

Mobile Field Hospital System Offer



MULTIUSE MEDICAL ISO 1 CC CONTAINER SYSTEM MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY (special exchangeable superstructure)



ISO 1496 forklift rails
ISO 1161 corner fittings
CSC plated
NCAGE



(NATO Commercial and Governmental Entity Code)
EN ISO 9001 : 2001 / EN ISO 9001 : 2000
(Management based on ISO 9001:2001 applied in the production)

MULTIUSE MEDICAL CONTAINER ISO 1 CC 20

MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY



Example of the ISO 1 CC 20' container and off road truck



General description

The ISO 1 CC 20 rugged steel maritime type containers are housing the **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY**

The three containers are full adapted for medical purposes and equipped with electrical wiring, redundant two sources water distribution, waste water drain with pumping, lighting, heating and air conditioning. The SATU contains the **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY** workplace and devices with doctor's entry door on the side, patient's entry door on the rear, wait room, washroom. The two redundant electric power generators are of 230 V 50 Hz 9 KW type. The containers operates loaded on his own containers 8 x 8.2 truck or on trailer, but can work deloaded, connected to water and power networks too by semi-stationary purposes

The **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY** is 24 hours fully independent of outside support, but can work connected to public water and power networks too

The **surgical and tending workplaces unit** provides with his advanced surgical and tending equipment all important medical tasks in examinations, patients triage and small to middle surgical operations. The construction of the **MULTIUSE MEDICAL CONTAINERS ISO 1 CC 20 in the MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY** is adapted for work in heavy environmental conditions, is classified as interchangeable superstructure

Assembly of 3 ISO 1 CC 20' containers and one tent

Three different workplaces are provided in this assembly in containers, the fourth is a inflatable tent

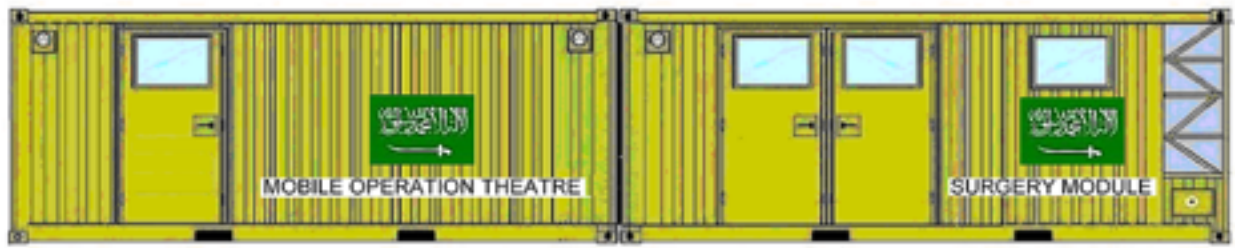
- Surgical operation theatre
- Preparatory room
- Laboratory and doctor's room
- Inflatable tent for ICU and patients ward

Drawings, pictures and other documents

SPECIAL EXCHANGEABLE SUPERSTRUCTURES

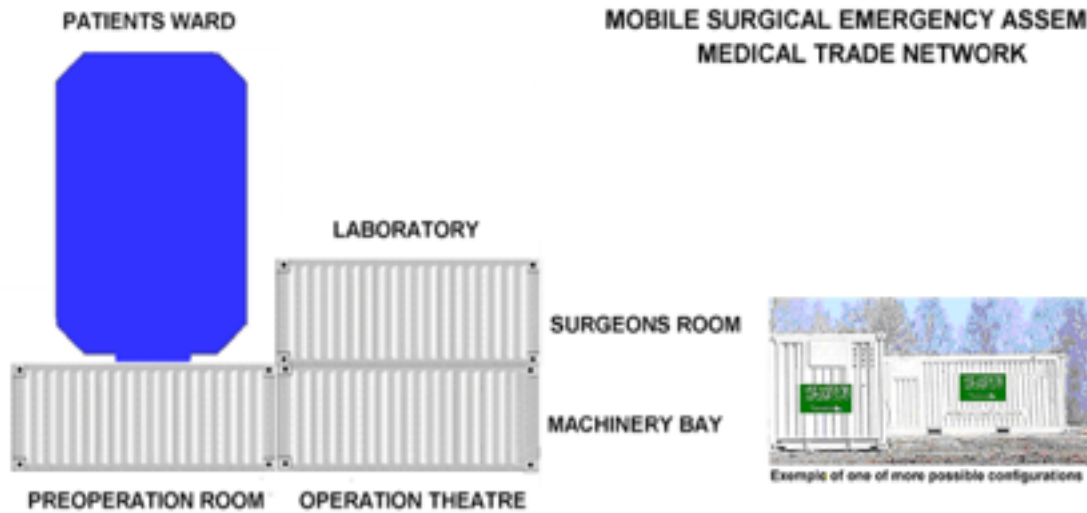


T 815 OFF ROAD TRUCK 8 x 8 WITH SURGICAL CONTAINER ISO 1 CC (20 FEET)

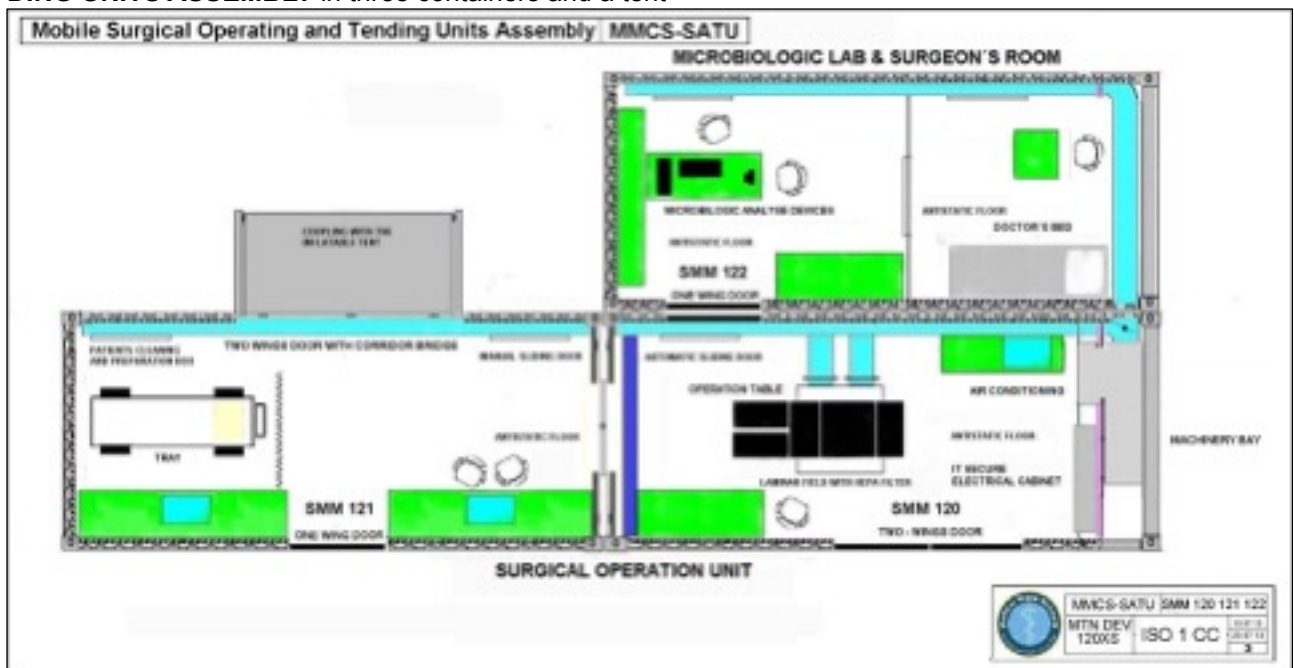


MOBILE OPERATION THEATRE ASSEMBLY 40 FEET IN TWO ISO 1 CC 20 FEET CONTAINERS

Example of the schematic drawing of the special exchangeable superstructures and the operation theatre container 2 x ISO 1 CC



Example of the schematic drawing - View from above of the **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY** in three containers and a tent



Example of the schematic drawing of the Preparatory diagnostic container and the surgical operation theatre containers 2 x ISO 1 CC



Example of the inflatable tent picture

ISO 1 CC 20' container construction and materials

Containers structure and ISO corners are made of steel. For manipulation by forklift, lifting points are implemented. Walls are made of trapezoidal steel sheet (thickness up to 1.5 - 2 mm). Insulation for ceiling and walls is made of 40 mm sandwich panel assembled on the inside of the container. These panels are made of aluminum skins (thickness 0,8 mm) and polyurethane foam core (ELASTOPOR SH 226 / 003 density 65 g / dm³) can be optionally insulated against ionizing radiation too. Reinforcement inserts can be integrated inside the panels where requested. Insulation of the floor is 50 mm sandwich panel. These panels are made of one aluminum skin (thickness 0,80 mm), polyurethane foam core (density 65 g / dm³) and plywood (thickness 18 mm). The container is painted on the outside with polyurethane painting U 2056. The inside painting is white (standard color of the painting of the sandwich panel aluminum sheet). The floor is covered by vinyl floor mat - NON SLIPPERY ALTRO finish. Color schema for walls and ceiling - polyester varnish HF 1F50 of ARCTIC WHITE color (code 966RB). External or internal color is PU varnish, standard white. Color schema can be customized on customer request

Quality control and applied certifications

The manufacturer's production methods and quality control are certified and the products complies the certifications for maritime ISO containers, road, ship, train transport, including the compatibility with container manipulation devices and allows the certifications EN ISO 9000 : 2001, EN ISO 9000 : 2000, ISO 1496 forklift rails, ISO 1161 corner fittings, CSC, IAF, NCAGE

The doors and openings (windows)

The **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY** containers are entered alternatively from the side through a single-wing door of customizable size (standard size is 900 x 1900 mm, other dimensions on request) and from rear with the same type of door. The firm sandwich construction door is with an aluminum frame. The door is fitted with a wheelbase lock and handle with a patent lock. Another lock is placed under the handle, which secures the wheelbase of the main lock when locked. The door is sealed all around. The open-able and tilted-able window are provided with a jalousie, outside mosquito net and outside window blind, one fixed window is installed in the entrance door of the medical containers. Rubber seal used for door sealing is rigid, elastic and resistant against erosion and sea water

Anti-vibration fastening of the components. ANCRA

The medical devices included movable components of the equipment are mounted and fastened with use of silent-blocs, the small vibration producing devices are sound and vibrations isolated. During of the transport a multipurpose side strips ANCRA are mounted on side and / or front walls of container. Side strips are used for fastening of fastening straps. Fastening straps are stored in holder that is mounted for this purpose on the wall of the containers.

Power supplies and IT secured electrical cabinet installations

Outside of the **MMCS-SATU** interior are placed two small vibration producing devices of nominally power 2 x 9 KW diesel-electric super silent generators in own sound shielded boxes, further the air conditioning, heating and filtering unit, an electric interface connection box is added to one of the medical containers. The power generators are wired with the **IT (Isolated Terra) secured electrical cabinet** for medical class 2 rooms with temperature and isolation monitored transformer. Connection box for public electric power supply system assure longtime functionality by semi-stationary use. The three sources are switched automatically through a redundancy function of the IT secured electrical cabinet. This electric installation is an intelligent system for a safe and reliable IT (Isolated Terra) power supply and is compliant to the standard for medical power supplies of class II rooms (VDE0100 - part 710). The generators place is secured through two wings anti-vandalism rugged doors

Interior medical equipment

Is intended to provide small to middle surgical operations under gaseous anaesthesia, C-Arm x-Ray imaging directly on operation table, basic laboratory biological examinations, diagnostic and treatment of patients

Operating theatre protection

The operating theatre compartment of the ISO 1 CC containers provides appropriate protection from ionizing radiation to outside through special lead isolation layers in the sandwich panels and doors

Medical / Surgical equipments of the operating theatre

See equipments inventory

Consumables: Disposable syringes, Infusion Set, i.v. Cannula with Injection Valve & Wings (different color) and many consumable like compresses of gauze are in sufficient quantities for 24 hours are stored in drawers and cabinets near the operating table, stock quantities in transport boxes are ready to complete the materials for the next working day

Biochemical and hematology laboratory

This facility has a desk system with labor devices, a refrigerator of commercial type built in for transport purposes and a case and racks for storage of laboratory materials and sterilized surgical instruments. Equipped with standard analytic devices the laboratory assures all needed working procedures. The workstation contains the sterilization equipments too. Placed in the ISO 1 CC container the doctor's and assistant's preparing and washing room contains one wash basin, build in a furniture cabinet, one soap dispenser and one disinfection liquid dispenser. Adjacent to the washroom a small doctor's personal room and toilet in a small rest-room assures the personal need of the crew

TATRA Phoenix 8 x 8 - Euro 6 - T 158 - 8 P 6 R 44.261 8 × 8.2, high mobility universal container carrier with container platform and trailer



The TATRA PHOENIX Euro 6 combines the unique TATRA chassis with a spacious and comfortable cab, modern PACCAR MX Euro 6 engines and ZF transmissions. With this combination TATRA will take you further - to the locations inaccessible to other trucks. Moreover, thanks to very efficient operation and productivity with the TATRA PHOENIX model you will even achieve higher profits

The outstanding productivity of this truck results from high payload and high off-road transport speed. With TATRA trucks you can therefore carry more freight faster

Powerful PACCAR MX Euro 6 engines offer reasonable operating costs, even in difficult terrain. On paved roads or highways you can disconnect the front wheel drive to achieve better operating results. Compared to competing vehicles with rigid axles, TATRA PHOENIX achieves higher speeds and favourable fuel consumption. TATRA PHOENIX is also more comfortable thanks to a unique combination of the Tatra chassis concept with the air suspension on all axles

TATRA PHOENIX vehicles use ZF transmissions, both manual and automated, or fully automatic Allison transmissions. The automated 16-speed AS Tronic version offers the driver perfect driving comfort, both in "standard auto" shift mode, or "offroad auto" mode, or in the manual mode. In addition, AS Tronic transmissions reduce fuel consumption through shifting at the optimum speed, and protect the drive train from driver error, such as overspeeding or burning the clutch. The automated AS Tronic transmission is also equipped with a handy "Hill Holder" system. The vehicle is equipped with the powerful MX Engine Brake as standard

ENGINE

Type	PACCAR MX 340 Euro 6	
No. of cylinders	6	
Swept volume	12,900 cm ³	
Net power	340 KW / 1,450 rpm	
Net torque	2,300 Nm / 1,000-1,400 rpm	
SCR, EGR, DPF exhaust gas treatment system	The decompression MX Engine Brake as standard	
Optional:		
- MX-11 engine, cylinder capacity 10,800 cm ³ , power 271, 291 KW / 1,700 rpm		
- MX-13 engine, cylinder capacity 12,900 cm ³ , power 300, 375 KW / 1,450 rpm		

TRANSMISSION

Manual, ZF type 16 S 2530 Ecosplit		
Number of speeds	- forward	16
	- reverse	2
Hydraulically operated clutch, diam. 1 x 430 mm		
Optional: intarder, automated AS tronic transmission		

TRANSFER CASE

Two-speed TATRA 2.30 TR shiftable at standstill (ratios of 0.94 / 1.44)
 Optional: one-speed TATRA 1.30 TR, ratios of 1.12 / 1.28 / 1.46

FRONT AXLE

Steered, driven with swinging half-axles, disengageable front drive, axle differential lock
 Air bellows and telescopic shock absorbers
 Optional: torsion stabilizer
 Optional: 8 x 6 drive (driven 1st or 2nd axle)

REAR AXLES

Driven, with swinging half-axles, axle differential locks, inter-axle differential lock. Heavy combined TATRA suspension - air bellows with leaf springs

STEERING

Left-hand sided, monoblock steering

BRAKES

Four independent brake systems: service, emergency, parking, relief

TYRES, DISCS

	front	rear
Tyres	385 / 65 R 22.5	315 / 80 R 22.5
Discs	22.5 x 11.5	9.00 x 22.5

CAB

Over-engine, hydraulically folding, with engine-dependent water heating. Number of seats: 2
Optional: with A/C or independent heater, sleeper cab

DIMENSIONS

Wheelbases		2,150 mm + 2,560 mm + 1,320 mm
Width		2,550 mm
Wheelbase	- front	2,074 mm
	- rear	1,780 mm
Length		8,550 mm
Height		3,600 mm
Tipper body volume		18 m ³

FUEL TANK

Steel, 300 to 340 liters + 45-liter ADBLue.

WEIGHTS

Unladen (curb) weight (without superstructure)	13,580 Kg
Payload	30,420 Kg
Total weight	44,000 Kg
Max. load to the front axle	2 x 9,000 Kg
Maximum rear axle load	2 x 13,000 Kg

ELECTRIC EQUIPMENT

Rated voltage	24 V
Batteries	2 x 12 V, 180 Ah
Optional: 2x12V, 225 Ah	
Alternator	24 V / 80 A
Preparation for the FMS connector	

FEATURES

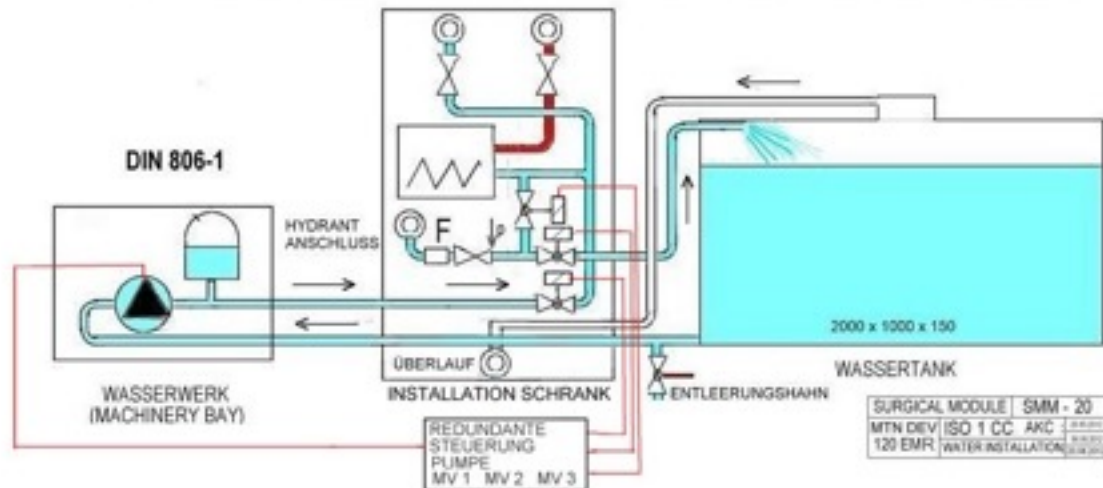
Climbing ability at the total vehicle weight of 44 tons	100 %
Max. speed (with speed limiter)	88 Km / h
Turning radius (contour)	23.0 ± 1.0 m

Power supplies and IT secured electrical cabinet installations for class 2 medical rooms - Example

Outside of the **MMCS-SATU** interior is placed in an machine bay two small vibration producing devices of nominally power 2 x 9 KW diesel-electric super silent generators in own sound shielded boxes, further the air conditioning, heating and filtering unit, an electric interface connection box is added to one of the medical containers. The power generators are wired with the **IT (Isolated Terra) secured electrical cabinet** for medical class 2 rooms with temperature and isolation monitored transformer. Connection box for public electric power supply system assure longtime functionality by semi-stationary use. The three sources are switched automatically trough a redundancy function of the IT secured electrical cabinet. This electric installation is an intelligent system of a safe and reliable IT (Isolated Terra) power supply and is compliant to the standard for medical power supplies for medical class II rooms (VDE0100 - part 710). The generators place is secured trough two wings anti-vandalism rugged doors

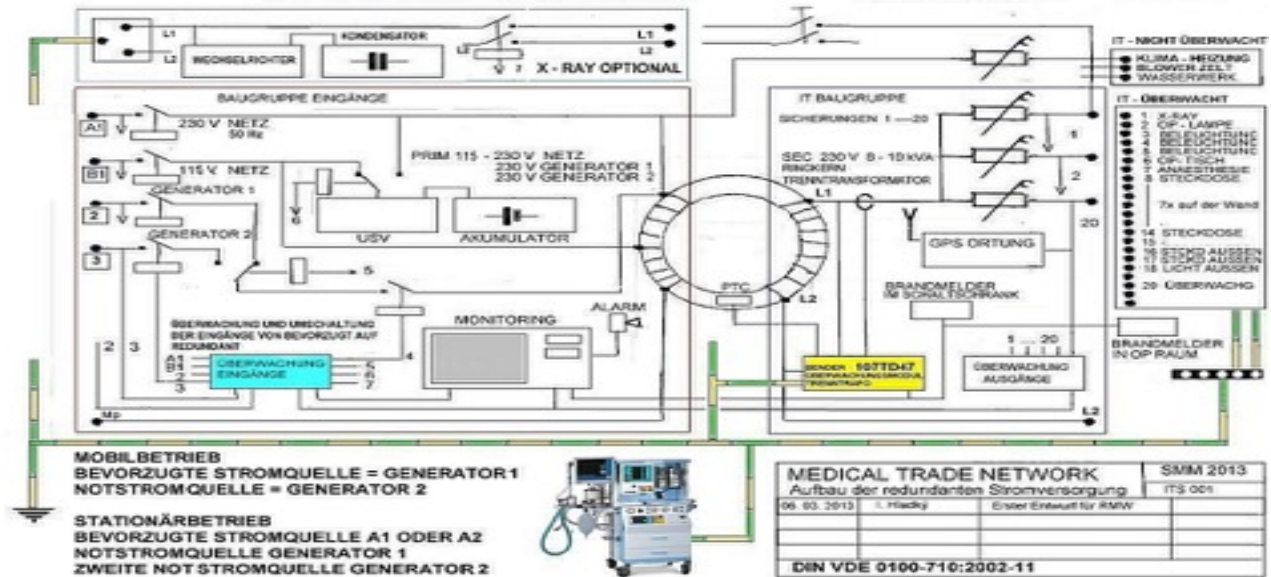
IT secured electrical cabinet IMED with transformer

REDUNDANT WATER INSTALLATION SYSTEM FOR MOBILE MEDICAL CONTAINER



MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY is equipped with **IMED Secure© power supply for group 2 medical rooms** as operating areas or surgeries is an intelligent redundant system with isolation transformer and monitoring for a safe and reliable IT (Isolated Terra) power supply and is compliant to the standard for medical power supplies of class II rooms (**VDE0100 - part 710**)

ISOLATED TERRA SAFETY CABINET FOR GROUP 2 ROOMS IN ISO 668 MEDICAL CONTAINERS



Water installation system

Under the generators place are three compartments with electric blower for inflating the tent, automatic water pump with air balloon and two accumulators of the generators. The water reservoir is placed between the walls of the container and inner panel system contents 200 liter, an automatic system switching the reservoir and public water hydrant assure the redundancy of the water source, further is in the system connected one electric water heater, filter, pressure regulator and various magnetic valves and fittings

Medical gases installation system

The medical gases box is placed between the wall of the container and inner panel and contents three pressure flasks with armatures

Detailed technical description of the ISO 1 CC container

General framework is welded, composed of

- steel sections
- 8 ISO corners (4 lower, 4 upper)
- steel trapezoidal plates = jacket of container

Note: All material used for container framework is certified by German Lloyd certification agency

Container is thermally insulated

The internal walls and the roof are isolated by panels composed of:

- coated 0,8 mm thick aluminum plates skin
- BASF polyurethane foam core
- panels are reinforced by steel inserts where necessary

Floor is also made of BASF polyurethane foam panels and plywood covered by a no slippery layer made of polyurethane coating

Container is equipped with stainless steel wall panel system

The wall system used in the construction containerized operating theatre is designed as a system of non-bearing partition walls and wall panels for interior use. With its structure, it meets all requirements imposed

on quality, variability, physical properties and hygiene of operating theatres. Behind the panels are placed various equipments for electricity, medical gases and water distribution systems and the air ducting tubes of the air conditioning. The parameters of the wall system are designed and certified according to the following standards and procedures: Fire resistance (EN 13501-2). For a partition wall with a thickness of 200 mm, the fire resistance is 60 minutes Eccentric, horizontal load (ETAG 003:1998, ISO 7892-1988). The wall system (200 mm partition wall) is certified for an eccentric and horizontal load

Furniture for operating theatre and tending containers

We will individually propose the best configuration of metal furniture BLANCO

Container is equipped with two single wing entrance doors and two windows

One window, that can be tilted, provided with jalousie, outside mosquito net and outside window blind, one fixed window, installed in entrance door, equipped with cloth rubber sealing used for door sealing is rigid, elastic and resistant against erosion and sea water

Internal and external surface tending

Is made of polyurethane type paint; the standard colour for internal surface is white, for external or internal surface is customizable, offered is khaki

Interior layout

Interior layout of the ISO 1 CC 20' container type 5459 can be personalised in compliance with the special technical requirement of customer



Example of the operation theatre with automatic connecting door

Dimensions and weight

Container dimensions and weight comply with ISO 668 + Adm.1 norm
Further parameters comply with ISO 1496-1 + A1 and further ISO standards

External dimensions

Length **6.192 mm**
Width **2.438 mm**
Height **2.591 mm**

Internal dimensions

Length **5.898 mm**
Width **2.350 mm**
Height **2.390 mm**

Door dimensions

Height **1.920 mm**
Width **860 mm**

Maximum gross mass 12 000 Kg ± 5 %
Bare container weight 4 150 Kg ± 5 %

Safe mechanical environment

Container is labeled with CSC label according to regulation ISO 6346. Container withstands forces generated during road, railroad and waterway transport

Container stacking

The manufacturer allows to stock up to 4 (1 + 3) fully loaded containers on each other. The container must be safely secured under ISO 3874. The container is classified as special exchangeable superstructure

Container handling

Container is handled in compliance with regulation ISO 3874. Container can be handled:
By hoisting the upper or lower ISO corners with a lifting device (for example: container side mover on TATRA chassis 8 x 8.2 as well as on VOLVO 8 x 4 with handling system KLAUS)

Using container handling system

Attached to the upper and lower ISO corners (for example: container carrier TATRA 8 x 8.2 equipped with transport platform FLATRACK 20 "M") **Handling on side forklifts included**

Operational climatic conditions

Container is fully operational in macroclimatic area N14 (SN 038206) norm

- a temperature ranging from - 32 °C to + 49 °C
- a relative air humidity of up to 90 % at a temperature of + 30 °C
- an air flow speed of up to 20 m / s - 1 in all wind directions
- a rainfall of 3 mm at an angle of incidence of 30 °C in all directions



Example of rear view into the ISO 1 CC 20' container

Detailed information of standards conformity

MTN™ MULTIUSE MEDICAL CONTAINER ISO 1 CC 20 MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY

Project code: MMCS-SATU	Customizable on customer's request
ISO 1 CC 20' container	
Issued May 16, 2017	
Container exterior dimensions length 6.192 mm = 20 FEET width 2.438 mm height 2.591 mm	The MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY is composed of three ISO 1 CC 20' containers, inflatable tent and two 8 x 8.2 carrying truck



ISO 1496 forklift rails
ISO 1161 corner fittings
CSC plated
NCAGE
(NAATO Commercial and Governmental Entity Code)



EN ISO 9001 : 2001 / EN ISO 9001 : 2000
(Management based on ISO 9001:2001 applied in the production)

Pictured documentation



MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY CONTAINERS EXAMPLE ISO 1 CC 20

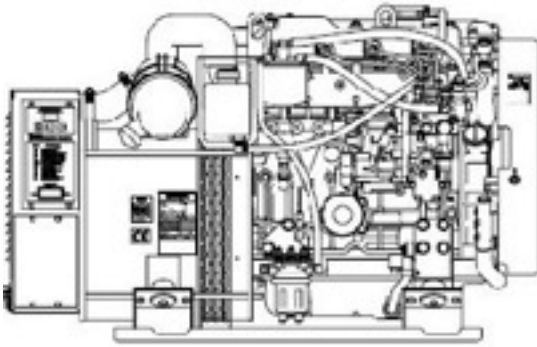
Diesel electric generator from Kohler Power System

The external autonomous power supply system as a multivoltage and frequency 50 / 60 Hz adjustable silent diesel-electric aggregates switched from factory on 230 Volt 50 Hz (alternatively customizable on other tensions)

Outside of the **MMCS-SATU** interior are placed the small vibration producing devices, nominally the two power 9 KWh diesel-electric super silent generators in own sound shielded box, further the air conditioning and filtering unit, an electric interface connection box is added to each medical container parallel to the power generators. Connection box for electric power public supply system assure longtime functionality by semi-stationary use



Generator Set



Engine Features

- Diesel fueled
- Four cylinder
- Four cycle
- Closed cooling system
- Heat exchanger
- Lifting eyes
- Electric fuel lift pump

Generator Features

- Remote start 12-pin connector
- Class H insulation
- Multivoltage adjustability
- 60/50 Hz capability
- Voltage regulation of $\pm 1.5\%$
- Radio suppression

Generator Weights and Dimensions

	Without Sound Shield	With Sound Shield
Weight, kg (lbs.)		
wet	347 (765)	382 (845)
dry	340 (750)	375 (830)
Length, mm (in.)		
12 volt	1042 (41.02)	1137 (44.75)
24 volt	1058 (41.65)	1137 (44.75)
Width, mm (in.)	563 (22.17)	636 (25.00)
Height, mm (in.)	658 (25.90)	690 (27.18)

Generator Ratings

Model Series	Voltage	Hz	25°C (77°F)		Ph
			Amps	kW/kVA	
20EO2D	120/240	60	166.6/83.3	20/20	1
	115/230	50	148/74	17/17	1
17EFO2D	230	50	74	17/17	1
	240	50	70.8	17/17	1

ADC 2100 Advanced Digital Control Features

- Designed for today's most sophisticated electronics
- Easy to read alpha-numeric display
- Compact, integrally mounted control
- Potted boards/sealed connectors for maximum corrosion protection
- SAF J-1939 CANbus output
- Remote monitoring of up to 13 fault conditions
- Membrane keypad for configuration and adjustment
- Programmed crank cycle

Optional Accessories

- Sound shield
- Remote digital gauge
- Siphon break
- Circuit breakers

CE ISO 9001

Air conditioning and heating

Operational climatic and heating condition device

Container is fully operational in macroclimatic area N14 (SN 038206) standard

- a temperature ranging from - 32 °C to + 49 °C
- a relative air humidity of up to 90 % at a temperature of + 30 °C
- an air flow speed of up to 20 m / s - 1 in all wind directions
- a rainfall of 3 mm at an angle of incidence of 30 °C in all directions

Compact container air conditioning and heating units prove successful under the toughest operating conditions in climatically critical zones and serve to air condition of special containers. They are ready-to-connect compact push-in units, i.e. all components necessary for partial air conditioning are housed within it. An integrated weatherproof grill guarantees optimum protection of the unit. The variations in heating and cooling range lie between 2,5 KW and 7,2 KW nominally 7 KW

For temperature control, various designs are available. In the basic version a defect degree class N and an EMC protection according to EN 55022 class B VDE 0871, limit value class A is guaranteed. If required, the units are equipped with humidifier and air dryer and / or HF isolator. The tubes of the air ducting systems are placed on the left length side of the container between the wall and inside panel system, and connected with the laminar flow field and two air grills

IMPORTANT NOTICE

- All technical data, dimensions, properties, standards, certifications, trade marks and product names of the ISO 1 CC containers and of the equipment corresponds to the last technical stand and they are one of more possible eventualities or solutions and can be changed or replaced, the offered product is customizable for the client's needs and specifications. The by the both sides approved ones are to be valid only after undersigning of the business agreement
- The electric equipment is standardized with nominal tension 230 V 50 Hz, IT secured electrical cabinet with ring coil isolating transformer and monitoring is standardized 230 V 50 Hz (alternatively customized tensions on request)

Quotation

We are honored to submit quotation for **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY** in ISO 1 CC containers with thermal insulation, medical equipment, energetic bloc, wiring and interfaces. Containers are customizable and full equipped with medical devices for the task of a **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY**

ISO 1 CC containers with thermal insulation - MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY

Generally

The containers are based on standard ISO 1 CC steel construction with additional internal thermal insulation and additional door integration. Internal container area is subdivided into 2 or 3 compartments - **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY**

Construction material

- The container structure is made of welded steel profiles - steel S235 JRH is used
- ISO corners (8 pieces) comply with ISO 668 made of steel alloy (JIS G 5102 SCW 480)
- Pockets for forklift handling are integrated into container bottom frame
- Walls and roof is made of trapezoidal steel sheet (thickness 2 mm)
- Insulation for ceiling and walls is made of 40 mm sandwich panel for walls and ceiling assembled on the inside of the container. These panels are made of aluminum skins (thickness 0,8 mm) and polyurethane foam core (density 65 g / dm³). Reinforcement inserts can be integrated inside the panels where requested
- Insulation for the floor is made of 50 mm sandwich panel. These panels are made of one aluminum skin (thickness 0,8 mm), polyurethane foam core (density 65 g / dm³) and plywood (thickness 18 mm)
- The floor is covered by vinyl floor ALTRO finish
- Containers color schema -
 - The containers are painted on the outside with:
 - wash primer - S 2008 / 0600 thickness 10 µm
 - primer - S 2320 / 0600 thickness 33 µm
 - finish - polyurethane varnish U 2056 / 1000 thickness 2 x 30 µm
 - Walls and ceiling inside - polyester varnish HF 1F50 of ARCTIC WHITE color (code 966RB)

The container includes the following door, openings and interfaces

- Rubber seal used for door sealing is rigid, elastic and resistant against erosion and sea water
- Two single wing doors 2.000 x 900 mm in log side of container are integrated
- Internal wall made of sandwich panels is integrated into container splitting container into two parts-technical compartment and medical compartment
- Location on wall to be negotiated
- Input source box with trap door is integrated into technical compartment

The container includes the following equipments

- **MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY** with all devices (see the inventory)
- Furniture
- Energetic bloc with two 9 KW generators and IT secured Electrical Cabinet with ring coil isolating transformer and monitoring
- Switch box with connectors and grounding cable
- Water and waste tanks pump with plumbing components
- Air-conditioning and ventilation device
- Electric network wiring

Operational climatic conditions

Container is fully operational in macroclimatic area N14 (SN 038206) standard

- a temperature ranging from - 32 °C to + 49 °C
- a relative air humidity of up to 90 % at a temperature of + 30 °C
- an air flow speed of up to 20 m / s - 1 in all wind directions
- a rainfall of 3 mm at an angle of incidence of 30 °C in all directions

Maintenance service and repairs of containers

Manufacturer ensures all repairs under guarantee, repairs, container inspections and container electrical installation inspections if required

Quality control and applied certifications

The manufacturer's production methods and quality control are certified and the products complies the certifications for maritime ISO containers, road, ship, train transport, including the compatibility with container manipulation devices and allows the certifications EN ISO 9000:2001, EN ISO 9000:2000, ISO 1496 forklift rails, ISO 1161 corner fittings, CSC, IAF, NCAGE

The containers are classified as special exchangeable superstructure ported through the Tatra Phoenix Euro 6 T158

Notice

All technical data, dimensions, properties, standards, trade marks and product names of the ISO 1 CC containers and of the equipment corresponds to the last technical stand and they are one of more possible customizable eventualities or solutions and can be changed or replaced without notice. The by the both sides approved ones are to be valid only after undersigning of the business agreement

Project equipment inventory

A	Non medical equipments		
N o.	Items	Type	Pcs
1	Rugged type container 20 feet ISO 1 CC 20 - thermo & ionizing insulated	Medical	3
2	Rugged Truck TATRA T 158 8 x 8.2 with two transport platforms FLATRACK 20 "M"	Standard	2
3	Truck Trailer	Standard	1
4	Generator diesel-electric nominally 230 V 50 Hz 9 KW (<u>alternatively customizable on other tensions</u>) (built outside)	Standard	2
5	IT Electric cabinet with transformer IMED Secure 8 KVA RT SS316 for the main container	Standard	1
6	Air-conditioning and ventilation system with air ducting tubes and grills. Heating device with tubes and laminar field	Standard	1
7	Air conditioning for the two next containers without ventilation system	Standard	Each next container 1 pc
8	Water tank (approx. 200 L), pump with air ballon, plumbing components, outgoing waste installation	Standard	1
9	Distribution network of electricity	Standard	1
10	Fluorescent lights - tubes	Standard	1 pc for each container
11	Inflatable tent with accessories see the product range attached and list	Standard	1
12	Portable light tower as a emergency field lighting	Standard	6
13	Furniture, tables, boxes, patient's and doctor's seats	Standard	
14	Computer, printer, monitor and software installation	Standard	Each container 1 pc
15	Communication, broadcasting, wireless data transfer and GPS devices	Standard	
16	Electric operation table: BM Varius or EOT H	Only one item	
17	Double arm LED operation lamp: OL LED 70/50	Standard	1
18	Portable LED operation light: MEOL LED 50A		1
19	Anesthesia device: Venar Libera	Standard	1
20	Suction unit: Mevacs M 30	Standard	1

2 1	High frequency mobile C-arm x-Ray imaging system: MTN DG 3310 A or Mobile C-arm imaging system: WHA - 200 Opescope Pleno or Hybrid powered portable x-Ray digital radiography: ME - PXM - 40 BT Plus (with his Trolley carrying case and portable digital image processing unit: ME - meX + 1012 WCA)	Only one item	
2 2	Ultrasound: JM 9168 F Analogic	Standard	2 pcs
2 3	Vital functions monitoring: BLM 900, ECG: CC 1200 A and Finger pulso-ximeter: ZA 5		Each kind two pcs and only the Finger pulsoximeter 10 pcs
2 4	Defibrillator: MINIDEF 3 and Resuscitation case: Berny A		Each kind one pc
2 5	Immobilization mattress: CR - 10075 / HELI with accessories and CR - 10004 / PU with accessories		Each kind three pcs
2 6	Automatic electrolyte analyzer: PEEA 170		1
2 7	Autoclave: JY 12 and Sterilization containers for instruments		2 and 3 pcs
2 8	Surgical instruments and Consumable set	See list	Set
2 9	Hospital electric emergency ICU bed (8 functions + brake system): ICUB M		1
3 0	Hospital bed (4 functions): LHB 3A		3
3 1	Manual bed for orthopaedic diseases (2 functions): HB 9		1
3 2	Manual children bed (2 functions): CHB 2		1
3 3	Transport and infusion emergency bed (1 function): ZH 3 L		1
3 4	Infusion pump: 600 I, Syringe pump: 500 II and Infusion stand		Each kind 3 pcs
3 5	Table metallic for instruments		3
3 6	Pharmacy refrigerator with solid door: LM - PE 109 C		4
3 7	Germicide emitter: HM - Hyspray with HM - Hycontrol		3
3 8	Desinfection - and Soap liquid dispenser		Each kind 3 pcs
3 9	Fire extinguisher		4
4 0	Stairs, Wheel chairs and Waste containers		3, 3 and 5 pcs
B	Inflatable Tent		

N o.	Description	Type	Qty
1	Air supported tent system 4,6 x 8,3 m color RAL with accessories for inflating	MTN - LGZ 3	1
2	Electric installation with connecting box		1
3	Lamps		5
4	Portable Air-conditioning		1
5	Wooden floor		1
6	Inner wall cover	Trev	1
7	Seats for waiting patients		5

C	Consumables		
N o.	Description	Set	Qty
1	One-way syringes 2 cm ² Luer	Set of 10 000 pcs	1
2	One-way syringes 5 cm ² Luer	Set of 10 000 pcs	1
3	One-way syringes 10 cm ² Luer	Set of 10 000 pcs	1
4	One-way syringes 20 cm ² Luer	Set of 10 000 pcs	1
5	Infusion set	Set of 1000 pcs	1
6	I.v. Cannula with Injection Valve & Wings (different color)	Set of 1000 pcs	1

Various components

Electric operation table: BM - Varius

The BM - Varius can be adjusted, modified and altered in an unbelievable variety of ways. Not only in the head section but also along the longitudinal axis and in the operating height, which can be raised up to 1.040 mm. Its highlight is the 2-part leg plates that can be braced apart, and also be adjusted independently of one another

As versatile as you want it to be

The BM - Varius carries the flexible and pinpoint adjustment to your specific surgical requirements in its genes, so to say. It can be adapted as much as you need for your individual operative activities

Self-adjusting head positioning

Through horseshoe-shaped headrest on smooth-running ball-and-socket hinge, which is automatically adjusted when there is a change in position or weight

Gentle head positioning

In the padded horseshoe-shaped headrest, which surrounds the patient's head as if held in 2 hands: for a soft and relaxed position with simultaneous restraining and supporting effect

Convenient head section hydraulics

For highly efficient change of the head positioning of the patient without any manual adjustment

Ingress height as low as possible

So that patients can sit down as if on a normal chair: perfect, especially for children, mobility impaired and elderly patients

Adaptable patient surface

Adjustable to patients of quite different sizes with little effort, ideal for people with physical impairments

Pressure-free operation positioning

Through division of the patient surface into 4 segments: Relaxed and calm patients improve the working conditions for the surgeon; complications and the formation of bedsores are minimised and recovery after the operation optimised

Highest level of user orientation

Through many years of cooperation with doctors and surgeons in brumaba product development. With concrete feedback from practical medicine, it is ensured that BM - Varius operating tables smoothly fulfil daily medical requirements

Maximum legroom

In a sitting treatment position for the surgeon: enables considerably more relaxed intervention, even with long, complicated and microscope assisted operations

Back-friendly working posture

For the surgeon when standing and sitting. The desired operating posture of the doctor is what counts. The height of the operating table can be adjusted individually via the extendible dual telescopic column

Slender frame construction

Ideal for getting closer to the head and body of the patient and performing operations at an optimal distance and with a comfortable posture

Highly functional accessories

In consistently slim and ergonomic construction without corners, sharp edges, protrusions or levers sticking out. To make working easier, without bumping into or getting caught on things

Divided leg plates

Adjustable separately and individually for an effortlessly achievable and previously unknown accessibility to operation regions in the stomach, hips, legs and pelvis areas

Flexible tilting to the side

Of the entire patient surface along the longitudinal axis by up to 17° on each side, which is a great advantage when positioning the patient and body region to be operated on at an optimum perspective and angle for intervention for the surgeon

Unrivalled operating convenience

Of the operating table and all its parts: Provides maximum comfort for patients, with perfect working conditions for doctor and assistants

Easy to use

Via handset or via the optional foot controls, eight memory functions can be programmed, reprogrammed and run during the current intervention

Out-patient operations

Made even easier; with little effort, faster patient change, optimized, mobilisation of patient and operating table, as well as more efficient treatment workflows

Easy to push, smooth-running castors

With uniquely low rolling resistance: The operating table, including patient, can be moved safely and precisely by just one nurse

Encapsulated castors

Is developed exclusively to ease your daily workload. With double ball-bearings for effortless moving convenience, while providing the greatest stability and perfect load distribution. The closed form prevents dust and contamination, minimising the cleaning effort

Dual steerability

With the help of perfect ergonomic handles, the operating table (with the patient lying on it) can be mobilised, moved and steered precisely from the head or foot end

Effortless switch from moving to standing position

A quick hand movement and the moveable operating table with lever or steering castor undercarriage can be switched to the standing position. The undercarriage folds upwards and the table with the patient rests reliably on 4 rock-solid feet

Moving firmly on course

By simply pulling the lever on the castor undercarriage, the feet are retracted and the castors are automatically activated. The undercarriage can optionally be equipped with a directional guidance, so that mobility is made easier by the castors staying on course

Ease of braking

With slight pressure on the braking mechanism, the feet on the left and right are pushed out simultaneously. The operating table then stands on 4 rock-solid feet, creating a considerably higher stability than with braked castors

Electricity independent braking mechanism

Since the operating table has a mechanical braking solution, it can be stopped at any time, even without electricity. If there is a power failure, the table can not only be braked, but also moved without electricity

Unique stability

For safe treatments and operations, due to its high net weight and flat as well as perfectly balanced baseplate with an extremely low point of gravity

Silent microhydraulics

For high-precision running and perfect control of functions; works almost silently and performs the user operating commands exactly as intended and in a matter of seconds

Smooth initiation of movement

Of the operating table functions via the specially tailored ramp control of the lifting cylinders: for the highest patient comfort and extremely comfortable treatment workflows

Reliable function safeguarding

The triggering of functions is protected with double safety and an automatic deactivation, to rule out operating errors and mistakes in control processes

Intelligent soft limits

For the control of the operating table functions: For example, limiting the sitting function, so that patients are not squashed and no potential entrapment hazards to the patient are created

Solid loading capacity

Of the BM - Varius operating table for a maximum patient weight of 300 Kg

Permanent availability

Through safety features such as the dual battery pack, which enables the highest operating safety, even when one module fails. Deep discharge protection, acoustic and visual signals protect both batteries against full discharge

Extremely long battery pack life

With a fully loaded battery pack, up to 150 operations are possible, depending on the type and complexity of the intervention. At full capacity, it is sufficient to charge the battery pack just 1 x per week: For a maximised battery pack life, with less charging costs and considerably more economical

Protective terminal strip

On the baseplate of the operating table prevents the feet of the surgeon and assistants from getting trapped

Solid stainless steel frame

Hygienic, extremely corrosion-resistant and thus the first choice for medical practices and operating theatres. outstanding product substance for the highest investment security, A-consistently designed without hollow spaces, gaps or joins for uncomplicated cleaning and disinfection

Highly efficient padding

Can be removed in seconds with the integrated quick release fastener, high-frequency welded with no seams, can be cleaned and disinfected effortlessly for medical use

Unrivalled quality

Through unique properties of all the materials used and the highest functionality, with very simple handling and operation

Features

Attractive features for your benefit

Pioneering operating technology with ultra-modern functionality and sensible ergonomics in one: The BM - Varius opens up new perspectives for your surgical work:

- Double telescopic column: 610 - 1.040 mm
- Longitudinal axis tilting
- Memory function with 8 programmes
- 2-part leg plates
- Telescopic head section with horseshoe-shaped headrest
- Back section extension for length adjustment
- Lever and steering castor undercarriage
- 24 V DC battery pack operation
- Manual remote control
- Stainless steel construction

Technical data

Total length	1.770 mm - 1.940 mm
Total width	555 mm
Net weight	195 Kg (+ 12 Kg Padding)
Max. load of table	300 Kg
Max. load of head section	100 Kg
Max. load of foot section	150 Kg

Adjustment range

Height	610 - 1040 mm
Tilt angle of head section	- 45° to + 35°
Tilt angle of back section	- 16° to + 60°
Tilt angle of seat section	- 31° to + 43°
Tilt angle of foot section	- 90° to + 34°
Tilt angle of axial tilting	- 17° to + 17°

Electrical data

Operating voltage	24 V DC
Protection class	IP X 4
Battery pack capacity	22 Ah
Operating time with full charge	1 to 2 Weeks

Accessories

Additionally increasing the BM - Varius versatility

Our BM - Varius is already extremely versatile. With a large assortment of suitable accessory elements, you can considerably expand its use for your practice or clinic

Z1.175 - Battery pack transport trolley

On this stable trolley with four smooth castors, you can transport up to two battery packs for your operation surgery tables - and at the same time charge them at the closest mains socket, since there is room to hang the battery charger on the side of the trolley

- no more carrying heavy objects, but quick transfer from trolley to surgery table when changing batteries
- stable build

Dimensions: L: 300 mm - W: 450 mm - H: 800 mm

Z1.015 - Anaesthesiology screen rod universal

Functional stainless steel bracket for all common surgical drape systems in surgery. length and height can be adjusted with a telescopic system, the angle with a clamping ball-and-socket hinge. If necessary, a hook can take up the infusion bottle

- indispensable for contamination-free work
- in addition suitable for hanging infusion bottles

Dimensions: Width: 680 mm 1260 mm (extended) Height: 440 mm - 720 mm

Z1.020 - Leg plates extended

The leg plates extended by 30 cm enlarge the patient surface when the patient's legs are in a spread out position, such as in gynaecology, in the lithotomy position, or simply for large patients. Because the table is longer, the patient can also slide further down so that his pelvis is in the radiolucent area

- soft padding with hygienically sealed cover
- fully radiolucent for models with divided foot section

Padding dimensions: L: 800 mm - W: 270 mm - H: 50 mm

Z1.171 - Viscoelastic surgery mattress, antistatic

For lengthy surgical procedures or patients with a high risk of bedsores, the viscoelastic surgery mattress protects from dangerous pressure sores. This is especially important with the use of local anaesthetics, so that the half-sedated patient does not move unnecessarily

- covers the entire patient surface
- extremely soft "memory foam"

Padding dimensions: L: 1660 mm - W: 570 mm - H: 40 mm

Z1.112 - Body belt

The body belt is used to restrain the patient. The soft, slightly expandable silicone material reduces the pressure load in the stomach region

- includes mounting gliders

- can be opened and closed quickly with a button system

Dimensions: L: 1440 mm - W: 80 mm

Z1.101 - Half roll padding large

We recommend this half roll padding for patients with hollow backs or to support the knees when the patient is lying on his back. since one side is flat, it cannot roll away, and the soft material ensures the best lying comfort

- hygienically sealed cover
- versatile use

Padding dimensions: L: 555 mm - W: 210 mm - H: 120 mm

Z1.100 - Half roll padding small

The small half roll padding covers the need for slight lying support. it is suitable for lying in the dorsal or prone position

- soft material and hygienic, seamless cover
- comfortable shape for various purposes

Padding dimensions: L: 400 mm - W: 140 mm - H: 70 mm

Z1.060 - Accessories trolley

More space for accessories in this well-designed, tip-proof accessories trolley made of stainless steel. It is attached with 15 included mounting gliders on three rails. Small parts will not get lost on the tray

- four high-quality castors for ease of transport also for heavy loads
- additional mounting gliders available individually on request (Art. no. Z1.161)
- additional extensions for hand surgery table and arthroscopic surgery leg support

Dimensions: L: 730 mm - W: 550 mm - H: 1000 mm. Rail length: 725 mm

Z1.162 - Wall mounting rail

Up to 5 accessories can be stored on this wall assembly rail, saving space. The gliders included serve as holders

- fast attachment to any wall with screws
- high-quality stainless steel design
- additional mounting gliders available individually on request (Art. no. Z1.161)

Dimensions: Length: 100 cm

Z1.117 - Accessories column

Space can be saved by storing up to 8 accessories on this mobile stand, always close to hand
The parts are simply pushed into the slots provided with their plug connection. On the optional tray (diameter: 620 mm) of the stand, there is space for small parts, such as mounting brackets or restraining belts

- five high-quality castors for trouble-free pushing
- stable stainless steel design

Dimensions: Height: 1080 mm Ø Base: 620 mm

Optional

Tray for accessories. Ø plate: 620 mm

Z1.140 - Lordosis support padding

This lordosis padding is perfectly suited to support the lower back area and for bedsore prevention. It consists of viscoelastic foam and is covered seamlessly for optimal hygiene

- low height, exactly fitting the lower back of an average person
- can also be used as a support in the prone position or as a low pillow

Padding dimensions: L: 400 mm - W: 210 mm - H: 60 mm

Z1.152 - Side positioning support dorsal

If, during a surgical procedure on the patient's back, specific points need to be supported, the smaller padded dorsal support is the right accessory for relaxed work. The support prevents the patient from slipping or falling off the surgery table when lying on his side. The angle is set using a precise cogging

- space-saving
- individual setting thanks to ball-and-socket hinge

Padding dimensions: L: 240 mm - W: 140 mm padding thickness: 40 mm. Height adjustability: 120 mm

Z1.054 - Side positioning support

For stable positioning of the patient on his side for surgery to the back, posterior or flank, this support, as soft as it is robust, is used dorsally or ventrally. The clamping ball-and-socket hinge allows a seamless adjustment of the inclination, depending on requirements

- comfortable large-scale padding, which can be hygienically disinfected
- assembled on edge of surgery table

Padding dimensions: W: 180 mm - l: 300 mm padding thickness: 50 mm

Z1.002 - Side arm support

This space-saving safety padding is attached to the side of the table and restrains the arm and upper body of the patient. For relocating patients, it is folded down in the swivel joint with one hand movement

- folds away fast with swivel joint
- removable, soft padding
- silicone belt for additional arm restraint

Padding dimensions: L: 240 mm - W: 135 mm - H: 40 mm

Z1.188 - Arm support OP

The arm support is used if the arm needs to be prevented from falling off the table, if the arm needs to be held higher for minor surgical interventions, or if the table needs to be widened slightly for very heavy patients. It is almost flush with the table, is height-adjustable and is equipped, like the "large" armrests, with a removable padding, an impact protection plate and a restraint

- the "small" alternative to the armrest
- quick table widening for the treatment of heavier patients
- soft padding, removable for cleaning with snap lock

Padding dimensions: L: 400 mm - W: 140 mm - H: 150 mm. Height-adjustable from 60 mm - 110 mm

Z1.001 - Armrest OP

This padded armrest, foldable at several positions, can be used as a side restriction, as well as an arm support for a wide variety of surgical procedures. Thanks to two ball-and-socket hinges, it can take up any angle and bracing. A sophisticated adjustment mechanism with a cam lever ensures rapid adjustment and locking. The soft padding can be removed for cleaning by means of a snap lock, the edges of the armrest are fitted with unbreakable plastic as an impact protection

- rapid adjustability through cam lever
- removable padding for simple cleaning

Padding dimensions: L: 490 mm - W: 140 mm - H: 40 mm

Z1.104 - Armrest padding extended

Particularly for breast surgery, the so-called "cross position" of the patient is normal. The longer additional armrests reduce pressure loads in the upper arm area. This model is also equipped with two ball-and-socket hinges and the intelligent cam lever

- soft padding, removable with snap lock
- ergonomically correct arm positioning in "cross position"

Padding dimensions: L: 690 mm - W: 140 mm - H: 40 mm

Z1.016 - Arthroscopic surgery leg support

This leg support has been developed for the specific requirements of the leg position during knee arthroscopic surgery. The massive design in stainless steel is especially suited for use with esmarch bandages, and is extremely simple to clean. positioning is done via a precise cogging lockable with a screw handle, and the holding shells are adjusted with a push mechanism

- suitable for left and right knee
- freely positionable, depending on surgical procedure and patient

Max. Ø thigh: 320 mm, can be rotated 360°

Z1.155 - Padding insert for arthroscopic surgery leg support

If no tourniquet is required during a knee operation, a padding of viscoelastic foam can be inserted for more lying comfort. This reduces pressure sores which could arise during the operation, for example if diabetic patients have to lie still for a long time

- comfortable padding material which can be hygienically disinfected
- suitable for the knee arthroscopic surgery leg support for use on the left and right leg

Dimensions: L: 750 mm - W: 140 mm

Padding thickness: 25 mm

Z1.042 - Knee and elbow supports

These soft-cushioned knee supports are used to comfortably position the patient in the knee-elbow position (2 units required). They are attached to the folded down leg section of the surgery table by means of the mounting bracket and their angle can be adjusted

- soft padding, which can be hygienically disinfected
- contoured shape for safe lying without risk of slipping off the surgery table

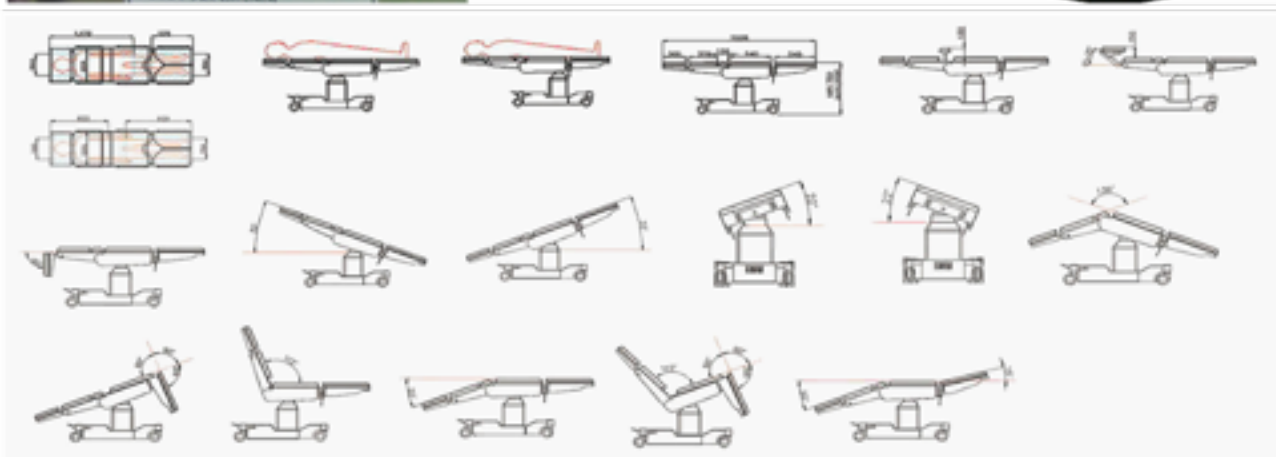
Dimensions: Shell sizes: W: 230 mm - H: 320 mm Mechanics: W: 300 mm - L: 450 mm







Or Electric operating table (top configuration): EOT H



Main specifications, Accessories and Quality standards

Total length: 2220 mm (with additional footplate)

Total width: 555 mm (without side rail)

600 mm (with side rail)

Head section length: 300 mm

Back section length: 380 mm

Main section length: 540 mm

Leg section length: 580 mm

Supporting bottom size: 1030 x 650 x 200 mm

Castor size: dia.125 mm

Height adjustment range: 700 ~ 1000 mm

Kidney bridge rise: ≥ 110 mm

Sliding movement: 350 mm

Back section up: 70°

Back section down: 22°

Trendelenburg: 24°

Re-trendelenburg: 24°

Lateral tilt: 22°

Leg section adjustment: Up 15° Down 90°

Spread angle of leg plates: 200°

Head section adjustment: Up 40° Down 90°
N.W. Of overall table: 350 Kgs
Max loading weight: 280 Kgs
Patient Horizontal max loading weight: 300 Kgs
Integrated battery: Yes, for over 150 movements
Voltage 220 V 50 Hz or 110 V, 60 Hz for choice

packing volume: 1.20 cbm/set G.W.: 410 Kgs

Germicide emitter: HM - Hyspray and the HM - Hycontrol

A easy and rapid disinfection by air of rooms. HM - Hyspray is a pulverizing appliance by air which disinfects rapidly mobile hospital rooms and surfaces. The pulverization is mechanical (Venturi effect) which allows the spreading of even sized droplets. It disinfects surfaces and decontaminates rooms in record time

Technical informations

The HM - Hyspray is a lightweight, ergonomic device. It can disinfect volume of 5 m³ to 165 m³. The diffusion time is 11 min to 50 m³. Voltage 230 V or 115 V

Applications

Hyspray is applied for this mobile hospital

Characteristics

The HM - Hyspray concept permits a homogeneous disinfection of surfaces without corrosion. No humidity on treated surfaces. Ecological and environmentally friendly
Realized test: Pseudomonas aeruginosa, Staphylococcus aureus, Eschierichia coli, Aspergillus niger, Spores des clostridium difficile, Penicillium SPP, Norovirus, Bacillus stearothermophilus
In addition to the hydrogen peroxide wich enables surface disinfection. A small amount of product is used 6,6 ml / m³ (economical). Digital programming volume of the work piece avoids overuse of product
For the safety of users, the HM - Hyspray device is triggered after 90 seconds. A ergonomic trolley transportation is included with the unit

Solution

- 1) HM - Hydrogen Peroxide solution: To clean and disinfect in one step all places
7 %, Neutral or apple, Chemical stability: 4 until 25 Grad, 1 or 5 L Bottles
- 2) HM - Hyodor spray: To fight and eliminate bad odors safely
Colorless-limpid, Neutral, Chemical stability: 0 until 50 Grad, 1 ml / m³, 1 L Bottle



Traceability of the procedure with specific device (HM - Hycontrol): HM - Hycontrol is a continuous detection of hydrogen peroxide in the atmosphere, room temperature and the duration of the pulverizing of H₂O₂. It can plot the efficiency for the disinfection and store 40 000 measures in archival forms an internet platform. The user can visualize in live the data collected via a computer

Technical informations

Measurement scale H₂O₂: 0 ppm á 400 / 1000 ppm
Resolution: 0,2 ppm
Humidity measurement: 0 until 100 %
Temperature measurement: Between 4 and 50 Grad
Functioning signal: Via LED and buzzer
Energy voltage: 110 / 230 V, 50 / 60 Hz
Consumption: 3 W in activity and 0,5 W in Stby
Rechargeable battery
Size: 200 x 200 x 114 ml
Weight: 2 Kg



Double arm LED operation lamp: OL LED 70/50



Technical Parameters

LED 70 / LED 50

Illuminance: 160,000 Lux / 140,000 Lux

Illumination Depth: 140 cm / 120 cm

Color temperature: 4,500 K \pm 500 K / 4,500 K \pm 500 K

Color rendering index (Ra.%): \geq 95 / \geq 95

Power of bulb (W): 1 W x N 128 / 1 W x N 64

Spot diameter (d 50 - d 10) (mm): 130 - 350 / 130 - 350

Light focus system: Manual / Manual

Voltage: 220 V 50 Hz / 220 V 50 Hz

LED service life: 60,000 hours / 60,000 hours

Min.installation height: 2,800 mm / 2,800 mm

Feature 1: Backlight compensation function
Feature 2: Endoscopy light source
Feature 3: Stepless adjusting light source
Packing details: 1.1 cbm / set ,G.W.: 110 kgs

Portable LED operation light: MEOL LED 50A



Technical Parameters

700 LED head / 500 LED head
illuminance adjustable range : 25 % - 100 %
K Color Temperature : 4000 - 5000 K
CRI RA : 95 R9 : 90 R13 : 92
50 % Spot Diameter (D 50): 150 mm / 120 mm
10 % Spot Diameter (D 10): 280 mm / 230 mm
Illumination Depth: 120 cm
Ultraviolet light irradiance within 40 nm wave length: 0.002 W / M2
Temperature at surgeon's head: ≤ 1 °C
Focus mode: manual or electric (optional, but price is different)
Power Supply: 220 V, 50 Hz
Lamp Beads Power: 1 W * 60 N / 1 W * 45 N
Input Power: 85 W / 65 W
The Average Life Expectancy H Lamp Beads: 50,000 hours
Lowest installation height: 2.8 M

Anesthesia machine: Venar Libera



Anesthesia workstation Venar Libera

The modular integrated anesthesia workstation VENAR combines high technological research, worthy international co-operation and high level of safety. The VENAR is designed for safety anesthetic practices for adults, children included newborns patients

Technical Parameters

- Screen electronic ventilator with built in 4 chamber compressor gives you many exceptional features. It provides the safe, reliable and trouble free ventilation. It includes color TFT display
- Electronic flow meter EFA with oxygen ratio controller-hypoxic guard
- Frame with trolley, extended table, lamp, and manometer gauges O₂, N₂O, Air, oxygen flush, drawers, 2 holders for 10 liters bottles, pipeline inlet, sockets and monitor shelf
- Adjustable overpressure safety valve
- Back bar of the vaporizers has max. 3 position of vaporizers with Interlock system
- Aspirator-injector system with two reusable jars
- Integrated anesthesia breathing system with absorber
- Anesthetic gas scavenging system
- Optional monitor of vital function by requirement of customer

Modular integrated anesthesia workstation VENA Medical Trade Network Document Center

Model	Media	Basic	Prima/Supra	Harmonia	Libera	Omega
Ventilator	Media	Manual			Screen	
Display	Digital	Ventilator			6,4" TFT colour	
Ventilation modes	CMV,PLV,MAN	Screen as			CMV, PCV, SIMV-PS, PS, MAN, SPONT	
Tidal volume Vt	10 - 1400 ml	Option			10 - 1500 ml	
Ventilation frequency	6 - 80 b/min				4 - 60 c/min	
Minute volume MV	0,35 - 25 l/min				0,5 l - 18 l/min	
T _i : T _e ratio %	2:1 to 1:3				20 - 70 %	
Postinspiratory pause T _p	0 - 20 %				0 - 50 %	
PEEP					0 - 25 Pa x 100	
Assistor sensitivity					5 l/min - adults, 3 l/min - children	
Lines on display					P - t, Q - t, Vt - t, loops: Vt - P and Q - Vt	
Monitoring of lung action					t-V, t _i -V, P _{ti} , P _{AB} , P _{alveolar} , C _{es} , C _{sp} , R _{aw}	
Optimization of ventilat.					By connection of Pocket PC with Watch	
Safety pressure P _{inh} - P _{min}					-15 to 20 Pa x 100 as for 10 to 70 Pa x 100	
O ₂ + (BY-PASS)		35 l/min - 75l/min			35 l/min - 75 l/min	
Flowmeter models						
3 T - O ₂ , N ₂ O, AIR		Standard				
EFA electron- O ₂ , N ₂ O, AIR		Option	Supra		Standard	On display
Hypoxic guard		with EFA	with EFA		with EFA	Anemon
Vaporiser						
HAL, ISO, SEV, ENF, DES	Double	Single	Single	Single	Triple	Double
Monitoring						
V _i , MV, f _i		Ventilometer Spirodat			Ventilator Screen	
P _{max} , P _{min} , P _{CO} , P _{es} , PEEP		Pressure gauge			Ventilator Screen	
O ₂ , N ₂ O, CO ₂ , AA, MAC					Irma OR on display Screen	Anemon
CO ₂ , O ₂		O ₂ - monitor AK 1097			Irma ICU on display Screen	12,1" TFT
EKG, SpO ₂ , T, NIBP, FIO ₂					Ecomon	colour display
EKG, SpO ₂ , T, NIBP		Icard M 88 - 8,4" TFT colour display			5,7" DSTN	Anemon
EKG, SpO ₂ , T, NIBP, CO ₂		Icard M 98			colour	Icard M 98
EKG, SpO ₂ , NIBP, CO ₂ , IBP		Icard M 69			display	Icard M 69
EKG, SpO ₂ , T, NIBP, IBP		Icard M 59				Icard M 59
External display - option						Option
Gas scavenger						
Adsorber		Standard				
Active gas scavenger		Option			Standard	

MEVACS suction unit: M 30



Main specifications

Three different modes of exhaustion allow utilization of special suction unit MEVACS MTN M 30 Drainage not only for thorax drainage but also for suction from respiratory apparatus. Very low noise level, continuous operation and monitoring vacuum meter ensure high quality performance of thorax drainage

Compact suction unit MEVACS MTN M 30 is used also during suction from respiratory apparatus. Simple control, high reliability and easy cleaning are the main advantages for application in hospitals, practice and households

Air-flow rate of the pump: 30 l / min

Vacuum: 0.82 kPa

Collection jars: 1 l, 2 l

High frequency mobile C-arm x-Ray imaging system: DG 3310

A

Mean Features

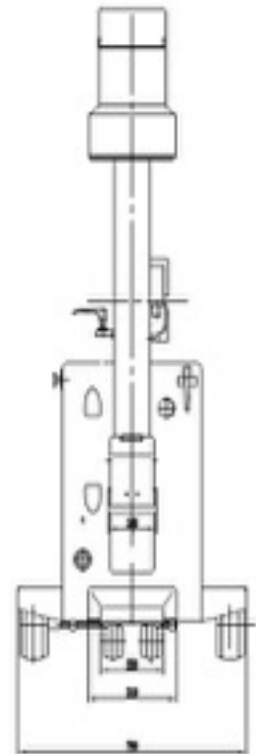
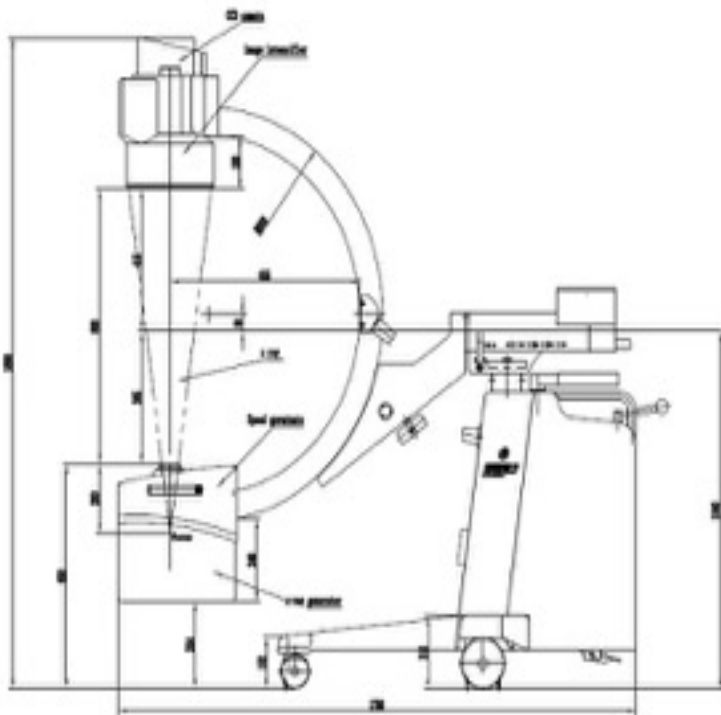
1. With HF & HV generator inverter and High quality image intensifier, the x-Ray generator can work stably. It also reduces the damage for the doctors caused by radiation
2. 10.4" LCD friendly interface control board: easy operation and can be rotated to 180 ° (L 90 °, R90 °)
Compared with ordinary key board, our LCD display is not easy to be oxidized Besides, the trouble will be displayed in english languages, which will improve the efficiency of fault diagnosis
3. Pulse and boost fluoroscope provides all kinds of size of patients with clear diagnosis
4. With a steering handle, it can adjust the direction quickly when moving and parallel movement function is also available

5. Equipped with unique block line wheels, it can avoid accident when the machine moves
6. Large free space in arc: the space can reach 800 mm, which is convenient for operation
7. 9" / 6" / 4.5" three fields of vision: It facilitates diagnosis of partial enlargement
8. CCD camera with rotation function: Range of camera rotation: 360 °
9. Original korean linear slide rail can make the movement of the machine flexibly
10. Applied with omron relay, the noise can be reduced and the life time of the equipment can be increased

Technical specifications	
HF generator	110 KV, 3.5 KW , 40 KHz
Fluoroscopy mode	Fluoroscopy mode 40 ~ 110 KV, 0.5 ~ 5 mA (KV manual and automatic); Pulse fluoroscopy 40 ~ 110 KV, 0.5 ~ 5 mA; Boost fluoroscopy 40 ~ 110 KV, 5 ~ 10 mA; Photography 40 ~ 110 KV, 1 ~ 250 mAs
x-Ray tube	Dual-focus fixed anode: 0.6 mm / 1.5 mm Tube sleeve heat capacity: 667 KJ / 500 KJ
Image intensifier	6" or 9", French thales brand
CCD camera	CCD camera
Image system	Recursive noise reduction Frame freezing Multi frame image storage Image conversing and rotating Screen display with image comparison
Mechanical motion specifications	Verticaltravel: 0 - 400 mm Horizontaltravel: 0 ~ 200 mm Rotation about horizontal axis: ± 180 °
C-arm dimension	Distance of focal spot to image generator (SID): 1000 mm Depth in arm ≥ 650 mm 1800 mm * 800 mm * 1850 mm
Standard configuration	High resolution CCD camera: 1 Set x-Ray generator: 1 Set 6" or 9" Image intensifier: 1 Set Image processing system 14" High resolution monitor : 1 Set Mobile stand: 1 Set

Packing details

Size: 4.37 cbm (2 cases)
244 * 86 * 170 cm
81 * 71 * 140 cm
Gross weight: 430 Kg



Or Mobile C-arm imaging system: WHA-200 opescope pleno

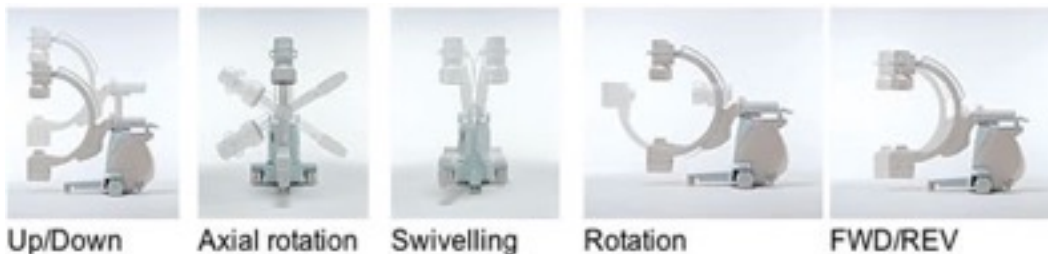


WHA-200 Opescope pleno

The **OPESCOPE PLENO** Mobile C-arm imaging system is born. Its technologically advanced design permits easy and accurate positioning with cutting-edge, high-accuracy digital image technology to meet the stringent demands of today's operating and emergency rooms

Fully balanced C-arm ensures smooth positioning

The fully balanced C-arm is manually operated. The independent electromagnetic lock mechanisms allow individual locking of all movements, which ensures quick and accurate positioning



Powerful operator support; easy operating function

The **OPESCOPE PLENO** employs anatomical programs that not only set the imaging conditions, but also handle such tedious tasks as adjusting the image orientation as well as other parameters. Image memory and other functions offer powerful operator support by rapidly displaying clear sharp images

Accurate targeting & high quality imaging

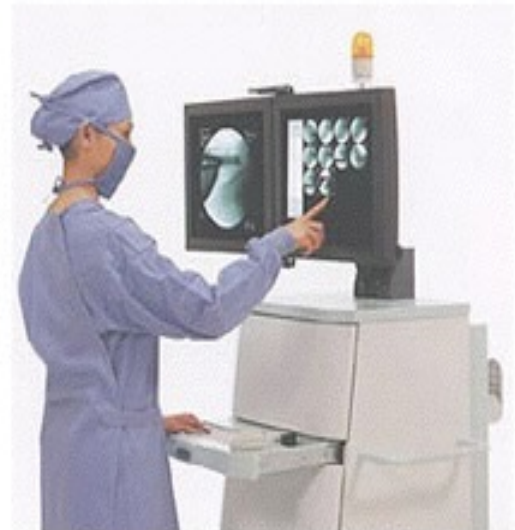
Incorporates a 1-Megapixel, high-definition, high-speed CCD camera providing 1024² matrix imaging for fluoroscopy and real-time DSA features. Our patented RSM-DSA (Real-time smoothed mask DSA) is a powerful tool at vascular surgery suites

Easy on operator and patient-safe design

Great care was taken to reduce the x-Ray exposure, while ensuring optimal image quality. A range of exposure-reducing functions maintain image quality but allows the system to be used with confidence throughout long surgical procedures. The compact design with its free positioning and wide view field ensures the safety of operator and patient alike during surgery



Color LCD Touch-panel Operation



Touch-screen LCD for intuitive operability

Or Hybrid powered portable x-Ray digital radiography: ME - PXM - 40BT Plus

- Device can be operated by internal battery or by external power supply
- Great advantage for outdoor radiography
- Innovative approach by high performance lithium-ion polymer battery
- App. 200 exposures by just one charging
- Strong body against external shock and contamination
- Exclusive remote controller using by hand switch
- Optional WiFi module available for working without any cables
- Hand switch remote control function
- 100 KV / 35 mA
- 2,4 KW at 80 KV

Output

Tube vol. / current 100 KV / 35 mA

Voltage range 40 - 100 KV in 1 KV steps

mAs range 0,4 mAs - 100 mAs 35 steps

Max. output 2,4 KW at 80 KV

x-Ray tube

Application Toshiba D - 124

Focal spot 1,2 mm

Collimator

Max. light field 35 cm x 35 cm 65 cm SID

Lamp LED

Auto timer 30 sec.

Features

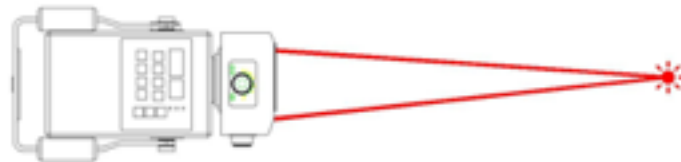
7-Segment LED	read out reversible
PROM memory	21 APR
Weight	14,2 Kg
Dimensions	250 x 214 x 349 mm

Portable x-Ray digital radiography: ME - PXM - 40BT Plus, Nr. 30 - 1042

Dual laser upgrade: Nr. 30 - 1106 DL

Mobile stand for the portable x-Ray unit: ME - PXMS - 1800, Nr. 99 - 9040

Trolley carrying case and portable digital image processing unit: ME - meX + 1012 WCA, Nr. 99 - 9926 W





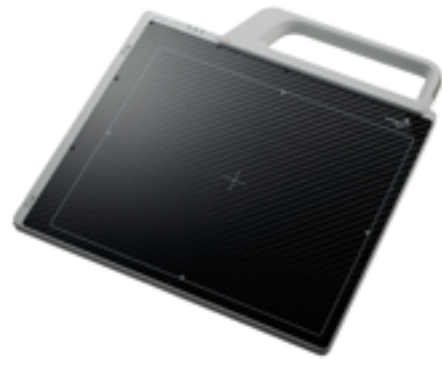
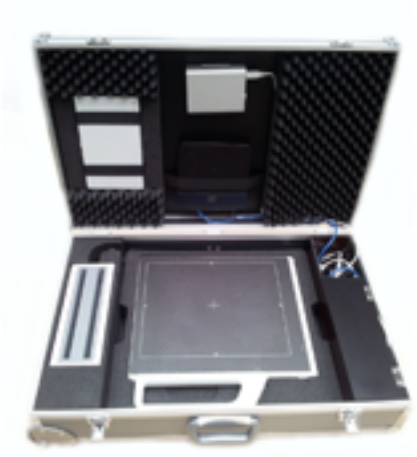
Height-adjustable arm (max. height of 180 cm)

Easy to dis - and assemble for transportation by the mobile digital radiographic examination unit workplaces hospit with his Trolley carrying case and portable digital image processing unit: ME - meX + 1012 WCA

- Wireless flat panel detector with high performance Li-Ion battery
- Excellent image quality due to amorphous silicon with CSI-scintillator
- Only 3,6 Kg for convenient and flexible use
- Great advantages for outdoor radiography and mobile applications
- Exchangable positions of handle bar
- Sensor type: Amorphous silicon with TFT (single panel)
- x-Ray converter: CSI: TI
- Total pixel number: 2080 x 2560 pixels
- Active pixel area: 25,9cm x 32,0 cm
- Pixel pitch: 127 μ m
- Limiting resolution: 3,9 lp / mm
- Energy range: 40 - 150 KV
- A / D conversion: 16 bit
- Image acquisition time: 7 sec.
- Size: 395 x 337 x 18 mm (not incl. handle)
- Weight: 3,6 Kg (incl. battery & handle)
- Battery type: Lithium Ion battery
- Numbers of exposures by one charging: 700 Images

Incl. items

- meX+ Image acquisition software + DICOM send & patient CD module
- Specially developed trolley case with wheels
- 2 Batteries incl. charger, WIFI router incl. power supply, AGI box





Ultrasound: JM 9168 F Analogic

Features

1. Digital technology of micro-computer & digital scanning converter (DSC). Brief circuits with reliable performance
2. Dynamic frequency imaging, multistage focusing, aperture control Multi - frequency & high sensitivity probe contributes to consistently, high resolution images
3. Applicable to abdominal, obstetrics, gynecological, urological and small parts diagnosis
4. Cine-loop & permanent image storage
5. Built-in color coding module & VGA outlet
6. Activated hospital information
7. User-friendly with one-touch keyboard & trackball operation
8. USB 2.0 interface for image transferring

Specifications

1. Display modes: B, B + B, B + M, M
2. Scanner depth: 220 mm
3. Gray scale: 256
4. Image magnification: x 1.0, x 1.2, x 1.5, x 2.0
5. Cine-loop: Maximum 206 frames
6. Permanent image storage: 32 Frames
7. Image conversion: Up / down, left / right, black / white
8. Local zoom: 2 (can be used at frozen / real-time)
9. Frame correlation: Selectable 3 levels
10. Depth shift: B, B + B, real time shift
11. Resolution: lateral = 2 mm, axial = 1 mm
12. Body marks: = 10
13. Pseudo color processor: 7 Colors
14. Video output: PAL-D, VGA
15. Monitor: 7 / 10 Inches high resolution CRT
16. Measurement: Distance, circumference, area, volume, heart rate, pregnant week, fetal weight, EDD
17. Comments: Real-time, clock, date, scanning depth, model of probe, parameter of frame correlation, combination of focus, patient ID, gender, age, etc.
18. Power: consumption: 45 VA (standard)
19. 90 VA (with all options)
20. Power supply: 220 V \pm 10 % 50 Hz, 110 V \pm 10 % 60 Hz
21. Gross weight: 12.5 Kg
22. Net weight: 10 Kg (including probe)
23. Carton size: 43 * 42 * 40 mm
24. Probe: 2.5 / 3.5 / 5.0 Multi frequency convex linear array probe (standard)
25. 5.0 / 7.5 MHz Multi-frequency linear array probe (option)
26. 5.0 / 6.5 MHz Multi-frequency convex transvaginal probe (option for CUS-9618 F only)

Various components

-

Electric bed (8 functions + brake system): ICUB M

Main specifications

Bed panel: 1950 x 910 mm (weighing function optional)
outside Total length:
2170 mm (could be extended to 2350 mm)
Total width: 1080 mm
Height (from floor): 500 ~ 850 mm
Back plate adjusting: 0 ~ 75°
Knee section adjusting: 0 ~ 45°
Trendelenburg: 0 ~ 13°
Anti-trendelenburg: 0 ~ 13°
Bed panel extension: Manual / 180 mm
Safety load capacity: 240 Kgs
With the nurse controller and CPR function



Electric bed (4 functions): LHB 3A

Main specifications

Bed panel: 1950 x 830 mm

outside

Total length: 2200 mm

Total width: 1010 mm

Height (from floor): 400 ~ 750 mm

Back plate adjusting: 0 ~ 70°

Knee section adjusting: 0 ~ 45°

Safety load capacity: 200 Kgs



Manual bed for orthopaedic diseases (2 functions): HB 9

Main specifications

Size: 2020 x 900 mm

Height (from floor): 500 mm

Back plate adjusting: $0 \sim 70^\circ \pm 5^\circ$ (manual)

Right leg section adjusting: $0 \sim 30^\circ \pm 5^\circ$ (manual)

Left leg section adjusting: $0 \sim 30^\circ \pm 5^\circ$ (manual)

Safety load capacity: 240 Kgs



Manual children bed (2 functions): CHB 2

Main specifications

Size: 1770 x 900 mm

Height (from floor): 550 mm

Safety load capacity: 150 Kgs



Transport and infusion emergency bed (1 function): ZH 3 L

It is made of high-strength aluminum alloy thick-wall pipe. The surface can be separated from the bed, and it can be used as a stretcher. Furthermore, the head part can be raised up to 60°. The emergency bed is used for carrying patients and the wounded people for the hospitals, emergency centers and gymnasiums. It is specially suit to send the operated patients from operating room to sickroom. It's characterized by its being light, durable, antiseptic and easy for sterilization



Technical features

- 1) Product size (L x W x H): 190 x 55 x 88 cm
 - 2) Maximum back angle: 60°
 - 3) Packing size: 195 x 62 x 34 cm
 - 4) N.W. 35 Kg
 - 5) G.W. 41 Kg
 - 6) Load bearing: Less than 159 Kg
-

Immobilization mattress: CR - 10075 / HELI



CR - 10075 / HELI - Anatomic vacuum mattress no compression 75 x 200 cm « Helicopter specific ». 12 handles to carry all around the mattress, deport under the liner, 3 patient straps, Valve ¼ turning, PVC liner, x-Ray transluce. Easy cleaning and decontaminated

Immobilization mattress: CR - 10004 / PU



CR - 10004 / PU - Anatomic vacuum mattress no compression 110 x 220 cm with tissu to protect, 8 ergonomic handles under the mattress, 3 straps to fixed the patient, Tissu polyurethan, Valve ¼ turning, x-Ray translucide, Easy cleaning and decontaminated

Vital functions monitoring

Vital functions monitoring: Portable monitoring BLM 900



Features

1. Easy button press, access all major functions rapidly
2. Bright, easy-to-read LED numerals
3. 3-Level audible and visual alarm
4. Removable & rechargeable battery
5. Digital SpO2, high capacity against interference of ESU, motion & low infusion
6. Isolated against defibrillation effect
7. Wireless or wire communicable with central station system
8. Integrated handle and full mounting solutions

Technical specifications

Safety: IEC 60601 (GB 9706)

Dimension: 256 mm (W) x 209 mm (H) x 170 mm (D)

Weight: 3.5 Kg (with battery)

Power supply: 100 ~ 240 V, AC: 47 ~ 63 Hz

12 VDC

Patient range: Adult, Pediatric and Neonatal

Display

LED: Systolic, Diastolic, Mean pressure, SpO2, Pulse rate, Temp

4" FSTN LCD: Resolution: 320 * 240

Indicator:

- Alarm indicator
- Battery indicator
- Patient type indicator
- Mute indicator
- NIBP measuring indicator
- Pulse quality indicator

NIBP

Method: Automatic oscillometric

Operation modes: Singles (manual), Cycle (automatic), Rapid (continuous)

Measurement: Systolic pressure / Diastolic pressure/mean

Resolution: 1 mmHg

Range: Adult: 10 - 270 mmHg

Pediatric: 10 - 235 mmHg

Neonate: 10 - 135 mmHg

Accuracy: ± 3 mmHg (static)

Unit: mmHg / Kpa selectable

Auto measurement: 1, 2, 3, 4, 5, 10, 15, 20, 30, 45, 60, 90 minutes, 2, 4, 8, 12 hours

Over-pressure protection: Yes

BLT Digital SPO2 (Pulse oximetry)

Range: 0 - 100 %

Resolution: 1%

Accuracy: ± 2 % (70 % ~ 100 %)

± 3 % (35 % ~ 69 %)

Unspecified (0 ~ 34 %)

Pulse Rate:

Range: 25 ~ 250 BPM

Resolution: 1 bpm

Accuracy: ± 1 bpm or ± 1 % (whichever is bigger)

TEMP

Range and accuracy: 0 ~ 50, ± 0.1 (25 ~ 50)

Resolution: 1 mmHg

Unit: Celsius, Fahrenheit

Alarm

Level: 3-level, low, medium & high

Indication: sound and light

Setup: Default & Custom

Silence: All alarms can be silenced

Review

48 Hours trend data

1200 groups of NIBP measuring data review

Environment conditions

Temperature: Operation 0 - 50

Storage / Transportation: - 40 - 70

Humidity: Operation: 10 % ~ 95 %, Non condensing

Storage / Transportation: 0 % ~ 93 % Non condensing

Atmospheric pressure: Operation: 700 ~ 1060 hPa

Storage / Transportation: 500 ~ 1060 hPa

Standard configuration

NIBP, SPO2, PR, TEMP, Battery

Option

Thermal recorder, Nellcor SPO2

* Specification subject to be changed without notice

ECG machine: CC 1200 A

MTN CC 1200 A, with 8.4 inch color TFT 12 leads acquisition simultaneously. Touch screen and hiding handle, easy for movement. RJ 45 and RS-232 interface for data transmission to PC. USB interface for patient records transmission



www.medical-trade.net

Features

Automatic adjustment of baseline. Optional selections for rhythm lead

8.4 inch high-resolution color folding up touch-screen

AC / DC power supply built-in rechargeable li-ion battery

Single button operation

Sleep / wake up mode for saving energy and extending LCD life

Freeze real time waveform and record with selected format

Last 120 seconds waveforms reviewable and recordable

Printing preview of waveforms and auto-diagnosis result
Various printing formats
Complete digital filter, Avoid baseline drift, AC. EMG interference
Automatically detect and record arrhythmia
Internal storage for up to 300 digital ECG records
Support all the ECG rolling paper, folded paper and A 4 paper
External printer support and USB socket for data transmission
122 Kinds of arrhythmia analysis

Specifications

Lead: Standard 12 leads
Gain: 2.5 mm / mV, 5 mm / mV, 10 mm / mV, AGC (automatic), 20 mm / mV, 10 / 5 mm / mV, 20 / 10 mm / mV (classification, front means lead gain, behind means chest lead gain), accuracy $\pm 2\%$
Filter: (1) AC Filter: (2) EMC Filter: (3) Drift Filter: (4) Lowerpass Filter
Calibration voltage 1 mV $\pm 1\%$
Noise level: $< 15 \mu\text{Vp} - \text{p}$
Frequency response: 0.05 Hz - 150 Hz
Time constant: $\geq 5 \text{ s}$
Input impedance: 50 M Ω
Input circuit current: $< 50 \text{ nA}$
Tolerance voltage: $\pm 650 \text{ mV}$
CMRR: $\geq 105 \text{ dB}$
Anti baseline drift: Automatic

External input / output: Input $\geq 100 \text{ K}\Omega$, Sensitivity 10 mm / V $\pm 5\%$. Output: $\leq 100 \Omega$, Sensitivity 1 V / mV $\pm 5\%$

Communication interface: Ethernet, RS 232, USB
Recording system: 210 mm, 216 mm width thermal printer papers
Rhythm lead: Single channel and three channels selectable. 12 Leads selection for each channel.
Recording mode: Auto / Manual / Rhythm
Recording format: 12 x 1, 3 x 4, 6 x 2
Average template: 4 x 3 +1 R, 6 x 2 + 1R recording
Record speed: 5 mm / s, 10 mm / s, 12.5 mm / s, 25 mm / s, 50 mm / s
Record paper: Roller and Z-fold
Safety standard: I, CF type
Memory: 300 ECGs, Built in 2G SD card to support over 10000 ECG records

Defibrillator: MINIDEF 3



The easy, reliable and efficient defibrillator MINIDEF 3

The handling of the MINIDEF 3 defibrillator is very safe and easy. After switching it on, the device performs an internal self-test with error-detection automatically. The clearly structured operating and display elements inform the user unmistakably about the operating state of the defibrillator

Resuscitation bag: BERNY A



The portable unit intended for urgent resuscitation of the patients affected by breathing insufficiency, where the artificial lung ventilation is necessary. BERNY A is transportable in hand, as a rucksack or over shoulder. BERNY A contains a basic equipment place at space of bag bottom, bag cover, transparent wallets and ampouliarium. BERNY A is recommended for use in hospitals, health cares, rescue systems and ambulances. The unit can be /optional/ completed by the RB NEON that extended the field of using for the adults and children. The function is not dependent of external power supply. BERNY A is equipped with a foot suction pump without O2 cylinder

Dimensions: 170 x 370 x 440 mm

Weight: 6.5 Kg

Fingertip pulsoximeter: ZA 5



1. Two color OLED display, four display modes
2. No key press design, autoinduction for ON / OFF
3. 4-Direction display automatically
4. Visual alarm function. Real-time spot-checks
5. Low power consumption, 50 hours continuous to work
6. Low perfusion ≤ 0.4 %
7. Low voltage indicator
8. Automatic power off when no signal
9. Reliable accuracy and durability
10. Small and light weight, convenient to carry

Medical Trade Network

MTN ZA 5'S Highlights

- ◇ No key design.
- ◇ Automatic power on and off
- ◇ Varietal color for your option
- ◇ Patent 4 direction auto-orientation
- ◇ (Green, Pink, Royal blue and Black)

Infusion pump: 600 I



Function and features

- Flow rate range from 1 600 ml / h (600 I)
- Unique door-free structure and big LCD screen, making it easier and more convenient to operate and in the meanwhile avoiding problems of pump stuck and fluid leakage
- Unique function of bedside infusion supervision, making patients and their relatives more assured while also reducing nurses' workload. If used with 2000 I and 900 I, a bed No. can be set in the ma-

chine and then its infusion progress and alarm information can be displayed on the 2000 I located at Nurse's Station and 900 I. The nurse, upon seeing and hearing the signal, can go and handle the unit accordingly

- All brands of standard IV sets are compatible. With only a simple calibration, it can guarantee an accurate, smooth and safe infusion
- When detecting air in line or occlusion, an audio and visual alarm signal shall be given instantly while at the same time the machine stops operation automatically, thus reducing the danger of air embolism to patients
- The infrared sensor shall give alarm signal when detecting excessive air pressure
- Application of double CPU, making the infusion process safer and more reliable
- Alarm signals are given in case of malfunction or operation error and the machine stops operation automatically

Syringe pump: 500 II



Function and features

- Three operation modes: Rate mode, Time mode, Body Weight mode
- Double CPU, making the process of injection safer and more reliable
- Accurate and sensitive pressure sensor detecting occlusion pressure accurately
- Injection time, dose, solution can be checked during the process of injection
- Precision step motor. There is no pulsating wave even during low-rate injection
- KVO rate can be selectable according to concrete requirements from 0.1 ml / h - 5 ml / h
- Excellent injection operation. The accuracy will be ensured even at small-volume injection
- Unique injection supervision system ensures the safe injection and reduces the nurse's workload
- Accept all standard syringes of 5 ml, 10 ml, 20 ml, 30 ml and 50 ml. It will self-diagnose and display the syringe size and set parameter automatically in the form of menu
- Alarm is given when there is malfunction or operation error, and the machine stops running automatically
- Preset volume can be automatically selected when there is unpredictable switch-off, thus ensuring the accuracy of injection volume

Laboratory equipments

Electrolytic analyzer: PEEA 170



Features

Large LCD display

Using of standard automatic tracking software, failure automatic alarm

Automatic selection, automatic calibration, fast analysis speed

Fully enclosed reagent pipeline, can avoid any contamination

Auto maintenance function simple operation

Controlling calibration procedure, auto calibrate the measurement data

power-off protection, Large memory for 1000 results

Auto sleep and awake function

Advanced Tco 2 sensor, reliable and clear results

Specifications

Measurement techniques: ISE direct method

Testing items: Free selection K, Na, Cl, Ca, PH Tco2, AG

Testing sample: Serum, plasma, whole blood, diluted urine, nurolymph

Sample usage: 60 ul - 300 ul (3 Items-10 items)

Controlling mode: Standard mode

Testing speed: ≤ 25 s

Testing range and accuracy

		Testing range	Resolution	Testing accuracy (CV)
K+	0.5 - 20.0 mmol / l	0.01 mmol / l	≤ 1.0 %	
Na+	15 - 200 mmol / l	0.1 mmol / l	≤ 1.0 %	
Cl-	15 - 200 mmol / l	0.1 mmol / l	≤ 1.0 %	
Ca+ +	0.1 - 6.0 mmol / l	0.01 mmol / l	≤ 1.0 %	
PH	4 ~ 9 PH	0.01 PH	≤ 0.5 %	
Tco2	2.0 - 70.0 mmol / l	0.1 mmol / l	≤ 3.0 %	

Interface RS 232

Printer built-in thermal printer

Working environment: Temperature 5 ~ 35 Humidity: 10 % - 90 %

Power supply: 100 - 240 V 50 Hz

Autoclave: J



Sterilizes and sanitizes miscellaneous packed or unpacked medical instruments, whether solid or A-type hollow, whether with B-type hollow and B-type hollow multi-apertures or inset pipes. It efficiently rids air from every hollow area of any hollow instrument, such as hand piece, making sure that water steam reaches every corner

Double-controlled door lock, Pressure accuracy 0.1 bar, LED Display, Volume of th

Instruments list

Item	Description	Quantity	Size	MTN No.
Mac-Intosh Laryngoscopes and accessories	Laryngoscope handle for adult M - 02 - 002, standard illumination manufactured from stainless steel. ANSI 304	5	Size 2, 100 mm, 78 mm, 17 mm	02 - 006
		5	Size 3, 130 mm, 108 mm, 18 mm	02 - 007
		5	Size 4, 155 mm, 133 mm, 18 mm	02 - 008
Tracheal Tubes	Outer and inner tube closed	5	N4, 8 mm, 65 mm, MS	17 - 022
Tuning Forks	From MTN 24 -151 C 128 until MTN 24 - 156 C5 4096			
Mallets	Mallets	1	20 mm, 150 g, 16,5 cm	792 - 398
	Collin	1	30 mm, 220 g, 20 cm	792 - 396
Scalpel Handles	Sterile with metal handle	50		792 - 001
			Fig 10	792 - 005
			Fig 11	792 - 006
	Cartilage knives, with wooden handle	50	31 cm, 12 ¼	01 - 015
	Amputation knives, with hollow handle	20	29 cm, 11 ½, 160 mm	01 - 056
		20	32,5 cm, 12 ¾, 190 mm	01 - 057
	Resection knives, solide handle, dissecting end, Langenbeck	50	18 cm, 7, 55 mm	01 - 060

	Dissecting knives, with metal handle	20	From Fig. 1, 30 mm, S 01 - 001 until Fig 5, 50 mm, S 01 - 005 From Fig. 6, 27 mm, S 01 - 006 until Fig 10, 50 mm, S 01 - 010 With Scalpel Handles - solid No. 3, 12 cm, S 01 - 030 and Fig. 10 - 17 As disposable Scalpels - sterile, single packed, packed with 10 units Fig. 10, S 01 - 049 Fig. 12 D, S 01 - 054	
Scissors	Operating scissors	5	13 cm, 5	02 - 002
			14,5 cm, 5 $\frac{3}{4}$	02 - 003
			18,5 cm, 7 $\frac{1}{4}$	02 - 005
			20,5 cm, 8	02 - 006
			14,5 cm, 5 $\frac{3}{4}$	02 - 009
			20,5 cm, 8	02 - 012
			13 cm, 5	02 - 018
			14,5 cm, 5 $\frac{3}{4}$	02 - 019
			18,5 cm, 6 $\frac{1}{2}$	02 - 021
			20,5 cm, 8	02 - 022
			14,5 cm, 5 $\frac{3}{4}$	02 - 034
			14,5 cm, 5 $\frac{3}{4}$	02 - 035
			14,5 cm, 5 $\frac{3}{4}$	02 - 037
			14,5 cm, 5 $\frac{3}{4}$	02 - 038
			Dissecting scissors	5
	17 cm, 8 $\frac{3}{4}$	02 - 054		
	15 cm, 6	02 - 055		
	17 cm, 8 $\frac{3}{4}$	02 - 056		
	18 cm, 7	02 - 087		
				20,5 cm, 8
			23 cm, 9	02 - 089

		26 cm, 10 ¼	02 - 090	
		28,5 cm, 11 ¾	02 - 091	
		31 cm, 12 ¼	02 - 092	
	TC-Gold scissors with tungsten carbide inserts. welded tungsten carbide cutting edge, therefore no seam tending to corrosion. Golden rings for easy identification.			
	Operating scissors	10	14,5 cm 5 ¾	03 - 002
			14,5 cm 5 ¾	03 - 003
			14,5 cm 5 ¾	03 - 005
			14,5 cm 5 ¾	03 - 006
	Dissecting scissors, Mayo-Stille	10	14,5 cm 5 ¾	03 - 021
			14,5 cm, 6 ¾	03 - 022
			14,5 cm, 5 ¾	03 - 023
			17 cm, 6 ¾	03 - 024
	Wire and crown Ligature and bandage scissors universal			
		10	14 cm	792 - 079
			18 cm	792 - 080
	Bandage scissor lister, lister-TC-Gold			
		5	18 cm, 7	12 - 016
			16 cm, 6 ¼	12 - 007
			19 cm, 7 ½	12 - 008
Forceps	Dressing forceps, standard pattern			
		20	14,5 cm, 5 ¾	04 - 004
			16 cm, 6 ¼	04 - 005
			25 cm, 9 ¾	04 - 009
			30,5 cm, 12	04 - 010
	Ulrich	10	From S 06 001, 22,5cm, until S 06 - 002, 26,5cm	

		From S 06 - 003, 22,5 cm until S 06 - 004, 26,5 cm	
Gross-Maier	10	S 06 - 010, 20,5 cm until S 06 - 015, 26,cm	
Dissecting forceps, standard pattern	10	14,5 cm, 5 $\frac{3}{4}$	04 - 089
		16 cm, 6 $\frac{1}{4}$	04 - 090
		25 cm, 9 $\frac{3}{4}$	04 - 094
		30 cm, 12	04 - 095
TC-Gold, normal profile	20	17,5 cm, 7	04 - 041
		17,5 cm, 7	04 - 042
Haemostatic forceps, spencer wells	10	14 cm, 5 $\frac{1}{2}$	05 - 065
		15 cm, 6	05 - 066
		18 cm, 7	05 - 067
		20 cm, 8	05 - 068
Atrauma organ grasping forceps	20	25 cm, 9 $\frac{3}{4}$	05 - 071
		26 cm, 10 $\frac{1}{4}$	05 - 072
Dissecting and ligature forceps, Overholt-Martin	10	Fig 1, 18,5 cm, 7 $\frac{3}{4}$	05 - 212
		Fig 2, 20,5 cm, 8	05 - 213
		Fig 3, 21 cm, 8 $\frac{1}{4}$	05 - 214
		Fig 4, 21,5 cm, 8 $\frac{1}{2}$	05 - 215
		Fig 5, 24,5 cm, 9 $\frac{3}{4}$	05 - 216
Rumel	10	24 cm, 9 $\frac{1}{2}$	05 - 265
		23,5 cm, 9 $\frac{1}{4}$	05 - 266
		23 cm, 9	05 - 267

		24 cm, 9 ½	05 - 268
		23,5 cm, 9 ¾	05 - 269
Peritoneum forceps, Mikulicuz			
	10	20 cm, 8	05 - 334
		20,5 cm, 8	05 - 335
Dressing forceps, Ulrich			
	10	22,5 cm, 8 ¾	06 - 001
		26,5 cm, 10 ½	06 - 002
		22, 5 cm, 8 ¾	06 - 003
		26,5 cm, 10 ½	06 - 004
Gross-Maier			
	10	20,5 cm, 8	06 - 010
		22 cm, 8 ¾	06 - 011
		26,5 cm, 10 ½	06 - 012
		20 cm, 8	06 - 013
		21,5 cm, 8 ½	06 - 014
		26 cm, 10 ¼	06 - 015
Sponge forceps, foers- ter			
Smooth jaw			
	10	25 cm, 9 ¾	06 - 020
		24,5 cm, 9 ¾	06 - 024
Tissue and atraumatic vascular forceps			
Cushing			
	10	18 cm	792 - 124
DeBakey			
	10	15 cm	792 - 131
			792 - 132
Adson, 12 cm			
	10	MTN 792 - 118	792 - 119
Adson Brown			
	10	MTN 792 - 120	792 - 121
Intestinal and tissue grasping forcesps			
Duval			
	10	20,5 cm, 8	19 - 020
Nasal specula			
	5		

	Killian	10	From MTN 25 - 010, 13 cm, 5, Fig. 1 until MTN 25 - 013, 13 cm, 5 Fig. 4	
	Killian forceps	10	16 cm, 6 ¼	25 - 030
Retractors and Self- Retaining				
	Roux	10	Fig 1 = 24 x 20 mm, 29 x 26 mm, 35 x 29 mm, 30 x 28 mm, 36 x 36 mm, 38 x 43 mm	
			10 mm	792 - 309
			20 mm	792 - 310
			From MTN 07 - 305, 17 cm, 6 ¾, Fig. 1-3 until	
			17 cm, 6 ¾	07 - 308
	Weilener			
		10	Sharp, 10,5	792 - 316
			Blunt	792 - 316
	Retractors			
		5	25 x 7 mm	792 - 291
			35 x 10 mm	
			42 x 11 mm	
			55 x 12 mm	
			70 x 14 mm	
			80 x 16 mm	792 - 296
	Volkman, 21,5 cm, 8 ½			
		10	Sharp	07 - 104
				07 - 105
				07 - 106
				07 - 107
	Volkman, 22 cm, 8 ¾	10		
	Sharp, 21,5 cm, 8 ½	10		

Martin, 22,5 cm, 8 ¾	10	Sharp	07 - 142
			07 - 143
			07 - 144
Israel	10	Blunt, 25,5 cm, 10, 40 x 40 mm	07 - 154
		25,5 cm, 10, 45 x 50 mm	07 - 155
		25,5 cm, 10 x 50 x 60 mm	07 - 156
		25,5 cm, 10, 70 x 70mm	07 - 157
Langenbeck	10	From MTN 07 - 158 22,5 cm, 8 ¾, 30 x 11 mm until MTN 07 - 167, 22,5 cm, 8 ¾, 50 x 11 mm MTN 07 - 168, 21 cm, 8 ¾, 65 x 20 mm	
		30 x 11 mm	792 - 264
		30 x 14 mm	
		30 x 16 mm	
		40 x 11 mm	
		50 x 11 mm	792 - 268
Kocher	10	From MTN 07 - 172, 23 cm, 9, 43 x 18 mm until MTN 07 - 176, 23 cm, 9 cm, 78 x 40 mm	
		From MTN 07 - 199, 25 cm, 8 ½, 22 x 12 mm until MTN 07 - 203, 23 cm, 9 cm, 43 x 20 mm	
Kocher-Langenbeck	10	From MTN 07 - 186, 21, 5 cm, 8 ½, 25 x 10 mm until MTN 07 - 193, 21,5 cm, 8 ½, 85 x 25 mm	

Fritsch	10	From MTN 07 - 226, 23, 5 cm, 9 ¼ , 37 x 31 mm until MTN 07 - 231, 26,5 cm, 10 ½ , 65 x 85 mm	
Coryllos	10	From MTN 07 - 24 cm, 9 ½ , 108 x 43 mm until MTN 07 - 242, 24 cm, 9 ½ , 119 x 65 mm	
Brunner	10	From MTN 07 - 253, 25, 5 cm, 10, 182 x 30 mm until MTN 07 - 258, 25,5 cm, 10, 82 x 20 mm	
Abdominal spatulas, kader	10	From MTN 07 - 302, 28 cm, 11, 20 mm until MTN 07 - 304, 28 cm, 11, 40 mm	
Wound spreaders, self-retaining, weitlaner, 20 cm, 8	10	Sharp	07 - 338
		Blunt	07 - 340
Vickers, blunt, ring model, for thumb and fingers	20	5 cm, 2	07 - 405
Abdominal retractor complete with 1 pair of lateral blades and central blade	5 Set	From MTN 07 - 415 until MTN 07 - 418	
Kirschner	10	240 x 240	07 - 469
		40 x 55	07 - 470
		50 x 65	07 - 471

	Flexible	10	MTN 792 - 250 until MTN 792 - 255	
	Micro hooklets, skin hooks			
	O'Connor, 16 cm, 6 ¼	10	Sharp	07 - 015
	Guthrie, 15,5 cm, 6	10	Sharp	07 - 016
				07 - 017
			Blunt	07 - 024
				07 - 025
	Saddle hooks			
	Desmarres, 16 cm, 6 ¼			
		10	16 cm, 6 ¼ , 8 mm	07 - 035
			16 cm, 6 ¼ , 10 mm	07 - 036
			16 cm, 6 ¼ , 12 mm	07 - 037
			16 cm, 6 ¼ , 14 mm	07 - 038
			16 cm, 6 ¼ , 16 mm	07 - 039
			16 cm, 6 ¼ , 18 mm	07 - 040
Needle Holders	Lichtenberg	20	17 cm	792 - 237
	Mayo-Hegar	10	From MTN 10 - 086, 14, 5 cm, 5 ¾ until MTN 10 - 092, 30,5 cm, 12	
	Hegar-Baumgartner, TC-Gold	20	13 cm, 5 as mini pro- file	11 - 045
			14,5 cm, 5 ¾ as mini profile	11 - 046
	Mayo-Hegar, TC-Gold	10	From MTN 11 - 055, 16 cm, 6 ¼ until MTN 11 -063, 30 cm, 11 ¾	
	Masson-TC-Gold	10	26,5 cm, 10 ½ as standard profile	11 - 075
	Lichtenberg-TC-Gold	10	20 cm, 8 as normal- profile	11 - 127
	Deschamps			
		10	20 cm, 8	11 - 165
			20 cm, 8	11 - 166
			24 cm, 9 ½	11 - 157

			24 cm, 9 ½	11 - 158
			27 cm, 10 ½	11 - 167
			27 cm, 10 ½	11 - 168
		Overholt-Geissendoerfer		
	10	Fig 1, 19 cm		792 - 190
		Fig 2, 20,5 cm		792 - 191
	10	Haemostatic forceps, Hartmann	10 cm, Straight	792 - 160
Bone Instruments		Plaster shears, Stille Martin		
	10	23 cm, 9 as Spare Blade		12 - 010
		27 cm, 10 ¾ as Spare Blade		12 - 011
	10	Plaster-spreaders, Wolff	From MTN 12 - 026, 18 cm, 7 MTN 12 - 027, 26,5 cm, 10 ½	
	5	Amputation saw, charriere	35 cm	S 13 - 001
	5	Spare saw blades, charriere		S 13 - 002 until S 13 - 004
		Extension bows		
		Kirschner with 3 tractions hooks	From MTN 13 - 178, 95 x 70 mm until MTN 13 - 182, 200 x 155 mm	
	5	18,5 cm, 7 ¼ as Wire Strainer		13 - 177
		20 cm, 8 as Wrench		13 - 185
	5	Combi-flat nose plier with parallel grip	18 cm, 7	13 - 137
		17,5 cm, 7		13 - 144
	5	Wire cutting pliers for soft wire	17 cm, 6 ¾	13 - 151
	10	Soft bone wire	10 m	From MTN 13 -161, 0,8 mm until MTN 13 -165, 1,5 mm

Loupe	5	21 cm, 8 ¼	13 - 169
Chisel, osteotomes, gouges, stille	5	From MTN 14 - 068, 20 cm, 8 until MTN 14 - 077, 20 cm, 8	
Lexer	5	From MTN 14 - 110, 22 cm, 8 ¾ until MTN 14 - 121, 22 cm, 8 ¾	
Bone rasps	5	Putti, 27 cm, 10 ¾	14 - 204
		Semi round, 24,5 cm, 9 ¾	14 - 414
Bone curettes, Volk-mann, oval with plastic handle	10	From Fig.1 MTN 14 - 242, 18,5 cm, 7 ¾ until Fig. 3 MTN 14 - 252, 27,5 cm, 10 ¾	
Hohmannn, narrow tipp	10	From MTN 14 - 451, 22 cm, 8 ¾ until MTN 14 - 454, 25 cm, 9 ¾	
Wide tip with groove	10	From MTN 14 - 455, 23, 5 cm, 9 ¾ until MTN 14 - 458, 27,5 cm, 10 ¾	
Bone rongeurs			
Freidmann	5	13,5 cm, 5 ¾	14 - 543
Zaufal-Jansen	5	18 cm, 7	14 - 563
Stille-luer	5	22,5 cm, 8 ¾	14 - 578
Bone cutting forceps			
Ruskin liston	5	18 cm, 7	14 - 600
		18 cm, 7	14 - 601
Bone rongeurs, multiple action			
Beyer	5	18	792 - 342
Cleveland 4 A	5	17	792 - 335
Luer	5	15	792 - 340
Bone curettes, Volk-mann			
	15	000	792 - 400
		Fig 0	792 - 402

			Fig 1	792 - 403
			Fig 2	792 - 404
			Fig 3	792 - 405
Clamps	Towel clamps, ueers-Bertram-Modif wide jaw for tube fixation	30	15,5 cm, 6	05 - 349
	Backhaus			
		30	9 cm, 3 ½	05 - 345
			11,5 cm, 4 ½	05 - 346
			13 cm, 5	05 - 347
			16 cm, 6 ¼	05 - 348
	Tubing clamps, extra long ratchet			
		30	14 cm, 5 ½	05 - 360
			16,5 cm, 6 ½	05 - 361
Sterilization and Conservation				
	Konrich sterilizing drum, stainless steel			
		25	80 x 80	793 - 066
			120 x 120	793 - 068
	Lid with knob			
		25	165 x 85 x 35	793 - 038
			260 x 150 x 50	793 - 042
	Kidney tray	30	250 x 140 x 30	793 - 011
	Jar without lid			
		5	50 x 130	793 - 031
			75 x 175	793 - 035
Holloware (Stainless Steel Products)				
	Perforated tray	10	From MTN 01 - 001 20 x 10 x 14 cm until MTN 01 - 005, 40 x 20 x 5 cm	

Instrumental tray with lidd	20	From MTN 01 - 014, 10 x 15 x 2,5 cm until MTN 01 - 021, 23 x 15 x 5 cm	
Instrumental box w / books	20	From MTN 01 - 035, 17 x 7 x 3 cm until MTN 01 - 043, 50 x 20 x 12 cm	
Kidney tray shallow	15	From MTN 01 - 062, 17 cm until MTN 01 - 064, 24 cm	
Sterilizing drum	25	From MTN 01 - 081, 24 x 12 cm until MTN 01 - 091, 39 x 29 cm	
Wash basin	5	From MTN 01 - 111, 10 cm until MTN 01 - 113, 14 cm	
Dressing jar	5	From MTN 01 - 124, 3 x 3 until MTN 01 - 127, 6 x 6	
Cotton holder	15		01 - 173

Surgical dressing, combustion and scalding-material for 90 Days. MOBILE SURGICAL OPERATING and TENDING UNITS ASSEMBLY. Autonomy ISO 1 CC 20' Container

No.	Description of the consumables list	MTN-No.	Dimension	90 days
1.0	Sterile lint-compresses of gauze DIN EN 14079, 17-fibred, all cut edges inside			
1.1		13600	5 x 5 cm	250
1.2		13602	10 x 10 cm	250
1.3		13603	10 x 20 cm	250
1.4		13695	5 x 5 cm	250
1.5		13697	10 x 10 cm	250
1.6		13699	10 x 20 cm	250
2.0	Sterile lint-compresses 8-times put and especially suction-strong			
2.1		40646	5 x 5 cm	250
2.2		40649	10 x 10 cm	250

3.0	Sterile combustion-compresses of more-layer-y special-association-material, therefore consist of three layers from vacuum- aluminization, voluminous and needled fleece-material. Packs individually in the donor-carton			
3.1		23082	10 x 12 cm	250
3.2		23087	10 x 20 cm	250
4.0	Sterile hydro-gel compresses to the support of the wound-cleaning and cure with superficial necrotic wounds, combustions 2. Degree. The sore-page found, hydrophilic gel-layer nestles up well, moisture hands over at the wound, ideal moist milieu manages, the necrotic wound-parts will be dissolved, the will be picked up tissue-debris on that occasion by gel			
4.1		20471	10 x 10	250
4.2		20471	20 x 20	250
5.0	To the combustion or scalding belongs the hydro-amorphous gel to it as chilling effect to the pain-relief			
5.1		20478	6 g shot	10
5.2		20479	20 g shot	5
6.0	Sterile Hydrocolloid-bandage as individually liable wound-edition with good secretion-reception to the supply of combustions 2. degree as well as infected wounds. This Hydrocolloid-layer from sucks - and an ideal moist wound-climate manages source-capable particles and promotes the granulation and the epithelialism The secretion is picked up, that soaks hydrocolloid, on and adjusts itself the wound-structure optimally This gel-formation prevents a sticking together with the wound, the layer-change is painless through it. The bearer-foil protects from microorganisms and wetness, so that allows the gas-exchange surplus steam escapes			
6.1		20400	10 x 10 cm	100
6.2		20402	20 x 20 cm	100
7.0	Tampon-strips as fence-tulle, impregnate with hydrophobic, neutral vaseline salve-basis to the supply of flat cut - and combustion as well as. scalding-wounds. It favours the secretion-drain and provides good ventilation of the wound			
7.1		23315	10 x 10 cm	100
7.2		23315	10 x 20 cm	100
7.3		23315	10 x 30 cm	100

8.0	Sterile skin-friendly wound-layer with the sterile first-supply and for layer-changes with wounds of all the type and OP's with high suction-fortunes out of polyester / viscose, the wound-cleaning is accelerated by it, doesn't stick together, however			
8.1		30510	7 x 5 cm	100
8.2		30511	10 x 8 cm	100
9.0	Sterile band-aid-strips with high glue power, from fleece-reinforced Polyurethane, clinging, rice-firmly and doesn't lengthen, with skin-friendly polyacrylate glue coats to the seamless and steady wound-shutter. Sealed to 5 & 10 pieces			
9.1		30058	3 x 75 mm	100
9.2		30056	6 x 100 mm	100
10.0	Skin-glue for the skin-shutter, fast and agreeable wound-shutter for superficial skin-slice and skin-rips. No necessity of the local- anaesthesia 1 ampoule contains 0,5 ml			
10.1		55146	6 x 12	10
11.0	Disinfectant: Alcoholic solution to the skin-disinfection, fast action-admission, blue, works against bacteria (incl. TBC), fungi, Rotaviruses and lipophile viruses including HBV and HIV. Effecting time 15 sec, long-time and depth-effect. Skin-friendly pH of 65 For skin-desinfection before the transaction of the OP:			
11.1		53555	1 l blue alcoholic solution x 1	20
11.2		51340	5 l blue alcoholic solution x1	5
12.0	Skin-cream to the care and support of the regeneration extremely incriminated hands and skin of hand-disinfection			
12.1		41008	1 x 50 ml	10
13.0	Instrument-end-infection and cleaning: To the aldehyde-free disinfection and cleaning for instruments of all the types. Also instruments of aluminium, plastic or rubber been suitable. Effective against bacteria (incl. TBC), fungi, Rotaviruses and lipophile viruses including HBV, HCV and HIV. Mild scent. No additional cleaning-intensifier necessary			
13.1		51412	1 x 5 l canister	30

14.0	Threads: Monofilamentous, resorbable, synthesis-thread and undyed. Smooth surface. High rip-solidity. Sure knot-glide-qualities. Minimal Tissue-reaction and saw-effect. Reabsorption-time 90 - 120 days For skin and intracutane wound-supply. Needle: 3 / 8 as circle cutting with accuracy-top. Thread-strength 4 / 0 in 3 / 0 and 45 cm			
14.1		551404	36 x 1	50
14.2		55401	36 x 1	50
14.3		55403	36 x 1	50
14.4		44097	36 x 1	50
14.5		46195	36 x 1	50
.	For facie and mucous membrane. Needle: 1 / 2 as circle flat round-body-needles Thread-strength 3 / 0 in 2 / 0 and 70 cm			
14.6		48174	36 x 1	50
14.7		44702	36 x 1	50
14.8		48175	36 x 1	50
14.9		53819	36 x 1	50
	Pro-Lene, not-resorbable, blue and synthesis-thread. Smooth surface. High rip-glide-quality. Sure knot-glide-quality. Minimal tissue-reaction and saw-effect. Reabsorption- time 90, 120 days For skin and intracutane wound-supply. Needle: 3 / 8 as circle cutting with accuracy-top Thread-strength 6 / 0 in 2 / 0 and 45 cm			
14.1		54328	36 x 1	50
14.2		55175	36 x 1	50
14.3		53207	36 x 1	50
14.4		55210	36 x 1	50
14.5		55177	36 x 1	50
14.1		55199	36 x 1	50
14.2		40098	36 x 1	50
14.3		55209	36 x 1	50
14.4		55208	36 x 1	50

15.0	Sterile, elastic, fleece-material and 100 % polyester wound-layers for all wounds from finely voluminous wound-edition with high suction-fortune out of polyester. It lets secretion diffused stuck not together into the well sucking part, fastens the wound-cleaning, and influences the cure-process positively through secured wound-silence. Reliable all around-shutter through especially well adhesive, skin-friendly polyacryle-glue			
15.1		30504	7 x 5 x 5	25
15.2		30505	10 x 8 cm x 5	25
16.0	Not-sterile swabs from cellulose in the clear-view-donor			
16.1		13349	1 role, 5 x 4 cm 300 swabs	150
17.0	Skin-coloured elastic Injection-Band-Aid-slices of the role (donor-carton), water and filth-rejects and individually hygienically one-sealed and out of rosin polyacrylate-glue			
15.1		30625	250 sections, 2 x 4 cm 1 cartons	25
18.0	Not-sterile lint-compresses, 8-fold and especially suction-strong			
18.1		40660	5 x 5 cm, 100 pcs	50
18.2		46644	10 x 10 cm, 100 pcs	50
19.0	Not-sterile loop-gaze-swabs of gauze DIN EN 14079, 20-fibred, from a lint-cut machine-manufactured, with protection-ring without x-ray-contrast-thread to the blood and secretion-reception, to the wound-cleaning and also to the skin-disinfection		Plum-big, 1000 pieces	50
19.1		15176	Plum-big, 1000 pieces	50
20.0	Porous glue-lint to the full-flat fixation of the bandage, stretch and white coloured			
20.1		51177	1 roles, 10 m of x 10 cm	50
20.2		52892	1 roles, 20 m of x 20 cm	50
21.0	Not-sterile fingers-tall as finger-bandage to the fixation of wound-editions as well as to the cover of surgically looked after wounds out of cotton and viscose			
21.1		24081	50 pieces in the carton	50

22.0	Not-sterile gauze DIN EN 14079 80 cm of weave-spread put 8-times on 10 cm of width, rolled, in the clear-view-donor			
22.1		12004	Role-length 5 m, 1 pieces	50
22.2		12005	Role-length 10 m, 1 pieces	50
23.0	Not elastic tape-bond, very much move-solid, crosswise and alongside tear-able, with well adhesive Zinc oxide-rubber glue. The jag-edge eases the removal, avoids edge-threads and lets bandage-tours be liable well one on top of the other			
23.1		30081	10 m, 2,5 cm of diameter, 6 pieces	150
24.0	Elastic fixation bandage as gripping, stable, porous and unlined supple bandages			50
24.1		43197	In the carton 4 m of lengthened length, 4 cm, 50 pieces	50
24.2		51190	In the carton 4 m of lengthened Länge, 10 cm, 50 pieces	50
25.0	Duration-elastic bandages as fixation-bandages for extremities with compressing wound-supply or as rail-associations to the supports and unburdens. They have particular lengthening-behaviour and nestle all body-forms with lasting seat well for itself. The fine tissue is permeable and skin-amicable through her / its / their cotton			50
25.1		19492	In the carton, 5 m of lengthened length, 10 cm, 10 pieces	50
25.2		19494	In the carton, 5 m of lengthened length, 15 cm, 10 pieces	50

26.0	Not-sterile net-bandage as wide-stitched, high-elastic net-pants to the simple and timesaving fixation from wound-editions of all types after its surgical supply 25 m and folded in the donor-carton			50
26.1		24253	For head, 1 pieces	25
26.2		24252	For extremities, 1 pieces	25
26.3		24254	For torso, 1 pieces	25
27.0	Not-sterile pant-bandage from seamless and knitted material to the fixation of compresses with surgically looked after wounds 20 m long and packs in the piece			25
27.1		24004	For arm, 1 roles, 6,5 cm	25
27.2		24005	For leg, 1 roles, 8,5 cm	25

Quotation

Prices, payment and delivery conditions (Preise, Zahlungsbedingungen und Lieferbedingungen)

Item	Description	Qty	Remarks
1	Multiuse Containers ISO 1 CC 20' Container	3	as described
2	TATRA Truck	2	as described
3	Tent with medical and non medical equipments inventory	1 + see list	as described
Containers and Tent Manufacturer (Hersteller)		European Union	

Products Manufacturer (Hersteller)	Different countries (Great Britain, Germany, France, China, Indonesia, India and Pakistan)
Net value (Nettowarenwert)	3.950.000,00 € Euro
Discount (Nachlass)	00,00 € Euro
VAT amount in % (MwSt. in %)	Not included
VAT amount (MwSt. Betrag)	00,00 € Euro
Total amount (Gesamtbetrag)	3.950.000,00 € Euro
Payment (Bezahlung)	Prepayment (100 %) - P / P - (100 % auf MTN-Konto)
Expiration of the proforma invoice validity deadline (Angebot endet spätestens zum)	31. December 2018
Delivery time (Lieferzeit)	210 - 360 days after receipt of the full payment
Delivery (Lieferung)	Ex Work or Tax Free Zone (is ready for transport on own axles). The third container have to be loaded on trailer (Truck Trailer must be purchased for that) See the short review of sale and delivery conditions
Delivery conditions (Lieferbedingungen)	Fixed in special Agreement paper
Warranty (Garantie)	Two years
Proforma Invoice (Proforma Rechnung)	
Invoice (Rechnung)	when ordering
Ordering designation (Bestellungsbezeichnung - MTN)	BRD-RB-MMCS-SATU-100-FP0517
Customer number (Kunden-Nr.)	

The offer includes

The container workplaces as described above
 The quality inspection report
 CSC label for container
 Training of staff Ex Work or in Tax Free Zone in Germany

The offer does not include

Transportation

Short review of sale and delivery conditions (Terms and Conditions)

When our offer is quoted in USD the goods are to be delivered EXW = Ex-Works behind the gate of the production site and is subject to our standard terms and conditions. When our offer is quoted in USD, it means the price can not be fixed for all the validity time of the offer - due to invoicing according to daily rate (EUR / USD)

If the products (various components) mentioned in the offer are not included in the scope of delivery for any reason, the MTN is allowed to deliver new models products without rejection from the customer side

If the two trucks, platforms and the trailer are not available in the agreed delivery time, the MTN is obliged to repay the price of this three products or a maximum of 600.000,00 euro to the buyer (the MTN is responsible for this point of decision)

The quantity of goods depends of their availability. Medical Trade Network and there partners can supply these goods to any country but the customer must ensure that they are

able to comply with local customs procedures and requirements. It means that all products are supplied under the strict condition that the final recipient is licensed to receive these products. The customer is liable for the purchases were appropriate, they must eventually request a permit by German Federal Bureau of Economics and Export Control BAFA*) to deliver such goods to the target territory. The customer is liable in eventual export ban against the authorities of the Federal Republic of Germany and / or the European Union, where such offenses the export to the country of destination. Medical Trade Network and his partner enterprises does not accept any liability for goods impounded, confiscated, destroyed or refused to entry into any country through lack of compliance with regulations or failure to obtain an import license or pre-shipment inspection. Cancellation of orders after 24 hours of confirmation, Medical Trade Network and his partner enterprises will charge a restocking fee of 45 % of the order volume. By deviations of Mobile Hospital sketches and the content of Medical and Non-Medical equipments of the Mobile Hospital Containers in the proforma invoice and by the final product these are caused by production shortfalls. in the manufacturing factories; because we want decline any collateral damage of the products function capabilities. When ordering low quantities of medical products, the MTN is not able to supply customers with own MTN-OEM goods but these can be obtained by our partners from different countries

If the medical devices in the Offer for any one reason are no longer manufactured, the MTN is obligated to find for the buyer suitable devices but in the new version. For the purchase of Mobile Hospitals, medical equipment or parts, the buyer bears the responsibility or liability which may arise therefrom and the importation of these goods in any country. Delivery times do not include the European holidays

Changes in this signed offer are only valid after written agreement and signature of the two parties (the seller and the buyer)
