. No.	5277	1357	1327	1326	
boring Ø x L in mm	11.5x38	6.5x23	10.5x23	12.5x44	
Tubes per rotor	36	120	48		
Max. RCF	2,021	2,003	1,986		
Radius in mm	113	112	111		
run-up in sec	20				
run-down in sec, braked	20				
Temperature in °C ¹⁾	-2				



Δ 90°
n= 4,000 min⁻¹
max.RCF 2,719


































BACK


































CONTACT US

Rotors



Capacity in ml	1.5	2.0	1	3	5/6/7	9	15	25	50	94	100	1.1-1.4	2.7-5	2.6-4.9	4-8.5
Ø x L in mm	11x38	6x45	10x60	12x75/82/100	14x100	17x100	24x100	34x100	38x102	44x100	8x66	11x66/92	13x65/90	15x75/92	
 Cat. No. 1492															
carrier Cat. No. 1481															
Cat. No.	1351	1339	1343	1383	1329	1330	1331	1396	0761	1457	1383	1459			
boring Ø x L in mm	11.2x38	6.5x34	10.5x43	13.4x48	17.6x91	25.2x87	35.2x87	38.5x92	45.6x98	9x47	13.4x48	15.6x47			
Tubes per rotor	20	108	36	20	16	4				28	20	16			
Max. RCF	2,504	2,647	2,683	2,612	2,594	2,486	2,469	2,665	2,612	2,630	2,612	2,630			
Radius in mm	140	148	150	146	145	139	138	149	146	147	146	147			
run-up in sec	20														
run-down in sec, braked	20														
Temperature in °C ¹⁾	-2														

Capacity in ml	9-10	10	1.6-7	4-10	15	50	12	25	30	50	10	30	50	85	30
Ø x L in mm	16x92	15x102	13x75/100	16x75/100	17x120	29x115	17x100	25x90	25x110	29x115	16x80	26x95	29x107	38x106	44x105
 Cat. No. 1492															
carrier Cat. No. 1481															
Cat. No.	1329	1329	1383	1348	1347	1384	6311	1363	1365	6318	1348	4417	4416	1396	0765
boring Ø x L in mm	17.6x91	13.4x48	16.5x56	17x90	30x90	17x80	26x72	26x80	29.5x80	16.5x56	26x83	29x93	38.5x92	45.9x98	
Tubes per rotor	16	20	16	4				16	4				16	20	16
Max. RCF	2,594	2,719	2,612	2,576	2,719	2,397	2,719	2,576	2,504	2,683	2,665	2,594			
Radius in mm	145	152	146	144	152	134	152	144	140	150	149	145			
run-up in sec	20														
run-down in sec, braked	20														
Temperature in °C	-2														

Δ 90°
n= 4,000 min⁻¹
max.RCF 2,719



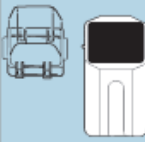




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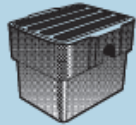

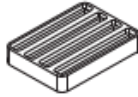

















CONTACT US



Rotors

Capacity in ml	5	2.6-3.4	4.9	1.6-5	4-7	7	4.5-5	15	8.5-10	9-10	4-7
Ø X L in mm	12X75	13X65	13X90	13X75	13X100	12X100	11X92	17X100	16X100	16X92	16X75
											
Cat. No.	1792					6290		6291		6271	
boring Ø X L in mm	13.4X58					12.4X87		17.8X87		17X66	
Tubes per rotor	32					48		24		20	
Max. RCF	4,025					3,941				3,969	
Radius in mm	144					141				142	
run-up in sec						32					
run-down in sec, braked						32					
Temperature in °C						-2					

	RST (Rapid Serological Test)
	
	
Cat. No.	1480 A
boring L X W in mm	74.8 X 4
Tubes per rotor	16
Max. RCF	2,515
Radius in mm	90
run-up in sec	42
run-down in sec, braked	32
Temperature in °C	-2

Capacity in ml	1.5	2.0	5	6	7	9	15	1.6-5	4-7	4-7	8.5-10	15	50	50
Ø X L in mm	11X38		12X75	12X82	12X100	14X100	17X100	13X75	13X100	16X75	16X100	17X120	29X115	29X115
														
Cat. No.	1444		1438	1434	1431	1431	1438	1438	1441	1441	1442	1442	1443	1737
boring Ø X L in mm	11.5X38		13.4X50	12.7X60	12.7X60	17.5X84	13.4X50	13.4X50	16.5X50	16.5X50	17X90	17X90	30X90	30X90
Tubes per rotor	36		28	48	48	28	28	28	28	28	4	4	4	4
Max. RCF	3,885		3,913								4,081			
Radius in mm	139		140								146			
run-up in sec			32											
run-down in sec, braked			32											
Temperature in °C			-2											



Δ90°
n= 5,000 min⁻¹
max.RCF 4,193









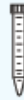










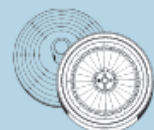

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CONTACT US

Rotors

Capacity in ml	4-5.5	4-7	9	9-10	10	12	15	15	50	50
Ø x L in mm	15x75	16x75	14x100	16x92	15x102	17x100	17x100	17x120	29x115	29x115
 carrier Cat. No. 1398										
	+2 x 0716 	+ 0716 								
Cat. No.	1482A							1483A	1484	1484 ¹⁾
boring Ø x L in mm	17.5x81							17x100	30x98	
tubes per rotor	16							16	4	
max. RCF	2,875	3,034	3,192					3,305	3,260	
radius in mm	127	134	141					146	144	
run-up in sec	37									
run-down in sec, braked	39									
Temperature in °C	-2									

Standard capillaries, heparinised	Basic	Self-sealing and mylar-coated
 rotor Cat. No. 1650		
	Sealing putty	
Cat. No.	2077	-
boring Ø x L in mm	-	
capillaries per rotor	24	
Max. RCF	21,382	
Radius in mm	85	
run-up in sec	12	
run-down in sec, braked	12	
Temperature in °C	-1	























Δ90°
n = 4,500 min⁻¹
max. RCF 3,328





























n = 15,000 min⁻¹
max. RCF 21,382



Rotors

Capacity in ml	4	5	6	15	1.1-1.4	2.6-3.4	2.7-3	4.5-5	4.9	7.5-10	10	1.6-5	4-7	8-10	15		
Ø x L in mm	10x88	12x75	12x82	17x100	8x66	13x65	11x66	11x92	13x90	15/16x92	15x102	13x75	13x100	16x100/125	17x120		
																	
																	
rotor Cat. No. 1613																	
Cat. No.	6305	1054-A	-			1054-A				-		1054-A	1058	-			
boring Ø x L in mm	11.5x67.5	13.5x60	17.7x88			13.5x60				17.7x88		13.5x60	13.5x79	17.7x88			
Tubes per rotor	12												12	12	12	6	6
Max. RCF	3,502	3,300	4,146			3,300				4,146		3,300	4,146				
Radius in mm	87	82	103			82				103		82	103				
run-up in sec	15																
run-down in sec, braked	15																
Temperature in °C	-5																

Capacity in ml	1.5	2.0	15	50	75	94	7.5-8.5	9-10	10	8.5-10	15	50	10	30	50	85
Ø x L in mm	11x38		17x100	34x100	35x105	38x102	15x92	16x92	15x102	16x100	17x120	29x115	16x80	26x95	29x107	38x106
																
rotor Cat. No. 1620A																
Cat. No.	1449		1451	1463		-		1451			1466	1454	1646	1448	1447	1446
boring Ø x L in mm	11.4x39		17.5x92	35x89	38.6x90.2			17.5x92			17x106	29.8x97	-	16.5x74	26x85	29x92
Tubes per rotor	24		6	6				6			6	6	6	12		6
Max. RCF	9,237		8,784	9,327	9,509			8,784			8,965			8,784	8,603	9,056
Radius in mm	102		97	103	105			97			99			97	95	100
run-up in sec	30															
run-down in sec, braked	30															
Temperature in °C	-2															























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CONTACT US

Rotors

Capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	
						
						
rotor Cat. No. 1420-A						
Cat. No.	2024		2023		-	
boring Ø x L in mm	6.2x40		8.2x40		11.2x40	
Tubes per rotor			24			
Max. RCF			21,382			
Radius in mm			85			
run-up in sec			25			
run-down in sec, braked			25			
Temperature in °C			-2			

Capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	
						
						
rotor Cat. No. 200P						
Cat. No.	2024		2023		-	
boring Ø x L in mm	6.2x40		8.2x40		11.2x40	
Tubes per rotor			12			
Max. RCF			25,938			
Radius in mm			58			
run-up in sec			25			
run-down in sec, braked			25			
Temperature in °C			-2			



Cat. No. 8006



Cat. No. 8009



Δ40°
n = 15,000 min⁻¹
max. RCF 21,382



Δ40°
n = 20,000 min⁻¹
max.RCF 25,938



















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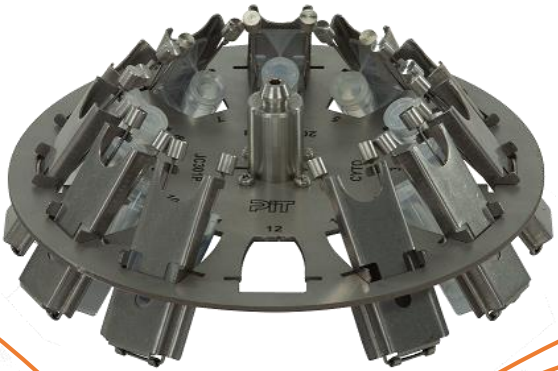


CONTACT US

Rotors

D x W x H in mm	86x128x15/17.5		86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-
Capacity in ml									0.2
 rotor Cat. No. 1460									
Cat. No.	1453 - A								
boring \varnothing x L in mm	-								-
Tubes per rotor	10	8	6	2	2	2	4	2	24x8
Max. RCF	2,218								
Radius in mm	124								
run-up in sec	39								
run-down in sec, braked	39								
Temperature in °C	-2								

Disposable cyto chambers			
Cat. No.	1531	1530	1535
Filter cards/seals			
Cat. No.	1531 F	1530F	1535F
Chambers per rotor	12		
Max. RCF	470		
run-up in sec	20		
run-down in sec, braked	20		
Temperature in °C	-2		



BACK



CONTACT US

Classic Incubator PIT053

Providing optimum incubation conditions from ambient temperature to 100°C

Classic Incubator PIT053 provides safe and optimum incubation conditions for factors affecting growth, ideal for meeting the needs of microbiology, biotechnology, food industry, and research institutes. This incubator has a temperature range from ambient temperature to 100°C with a temperature fluctuation of $\pm 0.1^{\circ}\text{C}$. There is an electric fan with digitally adjustable speed for exact attainment and maintenance of the desired temperature accuracy. The inner glass door in these incubators ensures that the temperature remains constant when observing the incubation process which is important for rapid restoration of optimum growth conditions after opening the door. In addition, this incubator provides almost unlimited possibilities for adaptation to individual customer requirements based upon extensive programming options and on the week program timer and real time clock (day) of the controller.

- Easy application with beautiful design (large LCD display)
- Week and day programs
- Programming with set-point ramp
- Time -temperature graph
- Safety controller mode to prevent the unwanted temperature increase and losing samples
- Inner glass door to keep the temperature constant when observing the incubation process
- Inner chamber made from stainless steel, with 2 stainless steel trays and adjustable distance
- Microprocessor controller for precise temperature control
- Adjustable circulation fan speed for homogenizing the temperature in the inner chamber
- Double insulation system in order to reduce heat transfer and increase efficiency
- Features mechanical mechanisms to maintain the balance in case of asymmetric loading
- Possibility of connecting to computer and printer (on request)

Technical Data	Temperature range	Ambient temperature to 100°C
	Temperature fluctuation	$\pm 0.1^{\circ}\text{C}$
	Voltage	210-230 V
	Frequency	50 Hz
	Power	450 W
	Capacity	53 L
	Weight (approx.)	52 Kg



Shaking Incubator PIT053RS

Providing optimum incubation conditions with shaking possibility

Refrigerated Incubator PIT053R provides safe and optimum incubation conditions for factors affecting growth, ideal for meeting the needs of microbiology, biotechnology, food industry, and research institutes. This Incubator has a temperature range from -5°C to 100°C with a temperature fluctuation of $\pm 0.1^\circ\text{C}$. There is an electric fan with digitally adjustable speed for exact attainment and maintenance of the desired temperature accuracy. Two important temperature technologies have been combined to achieve perfect temperature control, so that it satisfies the unique prerequisites for attaining heating and cooling, highly precise temperature control, and short recovery times after opening the door. The inner glass door in these incubators ensures that the temperature remains constant when observing the Shaker and the incubation process which is important for rapid restoration of optimum growth conditions after opening the door. In addition, this incubator provides almost unlimited possibilities for adaptation to individual customer requirements based upon extensive programming options and on the week program timer and real time clock (day) of the controller.

- Usable with and without the Shaker
- Easy application with beautiful design (large LCD display)
- Week and day programs
- Programming with set-point ramp
- Time – temperature graph
- Safety controller mode to prevent the unwanted temperature increase and losing samples
- With inner glass door to keep the temperature constant when observing the Shaker and the incubation process
- Inner chamber made from stainless steel, with 2 stainless steel trays and adjustable distance
- Microprocessor controller for precise temperature control
- Adjustable circulation fan speed for homogenizing the temperature in the inner chamber
- Double insulation system in order to reduce heat transfer and increase efficiency
- Cooling system with Non-Cut mechanism
- Features mechanical mechanisms to maintain the balance in case of asymmetric loading
- Possibility of connecting to printer (on request)
- Possibility of connecting to computer (on request)



Refrigerated Incubator PIT053R

Providing optimum incubation conditions from -5°C to 100°C

Refrigerated Incubator PIT053R provides safe and optimum incubation conditions for factors affecting growth, ideal for meeting the needs of microbiology, biotechnology, food industry, and research institutes. This Incubator has a temperature range from -5°C to 100°C with a temperature fluctuation of $\pm 0.1^\circ\text{C}$. There is an electric fan with digitally adjustable speed for exact attainment and maintenance of the desired temperature accuracy. Two important temperature technologies have been combined to achieve perfect temperature control, so that it satisfies the unique prerequisites for attaining heating and cooling, highly precise temperature control, and short recovery times after opening the door. The inner glass door in these incubators ensures that the temperature remains constant when observing the incubation process which is important for rapid restoration of optimum growth conditions after opening the door. In addition, this incubator provides almost unlimited possibilities for adaptation to individual customer requirements based upon extensive programming options and on the week program timer and real time clock (day) of the controller.

- Easy application with beautiful design (large LCD display)
- Week and day programs
- Programming with set-point ramp
- Time-temperature graph
- Safety controller mode to prevent the unwanted temperature increase and losing samples
- Inner glass door to keep the temperature constant when observing the incubation process
- Inner chamber made from stainless steel, with 2 stainless steel trays and adjustable distance
- Microprocessor controller for precise temperature control
- Adjustable circulation fan speed for homogenizing the temperature in the inner chamber
- Double insulation system in order to reduce heat transfer and increase efficiency
- Cooling system with Non-Cut mechanism
- Features mechanical mechanisms to maintain the balance in case of asymmetric loading
- Possibility of connecting to printer (on request)
- Possibility of connecting to computer (on request)



Shaker Rotator

Blending and mixing a wide range of fluids

Microplate Shaker PIT10LO is designed for general and specialized application. This device is a basic equipment in all medical, petroleum, food analysis, educational, and chemical laboratories. Due to appropriate technical properties such as high capacity and various accessories, this shaker makes it possible to blend and mix a wide range of liquids which meets the requirements of many related tests.

- Ergonomic and beautiful design
- Noiseless rotation system
- Digital display
- Safety of the sensitive parts against possible spillage of the fluids being tested
- Balanced while running, due to the low center of gravity
- Different trays of containers with different sizes
- Linear or orbital rotation modes (on request)
- Possibility of connecting to computer

Technical Data	Motion type	Orbital or linear (on request)
	Motion range of tray	10 mm
	Max.loading capacity	7.5 Kg (speed function)
	Max Input / Output power	10 - 45 W
	Voltage	210 - 230 VAC
	Frequency	50 Hz
	Max. running time	unlimited
	Speed range	20 - 500 rpm
	Speed display	Digital
	Timer	0 - 99:59' / ∞
	Timer display	Digital
	Function type	Time limited or unlimited time
	Ambient permissible temperature	5 - 50°C
	Max. permissible relative humidity	80%
	Weight (approx.)	9 kg



Microplate Shaker

Blending and combining a wide range of fluids inside microplates

Microplate Shaker PIT3.0 is designed for general and specialized application. This device is a basic equipment in all medical, petroleum, food analysis, educational, and chemical laboratories. This shaker makes it possible to blend and combine a wide range of liquids inside microplates which meets the requirements of many related tests.

- Rotation speed from 80 to 1100 rpm
- With 6 compartments on the tray for microplates
- Ergonomic and beautiful design
- Noiseless rotation system
- Digital display
- Safety of the sensitive parts against possible spillage of the fluids being tested
- Balanced while running
- Possibility of connecting to computer

Technical Data	Motion type	Orbital
	Motion range of tray	3 mm
	Permissible number of microplates on the tray (speed function)	6
	Max Input / Output power	10 - 45 W
	Voltage	210 - 230 VAC
	Frequency	50 Hz
	Max. running time	unlimited
	Speed range	80 - 1100 rpm
	Speed display	Digital
	Timer	0 - 99':59" / ∞
	Timer display	Digital
	Function type	Time limited or unlimited time
	Ambient permissible temperature	5 - 50°C
	Max. permissible relative humidity	80%
	Weight (approx.)	9 kg



Rocker Shaker

Blending and mixing a wide range of fluids

Rocker shaker PIT16D is designed for general and specialized applications. This device is a basic equipment in all medical, petroleum, and food analysis, educational and chemical laboratories. According to appropriate capacity, this shaker makes it possible to blend and combine a wide range of liquids inside different containers and also meets the requirements for many related tests.

- Rotation speed from 5 to 80 rpm
- Blending liquids with rocking movement
- Noiseless mechanical system
- Digital display
- Balanced while running Ergonomic and beautiful design
- Possibility of connecting to computer
- Safety of the sensitive parts against possible spillage of the fluids being tested

Technical Data	Motion type	rocking
	Motion range of tray (rocking angle fixed)	16°
	Max. symmetrical loading capacity	5.0
	Max. running time	unlimited
	Function type	Time limited or unlimited time
	Speed range	5-80 rpm
	Speed display	digital
	Timer	0 - 99:59' / ∞
	Timer display	0 - 99:59' / ∞
	Outer dimensions	420 × 360 × 130 mm
	Maximum input/ output power	10 - 45 W
	Voltage	210 - 230 VAC
	Frequency	50 HZ
	Weight(approx.)	8.8 Kg
	Ambient permissible temperature	5-50

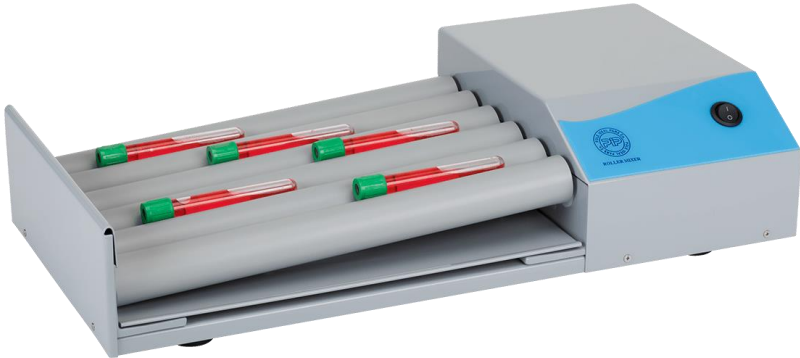


Hematology Mixer (Roller Mixer)

Mixing and keeping the laboratory suspensions uniform

Roller Mixer has 6 rollers for mixing blood specimens, high viscosity samples, suspensions, etc. One of the functional properties of this device is its simultaneous rotational and vertical motion of the rollers. The roller dimensions and the distances between them make the instrument usable with different tubes and cylindrical bottles. A washable protective tray is designed under the rollers in order for easy cleaning in case of sample spillage. P.I.P. Roller Mixer is resistant to most of the common laboratory acids and chemicals.

Technical Data	Vertical motion range	~20 mm
	Roller dimensions (diameter × length)	φ32 mm × 320 mm
	Rotation speed	60 rpm
	Voltage	220 V
	Frequency	50 Hz
	Max. power	20 W
	Weight (approx.)	6,600 g



Rotamix PIT090

Mixing samples with different viscosities

Rotamix PIT090 is one of the basic devices for all laboratories to mix liquid samples with different viscosities. The rotation speed is adjustable from 10 to 80 rpm and the angle of the disc rotor can also be adjusted from 0 to 90°. There are various disc rotors with different clips for this tube rotator to grip test tubes from 1.5 to 50 ml. Rota mix PIT090 is ideal for general applications in medical, research, and industrial laboratories due to supporting different tubes and adjustable rotation time and speed. Rotamix PIT090 can be used in cold environments or inside incubators (5-40°C).

- Ergonomic and beautiful design
- Noiseless rotation system
- Adjustable rotation speed and time
- Emergency stop (by pressing STOP key twice)
- LCD display safety in case of liquids and solvents spillage



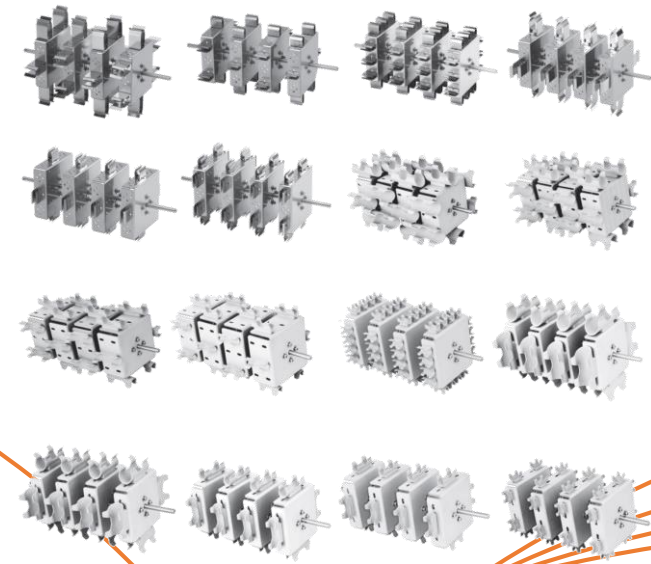
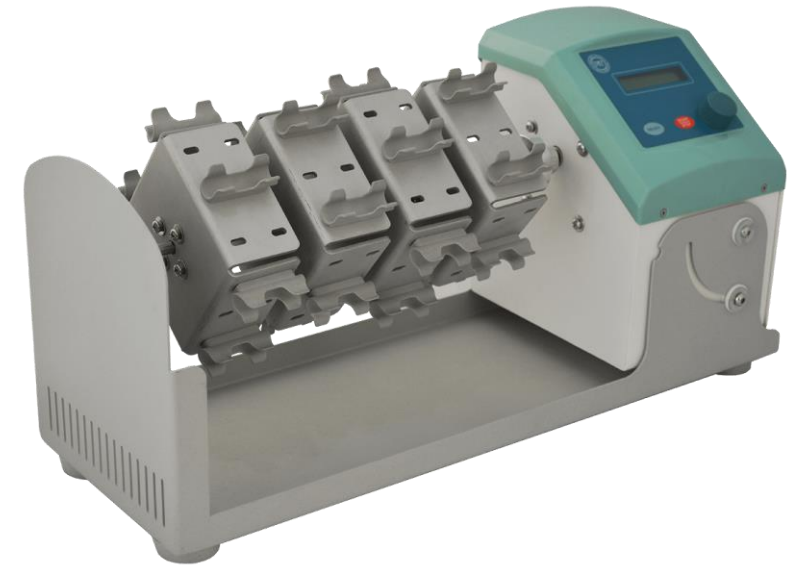
Rotamix PIT180

Mixing samples with different viscosities

Rotamix PIT180 is one of the basic devices for all laboratories to mix liquid samples with different viscosities. The rotation speed is adjustable from 10 to 80 rpm. There are various rotisserie rotors with different clips for this tube rotator to grip test tubes from 1.5 to 50 ml. Rotamix PIT180 is ideal for general applications in medical, research, and industrial laboratories due to supporting different tubes and adjustable rotation time and speed. Rotamix PIT180 can be used in cold environments or inside incubators (5-40°C).

- Ergonomic and beautiful design
- Noiseless rotation system
- Adjustable rotation speed and time
- Emergency stop (by pressing STOP key twice)
- LCD display safety in case of liquids and solvents spillage

Technical Data	Rotation speed	10-80 rpm
	Voltage	210-230 V
	Frequency	50 Hz
	Max. Power	10 W
	Display	LCD
	Timer range	99 : 59' : 59"
	Permissible ambient temperature	5 - 40°C
	Max. relative humidity	80%
	Weight (approx.)	8 Kg



Vortex Mixer

Mixing small amounts of specimen with a touch function

Vortex Mixer is small, compact and reliable. Mixing action starts by pressing a tube on the upper part of the device into the hole. Different test tubes and centrifuge tubes (generally with a maximum diameter of 30mm) can be used with this Vortex Mixer. It has an orbital motion with a rotational speed of 2,600 rpm. The quality and structure of its body has made this product resistant to most of the common laboratory acids and chemicals.

Technical Data	Motion type	Orbital
	Motion range	ϕ 4.5 mm
	Permissible weight (with tube)	100 g
	Speed	2600 rpm
	Permissible ambient temperature	+5+40°C
	Function type	Keyless (by pressing a tube on the upper part of the device)
	Frequency	50 Hz
	Weight	800 g



Hematology Cell Counter

Manual differential counter

Hematology Cell Counter is made according to the international standards. It has an ergonomic keyboard which consists of 10 keys as Poly, Mono, Eos, nRbc, Baso, Band, Meta, Myeto, L.V.F, and Lymph for required parameters in Diff function. This device has audio alarm (after counting 100 white blood cells) and the percentage of required parameters can be calculated simply by pressing the related key. In addition, counting stops automatically after reaching 100 cells. Therefore, in the event of pressing a key mistakenly , it will not disrupt the calculations. Yet, user can get the reticulocyte count and the actual number of leukocytes using the secondary keys %True Retic and True WBC.

Technical Data	Display	LCD- 16 × 2 character
	Display dimensions	62 mm × 13 mm
	Voltage	5 V
	Weight	365 gr



13-3

Diagnostic Test Kits

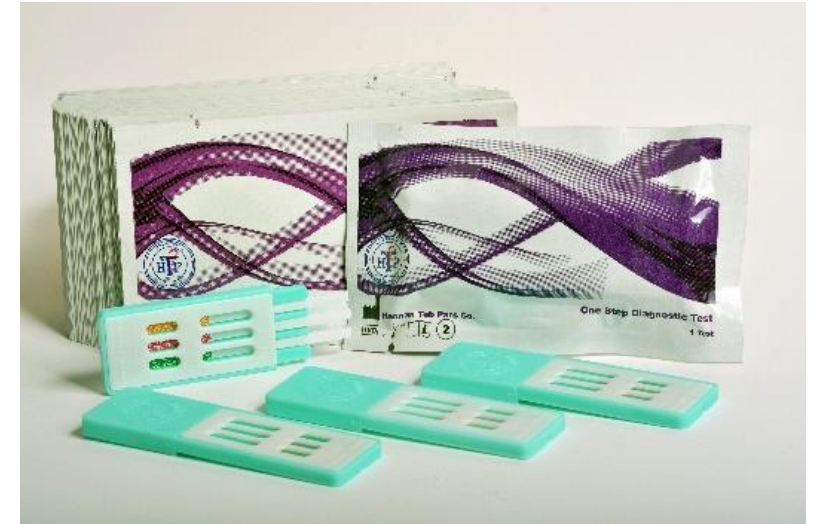
- **Drug of Abuse Tests**
- **Thin Layer Chromatography (TLC)**
- **Fertility Tests**



Drug of Abuse Test Kits



Test Name	Description	Specimen	Format	Pack	Cut-OFF
MOP (MORPHINE)	Morphine is opioid analgesic comprise a large of substances which control pain by depressing the central nervous system. Large doses of morphine can produce higher tolerance levels and physiological dependency in users and may lead to substance abuse. Morphine is extracted unmetabolized, and is also the major metabolic product of codeine and heroine. Morphine is detected in the urine for several days after an opiate does.	Urine	Strip Cassette	150	300 ng/ml
AMP (AMPHETAMINE)	Amphetamines are a class of potent sympathomimetic agent with therapeutic applications. Acute higher doses lead to enhanced stimulation of the central nervous system and induce euphoria, the effects of amphetamines generally last 2-4 hours. Following use, and the drug has a half - life of 2-4 hours in the body. About 30% of amphetamines are excreted in the urine. In unchanged form , with the remainder as hydroxylated and delaminated derivation.	Urine	Strip Cassette	150	500 ng/ml
MET (METAMPHETAMINE)	Methamphetamine is an addictive simulant drug that strongly activates certain system in the brain. Methamphetamines are closely related chemically to amphetamine but the central nervous system effect of methamphetamine are greater.	Urine	Strip Cassette	150	500 ng/ml
MTD (METHADONE)	Methadone is a narcotic pain reliever for medium to several pain. It is also used in the treatment of heroin. Methadone is partially stored in the liver for later use. Methadone acts more like Heroine.	Urine	Strip Cassette	150	300 ng/ml
THC (MARIJUANA)	Tetrahydrocannabinol, the active ingredient in the marijuana plant, is detectable in oral fluid shortly after use. The detection of the drug is thought shortly after use. The detection of the drug is thought to be primarily due to the direct exposure of the tube primarily due to the direct exposure of the drug in the buccal cavity. It is topical studies have shown a window of detection for the in saliva of up to 14 hours after drug use.	Urine	Strip Cassette	150	50 ng/ml



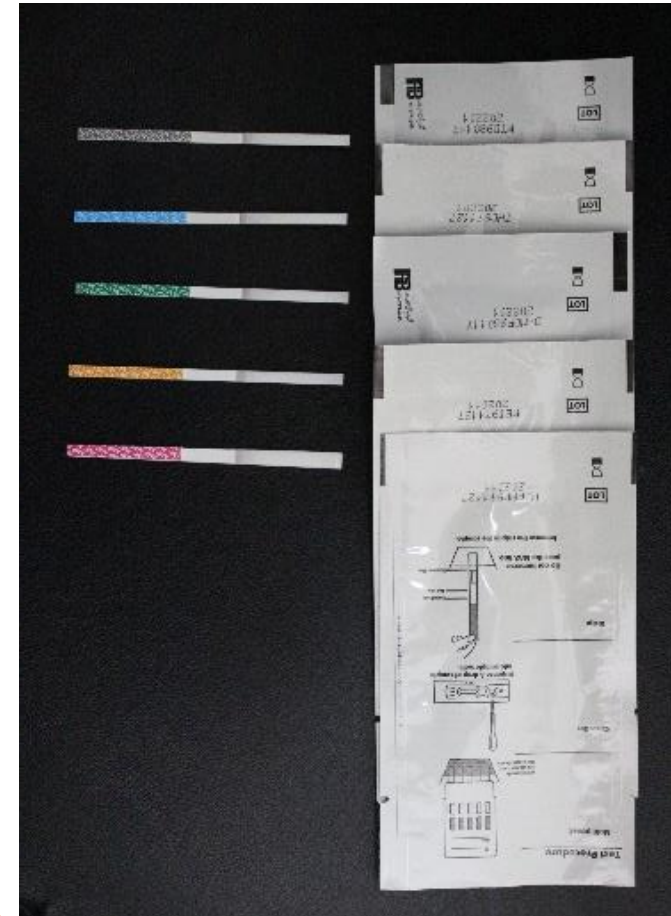
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Drug of Abuse Test Kits

Test Name	Description	Specimen	Format	Pack	Cut-OFF
TML (TRAMADOL)	Tramadol is a synthetic analog of codeine. But have a low binding affinity to the mu-opioid but have a low binding affinity to the mu-opioid receptors. Large dose of tramadol can develop tolerance and physiological dependency and lead to its abuse.	Urine	Strip Cassette	150	100ng/ml
COC (COCAINE)	Cocaine is a potent central nervous system stimulant and local anesthetic. Initially, it brings about extreme energy. cocaine has a longer biological half-time (5-8 hours) and generally by detected for 24-48 hours after cocaine exposure.	Urine	Strip Cassette	150	300 ng/ml
BUP (BUPRENORPHINE)	Buprenorphine is a potent analgesic often used in the treatment of opioid addiction. Buprenorphine is as effective as Methadone but demonstrates a lower of physical dependence.	Urine	Strip Cassette	150	10 ng/ml
BZO (METAMPHETAMINE)	Benzodiazepines are medications that are frequently prescribed the symptomatic treatment of anxiety and sleep disorders. Benzodiazepines have replaced barbiturates in the treatment of both anxiety and insomnia.	Urine	Strip Cassette	150	300 ng/ml
BAR (BARBITURATE)	Barbiturates are central nervous system depressants barbiturates are almost always taken orally as capsules or tablets. The detection period for the barbiturates in the urine is 4-7 days.	Urine	Strip Cassette	150	300 ng/ml
PCP (PHENCYCLIDINE)	Phencyclidine is use in power, capsule, and table form. after low does , the user thinks and acts swiftly and experiences mood swings from euphoria to depression.	Urine	Strip Cassette	150	25 ng/ml
TCA (TRICICCLE ANTIDEPRESSANT)	Tricyclic Anti-depressant are commonly used for the treatment of depressive disorders. TCA overdoses can result in profound central nervous. System depression. TCA overdose is the most common cause of death from prescription drugs.	Urine	Strip Cassette	150	1000 ng/ml
OXY (OXYCODONE)	Oxycodone is a semi- synthetic opioid with a structural similarity to codeine. The window of detection for oxycodone in urine is expected to be similar to that of other opioids such as morphine.	Urine	Strip Cassette	150	100 ng/ml



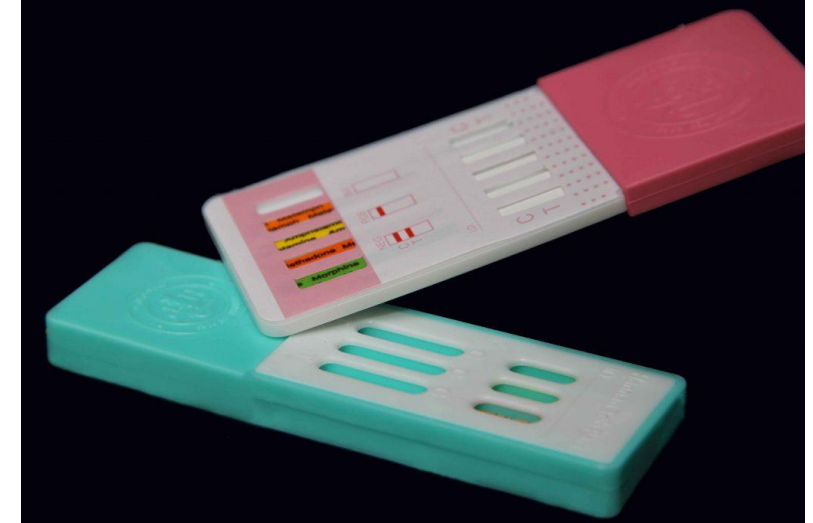
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Drug of Abuse Test Kits

Test Name	Description	Specimen	Format	Pack
MULTI DRUG 2 TEST PANEL	Multidrug 2 tests for use the detection drug of abuse in human urine. Test strips included any combination of the drugs: Morphine(mop) and Methamphetamine (MET).	Urine	Cassette	40
MULTI DRUG 3 TEST PANEL	Multidrug 3 tests for use the detection drug of abuse in human urine. Test strips included any combination of the drugs: Morphine(mop) ,Methamphetamine (MET) and Amphetamine (AMP).	Urine	Cassette	40
MULTI DRUG 4 TEST PANEL	Multidrug 4 tests for use the detection drug of abuse in human urine. Test strips included any combination of the drugs: Morphine(mop) ,Methamphetamine (MET), Amphetamine(AMP) and Methadone(MTD).	Urine	Cassette	40
MULTI DRUG 5 TEST PANEL	Multidrug 5 tests for use the detection drug of abuse in human urine. Test strips included any combination of the drugs: Morphine (MOR) ,Methamphetamine(MET), Amphetamine (AMP) ,Methadone(MTD) and Marijuana (THC).	Urine	Cassette	40
MULTI DRUG 6 TEST PANEL	Multidrug 6 tests for use the detection drug of abuse in human urine. Test strips included any combination of the drugs: Morphine (MOR) ,Methamphetamine(MET), Amphetamine (AMP) ,Methadone(MTD), Marijuana (THC) and Tramadol (TRA).	Urine	Cassette	40
MULTI DRUG 8 TEST PANEL	Multidrug 6 tests for use the detection drug of abuse in human urine. Test strips included any combination of the drugs: Morphine (MOR) ,Methamphetamine(MET), Amphetamine (AMP) ,Methadone(MTD), Marijuana (THC), Tramadol (TML) and Buprenorphine(BUP), Benzodiazepine(BZO)	Urine	Cassette	40
MULTI DRUG 10 TEST PANEL	Multidrug 6 tests for use the detection drug of abuse in human urine. Test strips included any combination of the drugs: Morphine (MOR) ,Methamphetamine(MET), Amphetamine (AMP) ,Methadone(MTD), Marijuana (THC), Tramadol (TML), Buprenorphine(BUP), Benzodiazepine(BZO), Tricyclic Antidepressant(TCA) and Phencyclidine(PCP).	Urine	Cassette	30



Thin Layer Chromatography (TLC)

Thin layer chromatography (TLC) technique is used to separate non volatile mixtures and also can be used to monitor the progress of a reaction , identify compounds present in a given mixture, and determine the purity of a substance.

TLC is used for screening and confirmation diagnosis Morphine, Amphetamine, Methamphetamine, Codeine, Tramadol, Methadone, Buprenorphine and Ecstasy in sample urine. It is designed to be used in diagnosis drug of abuse psychiatrics industrial.

Test Name	Description	Specimen	Pack
LEB-TLC	for use in detection drug of abuse in human urine. Test included any combination of the drugs: Morphine (MOR) ,Methamphetamine(MET), Amphetamine (AMP) ,Methadone(MTD), Codeine, Tramadol (TML), Buprenorphine(BUP) and Ecstasy .	Urine	20
MP-TLC	for use the detection drug of abuse in human urine. Test is designed to be used in detection of Synthetic Psychedelic Drugs.	Urine	20
MAM-20	for use in detection drug of abuse in human urine. Test included any combination of the drugs: Methamphetamine (MET) and Amphetamine (AMP).	Urine	20
MCMT-TLC	for use in detection drug of abuse in human urine. Test included any combination of the drugs: Morphine (MOR) ,Codeine, Methadone(MTD) and Tramadol (TML).	Urine	20



Fertility Tests

The HCG pregnancy rapid test is a rapid chromatographic immunoassay for the qualitative detection of human chorionic gonadotropin in urine or serum to aid in the early detection of pregnancy.

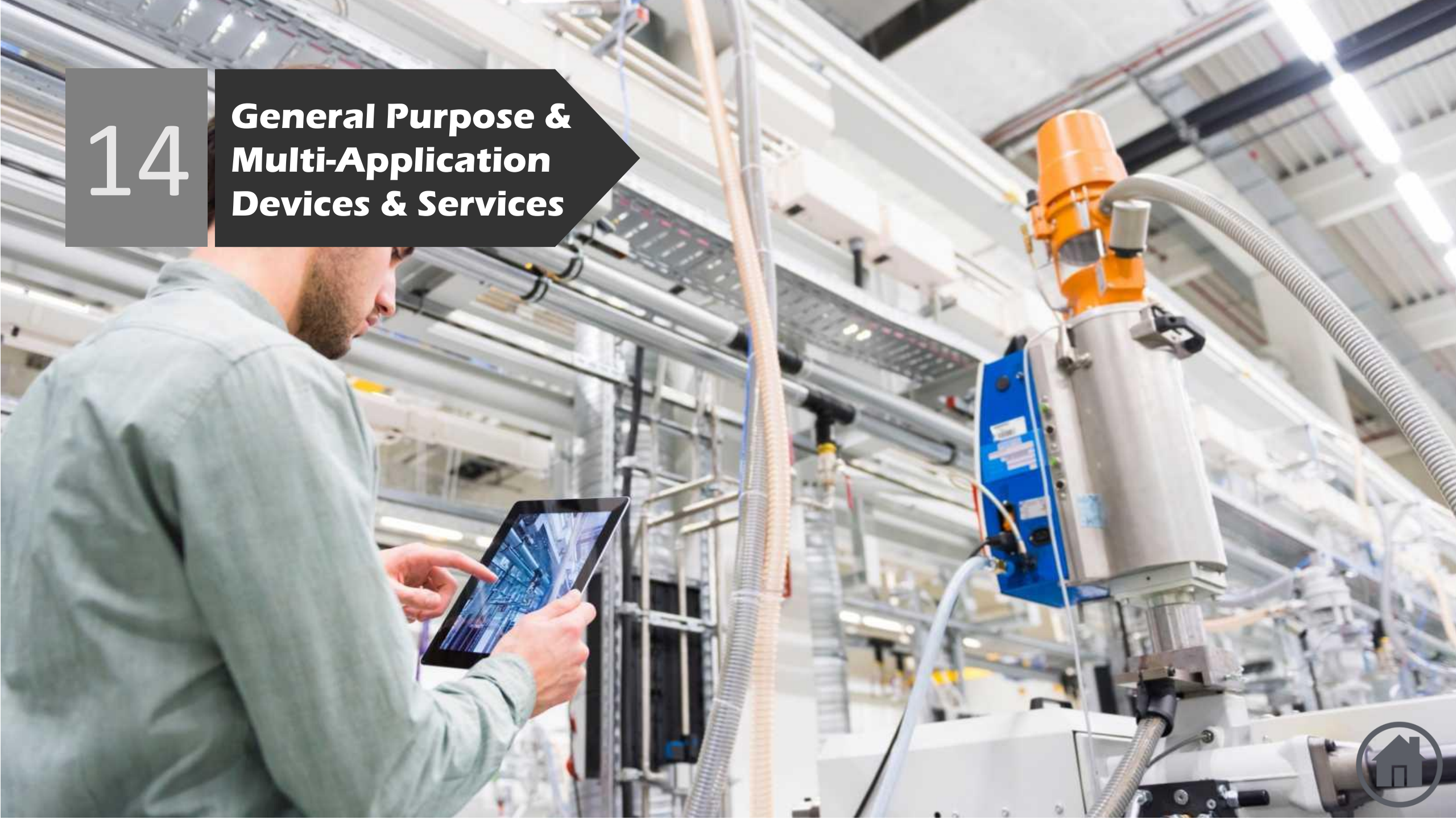
Luteinizing Hormone (LH) or also known as Lutropin, Interstitial Cell Stimulating Hormone or ICSH is a hormone associated with reproduction. Its stimulation of either ovary or testicles results in the release of an egg from the ovary (ovulation) in women or testosterone production in men. This test measures the amount of luteinizing hormone in the blood.

Test Name	Specimen	Format	Pack	Cut- OFF
LH	Urine	Strip	5 Pcs/Box- 500 Pcs/Cartoons	25mIU/ml
LH	Urine	Cassette	1 Pcs/Box- 500 Pcs/Cartoons	25mIU/ml
LH	Urine	Midstream	1 Pcs/Box- 500 Pcs/Cartoons	25mIU/ml
HCG	Urine	Strip	1 Pcs/Box- 500 Pcs/Cartoons	25mIU/ml
HCG	Urine	Cassette	1 Pcs/Box- 500 Pcs/Cartoons	25mIU/ml
HCG	Urine	Midstream	1 Pcs/Box- 500 Pcs/Cartoons	25mIU/ml



14

General Purpose & Multi-Application Devices & Services



14-1

Hot Air Tools & Blowers

- **Heaters**
 - **HP100 & HP200**
 - **MP100 & MP200**
- **Automatic Welding Machines**
 - **SMT Wedge**
 - **Tent**
- **Hi-Tech Industrial & Refractory Ceramics**



Heater HP100 & HP200

HP100 & HP200 are used in order to weld thermoplastics production include HPDE, PVC, LDPE, PP, PE, PA, ABS, PC pipes and sheets that are used to floor covering manufacturing the plating tanks.

Handy Welding Tool Type HP100	
Voltage	220~50/60 Hz
Power	1600 W
Temperature	40-600°C infinitely controlled
Air flow	220 l/min

Handy Welding Tool Type HP200	
Voltage	220~50/60 Hz
Power	3400 W
Temperature	40-600°C infinitely controlled
Air flow	520 l/min



Heater MP100 & MP200

MP100, MP200 are used in order to make tunnel shrink with the specific feature of lowest power consumption.

Also by installing them on production line machinery it's possible to produce hot air during process like Titanium Coating, PE Foam Welding or Wrapping Profiles.

Heater Type MP100	
Voltage	220~50/60 Hz
Power	1600 W
Temperature	40-600°C infinitely controlled
Air flow	External Air Blower Needed

Heater Type MP200	
Voltage	220~50/60 Hz
Power	3400 W
Temperature	40-600°C infinitely controlled
Air flow	External Air Blower Needed



Automatic Welding Machine

SMT WEDGE

SMT Wedge is used to welding Geo-membrane sheets Including HDPE and LDPE in order to construct artificial pool and saving and storage water lagoons and also tunnel lining and isolation.

Automatic Welding Machine Type SMT WEDGE	
Voltage	220~50/60 Hz
Power	1700 W
Temperature	40-500°C infinitely controlled
Speed	1-3 m/min
Pressure roller force	100-1100 N



Automatic Welding Machine TENT

Automatic welding machine type TENT is used to welding different kind of Thermoplastic sheets like tarpaulin, tents, and floor covering (sportive, hospital, automotive and wagons)

Automatic Welding Machine Type TENT	
Voltage	220~50/60 Hz
Power	3000 W
Temperature	40-500°C infinitely controlled
Air Flow	270 - 540 l/min adjustable
Speed	1-6 m/min
Welded Width	30 mm



Hi-Tech Industrial & Refractory Ceramics

Advantages:

- Thin walls
- Electrical shockability
- Electrical & Heat insulation
- High heat resistance

Target industries:

- Printing and packaging industry
- Medical industries
- Automotive industries
- Rail industries
- Oil, gas and petrochemical industries
- Textile industries
- Electrical, electronics, and telecommunications industries

Application in industries:

- Refractory ceramics
- Complex heating element (can be used in heaters, blowers and industrial hair dryers)
- The elements used in tetra pack plants
- Insulator ceramics in high frequency and power systems
- Ceramic catalysts used in the oil, gas and petrochemical industries



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Software



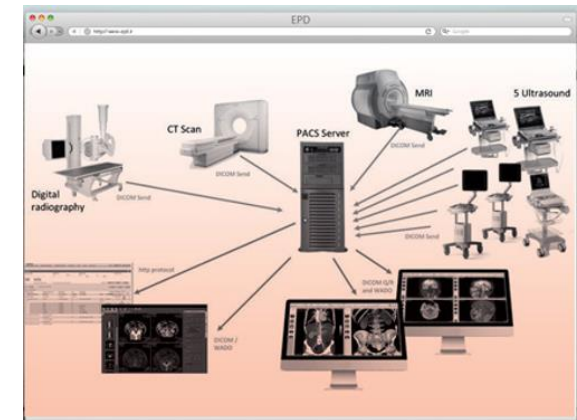
Picture Archiving & Communication System

PACS is a comprehensive solution for storing, transmitting, and processing medical images based on DICOM 3 standard. This program has different components, each with its own functions:

- PACS Server
- Web-Based Viewer
- Windows-Based Diagnostic Viewer (Standalone Mini PACS)
- DICOM Work List
- DICOMMIZER
- CD Robot Software
- Print Server

Cost-Benefit Analysis:

- Elimination of the consumable physical film
- Elimination of printer and related consuming materials
- Elimination of the envelopes
- Elimination of maintenance and handling fees
- Elimination of damaging or loss of the films
- Timely access to the required physicians at any place while reducing the specialized costs.
- Reduction of medical errors
- Reduction of problems related to the quality of photos taken with the help of software processing
- A great help to the environment by removing the film and printing associated materials



Healthcare Information System

This modular system is suitable for all healthcare center with any sizes, from small clinics to complex multi hospitals hub. During past 3 years by using the most advanced technologies, some part of this software is now available in SaaS rather than client server versions.

This technology (Cloud Computing SaaS Software Services in e-health) enables to use software services without full license purchase. This method eliminates many responsibilities for the user, including purchasing servers, operational systems, etc. The user will be only responsible for paying for the services that they are using. Cloud computing software as a services (SaaS), are compatible with all operational systems and hardware (PC, mobile, and tablet), and any operational system like: windows, android, ISO, Linux and ...

HIS has 4 major applications, each of which is composed of different parts:

- 1) HIS Basic Applications: such as Patient registration and administration, Clinical Information System (CIS), Electronic Medical Record (EMR), emergency wards (inpatient, outpatient, under observation), wards and patient displacement, the operating rooms, pregnant mother follow up childbirth & birth certification, death certification, medical documents ward, discharge and ...
- 2) HIS Para clinic applications: such as Pharmacy Information System (PIS), Laboratory Information System (LIS), Pathology Information System, Blood Bank Information System (BBIS), Radiology Information System (RIS), Dialysis Information System, Physiotherapy Information System and Dental Information System.
- 3) Data Interoperability: such as identity inquiry, referral system, and ...
- 4) Additional and Auxiliary software: such as Medical Error Information System, Ticketing and ...



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