Med Sistem

Optimum solutions for

Medical gas systems

Bedhead units

Pendants

Choice of Professionals

We perform like craftsman sensetivity...

MedSistem is the supplier of medical gas distribution systems equipment according to EN 7396 and HTM 02-01. Our product portfolio comprises everything a hospital may need from medical plants to the point of patient care for reliable and safe operation of medical gases. MedSistem has the flexibility to offer tailor made solutions for our customers and always follow European and International standards.

Every business and customer is unique and precious for us.

Customer satisfaction is the first goal for MedSistem. MedSistem is committed to quality care and patient safety, supported by pharmaceutical and medical device regulations and standards, from the selection of raw materials through production to the administration of the medical gas systems medical vacuum plants, medical air plants,AGS plants, pipeline components, bedhead units, pendants and accessories. MedSistem continuously improves his product quality and effectiveness with quality management.

The founder and the owner of MedSistem Mr Bülent Hoşgör who worked for BOC Turkey (BOS) between 1991 and 1997 has a background of more than 20 years experience of medical gas distribution systems. With the experience, he established MedSistem in 1998.

MedSistem has been operating in the Turkish market as well export market for more than 15 years and has a reputable brand in the Turkish market, Europe and Middle East with many prestigious references for medical gas distribution systems, bedhead units and pendants.

Better environment better health.

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MS PCU Tandem ICU Pendant

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MS Beam Intensive Care Unit

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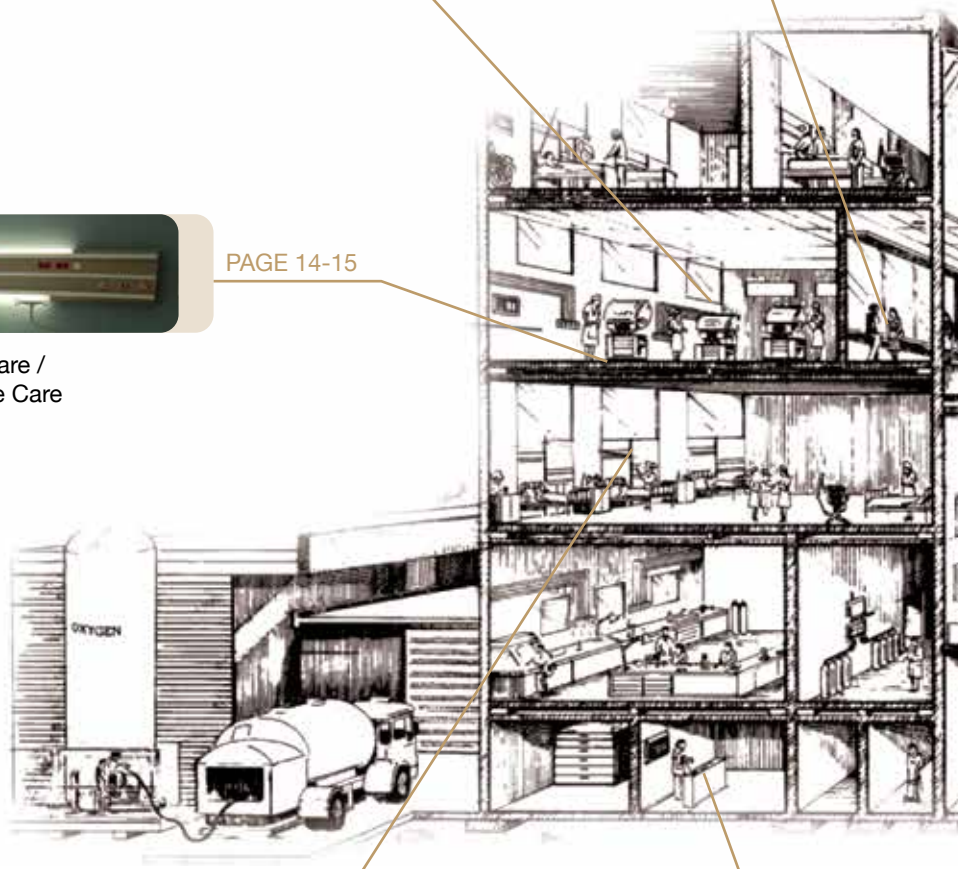
MS WICU Bedhead Unit Intensive Care /
MS H-Power Bedhead Unit Intensive Care



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MS 300 / MS Col-Power Bedhead Unit Normal Care /
MS MedWall Bedhead Unit Normal Care

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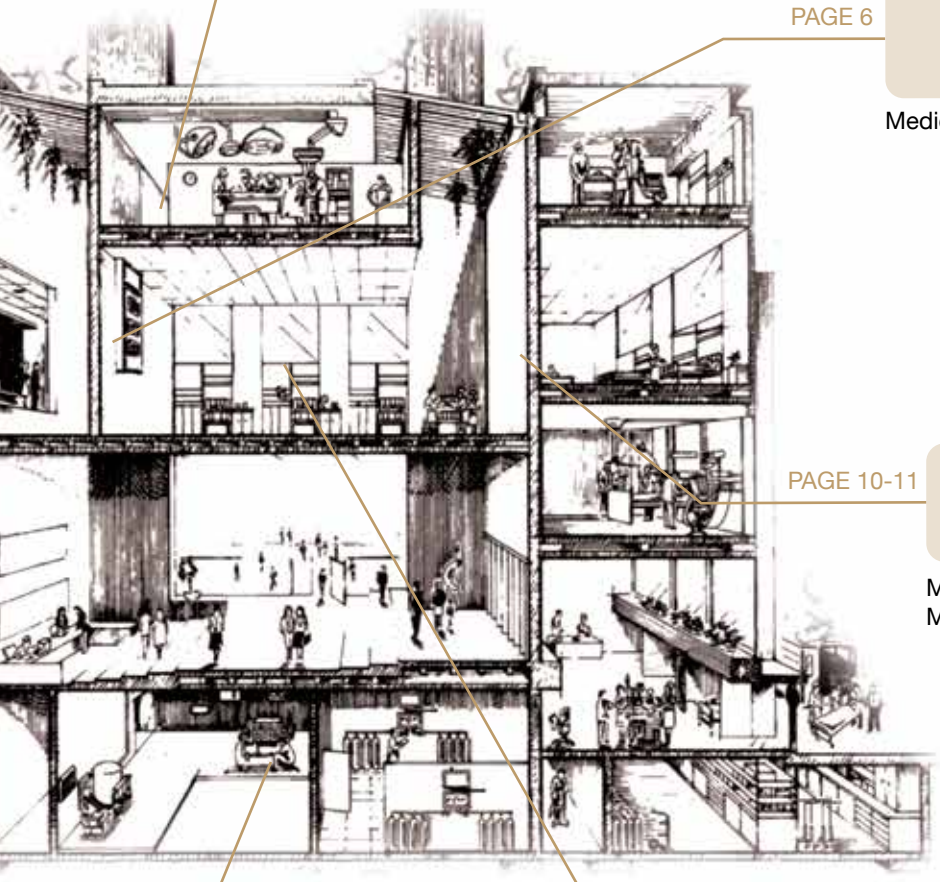
Medical Gas Control Panels – Headers-
VIE Tank Control Panel- Collectors



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MS POR-Rigid / Retractable / Rotative / Multimovement Pendant
MS POR-Rigid / Rotative / Multimovement Pendant Arms

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MS 100 Bedhead Unit Normal Care /
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Medical Rail and Accessories /
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MS MedAir Medical Air Plant /
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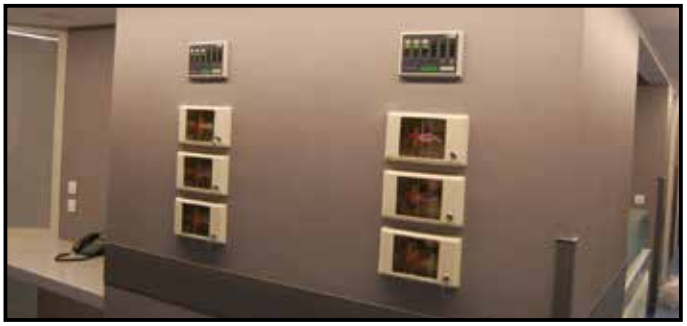
Medical Gas Distribution Systems



MS LAP Local Alarm panels help you to monitor all the gas system pressure running in the pipeline within the hospital and MS CAP (Central Alarm Panel) monitors your plants' working conditions. MedSistem Alarm Panels complies with HTM 2022- HTM 02-01 and EN ISO 7396-1. MedSistem Alarm panel has both audible and visiual indicators.

MS LAP Local Alarm Panels are designed to monitor 5 gas services 1 vacuum in the "Normal", "High" and "Low" Pressure conditions Local Alarm panel has 3 LEDs to show green "Normal" and red "High / Low" Pressure indicators. Local Alarm panels needs the pressure and vacuum sensors, or the transducers to gas pipeline and provide signals to initiate the alarm circuits, when panels are supplied with transducers you will see the pressure on the display continuously.

MS CAP Central Alarm Panels are designed to monitor the plants and manifolds in the "Normal" and two different alarm conditions such as; " Change Cylinder– for manifolds", " Plant Fault—for Plants", "Pressure Fault" etc. For the Central Alarm Panels your alarm conditions occur from your plants. You should normally get the alarm conditions from your Plants and manifolds . If you may have problems of communication between the CAP and the Plants MedSistem will supply you encoders.

Alarm Panels can be installed on surface very easily and works with 50 /60 Hz./ 240 V power supply, has a green Power LED which shows power on; a "Mute" Switch to mute the audible alarm; a "Test" button which helps you to test if the complete alarm panel conditions are working or not. If the problem will not fixed the audible alarm will start again.

MS ZSU Zone Service Units are designed to provide a zone isolation facility, for use either in an emergency or for maintanence purposes. ZSU is a real physical break point which allows work to be safely carried out on the pipeline. MS ZSU complies with HTM 2022 HTM 02-01 and EN ISO 7396-1. MS ZSU has 100% sealing gas spesific NIST connectors which comply with BS 5682:1984. MS ZSU consists of a quarter turn line valve. Both 22 mm valve and 42 mm valve options are available. MS ZSU has a large Special Tempered Glass, to break in case of Emergency, which can be broken into small pieces so does not cut hands and avoid injury to the personnel trying access to the valve.

You may install MS ZSU either on surface or flush mounted. MS ZSU body and cover are made from self extinguishing ABS and the stainless steel backplate resists corrosion very well and other metal material used inside are made off stainless steel. The cover of MS ZSU will normally be locked and the cover is designed for natural ventilation to prevent a built up of gas in case of any leakage within the gas valve.

Gas Outlets: Medical Gas, Vacuum and AGS outlets can be offered both from well-known European supplier and also local suppliers which are produced according to EN ISO 9170-1 and EN ISO 9170-2.Gas outlets can be supplied as different standards such as BS, DIN, Afnor.

Pipeline: MedSistem supplies pipes, fittings, and other fixing materials which are produced accoring to EN ISO 7396-1.

Medical Gas Control Panels can be offered both from well-known European supplier and also local suppliers which are produced according to EN ISO 7396-1.

MedSistem can offer both Full autochange or Semi autochange Gas Control panels. Thanks to control panels you will have continuous gas (oxygen- nitrous oxide- air- nitrogen- carbon dioxide) supply in your pipeline. The empty cylinders should be replaced when depleted. Control panels should be requested with a pressure switch to give the alarm of the change facility. Models are avaliable with capacity from 25 m3/hour to 150 m3/hour.

MedSistem Control Panels incorporates service valves for left and right banks to close if needed and incorporates a pressure relief valve to keep the regulators from over pressurisation. Change unit incorporates manually operated pressure relief valves for both banks which enable depressurisation for service purposes or for emergency purposes. If requested, can be supplied without or with pressure switches for sending signal to the Central Alarm Panel.

Headers: The cylinder connecting ports are non-return valves. The cylinders are connected to the banks via high pressure copper pigtails. Securing chains are supplied with the manifold.

Pigtails of the Manifolds are gas specific and they may be produced for different standards such as DIN, BS, etc. Normally they are made of copper but if requested it can be also supplied as stainless steel and even as stainles steel hose type.

Emergency Service Manifolds. Manual control panels are mostly used for emergency service manifold. Emergency Service Manifolds are generally manufactured as 2x1 and 2x2. But if it is requested it can be manufactured up to 2x10. If requested, Manual Manifolds can be supplied without or with pressure switches also for sending signals to the Central Alarm Panel. During the operation when the gas at the supply bank depletes you have to close the valve of the supply bank header and open the reserve bank header valve.

VIE – Liquid Oxygen Cryogenic Bulk Tank and Evaporator: MedSistem also offers a range of Cryogenic bulk tanks for LOX-LIN or LAR. These are produced locally according to the international standarts. Capacities can be 3000, 5000, 10000, 15.000 and 20.000 liters. Higher capcities are also possible as tailor made, for these capacities please confirm with our sales department. Cryogenic bulk tanks consist of an inner stainless steel and outer vessel.

VIE Tank Control Panel are manfuctured to in duplex configuration, with one Duty and one Standby regulator. It can be either wall mounted or free standing unit. It is easy to install and has minimum maintenance.All pipe work are medical grade. It is produced according to EN ISO 7396-1, HTM 02-01 and HTM2022, ready for for installation and fully tested.

Collectors: To isolate independent pipelines from each other MedSistem offers a range of collectors as per your specification and/or request.Collectors are completely tailor made and come with one shut-off valve and manometer for each outlet, ready for installation and fully tested.

MS MedAir Medical Air Plant

MS MedAir Medical Air Plant is a tailor made product either in package or modular format with all pipe work fitted and factory tested. MS MedAir can be produced with many different brand compressors. MS MedAir may have simplex, duplex, triplex or quadruplex compressors either screw or reciprocating ones, with duplex breathing air modul, simplex, duplex or quadruplex air vessels (depending on the plant capacity) and user friendly Control Panel. MS MedAir Medical Air Plant complies with HTM 2022- HTM 02-01 and EN ISO 7396-1.

Air Compressors
MS MedAir has screw type compressors as standard but if requested it can be supplied with reciprocating Piston type compressors as well. Compressors are one of the important part of the MS MedAir Plant. As standard MedSistem supplies screw compressors from Sarmak (Compair) or Atlas Copco or any of the reputable compressor manufacturer in Europe; reciprocating compressors from mostly from Atlas Copco (these brands may change without prior notice). If specified or requested MedSistem can also supply the plants with any other brands.

Breathing Air Module
Dryer and Filter groups are one of the most important part of the Medical Air Plant. No matter how good is the compressor used at the plant, the final air quality delivered from the Medical Air Plant depends on the quality of the Dryer and filter Module. This part supplies the conditioned air so it must be produced due to the standards. MedSistem MedAir Plant consists the dryer and the filter groups as Breathing Air Module from the well-known manufacturers who are producing these products under European regulations.

Plant Central and Motor Control Panel
MS MedAir Plant has a state of art control panel with aesthetically pleasing appearance. It can easily be understood and operated. The central control panel has an electronic card that matches the demand with selection and rotation of the lead compressor to maximise the compresor life and minimise energy consumption and maintenance costs. The Central Control panel can operate up to three compressors so the duplex module package plant capacity can be upgraded in future. The displays are clear and easy to read. The control panels are simple to maintain and to find a fault. MS MedAir plant may be manufactured with PLC Motor Control Panel, and can operate with more than 3 compressors if requested.

Air Vessels: The vessels capacities are as mentioned in our product data sheet. But if you have specific vessel capacity requirement, we may supply you the plant vessels due to that.

Safety and tests: MS MedAir Medical Air plant are manufactured according to the international quality and safety standards and all safety tests are carried during production.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Minimum Maintanence MS MedAir requires minimum maintanence and is designed to enable isolation of any functioning component without interrupting the system operation.

MS MedVac Medical Vacuum Plant is a tailor made product either in package or modular format with all pipe work fitted and factory tested. MS MedVac can be produced with many different brand vacuum pumps. MS MedVac may have simplex, duplex, triplex or quadruplex rotary vane vacuum pumps, duplex bacterial filter, air vessels (depending on the plant capacity) and user friendly Control Panel. MS MedVac Medical Vacuum Plant complies with HTM 2022- HTM 02-01 and EN ISO 7396-1.

Vacuum Pump
Vacuum is produced by an air-cooled, oil flooded rotary vane pump. As standard MS MedVac are manufactured with DVP or Agilent Vacuum Pumps (these brands may change without prior notice). If specified or requested MedSistem can also supply the plants with any other brands..Each pump has an integral non-return valve to protect the vacuum system and receiver vessel from pressurisation due to inadvertent pump reversal. A seperator filter ensures a virtually oil free exhaust. Gas ballast valves are used to avoid oil contamination and maintain a high water vapour tolerance. Each pump is directly driven by a 415 volt, three phase, 50 Hz electric motor. Other voltages and frequencies are available upon request.

Bacterial Filter Assemblies: A duplex system of bacterail filters fitted with isolating valves to permit duty and standby operation. Bacterial filters are fitted to the MS MedVac Plant to prevent the spread of infection. Each bacterial filter has a replaceable element and is fitted with a sterilisable moisture drainage bowl with isolating cock and differential pressure indicator. When the indicator reads 100 mbar the element needs changing. The system ensures bacteria removal to 0.005% when tested to BS 3928 at fully hospital design. The pressure drop through a clean filter passing the system design flow rate will not exceed 50 mm Hg.

Plant Central and Motor Control Panel
MS MedVac Plant has a state of art control panel with aesthetically pleasing appearance. It can easily be understood and operated. The central control panel has an electronic card that matches the demand with selection and rotation of the lead pump to maximise the pump life and minimise energy consumption and maintenance costs. The Central Control panel can operate up to three pumps so the duplex module package plant capacity can be upgraded in future. The displays are clear and easy to read. The control panels are simple to maintain and to find a fault. MS MedVac plant may be manufactured with PLC Motor Control Panel, and can operate with more than 3 pumps if requested.

Vacuum Vessels: The vessels capacities are as mentioned in our product data sheet. But if you have specific vessel capacity requirement, we may supply you the plant vessels due to that.

Safety and tests: MS MedVac Medical Vacuum plant are manufactured according to the international quality and safety standards and all safety tests are carried during production.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Minimum Maintanence MS MedVac requires minimum maintanence and is designed to enable isolation of any functioning component without interrupting the system operation.

MS 100 Bedhead Unit Normal Care

MS100 has three compartments; top compartment is for indirect light, middle compartment is for gas service and bottom compartment is for reading (direct) light and electric services such as switches, electrical sockets, nurse call, data, phone, tel etc. MS 100 bedhead unit integrates both light and other functional, technical equipment (power supply, communications-nurse call and medical gas) in a complete, compact unit. Mainly MS 100 are preffered for normal care units but it can be also used for Intermediate care areas and can be supplied with a seperate rail or integrated rail and rail accessories.

MS 100 has smooth curves to minimize dust traps. Thanks to the seperate compartments a full segregation between electrical and gas services is achieved. The profile has quickly removeable covers which helps to give an easy access to both electrical services and gas outlets. Also the plexiglass can be easily removed for easy replacement of fluorescent tubes.

Electrical Services: Available with European Schuko, UK, French, US or other types of electrical sockets. The units are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point on one side of the unit. This connection point may be either on the left side or the right side depending on your requirements. The units may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the unit. This should be agreed before production. The electrical services are installed on the cover. In case of maintenance, these covers can be easily opened without any tools and the cover can be easily removed from the unit by the help of electrical connection socket. Maintanence can be done easily without disturbing the patient.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: MS 100 can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS 100 units are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the units may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Choice of different standard colours (the colour should be confirmed beforehand) allow to realize a harmonious adaptation of the unit to the ambiance. The body and covers may be painted different or the same colour depending on your requirement.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

MS200 has three compartments; top and bottom compartment are for indirect and reading (direct) lights, middle compartment is for gas and electric services such as light switches, electrical sockets, nurse call, data, phone, tel etc. MS 200 bedhead unit integrates both light and other functional, technical equipment (power supply, communications-nurse call and medical gas) in a complete, compact unit. Mainly MS 200 are preffered for normal care units but it can be also used for Intermediate care areas and can be supplied with a seperate rail and rail accessories.

MS 200 has smooth curves to minimize dust traps. MS 200 has a segregation between electrical and gas services and installed seperately and covers are seperate for each services. MS 200 has posibility to have the electric sockets on the face cover that makes the unit easy to plug the sockets. The profile has quickly removeable covers which helps to give an easy access to both electrical services and gas outlets. Also the plexiglass can be easily removed for easy replacement of fluorescent tubes.

Electrical Services: Available with European Schuko, UK, French, US or other types of electrical sockets. MS200 has a wider cover for US receptacles installations.The units are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point on one side of the unit. This connection point may be either on the left side or the right side depending on your requirements. The units may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the unit. This should be agreed before production. The electrical services are installed on the cover. In case of maintenance, these covers can be easily opened with a basic tool and the cover can be easily removed from the unit by the help of electrical connection socket. Maintanence can be done easily without disturbing the patient.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: MS 200 can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS 200 units are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the units may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Choice of different standard colours (the colour should be confirmed beforehand) allow to realize a harmonious adaptation of the unit to the ambiance. The body is anodized aliminum and covers may be painted any RAL colour depending on your requirement.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

MS 300 / MS Col-Power Bedhead Unit Normal Care

MS300 are mainly produced for indirect and reading (direct) lights, and some standard electric services and light switches. Mainly MS 300 are preffered for normal care units as lighting unit but it can be also supplied with gas outlets with an external gas box. The plexiglass can be easily removed for easy replacement of fluorescent tubes.It can be also used for Intermediate care areas and can be supplied with a seperate rail and rail accessories.

MS Col-Power is a completely tailor made bedhead unit. It can be flush mounted to wall or a furniture or a wooden wall. MedSistem can supply the unit as per your specifications and requirements and all these units are mostly unique and tailor made. The profile used for MS Col-Power has quickly removeable covers which helps to give an easy access to both electrical services and gas outlets.

Electrical Services: Available with European Schuko, UK, French, US or other types of electrical sockets. The units are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point on one side of the unit. This connection point may be either on the left side or the right side depending on your requirements. The units may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the unit. This should be agreed before production. The electrical services are installed on the cover. In case of maintenance, these covers can be easily opened with a basic tool and the cover can be easily removed from the unit by the help of electrical connection socket. Maintanence can be done easily without disturbing the patient.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: MS Col-Power can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS300 / MS Col-Power units are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the units may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Choice of different standard colours (the colour should be confirmed beforehand) allow to realize a harmonious adaptation of the unit to the ambiance. The body is anodized aliminum and covers may be painted any RAL colour depending on your requirement.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

MSMedWall is a completely tailor made bedhead unit. MS MedWall is an architectural solution in an aesthetic manner which you may use in special areas such as VIP rooms where medical gases and electrical services needed but also a neat and clean attractive solution is preffered. All the services are hidden behind a moveable decorative picture or artwork. It can be flush mounted to wall or a furniture or a wooden wall. MedSistem can supply the unit as per your specifications and requirements and all these units are mostly unique and tailor made. The rails to carry the frame are quickly removeable type which helps to give an easy access to both electrical services and gas outlets.

MSMedWall has smooth curves to minimize dust traps. The unit maybe supplied with a rough-in box if needed. Because of having flush mounting structure the thickness of the monting surface is very important. The desired wall (or surface) tickness must be min.10 cm.

Electrical Services: Available with European Schuko, UK, French, US or other types of electrical sockets. The units are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point on one side of the unit. This connection point may be either on the left side or the right side depending on your requirements. The units may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the unit. This should be agreed before production. The electrical services are installed on the main body either to the left or right side according to the client's needs.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: MS MedWall can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS MedWall units are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the units may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Colour and Frame The color of metal part is RAL 1013. The frame and the picture will be supplied by MedSistem or customer may deliver his own frame to Medsistem for installation.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

MS WICU Bedhead Unit Intensive Care

MS WICU bedhead unit is specifically designed to allow the integration of the large amount of medical equipment used in special care areas. The multi-compartment trunking allows complete segregation of all services and especially cables carriying sensetive monitoring signals which may be subject to interference.

MS WICU can be manufactured as two trunks or three trunks depending on the electric and gas service needs. MS WICU can be manufactured with our without medical rails on top and/or bottom and MS WICU has optional lighting solutions (indirect/direct).

MS WICU bedhead unit integrates both light and other functional, technical equipment (power supply, communications-nurse call and medical gas) in a complete, compact unit.

MS WICU has smooth curves to minimize dust traps. The profile has quickly removeable covers which helps to give an easy access to both electrical services and gas outlets. Also the plexiglass can be easily removed for easy replacement of fluorescent tubes.

Electrical Services: Available with European Schuko, UK, French, US or other types of electrical sockets. The units are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point on one side of the unit. This connection point may be either on the left side or the right side depending on your requirements. The units may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the unit. This should be agreed before production. The electrical services are installed on the cover. In case of maintenance, these covers can be easily opened with a basic tool and the cover can be easily removed from the unit by the help of electrical connection socket. Maintanence can be done easily without disturbing the patient.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: MS WICU can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS WICU units are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the units may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Choice of different standard colours (the colour should be confirmed beforehand) allow to realize a harmonious adaptation of the unit to the ambiance. The body is anodized aliminum and covers may be painted any RAL colour depending on your requirement.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

MS H-Power is a very unique solution as a vertical column (ceiling/floor mounted) where there is no possibility for wall installation. The multi-compartment trunking allows complete segregation of all services and especially cables carriying sensetive monitoring signals which may be subject to interference. MS H-Power (Izmir Model) can be manufactured with two double columns and in between these columns will be the shelves. MS H-Power (Konya Model) can be manufactured with two single columns in between the two column will be a middle three compartment unit and shelves. Any tailor-made solution can be done according to hospitals' needs.
MS H-Power bedhead unit integrates all functional and technical equipment (power supply, communications - nurse call and medical gas) and external devices such as monitor, infusion pumps etc. as well in a complete, compact unit.
MS H-Power has smooth curves to minimize dust traps. As standart, the height of the MS H-POWER is 3,0 meters. It can be manufactured to a maximum height of 4,0 meters in one piece. The profile has quickly removeable covers which helps to give an easy access to both electrical services and gas outlets. Also the plexiglass can be easily removed for easy replacement of fluorescent tubes.

Electrical Services: Available with European Schuko, UK, French, US or other types of electrical sockets. The units are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point on one column of the unit or both. This connection point may be either on the left side or the right side depending on your requirements. The units may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the unit. This should be agreed before production. The electrical services are installed on the cover. In case of maintenance, these covers can be easily opened with a basic tool and the cover can be easily removed from the unit by the help of electrical connection socket. Maintanence can be done easily without disturbing the patient.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: MS H-Power can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS H-Power units are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the units may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Choice of different standard colours (the colour should be confirmed beforehand) allow to realize a harmonious adaptation of the unit to the ambiance. The body is anodized aliminum and covers may be painted any RAL colour depending on your requirement.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

MS Beam Intensive Care Unit

MS Beam bedhead unit is specifically designed for use in intensive care and neonatal areas to provide a full range of medical gases and electrical services with cable management advantage. MS Beam is a very unique ceiling mounted bridge type supply unit. It is ideal if there is no possibility for wall installation. It is capable of accommodating many different types of electrical sockets and devices needed in a modern ICU together with the medical gas and vacuum outlets. It has complete segregation of all services and especially cables carriying sensetive monitoring signals which may be subject to interference.

MS Beam allows to have enough room for medical personnel around the patient beds since neither the cables nor the hoses are coming from the services mounted on the wall, so that doctors and nurses will have easy access to the patient's head from the both side. MS Beam has wet side and dry side sliding and rotating trolleys. Dry side trolley will protect your medical devices from an accidental contact with liquids and may have two or more shelves with our without drawers for your equipment management. Wet side trolley has an upgrade possibility with easy mounting extra poles / rails / infusion pump holder / bottle holder etc.

The electrical and gas services can be both mounted to the front and back side of MS Beam. The back side services are for main usage where the front side ones are for emergency. Thanks to have the electric sockets and gas outlets on the face cover that makes the flowmeters and Vacuum regulators diret mounted if needed. The profile has quickly removeable plexiglass top covers which helps to give an easy access to both electrical services and gas outlets. Also the plexiglass can be easily removed for easy replacement of fluorescent tubes.

Ms Beam has minimum three sturdy suspended legs to carry the beam unit and also (the number of legs will be calculated according to the total lenght of the unit). Optional indirect light solution will help your patient not to be dazzled by direct light coming from the ceiling.

Electrical Services: Available with European Schuko, UK, French, US or other types of electrical sockets. The units are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point inside the unit. This connection point may be either on the left side or the right side depending on your requirements. The units may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the unit. This should be agreed before production. The electrical services are installed on the cover.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: MS BEAM can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS BEAM units are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the units may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Colour MS POR Pendants are painted as standard either RAL 9002 or RAL 9010.

Planning and Drawing: As standart, the lenght of the MS Beam is 3 meters per bed. For longer units, it can be manufactured in 3 meter length and can be added at hospital side by side. MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

MS PCU – Tandem ICU Pendant systems solve the problem of efficently managing essential electrical, communications and medical gas services to the patent in the ICU, emergeny room, recovery room or other intensive care areas. MS PCU-Tandem ICU Pendant system conveniently consolidates and positions services off the floor allowing the staff to move around the patient safely and efficently.

The robust arm conctruction provides a large load carriying capability and that, together with the various of arm and head permutations, allows many items of medical equipment to be fixed on the pendant such as ventilators, monitors, infusion pumps. So that very effective and unoccupied working area will be provided for the staff. (See page 19 for Pendant Arms)

The high quality arms incorporate maintenance free bearings with low frictional resistance. To move the arms the pneumatic brake on each joint is released and with guidance simply glides in to the new position. Electromagnetic brakes are also available instead of pneumatic brakes which needs no maintenance. Even with the highest loads the Services Heads stay in an accurately and straight condition.

Different Arm and Head combinations are available for highest action ranges. You can easly choose the most efficent Arm and Head models for you and can make your own model.

Electrical Services: Available with European Schuko, UK, French, US or other types of electrical sockets. The units are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point inside the Head. The Head may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the Head. This should be agreed before production. The electrical services are installed on the cover.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: MS PCU – Tandem ICU Pendant can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS PCU – Tandem ICU Pendant units are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the pendant may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Colour MS POR Pendants are painted as standard either RAL 9002 or RAL 9010.

Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

MS POR-Rigid / Retractable / Rotative / Multimovement Pendant

MS POR – Rigid Pendant systems are principally designed for use in operating theatres and anaesthetic rooms as an economic solution. It is connected to the fixed medical gas pipeline and electrical installations on the ceiling level. It can be manufactured tailor made according to the hospital needs.

MS POR- Retractable Pendant systems are principally designed for use in operating theatres and anaesthetic rooms as an economic solution. The Head of the Pendant moves down and up for easier electric and gas service management.

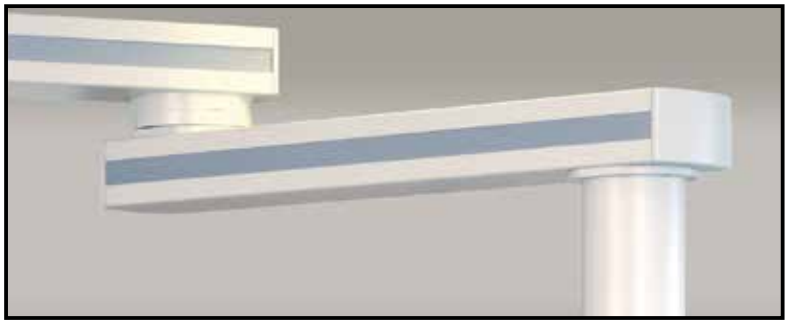
MS POR – Rotative Pendant systems are designed to meet the requirements of having the pendant either on right side or left side of the operating tabe. It has flexibility of positioning of pendant head by simply rotating the pendant arms. MS POR – Rotative Pendant can be configured as a single or dual arm system and the arms can be standart duty or heavy duty arms. Loads up to 1000 kg. are available depending on the arm models.

The robust arm conctruction provides a large load carriying capability and that, together with the various of arm and head permutations, allows many items of medical equipment to be fixed on the pendant such as ventilators, monitors, infusion pumps. So that very effective and unoccupied working area will be provided for the staff. The high quality arms incorporate maintenance free bearings with low frictional resistance. To move the arms the pneumatic brake on each joint is released and with guidance simply glides in to the new position. Electromagnetic brakes are also available instead of pneumatic brakes which needs no maintenance. Even with the highest loads the Services Heads stay in an accurately and straight condition.

MS POR – Multimovement Pendant systems offers optimal horizontal and vertical movability due to a multitude of movable axis and the height adjustment and offers freedom of movement at operating theatres.The height is adjustable by 24 degrees up and 24 degrees down. With the dual arm system motor arm and extention arm are rotatable around two horizantal axes. This increases the positioning posibilities. After positioning the pendant the head will be raised to the ceiling above the user by help of the motor arm. MS POR – Multimovement Pendant can be configured as a single or dual arm system and the arms can be standart duty or heavy duty arms. Loads up to 90 kg for standart duty and up to 200 kg. for heavy duty are available depending on the arm models.

The robust arm conctruction provides a large load carriying capability and that, together with the various of arm and head permutations, allows many items of medical equipment to be fixed on the pendant such as ventilators, monitors, infusion pumps. So that very effective and un occupied working area will be provided for the staff. The high quality arms incorporate maintenance free bearings with low frictional resistance. To move the arms the pneumatic brake on each joint is released and with guidance simply glides in to the new position as horizontally and vertically. Even with the highest loads the Services Heads stay in an accurately and straight condition.

Pendant Heads: Different Head combinations are available for highest services request. You can easly choose the most efficent Head models for you and can make your own model. Please contact to MedSistem sales department for alternative head models.



Electrical Services: All Pendant types can be supplied with European Schuko, UK, US or other types of electrical sockets. The pendants are prewired and all electrical components are tested according to EN ISO 11197, EN 60601-1. There is an electrical connection point inside the Head. The Head may be delivered to site with extra low voltage services or only with provision for these. The number of low and extra low voltage services depends upon the length of the Head.

Extra Low Voltage Services: Avaliable with phone, data and nurse call sockets.

Medical Gas Services: All Pendant types can be supplied with different standard gas outlets (BS, DIN, AFNOR, US) manufactured according to EN ISO 9170-1 or 9170-2. MS POR Pendants are prepiped and gas leak tested when delivered with gas outlets and CE marked. If requested, the pendant may be delivered without gas outlets but provision for them, in that case CE mark should be done by others. For the BS and DIN standard gas outlets a special gas grommet is used.

Colour MS POR Pendants are painted as standard either RAL 9002 or RAL 9010.

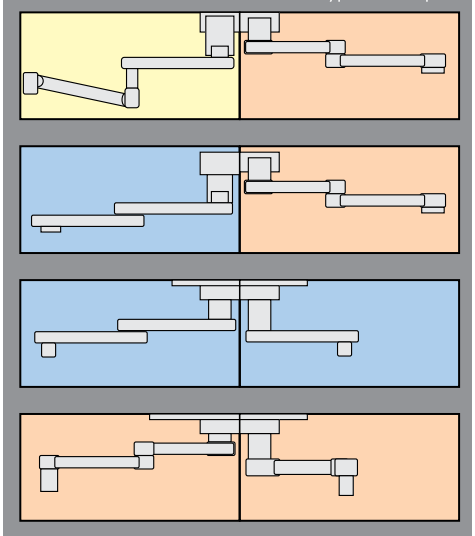
Planning and Drawing: MedSistem provides free support in the planning of specific site requirements with his skilled and well trained staff and draws a detailed and proper plan according to the requirements and specifications of the user in Autocad drawing. These drawings serves you for technical clearence with your customer.

Safety and tests: MedSistem Bedhead Units are manufactured according to the international quality and safety standards. All Bedhead Units already comply with the new European Safety standart EN ISO 11197.

Pendant Arms: There are different length and pay load Pendant arms. You can choose from the table given below.

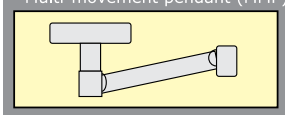
TANDEM SUPPORT SYSTEMS

Typical examples



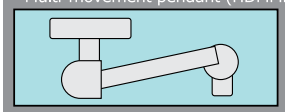
SOLO PENDANT SYSTEMS, SINGLE ARM

Multi-movement pendant (MMP)



Arm Length*	Load*
1000 mm	90 kg

Heavy Duty
Multi-movement pendant (HDMMP)

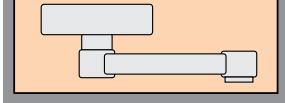


750 mm	200 kg
1000 mm	150 kg

Standart Duty (SSD)

600 mm	580 kg
800 mm	420 kg
1000 mm	320 kg
1200 mm	260 kg

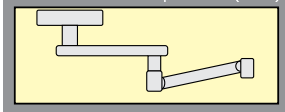
Heavy Duty (SHD)



600 mm	1000 kg
800 mm	730 kg
1000 mm	570 kg
1200 mm	450 kg

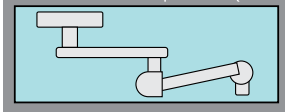
SOLO PENDANT SYSTEMS, DUAL ARM

Articulated
multi-movement pendant (AMP)



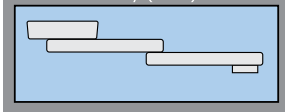
Extension/Motor arm*	Load*
800/1000 mm	90 kg
1000/1000 mm	90 kg
1200/1000 mm	90 kg

Heavy Duty, articulated
multi-movement pendant (HDAMP)



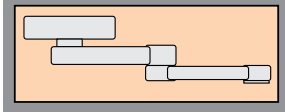
800/750 mm	200 kg
800/1000 mm	150 kg
1000/750 mm	200 kg
1000/1000 mm	150 kg

Standart Duty (DSD)



600/600 mm	260 kg
600/800 mm	220 kg
800/800 mm	180 kg
800/1000 mm	150 kg
1000/1000 mm	130 kg

Heavy Duty (DHD)



600/600 mm	440 kg
600/800 mm	360 kg
800/800 mm	300 kg
800/1000 mm	250 kg
1000/1000 mm	220 kg
1000/1200 mm	170 kg

* Arm length and load capacity may change prior to notice.

Medical Rail and Accessories

Medical Rail and Accosories: All kind of accessories supplied by MedSistem are designed for either normal care or intensive care areas in order to create ergonomic, safety and free working areas to the medical personnel. Accessories can be supplied as rail mounted or some of them as wall mounted type.

Some of our acessories:

- Wall mounted 10x30mm medical rail made of aluminum profile
- Wall mounted 10x25mm medical rail made of stainless steel
- Different type of rail clamps.
- Rail mounted waste bag holder
- Rail mounted waste basket
- Rail mounted stell glove holder
- Rail mounted Vacuum jar hanger
- Rail monted stainless stel Infusion stand
- Rail mounted monitor shelves
- Rail mounted monitor arms
- Aluminium monitor shelve
- Stainless steel monitor shelve
- Drawer which can be mounted under the shelve
- Rail mounted catheter holder
- Baskets
- Rail mounted exam lamps
- For other accessories please contact to MedSistem sales department.

SOT / Probes / Nurse Call Systems:

Suction and Oxygen Therapy Equipment:
MedSistem may supply a variety of Suction and Oxygen Therapy Equipments. These are;

- Oxygen flowmeters 0-15 lpm
- Oxygen flowmeters 0-5 lpm
- Vacuum Ragulators 0-1000 mmbar
- Vacuum regulators 0-250 mmbar
- Vacum safety jar suitable for our Vacuum regulators
- Vacuum jars – 500 ml – 1000 ml – 2000 ml – 4000 ml
- Vacuum trolleys

Probes:
MedSistem may supply a variety of probes (jacks)

- BS standard probe, thread ISO G ¼”F
- BS standard probe, hose connector
- DIN standard probe, thread ISO G ¼”F
- DIN standard probe, hose connector
- Afnor standard probe, thread ISO G ¼”F
- Afnor standard probe, hose connector
- Hoses,
- Hoses with NIST

Nurse Call:
MedSistem may supply Nurse call systems. Nurse call systems may be with or without communications.

Depending on your request please contact to our Sales team to get more nformation about Nurse Call Systems.

Some of our references,

Anadyr Hospital – Russia,
SKB Hospital – Russia,
Aliyev Hospital Baku – Azarbaijan,
Maternatiy Hospital – Turkmenistan,
650 beds Hospital – Tacikistan,
Damascus University Hospital – Syria
Aleppo University Hospital – Syria
Sulemania Hospital – Iraq,
Duhok Hospital – Iraq,
Ibn-i Sina Hospital – Iraq,
Burghele Hospital –Romania,
Hospital de Torrecardenas – Spain,
MLTC Hospital – Portugal,
Hospital Fusat – Chile,
King Fehad Hospital – KSA,
Near East University Hospital – Cyprus,
Hacettepe University Hospital – Turkey,
Gata Military Hospital – Turkey,
Mustafa Kemal University Hospital – Turkey,
KOÇ University Hospital – Turkey,
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Med Sistem

MEDSİSTEM TIBBİ VE TEKNİK EKİPMANLAR
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DESIGN, DEVELOPMENT, PRODUCTION, SALES, INSTALLATION AND SERVICING OF MEDICAL GAS DISTRIBUTION SYSTEMS AND EQUIPMENTS, MEDICAL AIR/VACUUM PLANTS, MEDICAL GAS CONTROL PANELS AND MANIFOLDS, BEDHEAD UNITS, INTENSIVE CARE BED HEAD UNITS AND PENDANTS

with a scope of

ISO 13485:2003

Medical devices - Quality management systems - Requirements for regulatory purposes

Certificate No	: M 9227
Initial Certification Date	: 12 October 2012
Certification Date	: 12 October 2012
Expiration Date	: 11 October 2015

General Manager

TÜRKAK

Certificate

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with a scope of

ISO 9001:2008

Has established a quality management system in accordance with international standard.

Certificate No	: M 9226
Initial Certification Date	: 12 October 2012
Certification Date	: 12 October 2012
Expiration Date	: 11 October 2015

General Manager

TÜRKAK

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Full Quality Assurance System according to Medical Devices Directive 93/42/EEC Annex-II Section 3

Certificate Number: 1984-MDD-13-210

We hereby declare that an examination of the under mentioned full quality assurance system has been carried out following the requirements of the national legislation to which the undersigned is subjected, transposing annex II (with the exemption of section 4) of the Directive 93/42/EEC on medical devices. We certify that the full quality assurance system conforms with the relevant provisions of the aforementioned directive.

Organization:

MEDSİSTEM TIBBİ VE TEKNİK EKİPMANLAR
GAZ TESİSATLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ

Tavukçuyolu Barboros Caddesi Hattat Sokak No:21
Medsistem İş Merkezi 34775 Y.Dudullu Ümraniye, Istanbul, Turkey

Products: Bedhead Units, Intensive Care Bedhead Units, Pendants, Medical Plants Medical Gas Distribution Systems and Equipments

The products defined at the enclosure which is the part of this certificate and contains one page. The certificate is valid till expiration date, subject to successful completion of periodical surveillance audits. Please contact Kiwa Meyer for details. This certificate is valid until 11 October 2015.

Report Number: M.3889.01
Date of first issue: 14 February 2013
Revision Number: 01
Date of last issue: 19 July 2013

19 July 2013, Istanbul, Turkey — Head of Notified Body

* Certificates without seal are invalid

Certificate

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Enclosure of the Certificate: **Page 1/1**
Full Quality Assurance System according to
Medical Devices Directive 93/42/EEC Annex-II Section 3
Certificate Number: 1984-MDD-13-210, Revision Number: 01
MEDSİSTEM TIBBİ VE TEKNİK EKİPMANLAR GAZ TESİSATLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ

Concerned medical devices;

Product: Bedhead Units — **Class:** IIb
Model Numbers: MS 100 , MS100N, MS200, MS MedWall, MS 300

Product: Intensive Care Bedhead Units — **Class:** IIb
Model Numbers: MS WICU, MS H-POWER, MS COL-POWER, MS BEAM

Product: Pendants — **Class:** IIb
Model Numbers: MS POR-Rigid, MS POR-Rotative, MS POR-Multimovement, MS POR-Tandem, MS PCU-Rotative, MS PCU-Multimovement, MS PCU-Tandem

Product: Medical Plants — **Class:** IIb
Model Numbers: MS MedAir , MS MedVac, MS MedManifold, MS MedTCP, MS MedAGS

Product: Medical Gas Distribution Systems and Equipments — **Class:** IIb
Model Numbers: MS ZSU, MS MGDS

Kiwa Meyer Certification Services Inc. is Notified Body under Council Directive 93/42/EEC concerning medical devices with identification number : 1984

19 July 2013, Istanbul, Turkey — Head of Notified Body

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MedSistem Medical and Technical Equipment Gas Systems Industry and Trade Ltd. Co

Tavukçuyolu Hattat Sokak No:21 - Ümraniye İSTANBUL TÜRKİYE
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