

# CENTRAL STERILE SUPPLY DEPARTMENT 3000 SERIES



EPC/LABS/PRODUCTS/APPLICATIONS/SOFTWARE/ACCESSORIES/CONSUMABLES/SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## HS-3360 HORIZONTAL STERILIZER – 250L

- Fully microprocessor controlled.
- Pre and Post Vacuum treatment with loading equipment.
- High standards quality control.
- Low carbon and environment-friendly ideas.
- Main body of devices and the pipeline system are all utilized the update.
- Aluminum silicate fiber as the heat preservation measures to minimize the energy consumption.
- The new type structure realizes the "air-tight and interlock" of the front doors and the rear doors.
- This structure can also make the air in the sterile areas and the contaminated areas in the Supply room cannot enter and realize the complete isolation.
- Made of solid high quality 316 L SS



### Feature :

Door:	Sterilizer with automatic sliding door with door safety features.
Door Type:	Double Hinged Door Double door "air-tight and interlock"
Door Safety Systems:	<ul style="list-style-type: none"> <li>- Pressure sensor available in the chamber to monitor the chamber pressure. Chamber completely depressurizes before the door seal is retracted by vacuum.</li> <li>- Door chamber remains closed when chamber is pressurized.</li> <li>- Mechanical safety edge stops the door if it is obstructed while closing, thus protecting operator &amp; loading equipment.</li> <li>- A cycle cannot start if the door is open or not properly locked. Alarm indicator when door not closed.</li> <li>- Door seal make: silicon rubber gasket &amp; on commencement of the process the door gasket is pressed against the rear face of the door by steam/air to ensure the door remains closed during the process.</li> <li>- Automatic Sterilizer (Manual opening in case of automatic Mechanism failure) vertical sliding door.</li> </ul>
Construction:	<ul style="list-style-type: none"> <li>- The chamber jacketed to ensure the temperature uniformity in chamber.</li> <li>- The chamber floor slightly sloped towards an internal drain to facilitate drainage.</li> <li>- A stainless steel mesh strainer to protect the drain port from blockage by debris.</li> <li>- The chamber is mounted on a stainless steel framework with height adjustable feet.</li> </ul>
Surface Treatment:	<ul style="list-style-type: none"> <li>- The internal surface electro-chemically treated for high quality smooth finish to facilitate cleaning.</li> <li>- The resultant surface polished to less than 0.8 <math>\mu</math>m fineness to protect against corrosion.</li> <li>- The internal corners rounded off to facilitate efficient cleaning.</li> </ul>
Insulation:	The sterilizer jacket and door completely insulated to keep the autoclave cool on the outside. The insulation is completely encased in rigid removable sheet housing.
Jacket:	The jacket made of 316L quality stainless steel with pressure gauge.
Steam Generator:	<ul style="list-style-type: none"> <li>- Inbuilt steam generator of adequate capacity</li> <li>- Mounted under the sterilizer chamber &amp; made of 316 quality stainless steel</li> <li>- Steam generator is chloride free mineral wool/mineral glass wool of thickness 25mm to 50 mm insulation with Aluminum.</li> <li>- Built in thermostat, pressure safety valve &amp; water level glass gauge inspection device</li> <li>- Heating element capacity to make the sterilization process faster with maximum cycle time of 45-50mins in pre vacuum.</li> <li>- Automatic blow down valve &amp; degassing system for feeding water to steam generator.</li> </ul>

Pipes, Valves and Components:	<p>piping made of Stainless Steel</p> <ul style="list-style-type: none"> <li>- Process valves shall be stainless steel pneumatically operated piston valves for longer trouble free operations.</li> <li>- Non-standard components are non-proprietary &amp; easily sourced.</li> <li>- Hot pipes properly insulated.</li> <li>- Safety valves should be made of stainless steel.</li> <li>- Primary piping &amp; fittings of stainless steel threaded or stainless steel triclamp fittings.</li> <li>- Primary components: 316 quality triclamps or threaded fitting components like – Manual valve, non-return valve, pressure regulator, pneumatic valves, and steam trap etc</li> <li>- Electrical Components : the terminals &amp; contacts should be housed in a water tight cabinet while the other electrical component should be directly mounted on sterilizer.</li> </ul>
Air Filter:	<p>Disposable air filter for filtering the atmospheric air before entering inside the chamber. The filter separation efficiency is higher than 99.998% for particle size less than 0.3µm.</p>
Control System:	<p>The control system is microprocessor based PLC system specially designed for sterilization application.</p> <ul style="list-style-type: none"> <li>- Control system is touch sensitive, 7 inches colour display interface at operator loading side while it should have normal interface at unloading side.</li> <li>- Main PLC based control system the sterilizer with independent monitoring &amp; documentation system which constantly cross checks the safety systems &amp; time.</li> <li>- Multiple password access levels to control access/operation of the machine preventing unauthorized access.</li> <li>- Access levels: user selectable.</li> <li>- The control system has CPU processor with battery back-up &amp; nonvolatile memories, Digital input/output controls, analog measuring inputs &amp; COM ports for printer &amp; PC connectivity. With the standard factory configuration, calibration of the temperature circuits and calibration of the pressure circuits require an access code.</li> </ul>
Temperature and Pressure Sensors:	<ul style="list-style-type: none"> <li>- The sterilizer have 2 temperature &amp; pressure sensors one at chamber drain &amp; one in Jacket.</li> <li>- Temperature &amp; pressure sensor in chamber available</li> <li>- Sensors - PT100 sensors which confirm Class A of the IEC 571 standard, with accuracy of <math>\pm 0.1^{\circ}\text{C}</math> while the pressure sensor should have the accuracy 1% over the range of 0-5 bar.</li> <li>- Each sensor circuit should be calibrated with individual constants to correct the deviation in manufacturing and aging.</li> </ul>
Alarms:	<p>Automatic process checking &amp; failure correction, pressure sensor failure, phase time-out, doors not properly closed, power failure, Continuous self-checking of all the safety devices, low water level ,water in chamber Alarms audio and visual.</p>
Loading/ Unloading system:	<p>Sterilizer with two rails for easy loading, shelf rack with shelves (carriage) with 1 set of loading and unloading trolley.</p>
Cycle Documentation – Printer:	<p>The autoclave is equipped with an alpha-numeric Laser/thermal printer which prints the each cycle parameter performed by the sterilizer. The measured values of temperature and pressure are printed at fixed time intervals, according to various phases of the sterilization process such as 4 minute time interval for vacuum, 1 minute time interval for sterilization, and the start and end time of the drying phase. All these time intervals are user defined. Time intervals as desired by the user prior to order delivery.</p>
Vacuum Pump:	<p>High vacuum compressor (water ring type) with recycling facility for removal of air within the chamber</p> <ul style="list-style-type: none"> <li>- Mounted on vibration isolator for quite operations.</li> <li>- Low water level alarm to protect it from dry run.</li> </ul>
Available Cycles:	<p>The sterilizer designed to operate various programs. Special cycle programmed by an authorized supervisor code only.</p>
Programs include:	<ol style="list-style-type: none"> <li>1. Wrapped Instruments, Porous load <math>134^{\circ}\text{C}</math></li> <li>2. Heat Sensitive material, rubber, plastic, porous load <math>121^{\circ}\text{C}</math></li> <li>3. Rapid cycle for single open instrument</li> <li>4. Heavy load cycle</li> <li>5. Bowie &amp; Dick test (7 Kg), PCD test</li> <li>6. Leak test</li> </ol>

## HS 3600 HORIZONTAL STERILIZER – 600 L

- Fully microprocessor controlled.
- Pre and Post Vacuum treatment with loading equipment.
- High standards quality control.
- Low carbon and environment-friendly ideas.
- Main body of devices and the pipeline system are all utilized the update.
- Aluminum silicate fiber as the heat preservation measures to minimize the energy consumption.
- The new type structure realizes the “air-tight and interlock” of the front doors and the rear doors.
- This structure can also make the air in the sterile areas and the contaminated areas in the supply room cannot enter and realize the complete isolation.
- Made of solid high quality 316 L SS.



### Feature :

Door:	Pneumatically (Compressed Air) double door with fully automatic vertical sliding movement along with door safety features.
Door Type:	Double Hinged Door Double door “air-tight and interlock”
Door Safety Systems:	<ul style="list-style-type: none"> <li>- Pressure sensor available in the chamber to monitor the chamber pressure. Chamber completely depressurizes before the door seal is retracted by vacuum.</li> <li>- Door chamber remains closed when chamber is pressurized.</li> <li>- Mechanical safety edge stops the door if it is obstructed while closing, thus protecting operator &amp; loading equipment.</li> <li>- A cycle cannot start if the door is open or not properly locked. Alarm indicator when door not closed.</li> <li>- Door seal make: silicon rubber gasket &amp; on commencement of the process the door gasket is pressed against the rear face of the door by steam/air to ensure the door remains closed during the process.</li> <li>- Automatic Sterilizer (Manual opening in case of automatic Mechanism failure) vertical sliding door.</li> </ul>
Construction:	<ul style="list-style-type: none"> <li>- The chamber jacketed to ensure the temperature uniformity in chamber.</li> <li>- The chamber floor slightly sloped towards an internal drain to facilitate drainage.</li> <li>- A stainless steel mesh strainer to protect the drain port from blockage by debris.</li> <li>- The chamber is mounted on a stainless steel framework with height adjustable feet.</li> </ul>
Surface Treatment:	<ul style="list-style-type: none"> <li>- The internal surface electro-chemically treated for high quality smooth finish to facilitate cleaning.</li> <li>- The resultant surface polished to less than 0.8 µm fineness to protect against corrosion.</li> <li>- The internal corners rounded off to facilitate efficient cleaning.</li> </ul>
Insulation:	The sterilizer jacket and door completely insulated to keep the autoclave cool on the outside. The insulation is completely encased in rigid removable sheet housing.
Jacket:	The jacket made of 316L quality stainless steel with pressure gauge.
Steam Generator:	<ul style="list-style-type: none"> <li>- inbuilt steam generator of adequate capacity</li> <li>- Mounted under the sterilizer chamber &amp; made of 316 quality stainless steel</li> <li>- Steam generator is chloride free mineral wool/mineral glass wool of thickness 25mm to 50 mm insulation with Aluminum.</li> <li>- built in thermostat, pressure safety valve &amp; water level glass gauge inspection device</li> <li>- Heating element capacity to make the sterilization process faster with maximum cycle time of 45-50mins in pre vacuum.</li> <li>- Automatic blow down valve &amp; degassing system for feeding water to steam generator.</li> </ul>

Pipes, Valves and Components:	Piping made of Stainless Steel - Process valves shall be stainless steel pneumatically operated piston valves for longer trouble free operations. - Non-standard components are non-proprietary & easily sourced. - Hot pipes properly insulated. - Safety valves should be made of stainless steel. - Primary piping & fittings of stainless steel threaded or stainless steel triclamp fittings. - Primary components: 316 quality triclamps or threaded fitting components like – Manual valve, non-return valve, pressure regulator, pneumatic valves, and steam trap etc - Electrical Components: the terminals & contacts should be housed in a water tight cabinet while the other electrical component should be directly mounted on sterilizer.
Air Filter	disposable air filter for filtering the atmospheric air before entering inside the chamber. The filter separation efficiency is higher than 99.998% for particle size less than 0.3µm.
Control System:	1. The control system is microprocessor based PLC system specially designed for sterilization application. - Control system is touch sensitive, 7 inches colour display interface at operator loading side while it should have normal interface at unloading side . - Main PLC based control system the sterilizer with independent monitoring & documentation system which constantly cross checks the safety systems & time. - Multiple password access levels to control access/operation of the machine preventing unauthorized access. - Access levels: user selectable. - The control system has CPU processor with battery back-up & nonvolatile memories, Digital input/output controls, analog measuring inputs & COM ports for printer & PC connectivity. With the standard factory configuration, calibration of the temperature circuits and calibration of the pressure circuits require an access code.
Temperature and Pressure Sensors:	- The sterilizer has 2 temperature & pressure sensors one at chamber drain & one in Jacket. - Temperature & pressure sensor in chamber available. - The sensors should be PT100 sensors to confirm Class A of the IEC 571 standard, with accuracy of $\pm 0.1^{\circ}\text{C}$ while the pressure sensor should have the accuracy 1% over the range of 0-5 bar. - Each sensor circuit should be calibrated with individual constants to correct the deviation in manufacturing and aging.
Alarms:	Automatic process checking & failure correction, pressure sensor failure, phase time-out, doors not properly closed, power failure, Continuous self-checking of all the safety devices, low water level ,water in chamber Alarms audio and visual.
Loading/ Unloading system:	Sterilizer with two rails for easy loading, shelf rack with shelves (carriage) with 1 set of loading and unloading trolley.
Cycle Documentation – Printer:	The autoclave is equipped with an alpha-numeric Laser/thermal printer which prints the each cycle parameter performed by the sterilizer. The measured values of temperature and pressure are printed at fixed time intervals, according to various phases of the sterilization process such as 4 minute time interval for vacuum, 1 minute time interval for sterilization, and the start and end time of the drying phase. All these time intervals are user defined. Time intervals as desired by the user prior to order delivery.
Vacuum Pump:	High vacuum compressor (water ring type) with recycling facility for removal of air within the chamber. - Mounted on vibration isolator for quiet operations. - Low water level alarm to protect it from dry run.
Available Cycles:	The sterilizer designed to operate various programs. Special cycle programmed by an authorized supervisor code only.
Programs include:	1. Wrapped Instruments, Porous load $134^{\circ}\text{C}$ 2. Heat Sensitive material, rubber, plastic, porous load $121^{\circ}\text{C}$ 3. Rapid cycle for single open instrument 4. Heavy load cycle 5. Bowie & Dick test (7 Kg), PCD test 6. Leak test

Has provision for connecting a  $\frac{3}{4}$ " line terminating in the shutoff valve, non-return valve, pressure relief valve, steam riser, condensate drain and other essential accessories (for future steam connection from the central boiler).  
High vacuum compressor with recycling facility.

## TS-3022 TABLE TOP STERILIZER



- Capacity: 20-25 L
- Chamber Size: The sterilizer have Circular or Rectangular chamber.
- Types of Cycles Process: Table Top Sterilizers equipped with B-process, N process as per latest EN 13060. Proof of declaration of conformity.
- Chamber: 1) Made of S.S.316 & the Pressure Equipment Directive (PED) &EN 13445 norms. 2) Chamber have working pressure 2.2 bar & design pressure up to 3.8 bar. 3) Chamber equipped with electrically heated jacket for preheating on standby mode.

### Feature :

Door Design	Opening door with at least one or two locking bolts for enhanced door safety. The doors with silicon elastomeric rubber gasket to withstand temperature upto 140°C & 20-30 psi.
Air Filter	Disposable air filter provided for filtering the atmospheric air before entering inside the chamber. The filter separation efficiency - higher than 99.998% for particle size less than 0.3µm.
Cycle programs	<ul style="list-style-type: none"> <li>- 134°C Wrapped.</li> <li>- 121°C Wrapped.</li> <li>- 134°C Flash/Rapid open instrument cycle.</li> <li>- 134°C Textile.</li> <li>- Test programs : Bowie &amp; Dick, Leak Test.</li> </ul>
Water Storage Tank	Sterilizer has inbuilt water reservoir with storage capacity up to 5 L. Water reservoirs has easy access for cleaning & to avoid bio film.
Steam Generator:	<ul style="list-style-type: none"> <li>- Sterilizer has inbuilt steam generator.</li> <li>- The steam generator design with integrated energy storing system for building up power for sterilization loads in short time</li> </ul>
Control Panel:	The control system is microprocessor based PLC system specially designed for sterilization applications. The control system has CPU processor with battery back-up, Digital input/output controls, analog measuring inputs & COM ports for printer & PC connectivity.
Alarms:	Automatic process checking & failure correction should be possible by the control system. The range of alarm should include Temperature & pressure sensor failure, phase timeout, doors not properly closed, power failure (less than 10 sec should be ignored), continuous self checking of all the safety devices, low water level etc. All the alarms should be audiovisual.
Accessories	The sterilizer unit includes rack with 3 or more levels. The Sterilizer has water circulation system so that no drain point & fixed water inlets required
Electrical Requirement:	230V & 50 Hz electric supply.



## UC 3045 Ultra Sonic Cleaner



Solid-state generator that sends ultrasonic (approx 40 KHz) impulses through wash water containing detergent and electrical heating;

- Microprocessor controlled display with memory time and temperature functions.
- The electrical energy should be transformed into sound waves by transducers, fixed to the bottom of the tank.
- The tank should be made of solid stainless steel (316/304).
- The ultrasonic cleaner has a display and control which could be easily seen and placed above any liquid for safety and reliability.
- It has digital read out timer and temperature setting (temperature adjustable from 30 to 69 °C or more) monitoring.

Capacity: 40 L

Power: 230V, 50 Hz AC Supply.

Accessories: Wire mesh basket of suitable size & Stainless steel lid

## VC 3046 Vacuum Cleaner

- Type: Upright vacuum cleaner
- It has vacuum and blowing functions
- Capacity of tank : 30 L tank, rust resistant
- Air flow: 60 L/s
- Suction Power: 17 Kilopascals
- Power : 230V, 50 Hz AC Supply.



## WD 3320 Washer Disinfector

- Small area: small area, suitable for operation room or disinfection supply center is relatively compact environment.
- Before and after the double door can meet the supply room: "decontamination area" and the "clean" zone partition management requirements.
- Cleaning capacity: large equipment basket.
- The efficiency is high: the amount of water per cycle is little, and the enzyme, oil.
- Cleaning effect is good: the use of fast and flexible connection technology, reducing the water pressure in the process of cleaning, improve the cleaning water pressure, improve the cleaning effect
- Automatic microprocessor based Instrument Washer Double Manual Door
- Complete with water circulation pump, necessary valves & fittings microprocessor based so as to ensure correct program sequence and irregularities or
- Deviations which are displayed immediately



Chamber Capacity:	<p>Operational Volume 320L.</p> <p>It can process minimum 12 DIN trays (Approx 480X250X50) in single process.</p> <p>The chamber is made of S.S. 316L quality with electro polished washed surfaces.</p> <p>The chamber edges does not have the pockets &amp; folds so as to avoid bacterial growth.</p> <p>The wash chamber should also be fitted with bright light for clear visibility of the washing process.</p>
Washer	<ul style="list-style-type: none"> <li>- For shortest possible filling and draining phases, higher capacity quick opening valves are used so that short total process time is achieved. The design focus on saving the environment through reduced consumptions of all utilities.</li> <li>- Cleansable spray arms are located at the top and bottom of the chamber.</li> <li>- Wash carts are equipped with cleansable spray arms between each shelf so as to facilitate water to reach all the surfaces which needs to be cleaned.</li> <li>- Injection wash carts are automatically connected to water and drying air in order to clean and dry the inside of the tubular instrument.</li> <li>- The drying air is pre-heated.</li> <li>- The washer is equipped with independent temperature monitoring and validation test port.</li> <li>- Data interface RS232 is available.</li> <li>- All electrical components are easily accessible for easy service - ergonomic design.</li> <li>- Washer is equipped with audible alarm that alerts if error code occurs.</li> <li>- Double door is made of toughened glass for see through &amp; it facilitate the loading process.</li> <li>- The washer has 3 dosing pump (detergent, alkaline &amp; lubrication) for process chemicals, instrument lubricants/ enzymatic cleaners</li> <li>- The washer performs: <ul style="list-style-type: none"> <li>a) Pre-rinses with cold water.</li> <li>b) Main washes with hot water (60C) and detergent.</li> <li>c) Final rinse with water (55C)</li> <li>d) Disinfection with hot water (85C)</li> </ul> </li> <li>- Unit has LCD display and operating console and has membrane key pad for durability</li> <li>- Unit has feature safety measures such as: <ul style="list-style-type: none"> <li>a) Automatic door lock.</li> <li>b) Automatic temperature regulation.</li> <li>c) Electronic adjustment of water level.</li> </ul> </li> <li>- The unit has an interface as standard for an optional batch printer.</li> <li>- The washer disinfectant is with universal rack, 4 level racks for instrument tray, full size instrument tray as well as stop valves, anti-suction device and plastic water trap.</li> </ul>



## DL 3500 Documentation Labeller

The labeller is 3-line for printing the following information:

- a) Person responsible for sterilization
- b) Load number
- c) Packaging content
- d) Sterilizer number
- e) Production date
- f) Expiry date

It has 24 rolls of 750 3-line labels with double adhesives (Steam and ETO) indicator.



## DC 3100 Drying Cabinet

Automatic in Operature:

- Make: inner chamber: stainless steel
- Outer chamber: epoxy painted CRCA sheets
- Heaters: minimum 2 KW
- Povision for setting the drying temperature and drying time.
- Dimension: 600X600X 600 mm



## GCM 3200 Gauze Cutting Machine

- Useful in cutting thickest of cotton gauze material
- It consist of a cutting unit and a knife sharpening unit
- Blade size: 200 mm.
- Cutting Capacity: 165 mm.
- Power supply : 230V, 50 Hz.



## HD 3201 Hand Dryer

- Type: wall mount type model
- It has infrared sensor for automatic detection of hands
- It has brushed 304 SS finish.
- Motor has 1/10 HP at 7500 RPM
- Dryer delivers the flow of 7300 LFM.
- Power Supply: 230V, 50 Hz
- Accessories: clamps for mounting



## HSM3800 HEAT SEALING MACHINE



- Microprocessor based machine.
- Sealing machine consists of cutting machine, packing station, transfer station and sealing machine main body.
- With microcomputer control, LCD display screen displays time speed, temperature, and other functions.
- Ergonomically designed for increased user convenience and space.
- The microprocessor-controlled printing system, which is independently researched and developed, supports bilingual print. It can automatically print the contents sealing date, expiry date, batch number, the staff code and etc.
- Sealer housing is powder coated and the control panel is of flat membrane type for easy cleansing.
- Warm up time less than 30 sec
- Feed speed: 10m/min
- Auto start up
- Resettable counter function.
- Protection against overheating
- Energy saving standby mode.
- Start prevention at temperature deviation +/- 5°C.
- The sealing temperature control of 50-200°C can be adjusted and sealing temperature variation can be precisely controlled in +1°C to ensure the sealing quality.
- Continuous sealing produces high working efficiency.
- Validated sealing of sterilization bags and clear view pouches.
- Energy saving standby mode.
- Records can be stored: Continuous check and record the seal parameters; surface pressure and sealing time.

### ILM 3750 Inspection lamp with Magnifier

- It has two spring balanced arms with parallel movement of at least 150 degree in horizontal plane.
- Magnifying lens is of fixed 7 diopter bi-convex.
- Lens diameter is approximately 12.5 cm



### MTW-3770 Manual Trolley Washer

- Trolley washer has wall mounted spray gun unit with holder for detergent.
- It has connection to hot water with ½" tubing or reinforced rubber hose.
- It works on normal water pressure
- Cleaning agent is automatically injected into the water flow.



### MR-3010 Multi roll tape dispenser



- Size: (L x W x H) 260 x 60 x 120 mm
- The dispenser for sterilizer tape holds two reels of tape.
- The heavy-duty bottom plate is fitted with anti-slip rubber to prevent the dispenser from slipping when tape is torn off.
- It has high quality coated steel for long use

## RO 3500 Reverse Osmosis Plant 1500 LPH



- Capacity : 1500 LPH
- Self-protection function can automatically give alarm when the machine has no water and the pressure is abnormal.
- Self-possessed cleaning function, which is set by user; it can automatically operate to clean the filter unit when it is at night or the machine does not work.
- With multiple models and can be easily installed, which can be specifically designed accordingly.
- Fully comply with the standard requirement for Hemodialysis and Related Therapies and to the actual situation of the user and meet various demand of the hospitals requirement of the standard for the cleaning water Management Standard of Central Sterile Supply Department.
- Advanced reverse osmosis membrane cleaning technology, warranty period of RO reverse osmosis membrane is two years.
- Automatic tank level control.
- Over voltage and over current protection.
- Auto flush timer available.
- Stainless Steel skid mounts for pretreatment and RO unit.
- It has booster Pumps.
- It has direct bypass valve and auto flush systems.
- It has thin film composite membrane.
- It has dry run protection of pump.
- Auto flush timer.
- Automatic tank level control
- It has over voltage and over current protection.
- It has high efficiency reverse osmosis membrane.
- It has re-circulation pump provides instantaneous delivery flow.
- It has comprehensive micro-processor monitoring and control system

## SPG 3860 Spray Gun Rinser

- This device is needed wherever effective rinsing is a must.
- The powerful, multi-purpose spray-gun rinse.
- Different tips and nozzles for various cleaning purposes: syringes and cannulas with record cone or lure cone, measuring and blood pipettes, catheters and small pipes, drainage tubing, spray jet for rapid instrument cleaning, bottles and Erlenmeyer flasks, water jets for suction cleaning.
- Select uses water or compressed air to rinse your items.
- All tips are easily locked to the spray gun by a safety cone.
- The gun grip is heat-insulated and the water/air pressure is released, regulated and fully controlled by the trigger.
- Heat insulated gun grip.
- Water/air pressure is released, regulated and fully controlled by spray gun trigger.
- It comes with a set of 8 nozzles and a wall-mounted rack for nozzle storage.
- For assisted cleaning of pipettes, catheters, cannulas, syringes, etc.



## CSSD Furniture

### WS 3102 Wash Stations with 2 sinks for dirty area

- Size (L x W x H): 2000x750x850 mm
- The worktop is made of solid, bright-polished minimum sheet thickness of 1.5 mm stainless steel (304) to withstand heavy-duty work with wet instrument.
- It is designed with an integrated 10 mm high edge at the front and sides, and a 60 mm high edge (splash back) at the rear
- The front and side edges are reinforced and widened to 49 mm. Edges are welded together and polished at the corners.
- The worktop slopes to the sink, and reinforced by a full-length support frame.
- The support frame is a complete assembly with the front, back and ends welded together at the corners.
- The worktop and support frame is bonded together with double-adhesive tape of a special, age-resistant quality to give rigidity and noise abatement.
- The floor stand is made of polished stainless steel.
- The table is available with double sink units at both ends of the table, all with a smooth, polished inside finish made of stainless steel (304) top
- Corners are curved to a 65 mm radius for easy cleaning.
- The bottom has slope to the drain.
- Sink units are 650 mm wide and 900 mm high (adjustable  $\pm 25$  mm) to accommodate large modular instrument trays
- The legs provide strong support and hold to the entire unit securely.
- The sink include a drain valve, removable strainer, manually operated drain-valve, overflow drainpipe and water trap. The table also includes a mixing faucet with swivel spout, for cold and hot water connection.



## WT 3012 Work Table for Wet Goods for dirty area

- Size (L x W x H): 2000x750x850 mm
- The worktop is made of solid, bright-polished minimum sheet thickness of 1.5 mm stainless steel (304) to withstand heavy-duty work with wet instrument.
- It is designed with an integrated 10 mm high edge at the front and sides, and a 60 mm high edge (splash back) at the rear
- The front and side edges are reinforced and widened to 49 mm. Edges are welded together and polished at the corners.
- The worktop slopes to the sink, and reinforced by a full-length support frame.
- The support frame is a complete assembly with the front, back and ends welded together at the corners.
- The worktop and support frame is bonded together with double-adhesive tape of a special, age-resistant quality to give rigidity and noise abatement.
- The floor stand is made of polished stainless steel.
- 9. The table is available with double sink units at both ends of the table, all with a smooth, polished inside finish made of stainless steel (304) top
- Corners are curved to a 65 mm radius for easy cleaning.
- The bottom has slope to the drain.
- Sink units are 650 mm wide and 900 mm high (adjustable  $\pm 25$  mm) to accommodate large modular instrument trays
- The legs provide strong support and hold to the entire unit securely.
- The sink include a drain valve, removable strainer, manually operated drain-valve, overflow drainpipe and water trap. The table also includes a mixing faucet with swivel spout, for cold and hot water connection.



## WT 3013 Work Table for dry Goods for clean area (Pass Box Receiving)

1. Size approx. (LxWxH):1800x650x900 mm
2. Stainless steel tables specially designed for working with dry goods and for general purpose pre storage.
3. The work tables have a rigid stainless steel construction which is easy to clean and without sharp edges or corners.
4. The table is ergonomically worked up, and have easy to clean robust mat finished (to reduce reflection of light from the surface) with minimum sheet thickness of 1.5 mm stainless steel (304) worktop/surface to withstand and carry out heavy work comfortably, either sitting or standing.
5. The edges along the front, back and sides should be reinforced and widened to 37 mm, giving a rigid construction.
6. They are welded together and polished at all corners for good hygiene, as well as for the comfort and safety of the staff.
7. The worktop is supported by a complete assembly with full-length reinforcements along the front, back and ends, welded together at the corners.
8. The worktop and support frame are bonded together with double-adhesive tape of a special, age resistant quality to give rigidity and noise abatement.



9. The support frame has to be mounted on a solid, stable floor stand, made of polished stainless steel square tubing, with horizontal braces 300 mm above floor level. An adjustable 10 cm ( $\pm 25$  mm) plastic foot, easy to clean, is mounted on each leg.
10. The provision is to be made for a sturdy 445 mm-wide stainless steel shelf (optional) can be mounted on the horizontal braces.
12. All edges are smooth and the rigid frame are made up of minimum 1.5 mm sheet thickness stainless steel (304).
13. There is unobstructed access to the working space, since the only supports needed along the front of the table are the corner legs. This also facilitates cleaning of floors.



## WT 3015 Work Table for dry Goods for sterile area

1. Size (LxWxH) : 1800x650x900 mm
2. Stainless steel tables specially designed for working with dry goods and for general purpose pre-storage.
3. The work tables have a rigid stainless steel construction which is easy to clean and without sharp edges or corners.
4. The table is ergonomically worked up, should have easy to clean robust mat finished (to reduce reflection of light from the surface) with minimum sheet thickness of 1.5 mm stainless steel (304) worktop/surface to withstand and carry out heavy work comfortably, either sitting or standing.
5. The edges along the front, back and sides are reinforced and widened to 37 mm, giving a rigid construction.
6. They are welded together and polished at all corners for good hygiene, as well as for the comfort and safety of the staff.
7. The worktop is supported by a complete assembly with full-length reinforcements along the front, back and ends, welded together at the corners.
8. The worktop and support frame are bonded together with double-adhesive tape of a special, age resistant quality to give rigidity and noise abatement.
9. The support frame has to be mounted on a solid, stable floor stand, made of polished stainless steel square tubing, with horizontal braces 300 mm above floor level. An adjustable 10 cm ( $\pm 25$  mm) plastic foot, easy to clean, is mounted on each leg.
10. The provision is to be made for a sturdy 445 mm-wide stainless steel shelf (optional) can be mounted on the horizontal braces.
11. Must be delivered ready for assembly
12. All edges should be smooth and the rigid frame should be made up of minimum 1.5 mm sheet thickness stainless steel (304).
13. There is unobstructed access to the working space, since the only supports needed along the front of the table are the corner legs. This also facilitates cleaning of floors.



## CPT 3032 Control & Packing Table with two Shelves for clean area

Size (LxWxH): 2000x1500x900 mm

2. This table is specially designed for sorting, inspection, functional control and packing of various sets for wards, clinics etc. and for surgical instrument sets in trays. The work could be done comfortably, either sitting or standing.

3. The worktop is made of a robust wood-based core material, surfaced with plastic laminate in a soft beige colour that reduces reflection of light from the surface. All edges is smooth. The extended width of the worktop is designed to facilitate thorough inspection of instrument trays and allow the use of large wrapping material.

4. The rigid frame is made of stainless steel (304).

5. There is unobstructed access to the working space, since the only supports needed along the front of the table are the corner legs. This also facilitates cleaning of floors.

6. It has double workspace.

One workplace table is 700 mm wide worktop and other workplace is 1400 mm worktop.

7. The table includes a two-shelf console, mounted on the worktop, for storage of packaging Materials. The rigid supporting columns of the console include 3 electrical outlets.

8. There is a free space of 450 mm between the lower shelf and the worktop, and 150 mm between the two shelves.

9. The table has a drawer unit (both sides as double model) mounted under the worktop.

10. Each drawer unit should be 400 mm wide and includes a drawer and a sliding plate.

11. Fluorescent tube fittings (Inspection lamp) is available. (Optional)



## LFT 3089 Linen Fold Table for clean area

1. Size (LxWxH) : 2000x1400x900 mm

2. The table is specially designed for sorting, inspection (each piece of linen can be moved over an illuminated inspection panel) and folding of surgical dressing sets and individually packaged towels/-gowns. The extended width also facilitates work with large dressing sheets. Work can be carried out comfortably, either sitting or standing.

3. Worktop is made of stainless steel SS 304 Grade with thickness 1.2mm, mat finished.

4. All edges of the worktop is smooth.

5. The top a built-in opalescent (milky) plastic surface plate, 1000 x 600 mm, illuminated from underneath by two 25 W fluorescent tubes located beneath the top in a laminated recess.

6. The table have two electrical outlets (one on each side).

7. The rigid frame is made of stainless steel (304).

8. There is unobstructed access to the working space, since the only supports needed along the front of the table are the corner legs. This also facilitates cleaning of floors.



## WS3016 Wire Storage shelf module for dirty/disinfection area

1. Size (LxWxH) : 1500x450x1900 mm
2. Construction is based on single free-standing shelf modules for storage of clean linen, instruments, and packing material or sterilized goods, including disposables.
3. Moreover, two single modules can be placed back to back and combined as a double module unit.
5. The wire construction allows good air circulation while permitting easy inspection of the goods.
6. The wire shelves are made of special heavy-duty steel (304), chromium-plated and surface treated with clear epoxy varnish to facilitate cleaning.
7. The shelf unit is easy to assemble on site and all parts should fit precisely.
8. Shelves are mounted by means of plastic clamps onto circular rigid posts, with the adjustable height within a range of about 50 mm. Each post include a height adjustable foot.
9. Each unit includes 5 shelves.
10. The shelf unit have optional Ø 125 mm castors for using as a mobile storage unit by replacing the foot with castors.



## WS 3017 Wire Storage shelf module for Clean supply area

1. Size (LxWxH) : 1525x455x1895 mm
2. Construction is based on single free-standing shelf modules for storage of clean linen, instruments, and packing material or sterilized goods, including disposables.
3. Moreover, two single modules can be placed back to back and combined as a double module unit.
5. The wire construction allow good air circulation while permitting easy inspection of the goods.
6. The wire shelves are made of special heavy-duty steel (304), chromium-plated and surface treated with clear epoxy varnish to facilitate cleaning.
7. The shelf unit is easy to assemble on site and all parts should fit precisely.
8. Shelves are mounted by means of plastic clamps onto circular rigid posts, with the adjustable height within a range of about 50 mm. Each post include a height adjustable foot.
9. Each unit include 5 shelves.
10. The shelf unit have optional Ø 125 mm castors for using as a mobile storage unit by replacing the foot with castors.



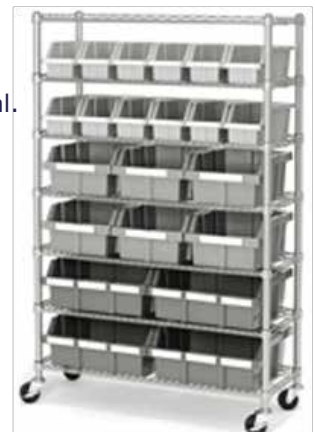
## WS 3019 Wire Storage shelf module for Sterile store

1. Size (LxWxH) : 1525x455x1895 mm
2. Construction is based on single free-standing shelf modules for storage of clean linen, instruments, and packing material or sterilized goods, including disposables.
3. Moreover, two single modules can be placed back to back and combined as a double module unit.
5. The wire construction allow good air circulation while permitting easy inspection of the goods.
6. The wire shelves made of special heavy-duty steel (304), chromium-plated and surface treated with clear epoxy varnish to facilitate cleaning.
7. The shelf unit is easy to assemble on site and all parts fit precisely.
8. Shelves are mounted by means of plastic clamps onto circular rigid posts, with the adjustable height within a range of about 50 mm. Each post include a height adjustable foot.
9. Each unit include 5 shelves.
10. The shelf have optional Ø 125 mm castors for using as a mobile storage unit by replacing the foot with castors.



## FS 3079 Free Standing basket rack (15 Baskets) for Sterile store

1. Size (LxWxH) : 1850x480x2150 mm(Single), 1850x800x2150 mm(Double)
2. Single and double basket storage racks to store wire baskets in sterile storage and/or as pre-storage of clean packed goods.
3. The rack is designed as an open unit to promote aeration of sterilized goods and to make inspection of stored goods as easy as possible.
4. It provide rigid, horizontal guide-rails, consisting of 50 x 20 mm steel profiles for loading and unloading the baskets by sliding the baskets on rail.
5. The guide-rails is welded to a robust support column mounted on a rigid floor stand.
6. The columns is joined by support frames on top and below the base of the rack.
7. To facilitate cleaning of the floor, the base have a rigid construction that minimizes the number of legs needed for support.
8. Each leg have an adjustable foot ( $\pm 25$  mm).
9. The rack is made of SS.
10. The single rack is a free-standing section that holds 5 baskets in each vertical.



## PB -3065 Pass Box

1. Area : Dirty to Clean supply, ETO to Sterile supply & Sterile Issue
2. Size : 600x600x600mm, internal
3. It made up of SS 304 sheets with double wall construction
4. it has UV lights for safe storage of components
5. UV light have automatically switch off when any one door is opened
6. Pass-through chamber is based on electrical sliding hatches and fit all types of standard racks.
7. The chamber consist of two electrically operated sliding hatches.
8. Each hatch have its own 24 DC motor that powers a drive belt and ensures smooth operation, as well as its own convenient push-button control to ensure that both hatches cannot be opened at the same time.
9. The control should feature two modes of operation to open or close the hatch with a press button mechanism. It has door interlocking to prevent simultaneous opening of both the doors  
It has toughened glass paneling for easy visibility.



## SSP 3047 Stainless Steel Paneling for Sterilizer & Washer Disinfectors

2. All the sterilizers and washer disinfectors should be recessed between the S.S. 304 quality panels.
3. The S.S. sheets have 18 gauge thicknesses with superior finish to match it with equipment finish.
4. The sheets are mounted on painted M.S. frame structure with adequate supports.
5. The panels have the doors for service access from loading side
6. There should not be any gaps between panel & the equipment



## CTT 3089 Closed Transport Trolley from Sterile Store to OT

1. Size : 1400x750x1260 mm(LxWxH) (External)
2. A Closed Transport trolley is used for sterile goods handling, for which higher protection than normal dust protection is required, e.g. short transports between hospital buildings. Suitable for handling baskets or containers with a total capacity of 9 STU (1 STU = 600 x 300 x 300 mm) on three solid, removable shelves (3 x 3 STU).
3. Trolley is fitted with large stainless steel wheels (Ø 160 mm) for easier maneuverability.
4. It has two fixed and two swivel wheels with brakes.
5. It is fully welded stainless steel construction (minimum 18 gauges, 304).
6. The doors is open 270° for easy access and cleaning.
7. Trolley have lockable doors and include handlebars.



## LD-3116 Linen Distribution & Storage Trolley

1. Size : 1020x740x1750 mm
2. Distribution trolleys are ergonomically designed for convenient manual distribution of sterilized goods to the users or for returning used goods to the central processing area.
3. The trolley is flexible and easy to handle and transport modular wire baskets and/or closed tote boxes, to increase handling efficiency and improve safety for the end-user, transport staff and the surroundings.
4. These trolleys have horizontally mounted slide bars that act as supports for the baskets and/or tote boxes.
5. A heavy-duty stainless steel (304) bottom plate should protect the goods during transport.
6. A sturdy handle is mounted on the bottom frame for convenient handling, even in narrow corridors.
7. The handle is so designed to permit the use of disposable plastic or reusable cloth covers for further protection during distribution.
8. The trolley is made of heavy-duty polished stainless steel (304) and every detail is designed for easy cleaning and disinfection.
9. The wheels (2 fixed, 2 swivel) have a diameter of 125 mm and are made of rubber with ball bearings.





## TT-3210 Table Trolley for Dirty/Clean/Sterile Area

1. Size : 1080x550x800 mm
2. The table trolley is made of all-welded medical grade stainless steel tubing.
3. The trolley have handlebars.
4. The solid top and bottom shelves are made of heavy gauge stainless steel (304) with a ground and polished finish, and with a 12 mm raised edge all around.
5. The lower shelf is 300 mm above floor level. There are protective buffer rollers on all four corners.
6. The table trolley has 4 swivel wheels, mounted in ball bearings, for easy handling even in narrow passages.



## ITB-3672 Instrument Tray Big

1. Area : Various movement
2. Size : 450x250x70 mm
3. It is modular design with high precision and is designed for use with modular wire baskets through all phases of instrument processing: washing and disinfection (both manual and in an automatic washer-disinfector), ultrasonic cleaning, inspection and packing, sterilization, storage, distribution and usage.
4. It is self-drying after disinfection in hot water (min.+85°C)
5. Instrument trays are sturdy, jig-welded trays maintain their size and shape even if handled carelessly.
6. It is stackable.
7. The tray is made of stainless steel (304) wire net, with a maximum mesh size of 6.5 mm and a wire diameter of 1.5 mm. This design gives optimal cleaning results and at the same time prevents instruments from penetrating the sides of the tray.
8. All cross-points in the network and vertical wires to top and bottom frames is point welded.
9. All free wire ends are soft-polished to prevent injury when handled.
10. The bottom wire construction include a rigid, 3 mm diameter, stainless steel (304) wireframe to provide space for airing between goods and work surface and to allow use on roller, belt and chain conveyors.
11. It is electro-polished for smooth, clean surfaces and also suitable for ISO modular wire baskets



## ITS 3459 Instrument Tray Small

1. Area : Various movement
2. Size : 340x250x70 mm
3. It is modular design with high precision and should be designed for use with modular wire baskets through all phases of instrument processing: washing and disinfection (both manual and in an automatic washer-disinfector), ultrasonic cleaning, inspection and packing, sterilization, storage, distribution and usage.
4. It is self-drying after disinfection in hot water (min.+85°C)
5. Instrument trays should be sturdy, jig-welded trays maintain their size and shape even if handled carelessly.
6. It is stackable.
7. The tray is made of stainless steel (304) wire net, with a maximum mesh size of 6.5 mm and a wire diameter of 1.5 mm. This design gives optimal cleaning results and at the same time prevents instruments from penetrating the sides of the tray.
8. All cross-points in the network and vertical wires to top and bottom frames should be point welded.
9. All free wire ends are soft-polished to prevent injury when handled.
10. The bottom wire construction include a rigid, 3 mm diameter, stainless steel (304) wire frame to provide space for airing between goods and work surface and to allow use on roller, belt and chain conveyors.
11. It is electro-polished for smooth, clean surfaces and also suitable for modular wire baskets.



## MSB -3115 Modular Sterilizing baskets Big

1. Size : 585x395x195 mm
2. Area : Various movement
3. It is modular design with standard SPRI sizes and high precision and is designed for sterilizing / processing as well as easy handling and management of the supply, storage and distribution of re-circulated sterilized goods.
4. It is self-drying after disinfection in hot water (min.+85°C)
5. It is sturdy, jig-welded trays maintain their size and shape even if handled carelessly.
6. It is both nest able and stackable There should be special wire support to help making baskets both stackable (when the supports are folded into the basket) and nest able (when the supports are folded out)
7. The top frame is designed such that it serve as a handle grip for easy carrying even when heavily loaded.
8. There is be no sharp edges or wires.
9. The surfaces is smooth to assure easy cleaning in a washer-disinfector.
10. The baskets is made of electro-polishes heavy-duty stainless steel (304) and have a rigid bottom frame that gives space for airing between goods and work surfaces and allow use on roller belt and chain conveyors.
11. It is designed and manufactured in accordance with high quality specifications to assure long lifetime.



## MSB 3116 Modular Sterilizing baskets Medium

1. Size : 585x395x100 mm
2. Area : Various movement
3. It is modular design with standard SPRI sizes and high precision and is designed for sterilizing / processing as well as easy handling and management of the supply, storage and distribution of re-circulated sterilized goods.
4. It is self-drying after disinfection in hot water (min.+85°C)
5. It is sturdy, jig-welded trays maintain their size and shape even if handled carelessly.
6. It is both nest able and stackable There is special wire support to help making baskets both stackable (when the supports are folded into the basket) and nest able (when the supports are folded out)
7. The top frame is designed such that it serve as a handle grip for easy carrying even when heavily loaded.
8. There is no sharp edges or wires.
9. The surfaces are smooth to assure easy cleaning in a washer-disinfector.
10. The baskets are made of electro-polishes heavy-duty stainless steel (304) and have a rigid bottom frame that gives space for airing between goods and work surfaces and allow use on roller belt and chain conveyors.
11. It is designed and manufactured in accordance with high quality specifications to assure long lifetime.



## SC -3764 Staff Chair

1. medium Back chair
2. rest on high quality 50mm castors on 4 legs with cross reinforcement for sides with arm rest and foot stumps of PVC
3. have seamlessly upholstered seat and backrest, washable antimicrobial with poly foam cushion.
4. Colour of base is black.
5. height adjustable, broad, padded .
6. upholstered arm rests and comfortable back rest.



## LS 3749 Lab Stool without backrest.(SS)

Stainless Steel top

1. Height adjustable from 450mm to 680 mm, through mild steel threaded screws
2. Four legged base made of 25mm steel tube mounted on rubber shoes.
3. Stainless steel ring for footrest.
4. Pre-treated Epoxy powder coated frame work.



## SC 3035 Storage Cupboard

1. Size 500mm L x 450mm H x 400mm depth.
2. Material is of high quality, cold rolled, close annealed (CRCA) steel. provided with lockable doors



## WB 7963 Waste Bin Pedal Operated-SS

1. High quality stainless steel.
2. Minimum capacity of 5 liters.
3. The covering lid is open able by pressing the plate attached to the bottom.



## CL4-3015 Change Locker -4 Compartments

1. Change locker have 4 compartments.
2. Have 2 lockers at bottom and 2 at top.
3. Size of each compartment is 20cmW x 80cmH x 45 cmD. pretreated and epoxy powder coated.



## VC 3013 Visitors Chair

1. Ergonomically designed, sturdy and of good quality.
2. Comfortable seating and low back support.
3. Padded seats with anti-microbial upholstery of leather finish.
4. Arm rests and fixed height.
5. Frame of MS tubing, multiple pretreated and finished with epoxy powder coating.



## OPR 3136 Open Storage Rack

1. Made of stainless steel
2. Highly durable, and should have narrow holes for allowing ventilation.
3. Water resistant, disinfectant resistant and rust proof.
4. With lockable castors
5. Approx. Dimensions: 180cm (H)x45 cm (W) x150cm(L)



## OT 3139 OFFICE TABLE

1. Wooden executive office table.
2. High quality, aesthetic and ergonomic design.
3. Pre laminated, of high density pressed wood, properly treated.
4. Flame and water retardant. Lipped on all sides
5. Option for placing keyboard of computer
6. One shelf on left side
7. Size (approx):1200 mm(L)X800 mm(W)x750 mm(H)



## SR -3140 Shoe Rack

1. Shoe rack to keep 12 pair of shoes.
2. Made up of MS powder coated rack with 4 tiers.
3. Length, breadth and depth to keeps shoes of all standard sizes.



## CSC 3014 Closed Sterilization Containers

1. Sizes - 300x290x110 units
2. Thermo lock drainage, steam penetration valve and stainless steel top.



## IC -3965 Issue/Receive Counter

1. Construction: Counter Top should be made of granite top
2. Aesthetically good
3. Provision for placing CPU,UPS, Mouse, Keyboard etc



## PDT 3697 Paper Dispensing Trolley

1. Movable trolley for storing four different sizes of sterilizing wrapping paper sheets made of stainless steel tube.
2. Have four ball bearing rubber wheels, of which two wheels equipped with brakes.





## BT 3964 Basket Trolley

1. Suitable for transport of empty, stacked /nested ,modular wire sterilization basket.
2. Mounted on a 4 swivel castors of 75mm dia.
3. Made up of stainless steel.
4. Provided with handle for easy transport.
5. Load capacity approx. 150 Kg.
6. Dimension (approx.): 750mm(L)X500 mm(W)x150 mm(H)



## ATL 3015 Computer

1. Intel Core processor
2. 4 GB RAM
3. 1TB hard disk
4. DVD writer
5. Built in LAN
6. 2 high speed USB outlets
7. 17" or more LCD/LED Monitor or more
8. With Mouse, keyboard
9. Laserjet printer black & White - 1 no.
10. UPS with minimum 15mins backup



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