PT. ENDO INDONESIA

ENDO INDONESIA was founded in 2006 as a company engaged in importation and distribution of Medical Devices. Today, among many others, our product portfolio consists of Electromedical Devices, Instruments, Disposables, Orthopaedic Implants, and accessories.

Our Vision
"Improving health care of Indonesian society by providing good quality products at affordable prices."

Our Mission
"Consistent development and continuously increasing employee's well-being while maintaining integrity in daily routines."

Our Value

- **Improving Healthcare**
  Providing high quality products at affordable prices

- **Qualified Personnels**
  Experienced staffs in their respective fields

- **Networking**
  Through doctors, hospitals, distributors, resellers

- **Fast Delivery**
  Most products are ready in stock
OUR PRINCIPALS

- Eternity
- Zerone
- Inventis
- Mindray
- Sonoscape
- Rayto
- MIR
- AMP
- SBM
- LEMKE
- METsis
- Tontarra
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## Medical Recording Chart Paper

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OUR PRINCIPALS
Life Point Pro AED
Automated External Defibrillator

Life Point bPLUS AED
Automated External Defibrillator

**Specification**

- **Operating mode**: Automatic
- **ECC analysis period**: typically < 10 saniye
- **Energy steps**:
- **Motion detector**
- **Maximum discharging**: typically 200 shocks (at 20 °C with full battery)
- **ECG bandwidth**: 2 - 25 Hz
- **Self test schedule**: weekly, monthly, each start
- **Dimensions**: 9.5 x 27 x 24 cm
- **Class (93/42/EEC)**: II B
- **Storage Conditions**: between -20°C and 60°C
- **Data transfer**: metsis AED software (USB/SD Card)
- **Charging time at max joule**: typically < 10 saniye
- **Wave form**: truncated biphasic wave form
- **Pace maker detection**
- **Impedence measurement**: 25 - 100 ohm
- **Derivation**: DII
- **Battery type**: LiMn02 (15V 3000mA)
- **Self test scope**: battery, internal electronics, software
- **Weight (battery include)**: 1730 gr
- **Operating conditions**: 0°C - 50°C ve % 10 - % 95 RH
- **Data documentation**: ECG signal, event, voice record
- **Minimum computer requirement**:
  - Windows XP - Windows Vista - Windows 7 Pentium or higher VGA Monitor or higher CD-ROM Driver USB Port 2 Gb Free Disk Space

**Specification**

- **Operating mode**: Automatic
- **ECC analysis period**: typically < 10 sec
- **Energy steps**:
  - adult 150J - 200J / child 50J - 50J - 50J
- **Motion detector**
- **Maximum discharging**: typically 200 shocks (at °C with full battery)
- **ECG bandwidth**: 2 - 25 Hz
- **Self test schedule**: each start, daily, monthly, each 6 months
- **Dimensions**: 11 x 23 x 27 cm
- **Class (93/42/EEC)**: II B
- **Storage Conditions**: between -20°C and 60°C
- **Data transfer**: metsis AED software (mini USB)
- **Charging time at max joule**: typically < 10 sec
- **Wave form**: truncated biphasic wave form
- **Pace maker detection**
- **Impedence measurement**: 25 - 175 ohm
- **Derivation**: DII
- **Battery type**: LiMn02 (12V 4500mA)
- **Self test scope**: battery, hardware, software, capacitor disposable pad (configurable)
- **Weight (battery include)**: 2950 gr
- **Operating conditions**: 0°C - 50°C ve % 10 - % 95 RH
- **Data documentation**: ECG signal, event, voice record
- **Minimum PC requirement**:
  - Windows XP - Vista - 7 Pentium or higher VGA Monitor or higher CD-ROM Driver USB Port 2 Free Disk Space
Anesthesia Machine
ENDO Anesthesia Machine AM3

Physical Specification
- Dimension: L600 * W740 * H1368 mm
- Weight: 120 kg
- Screen: 12 inch TFT touch screen
- Casters: 10cm diameter, with individual locking brakes at front casters

Electronic Specification
- Power supply: AC100~240V+-10%, 50/60Hz+-1%
- Battery backup: 4 hours
- Power consumption: <= 75 VA
- Top Light

Vaporizer
- Dual positions
- Mounting: tool-free installation selectatec compatible with interlock
- Agent type: Sevoflurane, Halothane, Isoflurane, and Enflurane
- Filling type: Pur-fill, Easy-fill, and Quick-fill

Features
- CE marked, meet EU clinical requirements
- Contemporary and ergonomic designed for ease of use
- Pull handle
- DIN rail at both side of machine allows for flexibility and ease of mounting patient monitor and other expansion medical devices
- Optional integrated auxiliary O2 flowmeter and suction control
- AGSS (Anesthesia Gas Scavenging System) is optional
- Electronic displayed flowmeter
- Applicable to infant, pediatric and adult
- Driven gas can be oxygen or air. Save running cost of oxygen

Integrated CO2 Absorber System
- Highly integrated design - fewer parts and connections reduces potential for leaks and misconnects
- Ease of disassembly (no tools required)
- Easy for cleaning, autoclavable in 134°C to avoid cross-infection (except for O2 sensor and gauge), latex free
- One step bag / vent switch turns the ventilator on / off
- Automatic CO2 absorber by pass
- AGCO

Alarms
- 3 level visible audible alarm
- High and low limitation for: pressure, minute volume, breathing rate, FiO2, tidal volume, SpO2 (optional), pulse (optional), EtCO2 (optional), apnea time, sustained airway pressure, alarm mute, AC off, battery low and exhausted, alarm log, alarm silence
Anesthesia Machine
ENDO Anesthesia Machine ANM2

Physical Specification
- Dimension: L880 * W800 * H1580 mm
- Weight: 120 kg
- Screen: 8.4” TFT screen
- Casters: 10 cm diameter, with individual locking brakes at front casters

Electronic Specification
- Power supply: AC100~124V+-10%, 50/60Hz+-1%
- Battery backup: 1.5 hours
- Power consumption: <= 75VA
- Top light, Backlight for flowmeter

Vaporizer
- Dual positions
- Mounting: Tool free installation selectatec compatible with interlock
- Agent type: Sevoflurane, Halothane, Isoflurane and Enflurane
- Filling type: Pour-fill, Easy-fill and Quick-fill

Features
- CE marked, meet EU clinical requirements.
- Contemporary and ergonomic designed for ease of use.
- Pull handle
- DIN rail at both side of machine allows for flexibility and ease of mounting patient monitor and other expansion medical devices
- AGSS (Anesthesia Gas Scavenging System) is optional
- Applicable to pediatric and adult

Integrated CO2 Absorber System
- Compact design for closed, semi-closed and semi-opened circuit
- Ease to disassemble and assemble all components
- Convenient to clean and maintain
- Integrated Adjustable Pressure Limited (APL) Valve

Ventilator
- 8.4 inch TFT screen for easy review
- Navigation wheel + key pad for simple operation
- “Choose-set-confirm” to realize function and avoid mis-operation
- One key presses to total Standby mode; end case
- Easy of use, full range ventilator with mechanical ventilation modes, spontaneous ventilation modes and electronic, support a variety of patients
- World leading brands of flow sensors, differential pressure sensors, pressure regulating valves and proportional valves to ensure accurate ventilation
- Smart alarm notification direct user to specific problems and affected parameters
- Pressure and volume waveforms on a breath by breath basis
- Audio and visual alarms with three levels
- One key presses to total Standby mode: end case
Anesthesia Machine
Eternity AM831

**Physical Specification**
- Dimension: 1350mm (H)*560mm (W) *620mm (D)
- Weight: 85 kg
- Display: 4.2 inch LCD screen
- Casters: Four anti-static casters with diameter 100mm, the front two are with brakes

**Electronic Specification**
- Power input: 100~240V, 50/60 HZ
- Power Consumption: <= 50VA
- Top light
- Backlight at flowmeter

**Monitoring & Alarm**
- Tidal volume: 0~2000ml
- Pressure: -2~10Kpa
- Frequency: 0~120bpm
- Waveform: P-T
- Alarm Upper airway pressure limit
- Alarm Lower airway pressure limit

**Vaporizer**
- One or Dual positions
- Mounting: Fixed or tool-free installation Selectatec manifold interlocks and isolates vaporizers
- Agent type: Sevoflurane, Halothane, isoflurane and Enflurane
- Filling type: Pour-fill, Easy-fill, Quick-fill or Key-fill

**Ventilator**
- Type & Drive mode: Integrated Electronically-controlled pneumatically-driven ventilator
- Patient: Pediatric and adult
- Ventilation mode: IPPV, IPPB, SIGH, MANUAL / Spontaneous
- Tidal Volume: 50~1500ml
- Frequency: 0~100bpm
- I:E ratio: 1:10~10:1
- Pmax: 8Kpa, Pmin: 0~2Kpa
Anesthesia Machine
Eternity AM832

**Features**
- More accurate, Safer and More Convenient
- CE marked, meet EU clinical requirements
- ISO quality guarantee
- Suitable for adult and pediatric
- Pin-Index for N2O/O2 Cylinder
- Integrated high temperature sterilization and CO2 absorber system
- Newly-developed reliable gas system

**Physical Specification**
- Dimension: 1350mm (H) * 560mm (W) * 620mm (D)
- Weight: 85 kg
- Display: 5.6 inch LCD screen
- Casters: Four anti-static casters with diameter 100mm, the front two are with brakes

**Electronic Specification**
- Power input: 100~240V, 50/60 Hz
- Power Consumption: <= 50VA
- Top light
- Backlight at flowmeter

**Monitoring & Alarm**
- Tidal volume: 0~2000ml
- Pressure: -2~10Kpca
- Frequency: 0~120bpm
- Waveform: P-T
- Alarm Upper airway pressure limit
- Alarm Lower airway pressure limit

**Vaporizer**
- Mounting: Fixed or tool-free installation Selectatec manifold interlocks and isolates vaporizers
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- Type & Drive mode: Integrated Electronically controlled pneumatically driven ventilator
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- Frequency: 0~100bpm
- I:E ratio: 1:10~10:1
- Pmax: 8Kpa, Pmin: 0~2Kpa
Audiometer
Bell Plus

The Display
- The key feature of the Bell audiometer is its large, bright graphic color display, on which you can view the complete audiogram during the examination.

Portable System
- Bell is the ideal choice of audiometer for users who need a portable instrument. Despite its practical keyboard and generous display, Bell is extremely compact and lightweight and easy to carry in its dedicated case.

Noah & Daisy Integration
- Simply connect Bell to a USB port on your computer (no driver needed), and you can transfer exam results into Daisy or Noah database. And with the live view feature, you can have a wide view of the examination in progress on the computer display.

Technical Data
- Intensity AC : -10 to 120 dB HL, BC : -10 to 80 dB HL
- Frequency range : 125 - 8000 Hz (12.5 kHz available with HDA-280 headsets)
- Input : tone, warble tone
- Masking : WN (Plus), NBN
- Output : AC L+R, BC (Plus), insert masking
- Talk over : built-in or external microphone
- Display : colour display, 95 x 54 mm, 482 x 272 px
- Test Battery : pure tone audiometry, Autothreshold
- Data storage : internal memory for 100 patients
- PC interface : USB
- Compatible SW : inventis Daisy or Noah with dedicated module
- Dimensions : 32 x 32 x 9 cm / 12.6 x 12.6 x 3.5 in (LxWxH)
- Weight : 1.8 kg / 4.0 lbs
- Classification : Class IIa (MDD 93 / 42)

“Basic” Model : The Screener
- The Basic model is designed for use in occupational medicine and allows users to perform manual and automatic air conduction audiometry examinations at frequencies from 125 Hz up to 12.5 kHz (with a Sennheiser HDA-280 headset) with masking.

“Plus” Model : The Basic Diagnostics
- The Plus model can perform bone conduction audiometric examinations in addition to air conduction exams.
The Display
- Harp features a large, bright graphic colour display, on which you can view the complete audiogram during the examination.

Technical Data
- Intensity AC : -10 to 120 dB HL, BC : -10 to 80 dB HL
- Frequency range : 125 - 8000 Hz
- Input : tone, warble tone, external source (tape, CD) 1-2, mic, flash memory (only in Plus model)
- Masking : NBN, WN, SN
- Output : AC L+R, BC, FF L+R, insert masking
- Talk over : built-in or external microphone
- Monitor : built-in speaker or ext. headset or speaker
- Display : colour graphical display, 95 x 54 mm, 480 x 272 px
- Test Battery : speech audiometry, Autothreshold, ABLB. Only in Plus model : SISI, DLI, tone decay, stenger, Master Hearing Aid
- Data storage : internal memory for 100 patients
- PC interface : USB
- Compatible SW : inventis Daisy or Noah with dedicated module
- Dimensions : 32 x 32 x 9 cm / 12.6 x 12.6 x 3.5 in (LxWxH)
- Weight : 1.8 kg / 4.0 lbs
- Classification : Class IIa (MDD 93 / 42)

Portable System
- Despite its top-level features, Harp is ultra-compact and easily transportable. It even comes with a dedicated carrying case (optional).

The Models
- Harp is available in two configurations to suit different user needs : Basic and Plus.

The Tests
- Besides standard audiometry exams
  Harp also performs Hughson - Westlake automated audiometry, speech audiometry and ABLB exams. The “Plus” model also performs SISI, Stenger (pure tone and speech), DLI and Tone Decay tests and includes a 2 channels Master Hearing Aid.

Embedded Speech Material
- No more CD Player headaches! Harp Plus features an integrated 2 GB flash memory for storing your speech material. Dedicated buttons allow you to access word lists with ease. The screen also displays the word currently being pronounced.

Noah & Daisy Integration
- Simply connect Harp to a USB port on your computer (no driver needed), and you can transfer exam results into Daisy or Noah database. And with the live view feature, you can have a wide view of the examination in progress on the computer display.
Audiometer
Piano Plus VRA

The Audiometer

- Piano is the top-level audiometer in our portfolio. Besides the pediatric audiometry, Piano Plus VRA features a complete test battery, including the High Frequency audiometry. Big color display with touch screen, internal memory for the speech material, great flexibility, extreme simplicity, all this makes Piano a super high-end audiometer, perfect for the most demanding users.

Technical Data

- Channel: two separate and identical channel
- Intensity: AC: -10 to 120 dB HL. BC: -10 to 80 dB HL. AC HF: -20 to 90 dB HL
- Frequency range: 125-8000 Hz, 8-20 kHz
- Frequency resolution: multi-frequency with programmable steps
- Input: tone, warble tone, external source 1 and 2, mic, internal flash memory
- Masking: NBN, WN, SN
- Talk Over: built-in or external microphone
- Monitor: built-in speaker or ext. earphone or speaker
- Display: colour display with touch screen, 150 x 90mm, 800 x 480 px
- Test battery: Autothreshold, ABLB, tone decay, SISI, DLI, MLB, Stenger, Master Hearing Aids Multo Frequency, High Frequency, Bekesy, MLD, Pediatric audiometry (VRA and CPA tests)
- Printer: optional integrated thermal paper
- PC interface: USB
- Compatible SW: inventis Daisy or Noah with dedicated module
- Dimensions: 32 x 32 x 15cm / 12.6 x 12.6 x 5.9 in (LxWxH)
- Weight: 2 kg / 4.4 lbs
- Classification: Class IIa (MDD 93/42)

Traditional VRA

- You can turn Piano into a traditional VRA System by adding up to three toy cabinets, connected directly to the audiometer. Toy cabinets are powered and controlled directly from Piano.

Video VRA

- Piano Plus VRA lets you built a video-VRA system with unlimited possibilities for customizing the images and videos used as reinforces, and enables you to create an advanced VRA system that can capture a baby’s attention for a longer time. All you need to do is connect Piano Plus VRA to a standard computer and install the Daisy VRA module. Up to three displays can be controlled to provide reinforces.

Video VRA

- Piano Plus VRA lets you built a video-VRA system with unlimited possibilities for customizing the images and videos used as reinforces, and enables you to create an advanced VRA system that can capture a baby’s attention for a longer time. All you need to do is connect Piano Plus VRA to a standard computer and install the Daisy VRA module. Up to three displays can be controlled to provide reinforces.
Defibrillator

- Defibrillator is a device used to perform defibrillation for the purpose of turning abnormal ECG rhythm into normal rhythm. When heart enters into ventricular fibrillation, the process of returning it to its normal sinus rhythm by giving proper amount of external electric current is called defibrillation, and device used in giving such electric current is called defibrillator. Should electrical energy is given in the form of shocks, it creates stimulation namely, myocardium is depolarized and systole occurs. To give shock to heart by means of defibrillator, heart should be in ventricular fibrillation or ventricular tachycardia rhythm without pulse.

Specification

- Wave form: Biphasic
- Energy selection:
  2-3-5-7-10-20-30-50-100-150-200-250-270
- ECG filters: monitor I, monitor II, strong surgery diagnostic
- Monitor resolution: 800 x 480
- Monitoring speed: 25-50 mm/sec (ETCO2 6,25 - 12,5 mm/sec)
- Printer speed: 25 - 50 mm/sec
- Max. discharging: 200 (with full battery)
- Working conditions: 0/40 °C and %30-95 Rh
- Dimensions: 330 x 314 x 175 mm
- Main supply voltage: AC 220V 50-60 Hz
- Operating mode: manual / AED / synchronous
- ECG derivations: DI DII DIII AvL AvF V1..V6
- Heart rate alarm limits: 0 - 300 bpm
- Monitor type: color TFT LCD
- Monitor size: 7 inch
- Printer type: thermal printer
- Paper size: 50mm x 30m
- ECG monitoring time: 4 hours (with full battery)
- Storing conditions: -20 / +55 C
- Weight: 5 kg include battery
- Optional: SpO2, NIBP, EtCO2, Paddle Trolley, Ambulance Bracket Pace Maker
**Features**

- Folding LCD, waveforms display, parameters configurable
- High-resolution thermal printer
- Built-in rechargeable lithium battery, AC/DC power supply
- Well designed membrane keyboard
- Input/Output port
- Complete digital filtering, avoiding baseline drift, AC, EMG interference
- Automatic baseline adjustment to optimize printing position
- Auto/Manual operation selectable
- Lead-Off detection and alert

**Technical Specifications**

- Lead: Standard 12 leads
- Acquisition mode: Single
- Sensitivity: 2.5, 5, 10, 20, mm/mV
- Input impedance: > 50 MOhm
- Filter:
  - EMG Filter 35 Hz (-3 dB)
  - AC/DFT Filter 50 Hz / 60 Hz (-20 dB)
- Recording mode: Auto / Manual
- Rhythm lead: Any lead selectable
- Safety standard: IEC I/CF
- Power supply:
  - AC 100 V - 115 V / 220 V - 240 V, 50/60 Hz
  - Rechargeable Li-ion battery: voltage 14.8 V
- More than 3 hours continuous operation with battery supply
- Thermal paper: 50 mm x 30 m
- Paper speed: 25 mm/s, 50 mm/s (± 3%)
- Dimension: 300 x 260 x 75 mm
- Weight: 2.3 kg with battery included
- Display: 192 x 64 pixels LCD
- Selectable display language: GB, IT, FR, ES, PL, RU, TR, UA
- Interface: RS 232
ECG 3 Channel  
ENDO ECG-3

User Friendly Design

- Foldable LCD screen, vivid waveform display
- Built-in rechargeable Li-ion battery, AC/DC power supply

Flexible Printing Solutions

- Built-in high resolution thermal paper
- Grid printing on normal thermal paper
- 12 lead grid printing on normal A4 paper through external printer

Streamlined Workflow

- Support barcode scanner to simplify patient information input
- One-button operation
- Auto / manual / rhythm / off work modes
- Automatic baseline adjustment
- Lead-off detection and alarm

Data Management

- Internal storage up to 500 ECGs and can be enlarged by USB flash disk
- LAN / RS232 / USB connection to PC data transmission to PC via series port / LAN / USB
- Report formats: PDF and optional SCP / FDA-XML / DICOM data export
- PC based ECG data management software (optional)

Accurate Clinical Performances

- 12 lead simulations acquisition with optimal 24-bit A/D converter.
- Anti noise technology with comprehensive filters and the high CMRR over 121dB (optional)
- Automatic ECG measurements and interpretation tested with CSE / AHA / MIT databases
- Complete digital filters, resisting baseline drift, AC and EMG interference.
- Extended printing once arrhythmia is detected to further your rhythm analysis.
ECG 12 Channel
ENDO ECG-12

User Friendly Design
- 7” high resolution color touch screen
- Alphanumeric keyboard

Streamlined Workflow
- One touch operation
- Support barcode scanner to simplify workflow

Accurate Clinical Performances
- Weak signal detection with the advanced 24 bit A/D converter technology
- Anti noise technology with comprehensive filters and high CMRR over 121dB
- 120s real-time ECG waveform freezing and review to assist diagnosis
- Automatic measurements and interpretation tested with CSE / AHA / MIT databases
- Extend printing once arrhythmia is detected for further rhythm analysis

Flexible Printing Solutions
- Built-in high resolution thermal recorder
- Support external USB printer

Data Management
- Internal storage up to 500 ECGs and can be enlarged by USB flash disk and SD Card
- Smart ECG viewer software for data management on PC (optional)
- Data transmission to PC via series port / LAN / internal Wi-Fi
- Smart ECG viewer software for data management on PC (optional)
- Report formats: PDF and optional SCP / FDA-XML / DICOM data export
**User Friendly Design**

- Separated leadwires
  - Separated ECG leadwires makes it easy to plug or unplug any single lead, which helps save your service cost
- Color coded leads
  - Color coded leads conduct clinicians to quickly find the right lead wires
- ECG signal quality indicator
  - Quickly identify the poor or missing ECG signals by visual color coded indicators
- One touch button
  - One touch button on the sampling box enables to start or stop ECG acquisition without going to PC side.

**Professional Performances**

- The sampling rate is as high as 16,000 Hz. Combining with ENDO’s advanced 24 bit A/D converter, it enhances accurate ECG waveforms acquisition.
- The high CMRR over 140dB and comprehensive filters ensures clear waveforms for viewing and reporting
- The wide bandwidth 0.01-300 Hz enables pediatric ECG diagnosis more accurate according to AHA 2007

**Features**

- Intuitive interfaces
- Long time ECG sampling
- Manual diagnosis
- Leads reversal
- ECG reports comparison
- The editable ECG report
- Unlimited protocols for stress test
- The reliable SEMIP algorithm
- Proof for diagnosis
- Automatic arrhythmia detection
- Event mark
- Advanced filter technology
- Complete evaluation methods for stress test

**Powerful Functionality**

- Resting ECG
  - ENDO PC-ECG-1 is able to acquire as long as 30 min ECG waveforms both of standard 12 leads and 15/16 leads, and also allows you to store full disclosure data.
- Stress ECG
  - ENDO PC-ECG-1 stress function provides standard as well as unlimited user defined stress protocols which enable your stress tests more flexible.
- Data Management
  - ENDO PC-ECG-1 is able to archive reports from standalone ECG machines and provides clinicians on-screen ECG measurements to conduct a paperless workflow.
ELECTROMEDICS

ZErone

Electrosurgical Unit (ESU)
Zeus - 400 Upgraded Version

Features

• 10 storage are available by using user storage function.
• 2 (two) monopolar handpiece can be connected to the device.
• Bipolar cut function is available.
• A display window allows you to easily check output value, indicated as digits.
• Unit provides various functions that are required to perform an operation as functional cut mode (Pure cut, Blend1, Blend2, Blend3)
• Coagulation Mode (Spray coagulation, Contact coagulation)
• Bipolar coagulation mode by hand or foot
• Bipolar cut (only available in ZEUS upgraded version)
• Each working condition can be checked by sound and indication lamp.
• Hand bipolar (Auto bipolar) can be checked only by contacting forceps.
• Unit output strong and stable power by Micro processor.
• Input power frequency is automatically detected.
• A fuse which is built in a power circuit board prevents over current from flowing through the equipment.
• When the plate attached to the patient is disconnected, red alarm light begins flickering.
• REM (Return Electrode Monitoring) function monitors the size of contacting area between a patient and the pad.
• If size is inappropriate, it automatically blocks the high-frequency current to minimize the danger of burning incident.
• To protect a patient, the case is fully grounded so that a leakage current can flow into the earth.

Application

• General Surgery
• Urology
• Dermatology
• Orthopedics
• Vascular Surgery
• Oral Surgery
• Gynecology
• Plastic Surgery
• ORL/ENT
• Endoscopy
• Pediatric Surgery

Specifications

• Main Frequency : 400, 500kHz
• Power Source : AC120V or AC230V, 50Hz / 60Hz
• Protection class : Class 1, Type CF
• Dimension(WxDxH mm) 330x455x150
• Weight : 13.0Kg
Electrosurgical Unit (ESU)
Zeus Vision

Features

- Color Graphic User Interface: Wide TFT LCD mount, clean and sharper image quality, unlike the existing electricity and the innovative new UI configuration operation.
- Best Safety with Feedback System: REM (Return Electrode Monitoring) function monitors the size of contact area between a patient and the pad. If the size is inappropriate, it automatically blocks the high-frequency current to minimize the danger of burning incidents.
- All Touch Screen System & Key: Touch screen system through the implementation easier and faster with a parameter setting, external key management can be the same as a touch screen.
- Diversity of Feature Bipolar Bipolar Cut, Bipolar Blend, Bipolar Forced to add features to implement more up-grade the optimal system.
- 10 storage are available by using user storage function.
- 2 (two) monopolar handpiece can be connected to the device.
- Bipolar cut function is available.
- A display window allows you to easily check output value, indicated as digits.
- Each working condition can be checked by sound and indication lamp.
- Hand bipolar (Auto bipolar) can be checked only by contacting forceps.
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Application

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- Urology
- Dermatology
- Orthopedics
- Vascular Surgery
- Oral Surgery
- Gynecology
- Plastic Surgery
- ORL/ENT
- Endoscopy
- Pediatric Surgery

Specifications

- Main Frequency : 400, 500KHz
- Power Source : AC120V or AC230V, 50Hz / 60Hz
- Protection class : Class 1, Type CF
- Dimension(WxDxH mm) 388x410x160
- Weight : 12.5Kg
Fetal Doppler
ENDO FD-1

Description
- SonoTrax fetal doppler series ultrasonic pocket dopplers superior, sensitivity, high-fidelity sound, recording option and optional rechargeable battery ensure the doppler family to meet the routine examination requirements of obstetricians and midwives.

Specifications
- Display : 45 x 25 mm LCD display
- Heart rate range : 50~210 bpm
- Resolution : 1 bpm
- Recording time : 240 s
- Audio output power : 1A
- Auto power-off : 1 minute with no signal or operation
- Size : 34 (D) x 89 (W) x 141 (H) mm
- Weight : about 300 g (include the battery)

Features
- Easy-to-use fetal doppler
- Fetal doppler with compact design
- Interchangeable fetal doppler probe
- Built-in audio recorder
- Large backlight LCD display
- Accurate FHR detection with clear sound
- Support : 2MHz, 3MHz, 4MHz, 8MHz waterproof probes
- Automatic and manual FHR counting
- Long time continuously use (4 hours) Automatic power-off
Fetal Monitor
ENDO FM-1

Convenient to Carry or Transport
- Compact portable and lightweight
- Long life Lithium Ion battery for outpatient service

Easy to Read and Operate
- 5.6" foldable screen
- Large numeric and waveform display
- Simple workflow with silicone buttons for operations

Advance FHR Detection Technology
- Signals Overlap Verification to differentiate twins FHR
- FHR signal quality indicator helps optimize the probe position

Flexible Printing Options
- Built-in thermal printer
- Print on 150/152 mm width recording paper
- 1/2/3 cm/min real-time printing speed
- 15 mm/sec fast printing speed for history traces

Powerful Data Management
- 12 hours built-in memory for seamless monitoring
- MFM-CNS network for remote monitoring
- Insight software for data management on PC
- USB port to enlarge storage capacity

Multi Display Modes
- Switching among three display modes, user may choose the most suitable one for clinical use.

Single Workflow
- 1 Knob Operation
  Using the knob only, you may carry out every configuration to customize the machine according to clinical needs.
- 1 Button Operation
  Start button could be configured to integrate patient info and printing. This could help the doctor to simplify the workflow and work with 1 button only.

1 MHz Waterproof FHR Probe
- The use of 1MHz probe enlarges the penetration and deepens the range of detection, which is significant and positive in fetal monitoring, especially for big pregnant women. Furthermore, it is also proved that the lower the detection frequency of the probe, the better protection to the tissues of fetus.
Features

- Fully automated, compact, flexible and cost effective
- 3-part differentiation of WBC, 19 parameters + 3 histograms
- Throughput: 30 samples per hour
- Up to 10000 sample results (including histograms) can be stored
- Cyanide free HGB analysis method
- 3 counting modes: All parameters, WBC/HGB, RBC/PLT
- Built-in thermal recorder, optional external printer
- Large Color LCD display
- High performance to price ratio
- High accuracy and reliability
- Throughput of 30 tests per hour fits small laboratory needs
- Compact size to save space
- Microvolume of sample and reagents, automatic maintenance all add up to economy

Technical Specifications

- Parameters: WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT and Histogram for WBC, RBC, PLT
- Principles: electrical impedance method for counting and cyanide free method for hemoglobin
- Sample Volume: prediluted 20 μL, whole blood 13 μL
- Aperture Diameter: 80 μm
- Throughput: 30 samples per hour
- Display: color LCD display
- Resolution: 640 x 480
- Carryover: WBC, RBC, HGB ≤ 0.5%, PLT ≤ 1%
- Input / Output: RS232 x 2, 1 parallel printer (optional), 1 bar code scanner (optional), 1 keyboard interface
- Printout: thermal recorder, 50mm width paper, multitude of printout formats, printer optional
- Temperature: 15°C~30°C
- Humidity: 30%~85%
- Power requirement: AC100-240V, 50/60Hz
- Dimension: 322(W) x 437(H) x 386(D)
- Weight: 17.9 Kg
Hemodialysis Machine
ENDO HD-1

Standard Function

- Individual UF pump discharge and drainage are precisely and continuously measured, make sure UF goal is reached properly.
- Conductivity monitoring for B solution and dialysate. Abnormal conductivity and insufficient dialysate can be detected before and in treatment by continuous monitoring of conductivity.
- Heparin Bolus. Maximum speed up to 7.5 ml/min.
- One key start and one key stop. When press stop key, machine automatically run into most safe condition, then press start, machine will start those pre-stopped settings so that save operator’s time.
- Machine automatically shut down after disinfection, so that reduce nurse work load.
- Quick-self check when machine power on. Machine will self-check each part whether they are properly connected and parts are malfunction prior to treatment.

Features

- 12.1 inch large color LCD touch scree, thumb-size silicon gel button, and unique knob to tune blood pump flow rate, very easy for operation.
- Intelligent self diagnosis and alarm system in the course of treatment, the machine has self diagnosis and self detection function. Alarm cause is literature and acousto-optic prompted, convenient to remind the clinical staff to correct and deal with alarm timely.
- Large capacity system log storage function: including treatment information log, alarm information log, treatment status information log and clean status log.
- Multi-lingual and open system, compatible to different brand of dialysis consumables and concentrate formulation for dialysate. Thick and heavy concentrate A.B tray, pressure tolerant.
- 360 degree rotatable castors, front two castors lockable, convenient to move and lock. Combined with concentrate A.B tray, can realize mobile treatment.
- Modular design makes maintenance more easily. Module includes RO water inlet, fluid A.B confection, balance chamber, blood pump and heparin pump.
- 90 degree horizontal and 360 degree vertical rotatable heavy dialyzer holder.

Operator Friendly Interface

- 12.1 inch wide color touch LCD screen. All monitoring parameters gathered on same interface, more easily to check and adjust.
- Blood way diagram is showed in treatment view for better understanding running condition of each blood way components.
- Heat and chemical disinfection.
**ICU Ventilator**

**SH - 300**

### Expiratory Valve
- With heating function, the expiratory valve protects the device from condensed water, accuracy of the flow sensor is ensure.

### Humidifier
- Warm and humidify airflow with protection function, nine steps to control temperature.

### Available Modes
- VCV Mode
- SIMV Mode
- PSV Mode
- PSV Breaths
- APRV Mode

### Great Visibility
- SH-300 is equipped with a large 10.4” full-color display. The high resolution display provides for a flexible graphics menu combining respiratory curves, loops, and numerical data of physiological parameters.

### Assistant Functions
- **Inspiratory Hold**
  - Convenience for taking X-ray picture of the patient during ventilation, availability for clinician to assess patient’s static pulmonary mechanics.
- **Expiratory Hold**
  - Accessibility for measuring intrinsic PEEP
- **100% FiO2**
  - More effective support for suction
- **Manifold parameter selections**
  - The manifold parameter selections are operated by means of a single ComWheel
- **Manual Inspiration**
  - Availability for clinician to make prompt response to patient’s inspiration need

### Compressor
- **10.4” TFT color screen**
- **Easy setting by navigator wheel knob and touch key**
- **Wide choice of ventilation modes including CPAP, APRV, BIPAP**
- **Flow and pressure trigger**
- **Static compliance and resistance monitor**
- **PEEP, P-V loop, V-F loop**
- **Three-level visual and audible alarm, with concise words describing problems**
- **Advanced built-in electronic air-oxygen mixing device**
- **Durable and accurate built-in flow sensor**
- **Integrated expiration valve, easy to be sterilized**
- **Backup apnea ventilation**
- **Auto nebulizer**
- **Built-in battery**
- **CE certified**
Infusion Pump
Volumetric Infusion Pump IP-7700

Features

- Numerical keypad: easy and fast way to setup.
- Various displays: FND displays numerical data clearly and Color LCD displays detail information.
- User friendly: simple setup process makes user feels comfortable and variety display gives complete information.

Standard Features

- Self-testing: Every time the unit is turned on, self testing is executed.
- K.V.O. (Keep Vein Open): When the delivery volume has been reached, flow rate turns into K.V.O. rate (adjustable from 1ml/h to 10ml/h) automatically.
- Keypad lock function: Keypad can be locked with or without password.
- Infusion setup: Flow rate/Delivery volume/Infusing time.
- Retain memory: Last setting value will be saved.
- Remaining time display.
- Alarm repeat function.
- Open system: Up to 10 IV set brands can be calibrated in single unit.
- Buzzer level: 3 steps.
- Occlusion level: 9 steps (4.5 ~ 14.5 psi).
- Purge rate: Adjustable (1 ~ 1000 mL/hr)
- Bolus rate: ON/OFF, Adjustable (1 ~ 1000 mL/hr, 1 ~ 9999mL)
- History call back: Call back last 10 infusion data.

Optionals

- Dosage mode (Body weight mode)
  Automatically calculate and set the proper flow rate when the dose rate, body weight, drug mass and solution volume are entered.
- Drop sensor: External.
- Nurse call: Each unit can be connected with nurse call system (DC 24V, 0.5A).
- Profile function: Program infusion condition (flow rate, delivery volume, delivery time) differently for each hour, up to 24 hours.
- Central system: Connect with main PC for monitoring.
Ventilator
Neonatal Ventilator NV8

User Friendly Design

- Oxygen concentration one-button auto-calibration avoid incorrect operation due to human error, provide accurate and reliable oxygen concentration data.
- Self check function when start up ensure ventilation safety, reduce medicare providers waiting time and get ready to use machine.
- LED touch screen 8" LED backlit LCD, touch screen, clear and bright from multiple angles, monitoring data highlighted, intuitive setting design reducing human error, enabling doctors focusing on neonates.

Features

- Double CPUs: double protection
- Electronic flow sensor: Flow sensor provided by Honeywell
- Proportional valve: Norgren valve, with stable performance
- Oxygen sensor: City sensor, long service life, high precision, quick response
- When setting key parameter like pressure and oxygen concentration, intelligently give out safety signs to avoid maloperation
- Built-in lithium battery, with over 4hrs working time, guarantee normal operation during power failure and transportation

Safe and reliable

- Proximal pressure monitoring: without being affected by mechanical dead space in the closed loop and compliance, accurately measure patient’s airway pressure, the most recognizable method in the industry.
- Optional ultra-silent air compressor, <50DB noise when working.

The World’s leading Ventilation

- NCPAP (Nasal continuous positive airway pressure) + apnea wakeup function
- NIPPV (Nasal intermittent positive pressure ventilation)
- SNIPPV (synchronized nasal intermittent positive pressure ventilation) + backup ventilation
- HFNC (High flow nasal cannula) + pressure monitoring function
Patient Monitor
ENDO PM-1

Features
- High resolution color TFT-LCD screen
- Pacemaker detection
- Defibrillation and electrosurgical interference protection
- Pitch tone (Pulse-tone modulation)
- Unique iSEAP algorithm which is specially optimized for arrhythmia patients
- Dual-mode anti-interference pulse oximetry
- Clinically validated NIBP
- Nurse call function
- VGA output (optional)
- Suitable for adult, pediatric, and neonatal patients.

Spacious Storage
- 500 NIBP Measurement Review, 96 hours Trend Review, 60 Alarm Review, 720s Frozen Waveform

Respironics CO2
- Plug and play module design
- Dehumidification tube instead of water trap
- Low sampling rate of 50ml/min suitable for all types of patients

ENDO G2 CO2
- Superior water trap design for accurate monitoring
- iCARB algorithm with intelligent CO2 pseudo wave identification technology
- Multiple sampling accessories as options for adult, child, and neonate patients

Built-in Temporary Memory
- NIBP measurement review : 500
- Trend review : 96 h
- Alarm review : 60
- Frozen waveform : 720 s

Optional
- 2 IBP Respironics CO2, ENDO G2 CO2, Thermal Recorder, WLAN Accessory kit
Handheld Pulse Oximeter
ENDO PO-1

Features
- LCD display with backlight control
- Dual work modes: monitoring & spot check
- Numeric display with plethysmogram display
- Trend review
- Pulse tone modulation (pitch tone)
- Adjustable audio and visual alarms
- Powerful data storage capacity (up to 300 hours)
- Patient care viewer software for PC data management
- 4 x AA batteries for up to 48 hours of work
- Rechargeable battery for up to 30 hours of work
- Optional battery charger stand
- Automatic power-off function for power saving

Specifications
- Size: 160 (L) x 70 (W) x 37.6 (H) (mm)
- Weight: 165 (g) without battery

Measuring Parameter Specification
- Measurement range
  SpO2: 0~100%
  PR: 30~254 bpm
- Accuracy tolerance
- Saturation
  Adult and Pediatric: +/−2 digits (70~100%)
  Neonate: +/−3 digits (70~100%)
- Pulse rate
  Adult and Pediatric: +/−3 digits
  Neonate: +/−3 digits
- Resolution
  SpO2: 1%
  Bpm: 1 bpm

Fingertip Pulse Oximeter
ENDO PO-2

Features
- Small & lightweight design
- Dual color display
- SpO2, PR, bar graph, and plethysmogram display
- 4 direction display with 6 display modes
- Easy to use
- 10 level adjustable brightness
- Low power consumption, automatic power off design
- Low-battery indicator
- Standard 2 AAA batteries supply
- Single button operation: power on, pulse tone, display mode, screen brightness
Semi Auto Chemistry Analyzer
RT-9700

Features
- 7” color LCD, touch-screen & keypad
- Reagent open system supports flow cell and cuvette mode, close system on request
- Analytical modes include kinetic, fixed time, bicromatic end-point with or without reagent blank or sample blank, linear or non-linear calibration
- Real-time curve monitoring enhances the reliability of result
- Large memory, up to 75 test protocols can be programmed
- Powerful QC function: Westguard Multi-rule, Levey Jennings plot, 2 controls per test
- Auto power-on self-check
- Additional lamp saving
- Multiform result output including patient comprehensive report

Technical Specifications
- Photometric Range: 0.000-2.500 Abs
- Resolution: 0.001 Abs (displayed), 0.0001 Abs (calculated)
- Light Source: Tungsten halogen lamp, 6V/10W
- Wavelengths: 340, 405, 500, 546, 578, 620, 670nm, 1 more filter optional
- Aspirate Volume: 200~6000μL
- Carryover: < 1%
- Memory: 75 test protocols, maximum 10000 test result
- Interface: RS-232, USB, LAN
- Flow Cell: 30μL quartz flow cell
- Cuvette Mode: 12.5mm*12.5mm cuvette optional
- Temperature Control: 25°C, 30°C, 37°C ±0.5°C and ambient temperature
- Display: 7” color LCD (800*480 pixels)
- Input: Mouse and optional external keyboard
- Output: Built-in printer or external printer (optional)
- Net Weight: 6.5 Kg
- Dimensions L x W x H (mm): 350 x 362 x 180
- Power Supply: a.c. 100V-240V, 50Hz/60Hz
Spirometer
Spirolab New

Features
- Each function can be activated by a simple touch on the intuitive bar menu, always present on the screen.
- 7 inch Touchscreen.
- All in one portable Desktop Spirometer, with Oximetry option.
- Wireless Real Time test on PC via Bluetooth.
- Database up to 10,000 Spirometry tests or 900 hours of Oximetry recording coupled with power and flexible search services.
- Fast and silent built-in printer with customizable printout format
- Long-life Rechargeable Battery

Spirometry Parameters
- FVC, FEV1, FEV1/FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25–75, FEF75–85, Lung Age, Extrap. Volume, FET, Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEV2, FEV2/FVC, FEV3, FEV3/FVC, FEV6, FEV1/FEV6, FEV1/PEF, FEV1/FEV0.5, FIVC, FIV1, FIV1/FIVC, PIF, FIF25, FIF50, FIF75, FEF50/FIF50, VC, IVC, IC, ERV, IRV, RF, VE, VT, tI, tE, VT/tI, tE/tTOT, MVV (measured), MVV (calculated)

Spirometry Test
- FVC, VC, IVC, MVV, PRE / POST bronchodilator comparison with a wide range of selectable parameters.

MIR Exclusive Patient
- Paediatric incentive system directly on the screen, helpful to improve patient compliance during a Spirometry test.

Always Included
- Elegant and robust carrying case
- Winspiro PRO® PC software with free update

Oxymetry Parameters (optional)
- %SpO2 and Pulse Rate (Min, Max, Average), Test duration, Total SpO2 Events, T90% (SpO2 time ≤89%), T89% (SpO2 time ≤88%), T40 (Bradycardia duration with Pulse Rate <40 BPM), T120 (Tachycardia duration with Pulse Rate >120 BPM)
Spirometer
Spirobank II

Features
- Accurate, Complete and Easy to use Spirometer with Oximetry option
- 4 versions available: Smart, Basic, Advanced, and Advanced plus
- On screen results and curves preview for immediate data assessment
- Wireless Real Time test on PC via Bluetooth
- Memory up to 10,000 Spirometry tests or 900 hours of Oximetry recording
- Long-life Rechargeable Battery
- Always included: Winspiro PRO PC software with free update
- Available with both Disposable or Reusable turbine flowmeter

Disposable Turbine

Features
- Comfortable Packaging
- Singulary Packed
- Really Disposable
- No Sterilisation, no calibration, no filter, no cross contamination, no vapour condensation, no ambient influence
- ATS Certification
- The Best Sensor

Smart One - Peak Flow
FEV1 and Peak Flow Meter

Features
- Simple and lightweight to carry on the go
- Smart One has been designed to satisfy the growing demand for wireless devices capable to connect to the new generation of Android and iOS Smart Phones and Tablets
- MIR Smart One App includes an exclusive Incentive for adults and children based on both exhaled Flow and Volume that is helpful in improving subject’s compliance
- Ideal for monitoring respiratory illnesses and in the self management of Asthma, COPD, Lung Transplant care, Cystic Fibrosis and for use in Clinical Trials
- Disposable turbine flowmeter
- Unrivaled in breath measurement. High accuracy
Suction Pump
ENDO Suction Pump 7A-23B

Technical Data
- Power Voltage: AC220V ±22V, 50Hz ±1Hz
- Max negative pressure: ≥ 0.09MPa
- Noise: ≤ 65 dB (A)
- Power: ≤ 180VA
- Pumping Rate: ≥ 40L/min
- Reservoir capacity: 2500 mL/pc, 2 pieces, glass
- Vacuum Range: 20 kPa
- Working System: Continuous Operation
- Packing Dimension: 35.0 x 30.5 x 79.5 cm, N.W: 19.5 KG

Suction Pump
ENDO Portable Phlegm Suction Pump 7E-C

Technical Data
- Power Supply: AC220V ±22V, 50Hz ±1Hz
- Input Power: 90VA
- Max negative pressure value: ≥ 0.075MPa
- Pumping Rate: ≥ 15L/min
- Noise: ≤ 65dB (A)
- Reservoir Volume: 1000mL, 1 piece
- Working System: Short Running
- Packing Dimension: 37.0 x 18.0 x 28.0 (mm), N.W: 4.4 KG
Syringe Pump
SP-8800

Features
- Numerical keypad - Easy and fast way to setup
- Simple, fast and convenient syringe installation
- Color LCD - With color LCD, complete information is displayed in more detail.

Standard Features
- Self-testing - Every time the unit is turns on, self testing is proceeded.
- Auto-syringe detection - Detect syringe size automatically.
- Shortcut key - Syringe brand set, Occlusion set, Buzzer level set.
- K.V.O.(Keep Vein Open) - When the delivery volume has been reached, flow rate turns into K.V.O. rate (adjustable from 1mL/h to 10mL/h) automatically.
- Keypad lock function - Keypad can be locked with or without password.
- Infusion Setup - Flow rate/ Delivery volume/ Infusing time.
- Retain Memory - Last setting value will be retained.
- Remaining Time Display.
- Alarm Repeat Function.
- Open system - Up to 10 syringe brands can be calibrated in single unit.
- Buzzer level - 3 steps.
- Occlusion level - 9 steps (3.8 ~ 19.3 psi).
- Purge rate - Adjustable (0.1 ~ 1200 mL/hr).
- Bolus rate - ON/OFF, Adjustable (0.1 ~ 1200 mL/hr, 0.1 ~ 1000mL).
- Anti bolus - Reduce significantly bolus after occlusion release. (ON/OFF).
- History call back - Call back last 10 infusion data.

Optionals
- Dosage mode (Body weight mode) - Automatically calculate and set the proper flow rate when the dose rate, body weight, drug mass and solution volume are entered.
- Unit setup for Dosage mode - mL/hr, mg/kg/hr, mg/kg/min, μg/kg/hr, μg/kg/min
- Nurse call - Each unit can be connected with nurse call system (DC 24V, 0.5A).
- Profile function - Program infusion condition (flow rate, delivery volume, delivery time) differently for each hour, up to 24 hours.
- Drug labelling
- Central system - Connect with main PC for monitoring.
Features

- Compatible with Windows Vista operation system
- Automatic baseline correction for stable ECG trace
- 3 / 6 / 12 leads real-time waveforms and ST segment or trend graphs display
- ST average complex analysis, trend analysis and full disclosure waveform analysis
- Standard arrhythmia detection
- Classical and customized exercise Protocols
- Control treadmill, bicycle and exercise blood pressure devices support
- Pre-configured set of report formats
- Powerful memory allowing ease to access to original test data

ECG Sampling Box Performance

- Leads mode: 12 standard leads / cabrera leads
- Acquisition mode: simultaneous 12 leads acquisition
- Sampling rate: 10,000/sec / channel (sampling), 500/sec / channel (analysis)
- A/D resolution: 18 bits
- Time constant: >= 3.2 s
- Frequency response: 0.05 Hz ~ 150 Hz (-3dB)
- Gain: 2.5mm/mV, 5mm/mV, 10mm/mV, 20mm/mV
- Input impedance: >= 20M (10 Hz)
- Input circuit current: <= 0.05 uA
- Input voltage range: <+-5mVpp
- Calibration voltage: 1mV +-2%
- DC offset voltage: +500mV
- Noise: <= 15uVp-p
- Filter
  - AC filter: on / off
  - DFT Filter: weak / strong
  - Lowpass filter: 25Hz / 35Hz / 45Hz / 75Hz / 100Hz / 150Hz
- CMRR: >=105dB
Specifications

- Applications: Abdomen, OB/GYN, Vascular, Small parts (breast, testicles, thyroid), Musculoskeletal
  Conventional & Superficial, Pediatric, Basic Cardiac
- Imaging technologies: i-Image, SRA, Compound imaging, THI
- Display Modes: B, B/B, 48, M, B/M, PW
- Gray Scale: 256 Levels
- Scanning Depth: 240mm Max (depend on the probe types)
- Probe Frequency: 2.5 MHz - 11.0 MHz (Depend on the probe)
- Cine Loop: 256 frames
- Zoom: 4 steps
- Software Packages: Dedicated measurement package General, OB/GYN, URO, Cardiac, vascular, small parts
- Archives Management: Patient information management, images record, exam report.
- Power Supply: AC 100V-240V, 50Hz-60Hz
- Standard Configuration: 1 probe connectors, 3 USB ports, VGA port, Video port, LAN port, Full Screen Display Mode, i-Image, Chroma, SRA, Compound imaging, THI, 8G memory card, PW Mode, Built-in Battery
- Option: 2 probe connectors, DICOM 3.0, Water-proof keyboard cover, Carrying Case (BG-100), Cart TR 9000, Support PC Printer, Video Printer

Advanced Imaging Technologies

- Ergonomics
  - Rotatable LED (0-30’): tailor to different viewing angles
  - Ultra-compact & Ultra-light
  - Easy to carry
  - Keyboard: For easy and quick access
  - Dedicated cart TR 9000
  - Streamlined workflow
- Economic
  - The latest platform & more advanced chip-set: brings you better image quality and features at less cost in a more compact box
  - Support PC printer, reduce investment & day to day paper cost
  - 8G memory card
  - 320G harddisk (option)
  - Vehicular Charging
- ECO-friendly
  - Less radiation
  - Less power consumption
  - Longer usage life: LED
  - Longer battery standby time: >2 hours
USG Color Doppler
ENDO EI-3

Better 4D
- Light probe: Releases doctors from scanning fatigue
- Smart function: The latest technology compound, i-image, SRA, etc. Provide super image
- Quite Probe: Vibration-free & Noise-free probe allows better care for mother and fetus
- Fast speed: 4D volume rate reveals fetal movement in real time

Multi Beam Former Technology
- Enhance signal processing speed
- Enhance time resolution
- Improve picture frame rate
- Improve spatial resolution

Image Processing Technology
- THI
- Speckle Reduction Algorithm (SRA)
- Compound technology
- i-Image: image optimization software

Measurement & Report Packages
- OB & GYN
- Vascular
- Urology
- Small parts
- Basic cardiac

Widely Clinical Applications
- Abdominal
- Obstetrics
- Gynecology
- Vascular and Small parts
- Pediatric
- Urology
- Musculoskeletal

Standart Configuration
- Main unit, 19" LCD, 4 Probe Connectors, Hard disk (320 GB), DVD-RW, 6 USB Ports

Probes
- 3.5MHz Convex probe
- 7.5MHz Linear probe
- 6.0MHz Transvaginal probe
- 4.0MHz 4D Volume Probe
- 7.0MHz Transvaginal probe(180°)
- 3.0MHz Micro-convex probe(adult Cardiac)
- 5.0MHz Pediatric probe
- Wideband, Multi-Frequency

Imaging Modes
- B, 2B, 4B, B/M, M
- CFM
- PW Mode
- Power Doppler/Directional PD
- Duplex
- Trapezoidal
- Real-time 4D (option)
- Chroma B/PW
Video Colposcope
ENDO C3A

Description
- With its bright LED cold lighting system, high resolution camera and electronic green filter, C3A video colposcope realizes full-screen display of precise cervical examination, offering crucial and accurate information for clinical decision making to the gynecologist.

Features
- LED cold lighting system reproduces an original view of tissue
- Advanced and fast auto-focusing system ensures clear image
- Remote capture control and user-friendly keyboard layout for easy operation
- Electronic green filter enhances vascular image display without compromise of illumination
- Acetic acid and iodine reaction test timer to capture the right and precise image
- Real-time display of magnification
- Powerful image display and data management software
- Capture the right and precise image
- Analyze colposcopic findings
- Export report in PDF format

R - way
- Saline application - 'R for Red' To observe the area with rich blood circulation, this reflects in red.
- 5% acetic acid - 'W for White To reveal increased nuclear activity, this reflects in white.
- Green filter - 'A for Abnormal' To better observe abnormal vascular features, this defines as A.
- Lugol's iodine solution - 'Y for Yellow' To observe fields of no iodine uptake, this reflects in yellow.
Surgical Instrument
Skin Graft Mesher

Features
- Single cutter cuts skin graft into geometrical shaped mesh & enlarge skin surface
- Graft expansion predetermined by graft carrying plates, eliminating need to change cutter during operation
- Continuous feed design prevents graft carrying plate from being loaded incorrectly and allow multiple plates to be used without interruption
- Graft thickness adjustment feature allow expansion on thin and thick grafts
- Easy availability of replacement parts

Surgical Instrument
Dermatome

Features
- User friendly, battery powered high torque motor design.
- No need to connect electric supply or compressed air.
- Removable special batteries make steam sterilization possible.
- Ergonomic and weight balanced design make it easy to handle
- 8 flaps give the ability to adjust cutting width from 9.75 mm to 78 mm
- Easy blade change mechanism designed to insert the blade only one side thus uncorrect blade insertion is avoided
- Cutting speed can be adjusted by only one finger
  Safe lock mechanism prevents from unwanted operation of the motor
High Speed Motor System

Features

- Adjustable speed range up to 90,000 RPM
- Comfortable operation possibility thanks to ergonomic dynamic positioning of the center of gravity
- Under load motor start-up technology preventing the failures related to burr obstruction during craniotomy
- Opportunity of pediatric-adult craniotomy and laminectomy with single attachment
- The design allowing to minimize the costs of service on Dura protector feet deformations
- Color-protecting technology against discoloration of attachments connected to all sterilization techniques such as autoclave, EO, etc...
- Burr, attachment, motor change in a few seconds thanks to easy/connect technology for starting-up the system fast and easily.
- Motor and motor cable wears and socket failures are minimized thanks to special locking system.
- Low cost of consumable irrigation pump

Craniotome

- **HSM Craniotome**: Modular dura guide for paediatric, adult and laminectomy applications. Keyless connection of hand piece, craniatome-burr, dura guide and motors. Clear identification of burrs and dura guide by ring system (1 - 3 rings)
- **HSM Craniotome Pediatric Guide**
- **HSM Craniotome Adult Guide**
- **HSM Craniotome Laminectomy Guide**
- **Burr for Pediatric Guide**: 20 mm
- **Burr for Adult Guide**: 20 mm
- **Burr for Laminectomy Guide**: 20 mm
- **Motor Cable**: 4 m
- **HSM Perforator Motor**: Ø 6/9 mm
- **Reusable**: Ø 9/12 mm
- **HSM Attachment**: Ø 5.5 mm, 115 mm
- **Burs Rosen**: Ø 5.0 mm
- **Burs Rosen**: Ø 7.0 mm
- **Burs Diamond**: Ø 5.0 mm
- **Burs Diamond**: Ø 7.0 mm
- **HSM Attachment**: Ø 5.5 mm, 140 mm
- **Spray Nozzle for M14-110 and M14-210**
- **Burs Acorn**: Ø 9.5 mm

HSM Power Console

- Operating Voltage: 200–240V
- Frequency: 50–60Hz
- Power: ~260W
- Maximum Current / 220V: 1A
- Maximum Motor Speed (Feedable): 90,000 rev/min.
- Maximum water (irrigation) pump mass flow rate: 100ml/min
- Device main feed circuit breaker: T 2.0A
- Weight: ~5000 gr
- Dimensions: 340x106x255 mm
- Standard related with ARC protection: IEC 601-1-2, IEC 601-1
- **HSM Foot Pedal with Irrigation and F/R Button HSM Motor Handpiece**: 90,000 rpm
- **HSM Motor Stand, Autoclavable**
- **HSM Irrigation System Tubing Set**
### Orthopedic Set, Drill Set

- **Type M103-1005**: Battery Drill Set
- **M103-200** Handpiece: Swiss made powerful cannulated brushless DC motor technology. Dual trigger system for speed control and direction control. Steam sterilisable at 2 bar 134°C. Cannulated Ø 4 mm; 43 x 141 x 154 mm / 940 g
- **M103-210** Rechargeable Li-ion battery: Battery capacity: 3.1 Ah; Voltage: 21.6 Volts; Led battery charge status indicator. Generates a “beep tone” when starts working; Not autoclaveable; 84 x 63 x 47 mm / 355 g
- **M103-211** Autoclavable battery case: Steam sterilisable at 2 bar 134°C; 102 x 82 x 72 mm / 235 g
- **M103-212** Autoclavable sterile funnel for aseptic battery loading: Steam sterilisable at 2 bar 134°C; 78 x 59 x 35 mm / 60 g
- **M103-226** Charger unit for 1 battery: Main voltage 100-240 Volts, 50-60 Hz; Charging monitored by LCD screen; Charging current 1.4 A; Charging voltage 21.6 Volts; Protections: Short circuit / Overload / Over voltage; Generates an audible tone when charging is started or finished; Battery not included 137 x 128 x 110 mm / 700 g
- **M103-309** Drill attachment with keyed chuck: Ø 4 mm Cannulated; Ø 1.0 mm - 6.35 mm; 900 rpm / 7 Nm; 30 x 104 mm / 310 g
- **M7-502** Drill bit: Ø 2.5 mm; Length 100 mm
- **M7-504** Drill bit: Ø 3.0 mm; Length 100 mm
- **M7-250** Chuck key for M103-309 K3-1731 Basket with silicone fixations: 405 x 253 x 113 mm

### Orthopedic Set, Basic Set

- **Type M103-1001**: Battery Orthopedic Set
- **M103-200** Handpiece: Swiss made powerful cannulated brushless DC motor technology. Dual trigger system for speed control and direction control. Steam sterilisable at 2 bar 134°C. Cannulated Ø 4 mm; 43 x 141 x 154 mm / 940 g
- **M103-210** Rechargeable Li-ion battery: Battery capacity: 3.1 Ah. Voltage: 21.6 Volts. Led battery charge status indicator. Generates a “beep tone” when starts working. Not autoclaveable 84 x 63 x 47 mm / 355 g
- **M103-211** Autoclavable battery case: Steam sterilisable at 2 bar 134°C. 102 x 82 x 72 mm / 235 g
- **M103-212** Autoclavable sterile funnel for aseptic battery loading: Steam sterilisable at 2 bar 134°C; 78 x 59 x 35 mm / 60 g
- **M103-226** Charger unit for 1 battery: Main voltage 100-240 Volts, 50-60 Hz; Charging monitored by LCD screen; Charging current 1.4 A; Charging voltage 21.6 Volts. Protections: Short circuit / Overload / Over voltage. Generates an audible tone when charging is started or finished. Battery not included 137 x 128 x 110 mm / 700 g
- **M103-309** Drill attachment with keyed chuck: Ø 4 mm Cannulated; Ø 1.0 mm - 6.35 mm; 900 rpm / 7 Nm; 30 x 104 mm / 310 g
- **M7-502** Drill bit: Ø 2.5 mm; Length 100 mm
- **M7-504** Drill bit: Ø 3.0 mm; Length 100 mm
- **M7-250** Chuck key for M103-309
- **M103-300B** Sagittal saw system: (Without saw blades, battery and battery case). 16.000 cpm / 4.50 180 x 160 / 1110 g
- **M103-1117** Sagittal saw blade: Material Thickness: 0.6 mm. Cutting Thickness: 0.8 mm
- **M103-1146** Sagittal saw blade: Material Thickness: 1.27 mm
- **M103-320** Acetabular reamer attachment: 150 rpm / 40 Nm. 30 x 120 mm / 380 g
**Surgical Motor Handpiece, Praxis**

### Orthopedic Set, Large Set
- **Type M103-1003**: Battery Orthopedic Set
- **M103-200** Handpiece: Swiss made powerful cannulated brushless DC motor technology. Dual trigger system for speed control and direction control. Steam sterilisable at 2 bar 134°C. Cannulated Ø 4 mm; 43 x 141 x 154 mm / 940 g
- **M103-210** Rechargeable Li-ion battery (3 pcs):
  - Battery capacity: 3.1 Ah. Voltage: 21.6 Volts. Led battery charge status indicator. Generates a “beep tone” when starts working. Not autoclaveable. 84 x 63 x 47 mm / 355 g
- **M103-211** Autoclaveable battery case (3 pcs): Steam sterilisable at 2 bar 134°C. 102 x 82 x 72 mm / 235 g
- **M103-212** Autoclaveable sterile funnel for aseptic battery loading:
  - Steam sterilisable at 2 bar 134°C (3 pcs): 78 x 59 x 35 mm / 60 g
- **M103-309** Drill attachment with keyed chuck:
  - Ø4 mm Cannulated; Ø 1.0 mm - 6.35 mm; 900 rpm / 7 Nm; 30 x 104 mm / 310 g
- **M7-502** Drill bit: Ø 2.5 mm; Length 100 mm
- **M7-504** Drill bit: Ø 3.0 mm; Length 100 mm
- **M7-250** Chuck key for M103-309
- **M103-300B** Sagittal saw system: (Without saw blades, battery and battery case) 16.000 cpm / 40 50’ 180 x 160 / 1110 g
- **M103-1117** Sagittal saw blade: Material Thickness: 0.6 mm; Cutting Thickness: 0.8 mm
- **M103-1146** Sagittal saw blade:
  - Material Thickness: 1.27 mm
- **M103-320** Acetabular reamer attachment:
  - 150 rpm / 40 Nm
  - 30 x 120 mm / 380 g
- **M103-330** Reamer attachment for wire and pin:
  - Cannulated Ø 4 mm; 300 rpm / 21 Nm
  - 30 x 104 mm / 310 g

### Reciprocating Saw Set
- **Type M103-1013**: Battery Reciprocating Saw Set
- **M103-235B** Reciprocating saw system:
  - Without saw blades, battery and battery case)
  - 16.000 cpm / 4 mm; 210 x 150 mm / 1060 g
- **M103-210** Rechargeable Li-ion battery:
  - Battery capacity: 3.1 Ah; Voltage: 21.6 Volts. Led battery charge status indicator. Generates a “beep tone” when starts working. Not autoclaveable. 84 x 63 x 47 mm / 355 g
- **M103-211** Autoclaveable battery case: Steam sterilisable at 2 bar 134°C. 102 x 82 x 72 mm / 235 g
- **M103-212** Autoclaveable sterile funnel for aseptic battery loading: Steam sterilisable at 2 bar 134°C. 78 x 59 x 35 mm / 60 g
- **M103-226** Charger unit for 1 battery:
  - Main voltage 100-240 Volts, 50-60 Hz. Charging monitored by LCD screen. Charging current 1.4 A. Charging voltage 21.6 Volts. Protections: Short circuit / Overload / Over voltage. Generates an audible tone when charging is started or finished. Battery not included 137 x 128 x 110 mm / 700 g
- **M103-239** Reciprocating Saw blade:
  - Usable length: 75 mm. Width: 13 mm
  - K3-1731-S3 Basket with silicone fixations: 405 x 253 x 113 mm
Sagittal Saw Set
- Type M103-1007 : Battery Sagittal Saw Set
  M103-300B Sagittal saw system :
  (Without saw blades, battery and battery case)
  16,000 cpm / 40 mm; 180 x 160 / 1110 g
- M103-210 Rechargeable Li-ion battery :
  Battery capacity: 3.1 Ah; Voltage: 21.6 Volts
  Led battery charge status indicator. Generates a "beep tone" when starts working. Not autoclaveable
  84 x 63 x 47 mm / 355 g
- M103-211 Autoclaveable battery case : Steam sterilisable at 2 bar 134°C. 102 x 82 x 72 mm / 235 g
- M103-212 Autoclaveable sterile funnel for aseptic battery loading : Steam sterilisable at 2 bar 134°C
  78 x 59 x 35 mm / 60 g
- M103-226 Charger unit for 1 battery :
  Main voltage 100-240 Volts, 50-60 Hz
  Charging monitored by LCD screen; Charging current 1.4 A; Charging voltage 21.6 Volts;
  Protections: Short circuit / Overload / Over voltage
  Generates an audible tone when charging is started or finished. Battery not included.
  137 x 128 x 110 mm / 700 g
- M103-1117 Sagittal saw blade :
  Material Thickness: 0.6 mm; Cutting Thickness: 0.8 mm
- M103-1146 Sagittal saw blade :
  Material Thickness: 1.27 mm
- K3-1731-S1 Basket with silicone fixations :
  405 x 253 x 113 mm

Sternal Saw Set
- Type M103-1009 : Battery Sternal Saw Set
  M103-240B Sternum saw system :
  (Without saw blade, guide, battery and battery case)
  16,000 cpm / 4 mm; 210 x 154 mm / 1280 g
- M103-210 Rechargeable Li-ion battery :
  Battery capacity: 3.1 Ah. Voltage: 21.6 Volts
  Led battery charge status indicator. Generates a "beep tone" when starts working. Not autoclaveable
  84 x 63 x 47 mm / 355 g
- M103-211 Autoclaveable battery case : Steam sterilisable at 2 bar 134°C. 102 x 82 x 72 mm / 235 g
- M103-212 Autoclaveable sterile funnel for aseptic battery loading : Steam sterilisable at 2 bar 134°C
  78 x 59 x 35 mm / 60 g
- M103-226 Charger unit for 1 battery :
  Main voltage 100-240 Volts, 50-60 Hz
  Charging monitored by LCD screen. Charging current 1.4 A. Charging voltage 21.6 Volts.
  Protections: Short circuit / Overload / Over voltage
  Generates an audible tone when charging is started or finished. Battery not included.
  137 x 128 x 110 mm / 700 g
- M103-715 Adult saw guide
- M103-710 Adult saw blade :
  Length 58 mm. Useble Length 35 mm.
  Blade Thickness 0.8 mm. Cutting Thickness 1.2 mm
- K3-1731-S2 Basket with silicone fixations :
  405 x 253 x 113 mm
Surgical Motor Handpiece, Karinca

**Orthopedic Set**
- **M206-200 Karinca Drill-Reamer Handpiece**: Hexa - Function System. Dual trigger system for speed control and direction control. Steam sterilisable. Cannulated Ø 4 mm; 77 x 140 x 210 mm / 785 g
- **M206-210 Power box (2 pcs)**: Swiss made powerful DC motor technology. Battery capacity: 2.5 Ah. Voltage: 14.8 Volts. Integrated oled screen audible alert motification. Not autoclaveable. 75 x 61 x 160 mm / 4565 g
- **M206-212 Autoclaveable sterile funnel for aseptic battery loading**: Steam sterilisable. 30 x 74 x 104 mm / 55 g
- **M206-227 Charger unit for 2 battery**: Main voltage 100-240 Volts, 50-60 Hz Charging current 2 A (X2). Charging voltage 16.8 Volts. Protections: Short circuit / Overload / Over voltage Charging indicator led. Battery not included. 230 x 250 x 130 mm / 2000 g
- **M206-309 Drill attachment with keyed chuck**: Ø4 mm Cannulated. Ø 1.0 mm - 6.35 mm. 1200 rpm / 5 Nm; 29 x 87 mm / 205 g
- **M7-502 Drill bit**: Ø 2.5 mm. Length 100 mm
- **M7-504 Drill bit**: Ø 3.0 mm. Length 100 mm
- **M7-250 Chuck key for M206-309**
  High-Low speed options. Steam sterilisable. 10.000 - 12.000 cpm / 40’ 77 x 153 x 218mm / 850 g
- **M103-1117 Sagittal saw blade**: Material Thickness: 0.6 mm Cutting Thickness: 0.8 mm
- **M103-1146 Sagittal saw blade**: Material Thickness: 1.27 mm
- **M206-352 Quick - action chuck (K-wire Driver)**: Cannulated Ø 0.7 mm - 2.5mm. 1200 rpm / 5 Nm; 29 x 77 mm / 300 g
- **K3-2723 Basket with silicone fixations**: 540 x 253 x 113 mm

**Reciprocating Saw Set**
- **Type M206-1013**: Battery Reciprocating Saw Set
  (Without saw blades and power box)
- **M206-235 Karinca Reciprocating saw Handpiece**: High - Low speed options. Steam sterilisable. 11.000 -14.000 cpm / 4 mm 77 X 180 x 210 mm / 860 g
- **M206-210 Power box**: Swiss made powerful DC motor technology. Battery capacity: 2.5 Ah. Voltage: 14.8 Volts. Integrated oled screen audible alert motification. Not autoclaveable. 75 x 61 x 160 mm / 4565 g
- **M206-212 Autoclaveable sterile funnel for aseptic battery loading**: Steam sterilisable. 30 x 74 x 104 mm / 55 g
- **M206-226 Charger unit for 1 battery**: Main voltage 100-240 Volts, 50-60 Hz Charging current 2 A. Charging voltage 16.8 Volts. Protections: Short circuit / Overload / Over voltage Charging indicator led. Battery not included. 130 x 250 x 130 mm / 900 g
- **M103-239 Reciprocating Saw blade**: Usable length: 75 mm. Width: 13 mm
- **K3-2731-S3 Basket with silicone fixations**: 405 x 253 x 113 mm
Surgical Motor Handpiece, Karinca

**Sagittal Saw Set**
- Type M206-1007 : Battery Sagittal Saw Set
- M206-300 Karinca Sagittal saw Handpiece :
  (Without saw blades and power box)
  High - Low speed options
  Steam sterilisable 10.000 - 12.000 cpm / 4o 50’
  77 x 153 x 218 mm / 850 g
- M206-210 Power box :
  Swiss made powerful DC motor technology
  Battery capacity: 2.5 Ah. Voltage: 14.8 Volts
  Integrated oled screen audible alert motification
  Not autoclaveable. 75 x 61 x 160 mm / 4565 g
- M206-212 Autoclaveable sterile funnel for aseptic battery loading :
  Steam sterilisable 30 x 74 x 104 mm / 55 g
- M206-226 Charger unit for 1 battery :
  Main voltage 100-240 Volts, 50-60 Hz
  Charging current 2 A. Charging voltage 16.8 Volts
  Protections: Short circuit / Overload / Over voltage
  Charging indicator led Battery not included
  130 x 250 x 130 mm / 900 g
- M103-1117 Sagittal saw blade :
  Material Thickness: 0.6 mm
  Cutting Thickness: 0.8 mm
- M103-1146 Sagittal saw blade :
  Material Thickness: 1.27 mm
- K3-2731-S2 Basket with silicone fixations :
  405 x 253 x 113 mm

**Sternal Saw Set**
- Type M206-1009 : Battery Sternal Saw Set
- M206-240 Karinca Sternum saw Handpiece :
  (Without saw blade, guide, battery and battery case)
  High - Low speed options. Steam sterilisable
  11.000 -14.010 cpm / 4 mm
  77 x 180 x 210 mm / 930 g
- M206-210 Power box : Swiss made powerful DC motor technology.
  Battery capacity: 2.5 Ah
  Voltage: 14.8 Volts
  Integrated oled screen audible alert motification
  Not autoclaveable 75 x 61 x 160 mm / 4565 g
- M206-212 Autoclaveable sterile funnel for aseptic battery loading : Steam sterilisable
  30 x 74 x 104 mm / 55 g
- M206-226 Charger unit for 1 battery :
  Main voltage 100-240 Volts, 50-60 Hz
  Charging current 2 A. Charging voltage 16.8 Volts
  Protections: Short circuit / Overload / Over voltage
  Charging indicator led. Battery not included
  130 x 250 x 130 mm / 900 g
- M103-715 Adult saw guide
- M103-710 Adult saw blade : Length 58 mm
  Useable Length 35 mm. Blade Thickness 0.8 mm
  Cutting Thickness 1.2 mm
- K3-2731-S4 Basket with silicone fixations :
  405 x 253 x 113 mm
Micropipette
Accumax Smart

Features
- Light & smooth plunger action
- Locking mechanism preventing accidental volume changes during pipetting
- PTFE sealing is used to create precise air tightness to provide long term consistent performance
- Slim design allows pipette to operate even with narrow tubes used in laboratory
- Early accessible recalibration mechanism without any chance of accidental change in calibration
- Ergonomic design
- Suitable for left and right handed users with a relaxed grip and a good balance
- Soft touch tip ejection
- High performance, light weight and easy in operating
- Volume display is always visible while pipetting
- In house cleaning, repair and calibration possible without any special tools
- New tip cone design for smooth fitting with most of manufacturers’ tips
- Color coding for easy identification
- Fully autoclavable without disassembly for maximum convenience as well as protection from contamination
- Enhanced UV resistance
- Shelf mounting stand for efficient handling and storage
- Manifold rotates 360 degree to allow pipetting from any convenient angle
- The tip ejector is designed with convenient shape to reduce tip loading and ejection forces
- Includes all basic features of Smart single channel pipette

Micropipette
Accumax Pro

Features
- Smooth pipetting
- Best in-hand grip for comfort
- Reduced thumb stress
- Highly accurate and precise
- Minimum size with maximum accuracy.
- Calibration through EN ISO 8655
- Two stop plunger
- Fully Autoclavable
- Beautiful color coded for easy volume identification
- Low price

Micropipette
Accumax Stand
ECG Bulb Electrode & ECG Limb Clamp Electrode

Technical Features

- Reusable praecordial electrode for ECG
- Metallic Part Diameter : 15mm / 20mm / 24mm / 30mm
- Ball Diameter : 25mm / 33mm
- Electrode Material Coating : Silver / Silverchloride
- Ball Material : Plastic (Medical Grade PVC)
- Connection : Universal screw (4 mm) and clip

- Reusable peripheral clamp electrodes for ECG
- Electrode Material Coating : Argento Clorurato (Ag/AgCl) / SSC
- Connection : Universal screw (4 mm) and clip
- Compliance to Standards : Directive 93/42/EEC. Class 1 device

Patient Cable Compatible
ENDO ECG Cable

Compatible

- Burdick : EK-10 and Elite, E350, E350i, E550, E560
- Cardioline : AR-600, AR-1200, AR-2100
- Fukuda Denshi : FX101, FX102F, FX328U, FCP2201
- GE-Marquette : MAC 500, MAC 1100, MAC 1200
- Mortara : ELI-200, ELI-50, Kenz : 103, 106
- Nihon Kohden : ECG-1150, 1250, 1350, 1550, 2350, 2550 Cardiofax 6151, 6851, 6353, 8110 Cardiofax Q ECG-9110K, 9130K
- Philips / HP : M1770A, M1771A, M1772A Pagewriter 100 / 200 / 200i
- Quinton : Eclipse™ 4, 8, 400, 800, 850, 850i Eclipse LE II and ATRIA PLUS
- Schiller : AT-1, AT-2, AT-2 Plus, AT-4 Resistor 10K Long Screw AT-3, AT-6, CS-6, AT-5, AT-10, AT-60
ENDOSCOPY

Arthroscopy Instrument
CO2 Insufflator
Disinfectant
Disposable Flexible Instrument
Disposable Trocar
Electrosurgical Unit, Pulsar
Endoscope Washer
Endoscopy Camera Unit
ENT Instrument
Enzymatic
Flexible Video Endoscope
Hysteroscopy Instrument
Laparoscope
Lithotriptor
Morcellator
Multi-Indication Pump
Portable Endoscopy Camera
Shaver
Single Port Laparoscopy
Urology Instrument
Video Endoscopy System
SonoScape

Flexible Endoscopy
Video Endoscopy System HD-500

Features
- Integrated Patient Database Management
- Multi Spectral Imaging
- Water Jet Function
- Built-in Workstation - Smart Work Flow and Easy Operation

Full Function Trolley
- Fully height adjustable design to accommodate different clinical settings
- 24 inch LCD display with articulating arm for viewing from any angle
- Main power button for easy activation of the whole system
- Transformer guarantees stable power current

HD-500 Image Processor
- (CHb) Concentration Hemoglobin Imaging
  By quantitatively measuring the mucosal hemoglobin volume, CHb is useful for endoscopists to differentiate vein patterns and diagnosing the intramucosal digestive carcinoma, diffuse-type carcinoma or the intestinal-type carcinoma.
- Structure and Edge Enhancement
  Structure enhancement can provide a better image for the doctor during observations by enhancing the outline of large mucosal while the edge enhancement improves the contrast resolution of smaller tissue structures.
- Multi-buttons for Remote Control
  Four buttons on the control section of the endoscope handle can be customized to preset functions making the operation easier and more convenient for gastroenterologists during a diagnostic exam.
- Smart short-cut buttons
  Short-cut buttons on the keyboard, control panel and the endoscopes delivers a faster operation and makes the examination more efficient.
- Flexible Image and Video Management Solutions
  Still image capture, video recording and replay functions endows the HD-500 system with flexible image and video management solutions.
- Large Storage Capacity
  Installed with a 500GB hard drive, the HD-500 system is convenient for storing patient files and large video files.
- Flexible Switching Working Mode
  Keyboard operation allows access to the report editing mode or to the patient file management mode facilitating a smooth examination.
- Intelligent Built-in Workstations
  The intelligent internal workstation can help doctors easily edit reports, record videos and manage patient files.
Flexible Endoscopy
Video Endoscopy System HD-350

Features

- CMOS, with the CMOS image sensor, HD-350 gives high quality images with low noise levels, which leads to improved clarity and optimized vision in not only routine procedures but also in complex interventions.
- Smart workflow, to increase efficiency, patient data management is accessible with the press of a button. The smart workflow of the built-in workstation of HD-350 helps doctors to edit reports, record videos and manage patient files with ease.
- Clean and clear, the waterjet function of the scopes help to maintain a clear endoscopic view by washing away blood or mucus.

Advanced Technologies

- High-definition video and imaging
- Image noise reduction and image enhancement
- CHb enhancement
- Automatic equalization of brightness
- Hot plugging of endoscope
- Capacitor touch control
- Intelligent medical record management
- Endoscope identification

HD-350 Video Processor

- HD video outputs : DVI, SDI, VGA
  Standard video outputs : S-Video, CVBS
- HD video recording : Built-in workstation, timely record and review
- Dimension (L x W x H / weight )
  455mm x 370mm x 124mm / 9.5 kg

HD-35E Light Source

- Main lamp : 50W LED
- Transparency function : 7 seconds maximum brightness flicker
- Lifetime indicator
- Hot plugging : Endoscope switch without powering off
- Dimension (L x W x H / weight )
  460mm x 370mm x 154mm / 15 kg
Endoscope Washer
ENDO CLEAN 1000

Technical Data

- Applicable scopes: flexible endoscopes
- Visual leakage detection: bubble detection during immersion
- Number of reprocessor endoscope: for 1 scope
- Washing method exterior surfaces: multi channel jetting system rotated in a 360 degree arc
- Washing method channel interiors and accessories: fluid flushing cleaning
- Disinfection method exterior surfaces and accessories: disinfectant solution immersion
- Disinfection method channel interiors: disinfectant solution flushing and filling
- Washing time: 10 sec ~ 3 min
- Detergent time: 5 sec
- Disinfection time: 1 min ~ 1 hr
- Alcohol flushing time: 5 sec
- Tank capacity: disinfectant 15L, detergent 1L, and alcohol 1L
- Dimension (mm): 550(W) x 585(D) x 950(H)
- Weight: 75 kg
- Power: 220-240VAC 50/60Hz

Features

- Maintaining concentration of sterilization liquid for certain period by minimizing dilution rate
- A function to prevent draining of sterilization liquid
- Easy to determine sterilization liquid replacement cycle with counter display of sterilization liquid
- Using parts with strong chemical resistance against Peracetic Acid and PAA
- Automatic alcohol injection at inside channel
- Providing effective sterilization capability with washing liquid and alcohol added
- Strong multiple 3 channel 360 degree rotation nozzle type
- Program mode selection type which is easy to be operated
- Equipped with strong air gun
- Providing Olympus, Pentax, Fujinon leak jack adaptor
- It's also possible to set time freely taking average 7 to 15 minutes
- Sterilization is available for all types of endoscope and 1 set endoscope is possible for sterilization
- Material for Basin is chemical-resistance indicating excellent durability while it has another benefit making it possible to install endoscope without a mounting device
Disinfectant
ENDO CLEAN 2000

Technical Data

- Applicable scopes: flexible endoscopes
- Visual leakage detection: bubble detection during immersion
- Number of reprocessor endoscope: for 2 scope
- Washing method exterior surfaces: multi channel jetting system rotated in a 360 degree arc
- Washing method channel interiors and accessories: fluid flushing cleaning
- Disinfection method exterior surfaces and accessories: disinfectant solution immersion
- Disinfection method channel interiors: disinfectant solution flushing
- Air shower method exterior surfaces: multi channel jetting system rotated in a 360 degree arc
- Air shower method channel interiors: air force
- Washing time: 10 sec ~ 3 min. Max (0 sec - skip)
- Detergent time: 5 sec max (0 sec - skip)
- Disinfection time: 1 min ~ 1 hr max
- Alcohol flushing time: 5 sec max (0 sec - skip)
- Air (1, 2, 3) force time: 10 sec ~ 30 sec max (0 sec - skip)
- Air shower time: 10 sec ~ 30 sec max (0 sec - skip)
- Water filtration and disinfectant filtration: built in (pre filter)
- Tank capacity: disinfectant 18 L, detergent 1 L, Alcohol 1 L
- Dimension (mm): 630 (W) x 700 (D) x 980 (H)
- Weight: 90 kg
- Power: 220-240 VAC 50/60 Hz

Features

- Setting alarm to notify cycle use of sterilization liquid depending on its characteristics
- User-centric various program configuration
- A function to wash sterilization tank
- Setting alarm for automatic door opening
- Use of chemical-resistance substances against peracetic acid and PAA
- Automatic alcohol injection into internal channel
- Strong multiple 3 channel 360 degree rotating nozzle type
- Dual scope processing
- Rapid drying basin and surface of endoscope by strong air shower
- Equipped with strong air gun
- Equipped with filter
- Blocking foreign substance entering endoscope by equipping filter
- Preventing inundating of basin with dual full sensor
- Providing Olympus, Pentax, Fujinon leak jack adaptor
- Free time setting and program configuration makes it possible to operate the system under best conditions
- Number of endoscopes which is possible for sterilization is 2 sets while sterilization is available for all kinds of endoscope and special endoscopes
- This provides best endoscope reprocessing service with its water supply filter and disinfection filter equipped


**Endoscope Washer**

**Detrox Detro Wash**

**Disinfectant**

**Detrox Detro OPA**

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**Usage Areas**

- Used for high level disinfection of surgical instruments, flexible and rigid endoscopes. It is compatible with medical devices/equipment made of polystyrene, stainless steel, PVC, acrylic material, polycarbon, ceramic, ABS, silicone, HDPE, rubber, and glass.

**Product Properties**

- High level disinfectant.
- Suitable for manual use and for endoscope washing and disinfection machines.
- The solution has no mutagenic, embryotoxic, teratogenic or reproductive effect on humans.

**Composition**

- %0.55 orthophytalaldehyde, anticorrosive materials

**Usage**

- Detro OPA is filled into a clean and closed container
- Precleaned and rinsed instruments are immersed thoroughly so that all the surfaces and cavities are covered by the solution
- The container is closed
- The contact time is completed
- Then the instruments are rinsed with sterile or distilled water
- The solution in the container can be used during 14 days, the activity should be controlled daily by test strips, the solution should be renewed when the strips doesn’t give the active colour existing on the strip tubes
- PIs immerese the tools in the solution after the cleaning is done thoroughly
- Red and orange colors that can be seen on the instruments indicate that the instruments are not cleaned well (protein detection system)

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**Hygiene and Disinfection Products for Professionals**

**Features**

- Disinfection compatibility system, suitable for use with liquid disinfectants for all endoscope devices.
- Suitable for single use and ready to use disinfectant.
- Double tank and double scope system
- Large sink system, the sink is produces at a diameter which prevents over twisting of endoscopes and at a width which provides containment of double endoscopes.
- Multiple scope system, performs the disinfection of endoscopes of all trade marks.
- Automatic / manual washing system
- Sink disinfection system
- LCD Display and touch keypad
- Easy to use, there are shortcut keys on the user login screen for the most commonly used keys.
- Water filter system
- Tracking disinfectant usage days and number of usage.
- Protecting circuit, there is current leakage protection system to protect human life against possible current leakages.
- Easy carrying system. when the device needs to be moved from one place to another, it is wheeled for easy transportation and at the same time it has a locked wheel system for being fixed in place.
- Level indicators and distinctive filling covers
- Power system : AC 220/230V, 50/60 Hz Max. 200W 1A
- Leakage test : max preassure 0.35 bar
- Weight : net 80 kg, packed 140 kg
**Disinfectant**

**Detrox Detro Forte**

**Usage Areas**
- Used for high level disinfection of surgical instruments, flexible and rigid endoscopes. It is compatible with medical devices/equipment made of polystyrene, stainless steel, PVC, acrylic material, polycarbonate, ceramic, ABS, silicone, HDPE, rubber, and glass.

**Product Properties**
- High level disinfectant.
- Suitable for manual use and for endoscope washing and disinfection machines.

**Composition**
- 2% glutaraldehyde, anticorrosive materials, auxiliary substances

**Microbiological Activity**
- Bactericidal (incl. Tbc), fungicidal, virucidal in 5 minutes
- Sporicidal in 15 minutes

**Usage**
- Detro Forte is filled into a clean and closed container
- Precleaned and rinsed instruments are immersed thoroughly so that all the surfaces and cavities are covered by the solution
- The container is closed
- The contact time is completed
- Then the instruments are rinsed with sterile or distilled water
- The solution in the container can be used during 28 days, the activity should be controlled daily by test strips, the solution should be renewed when the strips don’t give the active colour existing on the strip tubes

**Enzymatic**

**Detrox Detro Enzym**

**Usage Areas**
- Provides pre-cleaning for medical devices and endoscopes and all kinds of surgical instruments
- Cleans the organic contaminations like blood, oil, protein, starch on surfaces
- It is compatible with materials like glass, rubber, wood, ceramic, silicone, plastic, and stainless steel

**Product Properties**
- Concentrated product
- Reduces microbial load of instruments by cleaning organic soil
- Reduces corrosion risk of instruments by cleaning inorganic soil
- Suitable for manual and ultrasonic use and endoscope washing machines
- Effective in 5 minutes manually and in ultrasonic devices
- Contains corrosion inhibitor

**Composition**
- Enzymes (amilase, protease, lipase, cellulase), glycol, nonyionic surfactant, quaternary ammonium compounds, anticorrosive materials.

**Usage**
- The product is used by diluting at % 0.5 concentration.
- Effective in 5 minutes in ultrasonic or manual usage
- Solution life is 24 hours
- At the end of cleaning the instruments are rinsed thoroughly
Hemoclip

**Indication**
- The hemoclip with conveyer is a newly developed hemostasis device by AGS, applying in the mechanical hemostasis of non-variceal bleeding in the stomach and intestine. The unique design of repeated opening and closing makes the hemoclip qualified to open and close repeatedly for many times, enables the operator to perform several times pre-clamping of the target tissues. The hemoclip will not be released until the operators confirm that the pre-clamping is precise and effective, ensuring the effectiveness of the clamping.
- The non-reposition hemoclip is used in conjunction with endoscope, applying in the mechanical hemostasis of non-variceal bleeding and wound suturing in digestive tract.

Sphincterotome (Rotatable)

**Application Scope**
- The swing sphincterotome is mainly intended for resection and coagulation to the duodenal papilla sphincter in the ERCP procedures. It is usually used in conjunction with the guide wire devices.

**Features**
- The success rate of intubation can be improved significantly through swinging tip and make a proper direction.
- Leading processing technology; ensuring limited cutting and avoiding excessive deformation.
- The unique design of applying power from outside of handle can effectively avoid wire wounded and repeatedly plugging in.
Sclerotherapy Needle

Application Scope
- Clinically, disposable endoscopy injection needle is a medical device that pass the endoscope channel into the alimentary canal or gastrointestinal tract to perform injection to the gastrointestinal mucosa, injects sclerosing or hemostatic drugs to the selected area by using endoscope to control the present haemorrhage or potential haemorrhage spot in the digestive system, and operates the injection of physiological saline after endoscopic mucosal biopsy and polypectomy.

Features
- Superior radiopaque
- Conform to ergonomics
- Good fluidity

Sphincterotome

Application Scope
- The sphincterotome knife is mainly intended for resection and coagulation to the duodenal papilla sphincter in the ERCP procedures. It is usually used in conjunction with the guide wire devices.

Features
- Superior radiopaque
- Conform to ergonomics
- Good fluidity
Stone Extraction Basket (Security Wire)

Application Scope

- Disposable stone extraction basket (security wire) is used for the endoscopic removal of biliary stones and foreign bodies.

Features

- Super smooth sheath tube; protecting working channel; simple operation
- Strong basket; excellent shape keeping
- The unique design of tip will effectively help to solve stone incarceration

Indication

- Disposable stone extraction basket is used for the endoscopic removal of biliary stones and foreign bodies.

Polypectomy Snare

Indication

- The polypectomy snare is a monopolar electrosurgical device used with an electrosurgical unit for endoscopic polypectomy

Application Scope

- Cold polypectomy snare is used with endoscope to remove the foreign bodies in digestive tract.

Cold Polypectomy Snare

Stone Extraction Basket
Grasping Forceps

**Indication**
- The disposable grasping forceps is used in conjunction with the soft endoscopes, entering into the human body cavity such as respiratory tract, esophagus, stomach, intestine and so forth through the endoscope channel, to grasp tissues, stones and foreign matters as well as to take the stents out.

Biopsy Forceps

**Indication**
- The disposable biopsy forceps works with flexible endoscopes, passing through the endoscope channel into the human body cavity to take the living tissues for pathology analysis.

Guide Wire

**Indication**
- The guide wire is intended for ERCP diagnosis or therapy when there seems to be various diseases of the digestive system in the pancreatic and biliary duct.

Stone Retrieval Balloon (Platoid)

**Indication**
- The stone retrieval balloon (platoid) is used in conjunction with flexible endoscope to extract the stones on bile duct, which can also provide lumen for inserting guide wire and injecting contrast agent.

**Features**
- Low resistance; low friction; comfortable handfeel
- Excellent shape keeping; prevent side leakage when retrieving stones.
- Optimizing tip shaping design; achieving great intubation features; increasing stone retrieval success rate.
Laparoscopy
Full HD Camera

Full HD Camera

- The Full HD Camera head features an ergonomic design and is ideally suited for all indications (laparoscopy, arthroscopy, hysteroscopy, urology). The image format has an aspect ratio of 16:9. The threaded connector for video lenses corresponds to the C-mount standard. The Full HD Camera cable is replaceable.

LED Light Source

- The LED-Light Source has a universal fiber optic cable holder connectible to the Storz, Olympus, ACMI, and Wolf light cable adapters. The intensity of the Light Source is adjustable. The light intensity is 1,400 lumens. After an operating time of 10,000 hours, Lemke guarantees a minimum light output of at least 90%.

HD Capturing

- An SD storage card with a USB port is available when selecting the capture option to record camera and video images. HD photos and videos are saved with a resolution of 720 pixels. The amount of memory needed and the speed of saving the data are reduced with an optimal image quality.

Product Parameter

- Camera: 1/3" CCD waterproof camera
- Scanning standard: DVI output 600 lines
- Output: video
- Light source: LED lamp
- Light source color temperature: 6000K
- Storage: SD card dynamic/static storage
- Display screen: 15" TFT color screen

Easy and Practical Operation

- Simple panel adjustment can get a nice image effects
- White balance support manual or automatic adjustment

Applies to All Clinical Departments

- General Surgery, Gynecology, ENT
- Gastroenterology, Urology
- Respiratory medicine
- Orthopaedics, Thoracic surgery
- All department using the endoscope
Laparoscopy
CO2 Insufflator

Features
- Safe technology that adapts to the patient
  Reliable base unit, Highest safety, Mature technology
- Easy to use, universal, efficient
  A highly reliable device for demand of daily hospital routines. Easy to use by the staff and comprehensive safety components to protect patients.
  The maximum flow capacity is 30 liters per minute. The start settings for flow and pressure are customized individually. The Insufflator has a reliable venting system that safely reduces excess pressure in patients. A replaceable gas filter protects the device from gas supply contamination.
- A connector for almost all standard insufflation tubes. Disposable and autoclavable tube sets available.

Laparoscopy
Multi-Indication Pump

Laparoscopy

- All functions required of the Pump can be adjusted via the touch screen with easy to use controls. Unambiguousness ensures maximum safety during surgery

Arthroscopy

- The clearly arranged and intuitive graphical user interface makes it possible to see all key parameters at a glance. The wash function optimizes the visual conditions in the joint. Flow and pressure are adjustable. Highly stringent safety standards prevent overpressure within the joint.

Hysteroscopy

- Pressure and flow are controlled intuitively via setting keys. A scale to measure the deficit is an available option. The display prominently depicts the status of the fluid deficit.

Urology

- Security is the alpha and omega in the field of minimally invasive surgery. The display design optimally supports handling of the Pump. Important data immediately catch the eye and action prompts facilitate proper operation of the Pump, thereby increasing safety considerably. A deficit measurement is an available option.

Patient Safety

- The Pump can be used with up to four indications. Each indication can be unlocked individually as well as combined with one another. The automatic instrument recognition optimally adjusts the Pump to the instrument to be used. A transponder in the tube ensures the highest level of patient safety and maximizes pump output. The device is also equipped with a vacuum pump for suction, a 5.7" touch screen display, and an optional foot switch.
Electrosurgical Unit (ESU)  
Pulsar MB350

- Pulsar MB350 provided with all the performance needed for the monopolar or bipolar use in open or laparoscopic surgery
- Pulsar MB350 also allows the users to memorize up to 33 programs for all surgical needs and 6 specific programs for the use in saline with mini resectoscopes and bipolar instruments 5 Fr.

Technical Data

- Electronic generator : Complying with IEC 60601-1 and IEC 601-2-2 Standards. (Class I - Type CF).
- EC Approval : CE 0051 - Certifi cate 1665/MDD.
- Monopolar and Bipolar working frequency : 440kHz +- 10%.
- Output circuit : “Floating out”, insulated from earth at the high and low frequencies, protected against the use of the defibrillator.
- Foot-switch : Twin water-proof foot-switch (IPN8).
- Monopolar use: By 1 or 2 pencils / instruments with hand or foot switched activation.
- Bipolar use : By 1 instrument with foot switched activation.
- Auto-check system : By twin microprocessor with auto-check at the switching on, continuous control during the functioning and block of the power delivery with information of users by Error codes in case of problems or faults.
- Neutral electrode control : For the use of “Double section” or “Single section” electrodes with acoustic and visual alarm signal.
- Mains and Absorption : 230 V ~ 50 Hz - 828 VA.
- Fusibili di rete : T 2x 5 A.
- Dimensions and weight : 38x35x17cm – 15Kg

Features

- Controlled force  
The special full load of 1.5 Nm allowes a controlled, powerful cutting of tissue with a very low drive
- Safe application  
The activating ring with integrated „Cut / No-Cut“ function increases the safety and protects the blade during nonapplication.
- Pressure resistant  
The special Valve Module enables the use of blueendo Tenaculum Forceps and maintains pressure constantly even during the change of instruments.
- Sharp cut with big lumen  
The Cutting Modules feature an excellent cutting quality. The big diameters enable a very time-saving, efficient morcellation.
- Simple handling  
Change of Cutting Modules / diameters during the operation through the patented click system „Quick Connect“.  
A system which makes sense - On- / Off- Button
For simple handling optionally on the Grip
- Simple processing  
The used materials of the Grip Module and the Trocar Systems enable a standard processing at 134°C. Module or the Foot Pedal.

Ergonomic Design

- Grip Module lies well in the hand and its weight is balanced.
- Variable adjustable  
Controlled speed of Cutting Modules with constant, powerful efficiency
WOM

Lithotriptor
Freddy U100Plus Laser Lithotripsy

Features
- FREDDY (Frequency-Doubled Dual Pulse Nd:YAG)
- Highest levels of efficiency and safety
- The energy of the FREDDY lithotriptor is transferred to the stone via a highly flexible quartz glass fiber and effects fragmentation with shockwaves generated directly on the application site
- Non-thermal method of this method neither coagulates nor perforates tissue even in case of accidental direct fiber contact

Technical Data
- Laser wave lengths: 532 nm and 1064 nm, dual pulse
- Laser pulse energy: 120 mJ and 160 mJ
- Laser pulse duration: 1.2 μs (at 1064 nm)
- Laser pulse rate: 1, 3, 5, 10, 15, 20 Hz single and double pulses
- Power requirements: 100-240 V~ / 50-60 Hz 610 VA (6 A @ 110 V)
- Dimension (W x H x D): 250 x 850 x 600 mm
- Weight: approx. 45 kg/99 lbs.
Flexible Video Endoscopes

CMOS Chip on Tip

- Durable, no fiber design, more flexibility, and less maintenance.
- The slimmest outer diameter reaches 2.8mm
- Portable design for anytime and anywhere
- Compact, light source display and processor all in one
- Attach water proof cap to achieve IPX7 for fully immersing disinfection

Flexible Video Ureterorenoscope and Cystonephroscope

**RIRS & PCNL, flexible endoscopy solutions**

- Better vision and durability than traditional fiber scopes.
- Video chip in tip technology
- 275° bending to reach lower calyx
- Left and right 120° insertion rotation
- Photograph and video recording
- Video signal output ability to medical grade display

**Urology**

**Occurrences, RIRS (Retrograde Intra Renal Surgery)**

- RIRS is an effective surgery which is using flexible uretero-renoscope to enter kidney retrogradely. Seesheen UR-332 flexible uretero-renoscope combines chip on tip technology which gives better vision and durability than the fiber scopes

**Occurrences, PCNL (Percutaneous Nephrolithotomy)**

- Compared with rigid cysto-scope, Seesheen CN-355 offers soft and flexible cystoscopy for examination and therapy, it also can be used for PCNL when the rigid scopes meet blind area during the operation
**Flexible Bronchoscopy Solutions**

- Slimmest 3.2mm outer diameter
- Chip on tip video technology
- Left & right 120° insertion rotation
- Photograph and video recording
- Portable design offers more convenience for routine examination and therapy

**Flexible Video Intubation Laryngoscope**

*Complete tracheal flexible intubation solutions*

- Slim, standard and therapy type for optimized usability
- Chip in tip video technology
- Portable design is applicable to intubation in anywhere
- Photograph and video recording
- Standard configure 3 inch attachable display

**Pulmonary**

*Occurrences, make bronchoscopy become more accessible*

- Nowadays, bronchoscopy is becoming a crucial tool of lung disease interventional therapy. Seesheen flexible video bronchosopes including 3 types which offer more accessible bronchoscopy therapy solutions.
  - Intervventional laser / cryo-therapy
  - Remove of mucus / foreign bodies
  - Placing airway stent / bronchial dilatation
  - Lavage such as BAL / WLL
  - Dose purpose for instance fistula blocking or EBTB

**Anesthesiology**

*Occurrences, safe and fast intubation*

- Seesheen intubation scope standard attaches removable 3 inch display which offers open vision and brilliant user experience. The product line offers ideal and completed intubation solutions by the features of versatile, efficient, and scatheless. They can be used for the situations:
  - Difficult airway intubation
  - Special patient postures
  - Awaking intubation
  - DLT / BB position checking
  - Nasotracheal intubation
  - Teaching and practice
E.N.T.
Flexible Rhinolaryngoscopy Solutions

- Portable design for OPD daily using
- Wide 120° viewing angle
- Chip on tip video technology
- Integrated LED light source
- 130° up and down bending angles
- Less stimulus and more accurate for examination and therapy
- Photograph and video recording

E.N.T.
Occurrences, softer and safer

- Flexible rhinolaryngoscopy is currently one of the most commonly used techniques for visualizing the nasal cavity, the sinuses, the pharynx, and the larynx. Seesheen flexible video rhinolaryngoscope EV-349 which has 2.2mm working channel can be widely used for:
  - Polypectomy of nasal and vocal cord
  - Adenoids removal
  - Rhinopharyngeal checking and removal
  - Accurate dosing
  - Checking bleeding points

Flexible Video
Choledochoscope
LTCBDEC Choledochoscopy Solutions

- Video chip on tip technology
- Photograph and video recording
- Left & right 120° insertion rotation
- Video signal output ability to medical grade display

General Surgery
Occurrences, LTCBDEC
Laparoscopic Transcystic Common Bile Duct Exploration with Choledochoscope

- LTCBDEC, coordinate with laparoscope, Seesheen choledochoscope can be used for LTCBDEC which is an ideal solution for lithotripsy. CV-332 with 3.2mm outer diameter and 1.2mm instrument channel can support doctor to search and break stones in smaller biliary duct.
Lithotripter
Pneumatic Lithotripsy, Lithosplit 4.1 Digital

Frequencies of impacts
- There are total thirteen choices. Twelve repeat frequency starting 1 per second up to 12 per second. In addition Mono mode is provided to control the trigger precisely.

Energy Control
- Easy to use Electronic control is provided to set a desired energy level from 1 to 10. This wide range of control allows a Surgeon to disintegrate stone of any hardness and size easily.

Lithosplit Super Hand Piece
- High precision LITHOSPLIT Hand Pieces use matched piston and cylinder to give a long and reliable service life. It is very easy to assemble. There are various choices of sterilisation. Its efficacy is proved for disintegrating hard and large stones.

Lithosplit Probes
- Probes are available in various sizes to treat stones in bladder, urethra or kidney. 0.8mm and 1.0mm probes are used for URS. 1.5mm is designed for locations in bladder and kidney. A strong 2.0mm probe works very well on large and hard stones in kidney.

Lithotripter
Suction Assembly for PCNL
1. Probe
2. Suction assembly
3. Suction connection
4. Silicone washer
5. Coupler
6. Assembled Handpiece
Lithotriptor
digiFLOW - ST2

Salient Features
- Fully automatic or manual operation
- User friendly system
- Uses in-built thermal technology printer
- The printer requires no maintenance, no ink refilling
- Prints crisp and clear high resolution printouts
- Test duration up to 2 minutes
- Infinite stand by time in auto mode
- Multiple tests can be conducted successively without emptying the jar every time
- Auto or manual start and stop
- Patient data with test results is stored in the memory and can be retrieved any time for printing before starting the next test.
- Maintenance free
- Printout contains graph and tabular text data
- Flow measurement range: 0–50 ml/sec
- Volume measurement range: 0–750 ml
- Removes artefact automatically
- Reusables urine collection jar
- High precision sensor for flow and volume
- Upgradation to Urodynamics possible
- Compact and portable system

Lithotriptor
digiFLOW - 4

Salient Features
- Fully automatic
- User friendly PC based system
- Uses PC’s USB port for communication with the hardware
- Prints crisp and clear colourful or greyscale printouts on any color deskjet or laser printer installed on the PC.
- Real-time coloured display
- Long test duration, up to 30 minutes
- Multiple tests can be conducted successively without emptying the jar every time
- Auto or manual start and auto stop
- Patient data with test results is stored in the PC and can be retrieved any time for reference or for reprinting
- Maintenance free
- Printout contains graph and tabular text data
- Flow measurement range: 0–50 ml/sec
- Volume measurement range: 0–2000 ml
- Facility to remove artefact manually
- Reusable urine container and funnel
- High precision sensor for flow and volume
- Selectable scaling (zooming) for both display as well as print
- Upgradation to Urodynamics possible
- Packed with full on line help
Laparoscopy Instruments

**Optic**

- HD Telescope; Autoclavable Ø 10.0 mm; 340 mm; 0°

**General Hand Instruments**

- Veress Needle; Ø 2.7 mm; FL 120 mm

- Trocar Sleeve; Smooth Metal Tube Ø 11.0 mm; FL 100 mm

- Trocar Tip; Pyramidal Tip; Ø 11.0 mm; for FL 100 mm

- Trocar Sleeve; Smooth Metal; Ø 5.5 mm; FL 95 mm

- Trocar Tip; Pyramidal Tip; Ø 5.5 mm; for FL 95 mm

- Reducer for Trocar Sleeves Ø 11.0 - 5.5 mm

- Handle available with or without ratchet

- Dissecting Grasper; Maryland Dilip
  Dissecting and grasping forceps (FL 330 mm)

- Atraumatic Grasper; Babcock
  Non Traumatic FL 330

- Atraumatic Grasper; Johan
  Fenestrated; Blade 38 mm; FL 330 mm

- Traumatic Grasper; Claw Forceps
  Straight; Blade 22 mm; FL 330 mm

- Scissors; Metzenbaum
  Standard Scissors Curved; Serrated;
  Blade 14 mm; FL 330 mm
Laparoscopy Instruments
General Hand Instrument, Bipolar Grasper

T - Style Handle for Bipolar Coagulation Forceps; Inclusive Shaft Ø 5.0 mm; FL 340 mm

T - Style Turnable for Bipolar Coagulation Forceps; Inclusive Shaft Ø 5.0 mm; FL 340 mm

Insert Bipolar Power T - Style; Grasping Forceps; Bipolar; Curved Insert for Ø 5.0 mm

Maryland; Bipolar Insert; Curved; for Ø 5.0 mm

Outer Shaft Ø 5.0 mm; FL 340 mm

Bipolar Cable; Banana Plugs Cable with 2 x Ø 4 mm; 3 m

Adapter for Bipolar Cable with Flat Plug

Handle for Bipolar Coagulation Forceps; Inclusive Shaft Ø 5.0 mm; FL 340 mm

Tong Type; Bipolar Insert; Wide 3.0 mm for Ø 5.0 mm
Laparoscopy Instruments
General Hand Instruments, Suction Irrigation Tube Set

Adapter for HF - Electrode
Suction Irrigation Pistol Handle Style; Premium Version; tube connectors; with maximum suction flow Ø 5.2 mm

Monopolar Cable; Ø 4.0 mm ; 3 m

Suction Irrigation Tube
Ø 3.0 mm; FL 330 mm
Ø 5.0 mm; FL 330 mm

Laparoscopy Instruments
Digestive Hand Instruments, Stone Removal Forceps

Handle without rachet

Spoon Forceps;
Single action jaw
Ø 10.0 mm; FL 330 mm

Tube Shaft Insulated with Cup Nut
Ø 10.0 mm; FL 330 mm

with open eye  with closed eye
Laparoscopy Instruments
Digestive Hand Instruments, Gall Bladder Extractor

Handle with ratchet; Violet HF Connector
Tube Shaft Insulated with Cup Nut
Ø 10.0 mm; FL 330 mm

Claw Forceps; Single action jaw
Ø 10.0 mm; FL 330 mm

Laparoscopy Instruments
Digestive Hand Instruments, Stone Removal Forcep

Liver Fan Retractor; Bendable; 3 Fingers
Ø 5.0 mm; FL 340 mm

Clip Applicator; Rotatable; Detachable;
Ø 10.0 mm; FL 320 mm

Medium Large for Ethicon Clips
Ø 5.0 mm; FL 320 mm

Laparoscopy Instruments
Obgyn Hand Instruments

Aspiration Needle; Puncture-Injection-Needles
Ø 5.0 mm; Ø 1.4 mm needle; FL 330 mm

Uterine Manipulator with 6 Tips

Laparoscopy Instruments
Obgyn Hand Instruments, Ring Applicator & Trocar

Multifunctional Trocar Sleeve; Ø 7.0 mm;
Working Length 101 mm; Trocar Pyramidal Tip Ø 7.0 mm;
Length 101 mm; Ring Applicator for Tube Sterilization;
Ø 7.0 mm + 15 Ring

Myoma Screw
ENDOSCOPY

**Laparoscope**

- Needle-holding Forceps
- V-Needle Holder Forceps Ø 5 x 330mm
- JLG Finger

**Schematic Diagram**
- Head 360° rotation
- Can be detachable in 3 parts (handle, shaft, and inserts)

**Disposable Instruments, Endobag**

**Urology Instruments**

- Stone Grasping Forceps
- Endoscope 70° Ø 4 x 302mm
- Stone Crushing Forceps
- Evacuator (Ellik)
- Adaptor with Tube
Single Port Laparoscopy
Glove Port

Features

- Can be opened during operation
- Can be used in robotic surgery
- Each port can move independently
- Rolling the sheet helps to open incision easily
- Soft movement can make surgery easy
- Only 2-2.5cm incision makes small scar dependently
- Polyurethane wound retractor-not torn easily and softer than silicone
- Separation gas inlet and outlet
- High-elastic port cap
- Various size of port 3mm-15mm-reduction of collision between instruments
- Insertion can be seen through transparent port part

Characteristics

- Minimum Incision
  Allows minimal scar surgery as well as decreased post-operative pain, fast recovery and return to everyday activity.
- Polyurethane is sturdier and more elastic so our Glove Port is very resistant to tears.
- Convenient Removal
- Separate Inlet & Outlet
  CO2 can easily be pumped in to remove smoke during operation.
- Port Caps High Elasticity
  A variety of instrument sizes can be inserted into the caps (3mm~12mm)

Disposable Trocar

- TROPIAN is designed to enhance surgeons and assistants of health.
- The key features of this product including the filter.
- A distinctive aspect of our product is Triple filter system.
- During the laparoscopic operation, triple filter purify somke and burning smell in the operation room.
- We can provide a better operating room environment with TROPIAN. This is our ultimate goal.

Disposable Trocar Features

- Good Grip, ergonomic designed trocar palm.
- Stable position hold, ribbed Cannula can be firmly on the surgical part on the Abdominal wall.
- Responsible for the health of surgeons and assistants, equipped with filter for smoke evacuation (2 model, ZT-12F, ZT-22F)
- Fully sterilized with plasma sterilization equipment.
- Integrated Converter
  Tropian (ZT-30, ZT-40) is possible to use 5-12mm diameter instrument without change converter.
Hysteroscopy Instruments

Hysteroscopy Set

- **Outer Sheath; 16 Fr; Quick Lock System**

- **Telescope Ø 2.9 mm; 30°; HD Autoclavable; 300 mm**

- **Working Sheath with 1 Working Channel 5 Fr**

  - **Quick Lock System for Endoscope 2.9 mm**

Hysteroscopy Instruments

Resectoscopy Set

- **Outer Sheath; 16 Fr; Quick Lock System**

- **Inner Sheath Rotatable; 16 Fr; Quick Lock System**

- **HF Electrodes; Ball Angled; Bipolar; for 16 Fr System**

- **HF Electrodes; Loop; Large 90° Angled; for 16 Fr System; Bipolar**

- **Telescope Ø 2.9 mm 0°; HD Autoclavable; 300 mm**

- **Hybrid System (Monopolar or Bipolar)**

  - **Working Element Titanium; Bipolar; Passive Cutting; Closed Handle; Quick Lock System for 0° Telescope**

- **Monopolar Cable for Electrode & Loops Ø 4.0 mm; 3.0 m**

- **Bipolar HF Connection Cable International Model; 2 Pins 3 m**
Hysteroscopy Instruments
Paracervical Block

Paracervical - Block

- Applying injection of local anesthetics before hysteroscopic office procedures leads to significant pain reduction.
- For a successful performance of the uterine paracervical block
- Pain reduction made easy, safe, and reliable

Technical Specifications

- The portio has to be set by speculum
- The injection needs to be placed at the two points shown at the "x" marking (right and left lateral vaginal fornix), just below the transverse midline that divides the cervix.

Urology Instruments
Urology Hand Instruments; Optic Urology

Urology Instruments
Urology Hand Instruments; Cystoscope - Urethroscope

Cystoscope Sheath with Obturator 2 Stopcocks

<table>
<thead>
<tr>
<th>Color</th>
<th>Fr</th>
<th>Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>White 25 Fr</td>
<td></td>
<td>Channel 1 x 10 / 2 x 8 Fr</td>
</tr>
<tr>
<td>Blue 23 Fr</td>
<td></td>
<td>Channel 1 x 9 / 2 x 7 Fr</td>
</tr>
<tr>
<td>Red 21 Fr</td>
<td></td>
<td>Channel 1 x 7 / 2 x 5 Fr</td>
</tr>
<tr>
<td>Green 19 Fr</td>
<td></td>
<td>Channel 1 x 6 / 2 x 5 Fr</td>
</tr>
<tr>
<td>Yellow 17 Fr</td>
<td></td>
<td>Channel 1 x 5 Fr</td>
</tr>
</tbody>
</table>

HD - Telescope Urology; Autoclavable

<table>
<thead>
<tr>
<th>Size</th>
<th>Flange</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 4.0 mm; FL 300 mm</td>
<td>0°</td>
<td></td>
</tr>
<tr>
<td>Ø 4.0 mm; FL 300 mm</td>
<td>30°</td>
<td></td>
</tr>
<tr>
<td>Ø 4.0 mm; FL 300 mm</td>
<td>70°</td>
<td></td>
</tr>
<tr>
<td>Ø 4.0 mm; FL 300 mm</td>
<td>12°</td>
<td></td>
</tr>
</tbody>
</table>
Urology Instruments
Urology Hand Instruments; Resectoscope

Hybrid System (Monopolar or Bipolar)
Working Element Passive Cutting; Closed Handle for Ø 4.0 mm Telescope; HF-Connection Down

Resectoscope Sheath; Continuous Flow 26 Fr; 2 Stopcock; Turnable Tube without Obturator; All Round Perforation

Obturator for Resectoscope; 24 / 26 Fr

Loop Electrode Angled; 24 / 26 Fr; Yellow for 30° Telescope

Knife Electrode Angled; 24 / 26 Fr; Yellow

Ball Electrode; Ø 3.0 mm; 24 / 26 Fr; Yellow

Ellik Evacuator Glass

Sheath Connection for Ellik Evacuator

Urology Instruments
Urology Hand Instruments; Sachse Optical Urethrotome

Urethrotome Sheath Visual 21 Fr; 2 Fixed Stopcocks; Graduated Guide Wire Port 5 Fr

Obturator for Urethrotome 21 Fr

Stricture Knife Straight; 21 Fr

Stricture Knife Round Shaped; 21 Fr

Supplementary Sheath for Urethrotome Lateral Open; 21 Fr
Urology Instruments
Urology Hand Instruments; Lithotrite & Stone Crushing Forceps

- Lithotripsy Sheath Central Valve 24 Fr
- Working Element for Punch Lithotripsy; Optical; 24 Fr
- Telescope Bridge; 1 Instrument Channel
- Obturator for Lithotripsy 24 Fr
- Stone Crushing Forceps; for Sheath 25 Fr

Urology Instruments
Urology Hand Instruments; Accessories

- Urethral Bougie
  - 8 Charr: 27.5 cm
  - 10 Charr: 27.5 cm
  - 12 Charr: 27.5 cm
  - 14 Charr: 27.5 cm
  - 16 Charr: 27.5 cm
  - 18 Charr: 27.5 cm

- Urethral Bougie
  - 20 Charr: 27.5 cm
  - 22 Charr: 27.5 cm
  - 24 Charr: 27.5 cm
  - 26 Charr: 27.5 cm
  - 28 Charr: 27.5 cm
  - 30 Charr: 27.5 cm

- Stockmann; Penis Clamp; 8 cm
- Strauss; Penis Clamp 11 cm

- Insertion Mandrin
Urology Instruments
Urology Hand Instruments; Uretero - Renoscope

Uretero - Renoscope; 12°, 1 Instrument Channel 5 Fr;
7.5 Distal; 430 mm

Flexible Stone Basket; Complete Instrument;
Handle & Basket; 5 Fr; 600 mm

Grasping Forcep; Flexible Alligator Jaw; Double Action;
5 Fr; 600 mm

Urology Instruments
Urology Hand Instruments; Percutaneous Nephroscopes

Nephroscope 15°; 1 Working Channel Ø 5.0 mm;
2 Fixed Stopcocks 26 Fr; 200 mm

Nephroscope Sheath without Obturator 1
Turnable Stopcock; 26 Fr; 175 mm

Dilatation Set for Nephroscope Content; 1 Guide Wire Rigid
+ Flexible 1 Each Dilatator Ø 9, 12, 15, 18, 20, 21, 24, 27, 30 Fr

Obturator Nephroscope; 26 Fr

Instrument Bridge for Nephroscope

Grasping Forceps; Fenestrated Jaws

Grasping Forceps; Serrated

Grasping Forcep; 3 Expanding Jaws
Urology Instruments
Cystoscope (Lockable)

- Manipulator with two channels
- Sheet with obturator F23, F18.5, F21, F16.5
  - 0° Ø 4 x 302 mm
  - 30° Ø 4 x 302 mm
  - 70° Ø 4 x 302 mm

Sheet with Obturator F23, F18.5, F21, F16.5

Manipulator with Two Channels

Cleaning Pole

Urology Instruments
Urethrotomy Set (Lockable)

- Sheath with obturator 21Fr
- Supplementary sheath
- Working handle (passive)

Sheath with Obturator 21Fr

Supplementary Sheath

Working Handle (passive)

Lancet

Half Round Knife

Hook Shape Knife
### ENT Instruments
#### ENT Telescopes, Sinusscopes

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sinuscope HD</td>
<td>Ø 4.0 mm; 0°; FL 185 mm</td>
</tr>
<tr>
<td>Sinuscope HD</td>
<td>Ø 4.0 mm; 30°; FL 185 mm</td>
</tr>
<tr>
<td>Sinuscope HD</td>
<td>Ø 4.0 mm; 70°; FL 185 mm</td>
</tr>
</tbody>
</table>

### ENT Instruments
#### ENT Telescopes, Otoscope

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Otoscope HD</td>
<td>Ø 1.9 mm; 0°; FL 60 mm</td>
</tr>
</tbody>
</table>

### ENT Instruments
#### ENT Telescopes, Flexible Rhino - Laryngoscope

**Description**
- ENT-Ultraslim Flexible Rhino-Laryngoscope
  - Ø 3.4 mm; FL 300 mm
  - bending range 130° up and down
  - direction of view 0°

**ENT Viewer CMOS Video; Rhino - Laryngoscope**
*All in One HD MED-CAM System*
E.N.T Instruments
Endoscope

Otoscope
0° Ø 4 x 50 mm
30° Ø 4 x 50 mm
0° Ø 2.7 x 100 mm
30° Ø 2.7 x 100 mm

Sinoscope
0° Ø 4 x 175 mm
30° Ø 4 x 175 mm
70° Ø 4 x 175 mm
0° Ø 2.7 x 175 mm
30° Ø 2.7 x 175 mm
70° Ø 2.7 x 175 mm

Laryngoscope
70° Ø 8 x 178 mm
90° Ø 8 x 178 mm
70° Ø 6 x 178 mm

E.N.T Instruments
ERK Ear Surgical Instruments Set

Middle Ear Forceps
Short Triticeons Forceps
Upward Forceps

Forceps
Fixed Stapes Forceps
Stapes Head Forceps

Suction for Ear Operating (Straight)
Suction for Ear Operating (Curved)
E.N.T Instruments
Sinoscope Set

- Optical Forceps Ø 4.3 mm
- Trocar Needle
- Nasal Sinuses Curette
  - with hole
  - without hole
- Sickle Knife
- Sharp Head
- Blunt Head
- Maxillary Rongeur
  - Pistol Shape
- Suction Tube Ø 3 x 125 mm
- Suction Tube
  - Ø 4 x 155 mm
  - Ø 3 x 155 mm
  - Ø 2.5 x 155 mm
- Elevator
- Nasal Tissue, Straight Type
- Nasal Tissue, Left Curved
- Nasal Tissue, Right Curved
- Front Biting
- Back Biting
Arthroscopy Instruments
Arthroscopy Hand Instrument, Sheath with Fixed Stopcocks

Outer: Ø 6.5 mm; FL 140 mm

For direction of view:
Ø 4.0 mm; FL 175 mm

<table>
<thead>
<tr>
<th>Number of fixed stopcocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°/30°/45°/70°</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

Arthroscopy Instruments
Arthroscopy Hand Instrument, Telescope Arthroscopy

HD - Telescope Arthroscopy; Autoclavable
Ø 4.0 mm; 175 mm 30°

Arthroscopy Instruments
Arthroscopy Hand Instrument, Stella Punches

Wide Punch Low Profile: Straight

<table>
<thead>
<tr>
<th>Description</th>
<th>Sheath Version</th>
<th>Tip Profile</th>
<th>Bite Wide</th>
<th>Jaw Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight; Small</td>
<td></td>
<td>1.90 mm</td>
<td>2.50 mm</td>
<td>4.10 mm</td>
</tr>
<tr>
<td>Straight; Medium</td>
<td></td>
<td>1.90 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Straight; Large</td>
<td></td>
<td>1.90 mm</td>
<td>4.50 mm</td>
<td>6.10 mm</td>
</tr>
<tr>
<td>Curved Left 12°; Medium</td>
<td></td>
<td>1.90 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Curved Right 12°; Medium</td>
<td></td>
<td>1.90 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Curved Up 15°; Medium</td>
<td></td>
<td>1.90 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
</tbody>
</table>
### Arthroscopy Instruments

**Arthroscopy Hand Instrument**, Stella Punches

#### Wide Punch Low Profile:

<table>
<thead>
<tr>
<th>Description</th>
<th>Sheath Version</th>
<th>Tip Profile</th>
<th>Bite Wide</th>
<th>Jaw Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upbiter Straight; Small</td>
<td></td>
<td>1.90 mm</td>
<td>2.50 mm</td>
<td>4.10 mm</td>
</tr>
<tr>
<td>Upbiter Straight; Medium</td>
<td></td>
<td>1.90 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Upbiter Straight; Large</td>
<td></td>
<td>1.90 mm</td>
<td>4.50 mm</td>
<td>6.10 mm</td>
</tr>
<tr>
<td>Upbiter Curved Left 12°; Medium</td>
<td></td>
<td>1.90 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Upbiter Curved Right 12°; Medium</td>
<td></td>
<td>1.90 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Upbiter Curved Up 15°; Medium</td>
<td></td>
<td>1.90 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
</tbody>
</table>

#### Wide Punch Standard Profile:

<table>
<thead>
<tr>
<th>Description</th>
<th>Sheath Version</th>
<th>Tip Profile</th>
<th>Bite Wide</th>
<th>Jaw Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upbiter Straight; Small</td>
<td></td>
<td>2.50 mm</td>
<td>2.50 mm</td>
<td>4.10 mm</td>
</tr>
<tr>
<td>Upbiter Straight; Medium</td>
<td></td>
<td>2.50 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Upbiter Straight; Large</td>
<td></td>
<td>2.50 mm</td>
<td>4.50 mm</td>
<td>6.10 mm</td>
</tr>
<tr>
<td>Upbiter Curved Left 12°; Medium</td>
<td></td>
<td>2.50 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Upbiter Curved Right 12°; Medium</td>
<td></td>
<td>2.50 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Upbiter Curved Up 15°; Medium</td>
<td></td>
<td>2.50 mm</td>
<td>3.20 mm</td>
<td>5.00 mm</td>
</tr>
</tbody>
</table>

#### Rongeur

<table>
<thead>
<tr>
<th>Description</th>
<th>Sheath Version</th>
<th>Tip Profile</th>
<th>Jaw Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight</td>
<td></td>
<td>3.00 mm</td>
<td>3.20 mm</td>
</tr>
</tbody>
</table>
# Arthroscopy Instruments
## Arthroscopy Hand Instrument, Stella Punches

### Basket Punch : Scoop Style

<table>
<thead>
<tr>
<th>Description</th>
<th>Sheath Version</th>
<th>Tip Profile</th>
<th>Bite Wide</th>
<th>Jaw Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight; Small</td>
<td></td>
<td>2.10 mm</td>
<td>1.60 mm</td>
<td>3.30 mm</td>
</tr>
<tr>
<td>Straight; Medium</td>
<td></td>
<td>2.30 mm</td>
<td>1.80 mm</td>
<td>3.60 mm</td>
</tr>
<tr>
<td>Straight; Large</td>
<td></td>
<td>2.90 mm</td>
<td>2.00 mm</td>
<td>3.80 mm</td>
</tr>
<tr>
<td>Curved Left 12°; Small</td>
<td></td>
<td>2.10 mm</td>
<td>1.60 mm</td>
<td>3.30 mm</td>
</tr>
<tr>
<td>Curved Right 12°; Small</td>
<td></td>
<td>2.10 mm</td>
<td>1.60 mm</td>
<td>3.30 mm</td>
</tr>
<tr>
<td>Curved Up 15°; Small</td>
<td></td>
<td>2.10 mm</td>
<td>1.60 mm</td>
<td>3.30 mm</td>
</tr>
<tr>
<td>Curved Down 15°; Small</td>
<td></td>
<td>2.10 mm</td>
<td>1.60 mm</td>
<td>3.30 mm</td>
</tr>
<tr>
<td>Straight; Medium</td>
<td></td>
<td>2.30 mm</td>
<td>1.60 mm</td>
<td>3.30 mm</td>
</tr>
</tbody>
</table>

### Oval Punch : Straight

<table>
<thead>
<tr>
<th>Description</th>
<th>Sheath Version</th>
<th>Tip Profile</th>
<th>Bite Wide</th>
<th>Jaw Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight</td>
<td></td>
<td>1.65 mm</td>
<td>4.40 mm</td>
<td>6.60 mm</td>
</tr>
<tr>
<td>Curved Left 12°</td>
<td></td>
<td>1.65 mm</td>
<td>4.40 mm</td>
<td>6.60 mm</td>
</tr>
<tr>
<td>Curved Right 12°</td>
<td></td>
<td>1.65 mm</td>
<td>4.40 mm</td>
<td>6.60 mm</td>
</tr>
<tr>
<td>Curved Up 15°</td>
<td></td>
<td>1.65 mm</td>
<td>4.40 mm</td>
<td>6.60 mm</td>
</tr>
</tbody>
</table>
Arthroscopy Instruments
Arthroscopy Hand Instrument, Stella Graspers

Grasper Alligator; Maximum; Locking Handle

<table>
<thead>
<tr>
<th>Description</th>
<th>Sheath Version</th>
<th>Tip Profile</th>
<th>Jaw Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight</td>
<td></td>
<td>3.20 mm</td>
<td>3.50 mm</td>
</tr>
<tr>
<td>Curved Up 15°</td>
<td></td>
<td>3.20 mm</td>
<td>3.50 mm</td>
</tr>
</tbody>
</table>

Meniscus Grasping Forceps

<table>
<thead>
<tr>
<th>Description</th>
<th>Spez</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meniscus Grasping Forceps; Straight; 1 x 2 teeth</td>
<td></td>
</tr>
<tr>
<td>Meniscus Grasping Forceps; Curved Left 30 ; 1 x 2 teeth</td>
<td></td>
</tr>
<tr>
<td>Meniscus Grasping Forceps; Curved Right 30 ; 1 x 2 teeth</td>
<td></td>
</tr>
</tbody>
</table>

Arthroscopy Instruments
Arthroscopy Hand Instrument, Stella

Instruments with rotating function standard handle

<table>
<thead>
<tr>
<th>Description</th>
<th>Sheath Version</th>
<th>Bite Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>90° Jaw Left</td>
<td></td>
<td>2.20 mm</td>
</tr>
<tr>
<td>90° Jaw Right</td>
<td></td>
<td>2.20 mm</td>
</tr>
<tr>
<td>90° Jaw Left</td>
<td></td>
<td>3.40 mm</td>
</tr>
<tr>
<td>90° Jaw Right</td>
<td></td>
<td>3.40 mm</td>
</tr>
</tbody>
</table>

Instruments with triangular handles

<table>
<thead>
<tr>
<th>Description</th>
<th>Spez</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meniscus Hook Probe; Pointed; Handle</td>
<td></td>
</tr>
<tr>
<td>Meniscus Hook Probe; Graduated; Handle</td>
<td></td>
</tr>
<tr>
<td>Meniscus Hook Probe; Graduated; Handle</td>
<td></td>
</tr>
<tr>
<td>Bayonett Knife; Handle</td>
<td></td>
</tr>
</tbody>
</table>
### Arthroscopy Instruments

**Arthroscopy Hand Instrument, Stella**

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Spez</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ring Curette; 30° Curved; Handle</td>
<td>7.00 mm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Spez</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoon; 30° Curved; Handle</td>
<td>3.00 mm</td>
<td></td>
</tr>
<tr>
<td>Banana Knife; Smooth; Handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Banana Knife; Serrated; Handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hook Knife; Handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knife 45° Retrograde; Toothed; Handle</td>
<td>3.00 mm</td>
<td></td>
</tr>
<tr>
<td>Sickle Knife; Handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rosette Knife; Handle</td>
<td>3.00 mm</td>
<td></td>
</tr>
<tr>
<td>Cartilage File; Fine; Handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cartilage File; Rough; Handle</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Arthroscopic Knife Electrodes; Monopolar**

Ø 4.0 mm; 45° angled; Umax : 4 KVp

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Spez</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knife electrode 45° with handle; reusable; autoclavable 134°</td>
<td>4.0 mm</td>
<td>FL 170 mm</td>
</tr>
</tbody>
</table>

**Arthroscopic Ball Electrodes; Monopolar**

Ø 4.0 mm; Umax : 4 KVp

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Spez</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball electrode with handle; reusable; autoclavable 134°</td>
<td>Ø 3.0 mm</td>
<td>FL 170 mm</td>
</tr>
</tbody>
</table>
Shaver for Arthroscopy

Micro System
- Graphical LCD on the power console shows adjusted motor speed, rotation direction, irrigation pump flow rate, pedal motor connection failure indicator.
- Barled display shows speed demand
- Foot pedal for speed, direction and irrigation control
- Autoclavable swiss made powerful brushless DC motor
- Adjustable speed range up to 40,000 RPM
- Under load motor start-up technology preventing the failures related to motor obstruction during operation
- Low cost of consumable irrigation pump

Power Console
- Operating speed: 40,000 rpm (Adjustable Maximum Speed)
- Operating voltage: 200-240 V
- Power: 260 W
- Irrigation flow rate: 100 ml/min (Adjustable Maximum Flow Rate)
- Frequency: 50-60 Hz
- Dimension: 350 x 280 x 110 mm
- Weight: 5.060 kg

Foot Pedal with irrigation and F/R buttons
- Cable length: 4 m
- Dimension: 200 x 155 x 150 mm
- Weight: 1.560 kg

Motor Cable
- Autoclavable
- Cable length: 4 m
- Weight: 490 g

Swiss Made Powerful Brushless DC Motor Technology
- Autoclavable
- Operating speed: 40,000 rpm (Adjustable Maximum Speed)
- Power: 150 W
- Dimension: 130 x 22 mm
- Weight: 0.160 kg

Shaver Hand Piece
- Variable suction control, connecting to disposable and resuable tips (the tips are ordered separately)
ORTHOPAEDICS

ACL / PCL Reconstruction
Arthroplasty, Hip
Arthroplasty, Knee
Arthroplasty, Revision Knee
Bone Substitute
External Fixator
Interlocking Nails
Preformed Spacers
Spinal System Implant
Trauma Implant, Stainless Steel
Trauma Implant, Titanium
## Trauma Implant
**Titanium, Mini Fragment**

### Mini T-Plate Ø 1.5 mm
<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>02.11121.003</td>
<td>3/9</td>
</tr>
<tr>
<td>02.11121.004</td>
<td>4/9</td>
</tr>
</tbody>
</table>

### Mini T-Plate Ø 2.0 mm
<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>02.11151.003</td>
<td>3/9</td>
</tr>
<tr>
<td>02.11151.004</td>
<td>4/9</td>
</tr>
</tbody>
</table>

### T-Plate Ø 2.7 mm
<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.11131.003</td>
<td>2/3</td>
</tr>
</tbody>
</table>

### Mini L-Plate 90° Ø 2.0 mm
<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>02.11090.002</td>
<td>2/2 (Right)</td>
</tr>
<tr>
<td>02.11090.102</td>
<td>2/2 (Left)</td>
</tr>
</tbody>
</table>

### Mini L-Plate 90° Ø 2.7 mm
<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.11110.003</td>
<td>2/3 (Right)</td>
</tr>
<tr>
<td>03.11110.103</td>
<td>2/3 (Left)</td>
</tr>
</tbody>
</table>

### Mini Plate Ø 1.5 mm, Straight
<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>02.11041.020</td>
<td>20</td>
</tr>
</tbody>
</table>

### L-Plate Ø 2.7 mm
<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.11090.003</td>
<td>2/2 (Right)</td>
</tr>
<tr>
<td>03.11090.103</td>
<td>2/2 (Left)</td>
</tr>
</tbody>
</table>
# ORTHOPAEDICS

## Trauma Implant

**Titanium, Mini Fragment**

<table>
<thead>
<tr>
<th>Mini Plate Ø 2.0 mm, Straight</th>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02.11051.020</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mini Compression Plate Ø 2.0 mm</th>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(interval : 1)</td>
<td>02.11515.004 - 02.11515.008</td>
<td>4 - 8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mini Plate Ø 2.0 mm, Straight</th>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(interval : 1)</td>
<td>02.11510.003 - 02.11510.006</td>
<td>3 - 6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1/4 Tubular Plate</th>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03.11140.003 - 03.11140.008</td>
<td>3 - 8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Washer Ø 7.0 mm, for screw Ø 2.7 to 4.0 mm</th>
<th>Article No.</th>
<th>Outside Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03.11090.003 - 03.11090.103</td>
<td>2/2 (Right)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2/2 (Left)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cortical screw Ø 1.5 mm, Self Tapping</th>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02.03315.006 - 02.03315.012 (interval : 1)</td>
<td>6 - 12 mm</td>
</tr>
<tr>
<td></td>
<td>02.03315.014 - 02.03315.022 (interval : 2)</td>
<td>14 - 22 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cortical Screw Ø 2.0 mm, Self Tapping</th>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02.03420.006 - 02.03420.022 (interval : 2)</td>
<td>6 - 22 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cortical Screw Ø 2.7 mm, Self Tapping</th>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03.03527.006 - 03.03527.024 (interval : 2)</td>
<td>6 - 24 mm</td>
</tr>
</tbody>
</table>
Trauma Implant
Titanium, Small Fragment

Locking T-Plate Ø 3.5 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.15101.003</td>
<td>3/3</td>
</tr>
<tr>
<td>03.15101.004</td>
<td>4/4</td>
</tr>
<tr>
<td>03.15101.005</td>
<td>3/5</td>
</tr>
</tbody>
</table>

Locking T-Plate Oblique Ø 3.5 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.15102.003 - 005 (interval : 1)</td>
<td>3 - 5</td>
</tr>
</tbody>
</table>

Locking Compression Plate Ø 3.5 mm, Undercut (Locking Plate, Straight)

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.15114.004 - 012 (interval : 1)</td>
<td>4 - 10, 12</td>
</tr>
</tbody>
</table>

Locking Clavicle Plate

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.15100.006 - 008 (interval : 2)</td>
<td>6 - 8 Minimum Bend (Right)</td>
</tr>
<tr>
<td>14.15100.106-108 (interval : 2)</td>
<td>6 - 8 Minimum Bend (Left)</td>
</tr>
<tr>
<td>14.15101.006 - 008 (interval : 2)</td>
<td>6 - 8 Minimum Bend (Right)</td>
</tr>
<tr>
<td>14.15101.106 - 108 (interval : 2)</td>
<td>6 - 8 Minimum Bend (Left)</td>
</tr>
<tr>
<td>14.15102.006 - 008 (interval : 2)</td>
<td>6 - 8 Minimum Bend (Right)</td>
</tr>
<tr>
<td>14.15102.106 - 108 (interval : 2)</td>
<td>6 - 8 Minimum Bend (Left)</td>
</tr>
</tbody>
</table>

Locking 1/3 Tubular Plate Ø 3.5 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.15130.004 - 012 (interval : 1)</td>
<td>4 - 10, 12</td>
</tr>
</tbody>
</table>

Locking Cloverleaf Plate Ø 3.5 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.15402.003 - 004 (interval : 1)</td>
<td>3 - 4</td>
</tr>
</tbody>
</table>

Winsta - R Locking Distal Radius Plate, 3 Holes

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.11915.102 - 104 (interval : 2)</td>
<td>2 - 4 (Right)</td>
</tr>
<tr>
<td>10.11915.202 - 204 (interval : 2)</td>
<td>2 - 4 (Left)</td>
</tr>
</tbody>
</table>

Locking Reconstruction Plate Ø 3.5 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>06.15103.004 - 014 (interval : 1)</td>
<td>6 - 10, 12, 14</td>
</tr>
</tbody>
</table>

Winsta - R Locking Distal Radius Plate, 5 Holes

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.11915.502 - 504 (interval : 2)</td>
<td>2 - 4 (Right)</td>
</tr>
<tr>
<td>10.11915.602 - 604 (interval : 2)</td>
<td>2 - 4 (Left)</td>
</tr>
</tbody>
</table>
**ORTHOPAEDICS**

**Trauma Implant**  
**Titanium, Small Fragment**

**Washer Ø 7.0 mm, for screw Ø 2.7 to 4.0 mm**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Outside Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.91000.070</td>
<td>7.0 mm</td>
</tr>
</tbody>
</table>

**Cortical Screw Ø 2.7 mm, Self Tapping**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0303527.006 - 060 (interval : 2)</td>
<td>6 - 60 mm</td>
</tr>
</tbody>
</table>

**Cortical Screw Ø 3.5 mm, Self Tapping**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.03612.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.03612.055 - 080 (interval : 5)</td>
<td>55 - 80 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 3.5 mm, Full Thread**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.01640.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.01640.055 - 060 (interval : 5)</td>
<td>55 - 60 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 4.0 mm, Full Thread**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.01624.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.01624.055 - 060 (interval : 5)</td>
<td>55 - 60 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 4.0 mm, Partial Thread**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.01624.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.01624.055 - 060 (interval : 5)</td>
<td>55 - 60 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 4.0 mm, ParƟal Thread**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.01624.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.01624.055 - 060 (interval : 5)</td>
<td>55 - 60 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 4.0 mm, Full Thread**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.01640.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.01640.055 - 060 (interval : 5)</td>
<td>55 - 60 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 4.0 mm, Partial Thread**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>03.01624.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.01624.055 - 060 (interval : 5)</td>
<td>55 - 60 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 3.5 mm, Partial Thread**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>03.01635.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.01635.055</td>
<td>55 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 3.5 mm, Partial Thread**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>03.01635.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.01635.055</td>
<td>55 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 3.5 mm, Full Threaded, Self Tapping**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.05612.010 - 040 (interval : 2)</td>
<td>10 - 40 mm</td>
</tr>
<tr>
<td>03.05612.045 - 080 (interval : 5)</td>
<td>45 - 80 mm</td>
</tr>
</tbody>
</table>

**Cancellous Screw Ø 2.7 mm, Self Tapping**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.05527.010 - 040 (interval : 2)</td>
<td>10 - 40 mm</td>
</tr>
<tr>
<td>03.05527.045 - 060 (interval : 5)</td>
<td>45 - 60 mm</td>
</tr>
</tbody>
</table>

**Locking cortical Screw Ø 3.5 mm, Self Tapping**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.05612.010 - 040 (interval : 2)</td>
<td>10 - 40 mm</td>
</tr>
<tr>
<td>03.05612.045 - 080 (interval : 5)</td>
<td>45 - 80 mm</td>
</tr>
</tbody>
</table>

**Locking Cortical Screw Ø 2.7 mm, Self Tapping**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.05527.010 - 040 (interval : 2)</td>
<td>10 - 40 mm</td>
</tr>
<tr>
<td>03.05527.045 - 060 (interval : 5)</td>
<td>45 - 60 mm</td>
</tr>
</tbody>
</table>
ORTHOPAEDICS

Trauma Implant
Titanium, Large Fragment

Locking Compression Plate Ø 4.5 / 5.0 mm
Broad, undercut

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.15170.006 - 018</td>
<td>6 - 18</td>
</tr>
</tbody>
</table>

Narrow, Undercut

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.15135.002 - 016</td>
<td>2 - 16</td>
</tr>
</tbody>
</table>

Locking T-Buttress Plate Ø 4.5 / 5.0 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.15172.004 - 006</td>
<td>4 - 6</td>
</tr>
<tr>
<td>04.15172.008 - 010</td>
<td>8 - 10</td>
</tr>
</tbody>
</table>

Locking T-Plate Ø 4.5 / 5.0 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.15171.003 - 008</td>
<td>3 - 8</td>
</tr>
<tr>
<td>04.15171.010 - 012</td>
<td>10 - 12</td>
</tr>
</tbody>
</table>

Locking Compression Plate Ø 4.5 / 5.0 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.15173.003 - 006</td>
<td>3 - 6 (Right)</td>
</tr>
<tr>
<td>04.15171.005 - 013</td>
<td>5 - 13 (Right)</td>
</tr>
<tr>
<td>04.15151.005 - 006</td>
<td>5 - 13 (Left)</td>
</tr>
<tr>
<td>04.05755.016 - 060</td>
<td>16 - 60 mm</td>
</tr>
<tr>
<td>04.05755.006 - 060</td>
<td>65 - 100 mm</td>
</tr>
</tbody>
</table>
### Trauma Implant

**Titanium, Large Fragment**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03745.014 - 070 (interval : 2)</td>
<td>14 - 70 mm</td>
</tr>
<tr>
<td>04.03745.075 - 100 (interval : 5)</td>
<td>75 - 100 mm</td>
</tr>
</tbody>
</table>

**Titanium, Shoulder Fragment**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.03612.010 - 050 (interval : 2)</td>
<td>10 - 50 mm</td>
</tr>
<tr>
<td>03.03612.055 - 080 (interval : 5)</td>
<td>55 - 80 mm</td>
</tr>
</tbody>
</table>

### Cortical Screw Ø 4.5 mm, Self Tapping

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03700.020 - 100 (interval : 5)</td>
<td>2 - 100 mm</td>
</tr>
</tbody>
</table>

### Cancellous Bone Screw Ø 6.5 mm, Full Thread

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03732.040 - 100 (interval : 5)</td>
<td>40 - 100 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03700.020 - 100 (interval : 5)</td>
<td>20 - 100 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03716.025 - 100 (interval : 5)</td>
<td>25 - 100 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03732.040 - 100 (interval : 5)</td>
<td>40 - 100 mm</td>
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</tbody>
</table>

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<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03716.025 - 100 (interval : 5)</td>
<td>25 - 100 mm</td>
</tr>
</tbody>
</table>

### Cortical Screw Ø 3.5 mm, Self Tapping

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03700.014 - 070 (interval : 2)</td>
<td>14 - 70 mm</td>
</tr>
<tr>
<td>04.03700.075 - 100 (interval : 5)</td>
<td>75 - 100 mm</td>
</tr>
</tbody>
</table>

### Cancellous Bone Screw Ø 6.5 mm, 16 mm Thread

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03700.020 - 100 (interval : 5)</td>
<td>20 - 100 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03716.025 - 100 (interval : 5)</td>
<td>25 - 100 mm</td>
</tr>
</tbody>
</table>

### Cancellous Bone Screw Ø 6.5 mm, 32 mm Thread

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.03700.020 - 100 (interval : 5)</td>
<td>20 - 100 mm</td>
</tr>
</tbody>
</table>

### Locking Cancellous Bone Screw Ø 6.5 mm, Full Thread
Interlocking Nail
KTO Femoral Intramedullary Nail

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.4</td>
<td>180 - 240 (interval : 20)</td>
<td>T82094180 - T82094240</td>
</tr>
<tr>
<td></td>
<td>320 R/L - 440 R/L</td>
<td>T82094320 - T82094440 R/L</td>
</tr>
<tr>
<td>10</td>
<td>180 - 240 (interval : 20)</td>
<td>T82010180 - T82010240</td>
</tr>
<tr>
<td></td>
<td>320 R/L - 440 R/L</td>
<td>T82010320 R/L - T82010440 R/L</td>
</tr>
<tr>
<td>11</td>
<td>180 - 240 (interval : 20)</td>
<td>T82011180 - T82011240</td>
</tr>
<tr>
<td></td>
<td>320 R/L - 440 R/L</td>
<td>T82011320 R/L - T8201140 R/L</td>
</tr>
</tbody>
</table>

Anti Rotation Screws

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm) (interval : 5)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5</td>
<td>60 - 115</td>
<td>8566460 - 85664115</td>
</tr>
</tbody>
</table>

Interlocking Nail
KTO Tibial Intramedullary Nail (Cannulated)

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm) (interval : 15)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.4</td>
<td>255 - 375</td>
<td>T8684255 - T8684375</td>
</tr>
<tr>
<td>9.0</td>
<td>255 - 375</td>
<td>T8690255 - T8690375</td>
</tr>
<tr>
<td>10</td>
<td>255 - 375</td>
<td>T8610255 - T8610375</td>
</tr>
</tbody>
</table>

Ø4.5 Full Threaded Locking Screws

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm) (interval : 5)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5</td>
<td>30 - 85</td>
<td>8524030 - 8524085</td>
</tr>
</tbody>
</table>

Ø5.0 Full Threaded Locking Screws

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm) (interval : 5)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>40 - 80</td>
<td>8515040 - 8515080</td>
</tr>
</tbody>
</table>

Main End Cap

<table>
<thead>
<tr>
<th>Length (mm) (interval : 5)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 20</td>
<td>8201001 - 8201005</td>
</tr>
</tbody>
</table>

Normal End Cap

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8600001</td>
<td>8600002</td>
</tr>
</tbody>
</table>

Locking End Cap

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8600001</td>
<td>8600002</td>
</tr>
</tbody>
</table>
Orthopaedics

Interlocking Nail
KTO Humerus Intramedullary Nail

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.0</td>
<td>120 - 280</td>
<td>T8870120 - T8870280</td>
</tr>
<tr>
<td>7.5</td>
<td>120 - 280</td>
<td>T8875120 - T8875280</td>
</tr>
<tr>
<td>8.0</td>
<td>120 - 280</td>
<td>T8880120 - T8880280</td>
</tr>
</tbody>
</table>

Ø3.5 Full Threaded Locking Screws

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5</td>
<td>20 - 46</td>
<td>T8920020 - T8920046</td>
</tr>
</tbody>
</table>

Interlocking Nail
KTO PFNA Gamma Nail

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.4</td>
<td>180 - 240</td>
<td>T8794180 - T8794240</td>
</tr>
<tr>
<td>10</td>
<td>180 - 240</td>
<td>T8710180 - T8710240</td>
</tr>
<tr>
<td>11</td>
<td>180 - 240</td>
<td>T8711180 - T8711240</td>
</tr>
<tr>
<td>12</td>
<td>180 - 240</td>
<td>T8712180 - T8712240</td>
</tr>
</tbody>
</table>

Full Threaded Locking Screws

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Article No.</th>
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</thead>
<tbody>
<tr>
<td>4.5</td>
<td>30 - 85</td>
<td>T8524030 - T8524085</td>
</tr>
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</table>

KTO Humerus Rotation Blade

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>Article No.</th>
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<tbody>
<tr>
<td>28 - 48</td>
<td>T89010028 - T8910048</td>
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</table>

Main End Cap

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>Article No.</th>
</tr>
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<tbody>
<tr>
<td>0 - 15</td>
<td>T8800001 - T8800015</td>
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Blade End Cap

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 15</td>
<td>T8900001 - T8900015</td>
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</table>

KTO PFNA Blade Screw

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Article No.</th>
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</thead>
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<tr>
<td>10,5</td>
<td>70 - 120</td>
<td>T8553070 - T8553120</td>
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Locking End Cap

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>Article No.</th>
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</thead>
<tbody>
<tr>
<td>0 - 15</td>
<td>T8570000 - T8570015</td>
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Normal End Cap

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<tr>
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<tr>
<td>0 - 15</td>
<td>T8580000 - T8580015</td>
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Trauma Implant
Stainless Steel, Locking Fragment

Distal Radius Buttress Locking Plates Ø 2.7 mm

**Article No.**
- 4320004 - 4320005 (interval: 1)
- 4320007 - 4320009 (interval: 2)

**Holes**
- 4 - 5 (Right / Left)
- 7 - 9 (Right / Left)

Distal Radius Joint Locking Plates

**Article No.**
- 4360008 - 4360010 (interval: 2)

**Holes**
- 8 - 10 (Right / Left)

Clavicle Hook Locking Plates

**Article No.**
- 4390006 - 4390010 (interval: 1)

**Holes**
- 6 - 10 (Right / Left)

Distal Lateral Humerus Locking Plate

**Article No.**
- T4270005 - T4270011 (interval: 2)

**Holes**
- 5 - 11 (Right / Left)

Distal Medial Humerus Locking Plates

**Article No.**
- T4280004 - T4280005 (interval: 1)
- T4280007 - T4280009 (interval: 2)

**Holes**
- 4 - 5 (Right / Left)
- 7 - 9 (Right / Left)

Humerus Compression Locking Plates

**Article No.**
- 4050006 - 4050008 (interval: 1)
- 4050010 - 4050012 (interval: 2)

**Holes**
- 6 - 8 (Right / Left)
- 10 - 12 (Right / Left)

Oblique T Radius Reconstruction Locking Plates

**Article No.**
- 4340006 - 4340009 (interval: 1)

**Holes**
- 6 - 9 (Right / Left)

Olecranon Hook Reconstruction Locking Plates

**Article No.**
- 4310004 - 4310005 (interval: 1)

**Holes**
- 4 - 5 (Right / Left)

One Third Tubular Locking Plates

**Article No.**
- 4100005 - 4100008 (interval: 1)
- 4100010 (interval: 2)

**Holes**
- 5 - 8
- 10

Proximal Humerus Locking Plates III

**Article No.**
- 4230004 - 4230008 (interval: 1)
- 4230010 - 4230012 (interval: 2)

**Holes**
- 4 - 8 (Right / Left)
- 10 - 12 (Right / Left)
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Stainless Steel, Locking Fragment

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<td>S4040012</td>
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<thead>
<tr>
<th>S Clavicle Locking Plates Ø 3.0 mm</th>
</tr>
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<td><strong>Article No.</strong></td>
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<tr>
<td>S4382006</td>
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<tr>
<td>4382007 - 4382010 (interval : 1)</td>
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<td>4382012</td>
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<tr>
<th>Ulna Radius Locking Plates</th>
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<td><strong>Article No.</strong></td>
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<tr>
<td>4090005 - 4090010 (interval : 1)</td>
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<table>
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<tr>
<th>Mini T-Reconstruction Locking Plates</th>
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<td><strong>Article No.</strong></td>
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<tr>
<td>4330006 - 4330009 (interval : 1)</td>
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<thead>
<tr>
<th>L-Reconstruction Locking Plates (Lower Limb)</th>
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<td>4740007 - 4740010 (interval : 1)</td>
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<tr>
<th>Calcaneus Locking Plates II (Max)</th>
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<td>4402012</td>
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<tr>
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<tbody>
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<td><strong>Article No.</strong></td>
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<td>4411005 - 4411015 (interval : 2)</td>
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<tr>
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<tbody>
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<td><strong>Article No.</strong></td>
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<tr>
<td>T4600005 - T4600013 (interval : 2)</td>
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<thead>
<tr>
<th>Femur Locking Plates</th>
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<tr>
<td>4083008 - 4083016 (interval : 2)</td>
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</table>

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<tr>
<th>KUS-Proximal Lateral Femoral Locking Plates</th>
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<tr>
<td><strong>Article No.</strong></td>
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<tr>
<td>4424004 - 4424006 (interval : 1)</td>
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<td>4424008 - 4424014 (interval : 2)</td>
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</table>
Trauma Implant
Stainless Steel, Locking Fragment

Proximal Lateral Tibial Locking Plates IV

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<th>Article No.</th>
<th>Holes</th>
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<tbody>
<tr>
<td>4700005 - 4700013</td>
<td>5 - 13 (Right / Left)</td>
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T-Reconstruction Locking Plates (Lower Limb)

<table>
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<th>Article No.</th>
<th>Holes</th>
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</thead>
<tbody>
<tr>
<td>4730007 - 4730010</td>
<td>7 - 10 (Right / Left)</td>
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</table>

Tibial Locking Plates

<table>
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<tr>
<th>Article No.</th>
<th>Holes</th>
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</thead>
<tbody>
<tr>
<td>4071006 - 4071008</td>
<td>6 - 8</td>
</tr>
<tr>
<td>4071010 - 4071016</td>
<td>10 - 16</td>
</tr>
</tbody>
</table>

Hexa Locking Screw Cortical Ø 2.7 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS7502708 - DS7502730</td>
<td>8 - 30</td>
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<tr>
<td>DS7502735 - DS7502760</td>
<td>35 - 60</td>
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</table>

Hexa Locking Cortical Screw Ø 3.5mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4833512 / DS7503512 - 4833534 / DS7503534</td>
<td>12 - 34</td>
</tr>
<tr>
<td>DS7503536 - DS7503550</td>
<td>36 - 50</td>
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<tr>
<td>DS7503555</td>
<td>55</td>
</tr>
</tbody>
</table>

Hexa Locking Screw Cortical Ø 5.0 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4845016 / DS7505016 - S4845038 / DS7505038</td>
<td>16 - 38</td>
</tr>
<tr>
<td>DS7505040 - DS7505050</td>
<td>40 - 50</td>
</tr>
<tr>
<td>DS7505055 - DS7505090</td>
<td>55 - 90</td>
</tr>
</tbody>
</table>

Torx Hollow Locking Screw Ø 6.5 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S48765060 - S48765110</td>
<td>60 - 110</td>
</tr>
</tbody>
</table>
## Trauma Implant
### Stainless Steel, Non-Locking Fragment

### Clavicle Hook Plates (Height: 14mm)

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2510005 - 2510009</td>
<td>5 - 9 (Right / Left)</td>
</tr>
</tbody>
</table>

### Distal Radius / Fibula Plates

<table>
<thead>
<tr>
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<th>Holes</th>
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</thead>
<tbody>
<tr>
<td>3120003 - 3120010</td>
<td>3 - 10</td>
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### Eaglebeak Plates (Reconstruction)

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
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</thead>
<tbody>
<tr>
<td>S2110003 - S2110008</td>
<td>3 - 8 (Right / Left)</td>
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### LC-DCP Humerus Plates

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1230005 - S1230010</td>
<td>5 - 10</td>
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</tbody>
</table>

## Orthopaedics

### Oblique T-shapped Radius Reconstruction Plates

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<tr>
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<th>Holes</th>
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</thead>
<tbody>
<tr>
<td>2020006 - 2020009</td>
<td>6 - 9 (Right / Left)</td>
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### 1/3 Tubular Plates

<table>
<thead>
<tr>
<th>Article No.</th>
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<tbody>
<tr>
<td>S1410005 - S1410010</td>
<td>5 - 10</td>
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### Proximal Humerus Plates III

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
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</thead>
<tbody>
<tr>
<td>2321004 - 2321006</td>
<td>4 - 6 (Right / Left)</td>
</tr>
<tr>
<td>2321008 - 2321012</td>
<td>8 - 12 (Right / Left)</td>
</tr>
</tbody>
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### LC-DCP Ulna Radius Plates

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Holes</th>
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<tbody>
<tr>
<td>S1220004 - S1220010</td>
<td>4 - 10</td>
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### Restricted Compression Plates (Upper Limb)

<table>
<thead>
<tr>
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<th>Holes</th>
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<tbody>
<tr>
<td>S1110004 - S1110010</td>
<td>4 - 10</td>
</tr>
<tr>
<td>S1110012</td>
<td>12</td>
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</tbody>
</table>
### Trauma Implant

**Stainless Steel, Non-Locking Fragment**

<table>
<thead>
<tr>
<th>S Clavicle Plates</th>
<th>Article No.</th>
<th>Holes</th>
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</thead>
<tbody>
<tr>
<td>2450006</td>
<td>2450007 - 2450010, 2450012</td>
<td>6 - 10 (Right / Left), 12 (Right / Left)</td>
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<table>
<thead>
<tr>
<th>Small T Reconstruction Plates</th>
<th>Article No.</th>
<th>Holes</th>
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<tbody>
<tr>
<td>2010006 - 2010009</td>
<td>2010006 - 2010009</td>
<td>6 - 9</td>
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<table>
<thead>
<tr>
<th>130° DHS Compression Hip Plates</th>
<th>Article No.</th>
<th>Holes</th>
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<tbody>
<tr>
<td>S3611004 - S3611008, S3611010</td>
<td>4 - 8, 10</td>
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<table>
<thead>
<tr>
<th>Lag Screw / DHS Screw</th>
<th>Article No.</th>
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</tr>
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<tbody>
<tr>
<td>S36312065 - S36312095</td>
<td>65 - 95 mm</td>
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<table>
<thead>
<tr>
<th>Fibula Reconstruction Plates II</th>
<th>Article No.</th>
<th>Holes</th>
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</thead>
<tbody>
<tr>
<td>3110004 - 3110007</td>
<td>3110004 - 3110007</td>
<td>4 - 7 (Right / Left)</td>
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<table>
<thead>
<tr>
<th>L-Reconstruction Plates</th>
<th>Article No.</th>
<th>Holes</th>
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<tbody>
<tr>
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<td>3410006 - 3410011</td>
<td>6 - 11 (Right / Left)</td>
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<table>
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<th>Proximal Femoral Condyle Long Plates</th>
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<tbody>
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<td>3560005 - 3560007</td>
<td>5 - 7 (Right / Left)</td>
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<tr>
<td>3560009 - 3560011</td>
<td>3560009 - 3560011</td>
<td>9 - 11 (Right / Left)</td>
</tr>
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<table>
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<th>Restricted Compression Plates (Femur Curve)</th>
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<tr>
<td>S1131008 - S1131010</td>
<td>S1131008 - S1131010</td>
<td>8 - 10</td>
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<tr>
<td>S1131012 - S1131016</td>
<td>S1131012 - S1131016</td>
<td>12 - 16</td>
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<table>
<thead>
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<th>Restricted Compression Plates (Tibia)</th>
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<tbody>
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<td>S1120006 - S1120010</td>
<td>6 - 10</td>
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<table>
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<tr>
<th>T-Reconstruction Plates</th>
<th>Article No.</th>
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<tbody>
<tr>
<td>3420006 - 3420011</td>
<td>3420006 - 3420011</td>
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</tbody>
</table>
# Trauma Implant

Stainless Steel, Non-Locking Fragment

## Calcaneus Plates II (short)

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## Calcaneus Plates II (long)

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<td>S3040013 - S3040015 (interval : 2)</td>
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## Hexa Bone Screw Cortical Ø 2.7 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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</thead>
<tbody>
<tr>
<td>DS7602706 - DS7602730 (interval : 2)</td>
<td>6 - 30 mm</td>
</tr>
</tbody>
</table>

## Hexa Bone Screw Cortical Ø 3.5 mm Full Thread

<table>
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<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>DS7603512, S5043514 - S5043540 (interval : 2)</td>
<td>12 mm</td>
</tr>
<tr>
<td>DS7603542 - DS7603550 (interval : 2)</td>
<td>14 - 40 mm</td>
</tr>
<tr>
<td>DS7603560</td>
<td>42 - 50 mm</td>
</tr>
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</table>

## Hexa Bone Screw Cancellous Ø 4.0 mm Full Thread

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tr>
<td>S5364012 - S5364048 (interval : 2)</td>
<td>12 - 48 mm</td>
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## Hexa Bone Screw Cortical Ø 4.5 mm Full Thread

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>S5064520 - S5064550 (interval : 2)</td>
<td>20 - 50 mm</td>
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<tr>
<td>DS7614555</td>
<td>55 mm</td>
</tr>
<tr>
<td>S5064560</td>
<td>60 mm</td>
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</table>

## Hexa Bone Screw Ø 6.5 mm Full Thread

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>S5376530 - S5376590 (interval : 5)</td>
<td>30 - 90 mm</td>
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## Hexa Bone Screw Ø 6.5 mm Half Thread

<table>
<thead>
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<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>S5346550 - S5346595 (interval : 5)</td>
<td>50 - 95 mm</td>
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## Cannulated Compression Screw Ø 4.0 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>T5524026 - T5524050 (interval : 2)</td>
<td>26 - 50 mm</td>
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</tbody>
</table>

## Femoris Cannulated Compression Screws Ø 6.5 mm

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Screw Length (mm)</th>
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<tbody>
<tr>
<td>T56265060 - T56265105 (interval : 5)</td>
<td>60 - 105 mm</td>
</tr>
</tbody>
</table>
**Orthopaedics**

**Arthroplasty**

*Hip System, Bencox ID Cemented Stem*

**Specifications**

- **Cementless Stem**
  - Polished Double Tapered Distal Geometry - Collarless Type
  - Generates the radial compressive load in distal body
  - "Taper slip principle" allows the subsidence of the stem.
  - Cement mantle longevity is related to the ability to convert the shear and tension to the compression.
  - Cement is 3 times stronger in compression than in shear or tension.

- **Cemented Stem**
  - Self Centering Distal Centralizer
  - Uniform cement thickness is constructed by four deformable wings of centralizer, which protects the stress concentration due to the thin cement mantle.
  - Allows the cemented stem to move distally within the cement applying the compression to the cement.

**Unified Instrumentation**

- Cementless and cemented stem of ID system use same instrumentation.
- This instrumentation maximizes efficiency in the operating room, while still providing intraoperative flexibility.

**Normalized Proximal Stress**

- Proximally tapered & grooved stem geometry converts the shear forces to the compressive load.

**Enhanced Neck Shape**

- Patented trapezoidal neck design allows wide angulation and protects impingement and dislocation.
- Same neck design with Bencox stem is applied.

**Compatible Tapered 12/14 Trunnion**

- Adoption of Bencox forte & delta, and Metal heads
- Provides 3 optional offset (Short, Medium, Long)
- Extra long offset provided for Metal heads
Arthroplasty
Hip System, Bencox ID Cementless Stem

Specifications

- Proven Ti-Plasma Spray Porous Coating
  - Provides the primary and secondary stability
  - Protects osteolysis from the wear debris.

- Patented trapezoidal neck design allows wide angulation and protects impingement and dislocation.
- Same neck design with Bencox stem is applied.

- Unified Instrumentation
  - Cementless and cemented stem of ID system use same instrumentation.
  - This instrumentation maximizes efficiency in the operating room, while still providing intraoperative flexibility.

- Normalized Proximal Stress
  - Proximally tapered stem geometry converts the shear forces to compressive load.
  - This helps the stem to resist subsidence and medial migration.

- Extensive Stress Distribution
  - Low elastic modulus of Ti alloy and the double tapered stem reduce stiffness which avoids distal load transfer and prevents proximal stress shielding.

- Enhanced Rotational Stability
  - Rectangular cross-section.
  - Longitudinal grooves are designed to resist rotational motion.

- Compatible Tapered 12/14 Trunnion
  - Adoption of Bencox forte & delta, and Metal heads
  - Provides 3 optional offset (Short, Medium, Long)
  - Extra long offset provided for Metal heads

- Wide Range of Prosthetic ROM (P-ROM)
**ORTHOPAEDICS**

**Arthroplasty**

**Hip System, Benfix Long Stem**

**Specifications**

- Extended distal body enhances additional stability in the diaphysis.
- Wiring holes enable the reduction of the comminuted lesser and greater trochanter.

**Solution for the Osteoporotic & Comminuted Fracture**

- Extended distal body enhances additional stability in the diaphysis.
- Wiring holes enable the reduction of the comminuted lesser and greater trochanter.

**Compatible Tapered 12/14 Trunnion**

- Adoption of Bencox forte & delta, and Metal heads
- Provides 3 optional offset (Short, Medium, Long)
- Extra long offset provided for Metal heads

**Wide Range of Prosthetic ROM (P-ROM)**

- Enhances neck shape.
- Improved trapezoidal neck design allows wide angulation and protects impingement and dislocation.
- P-ROM of Benfix Long Stem.

**Prevented Axial Displacement and Stress Shielding**

- Proximal taper resists the axial displacement and avoids stress shielding.
- Stem locks against the dense bone of the calcar and greater trochanter and transferring load to the proximal femur.

**Reduce Thigh Pain**

- Low elastic modulus of Ti alloy and the tapered stem reduce stiffness which avoids distal load transfer and prevents proximal stress shielding.
- Distal slot provides stress distribution and reduces thigh pain.

**Enhanced Rotation & Axial Stability**

- Rectangular cross-section
- Longitudinal grooves - are designed to resist rotational motion.
- Transverse grooves - provides axial stability and converts hoop stresses to compressive loads.
Arthroplasty
Hip System, Bencox Bipolar Cup

Proportional Eccentricity
- Multipolarity is achieved via multiple offsets within the system as cup sizes increase, the amount of eccentricity increases.
- Provides eccentricity that is proportional to the patient’s anatomy.

Optimal Fit
- A large array of component allows precise patient matching for optimal patient fit.
- Outer diameters from 38 to 60mm allow the surgeon to meet the unique challenges posed in a revision and extended situations.
- The bipolar cup offers use with 22, 28mm femoral heads.

Simple Locking Mechanism
- Ring mechanism allows for easy assembly of the femoral head.

Wide Range of Motion
- Enhanced 68° ROM resists the impingement to the UHMWPE locking ring.

Enhanced Stability
- Superior pull-out strength resists the dislocation of the femoral head.
Arthroplasty
Hip System, Bencox Cup System

Bencox Hibrid Cup (2tab/3hole) for both ceramic & PE bearing

Acetabular Component
- Acetabular Component is hemisphere-shaped, maximizing the peripheral and polar contact at once. Three screw holes are anatomically designed and located for more effective fixation; and enough insertion angles are allowed to simplify the surgery.

Surface Treatment
Plasma Sprayed Ti Coating
- The surface treatment on an artificial join is an essential factor for success; at the same time, it's the precise indication of a manufacturer's technique.
- Acetabular Component of Bencox Hip System is coated using plasma spray method.
- The microporous pure titanium coating with more than 30% porosity leads to direct bone apposition for secondary stability. Rough surface supports a more stable primary fixation.

Two in One Bearing Cup System
- Unique locking design allows for ceramic and PE liner in one cup.

Secure Locking Mechanism
- Cup and ceramic insert provides a secure locking mechanism while providing a self-locating feature to ease insert placement.
- The locking mechanism between cup and PE liner allows for secure fixation with superior congruency for the push-out, rotation and tilting.

Improved Range of Motion
- Optimal range of motion with the innovative stem neck design reduces the potential for impingement and dislocation.
- P-ROM following to the different head diameter and offset.
ORTHOPAEDICS

Various Choice of PE Liners

- Standard, extended, and elevated type allows for the use in extended indication situations.
- PE liner offers use with 28, 32, 36, 40mm CoCr Mo femoral heads.
- The wear resistance.

Cross-Linked UHMWPE for PE Liner

- Compression molded GUR1020 rods are used - initial toughness and strength is higher than 1050 Gamma irradiated at room temperature to a 75kGy to facilitate cross-linking. After irradiation, the rods are heated above the melting point to eliminate residual free radicals and form additional cross-links PE liners are machined and cleaned, packaged, and EtO sterilized. Residual free radicals and form additional cross-links.

Enhanced Wear Characteristics

- Cross-linked PE liners exhibit 94% less wear in vitro tests than conventional PE liners.

Bencox Data

- Bencox Delta is a high performance ceramic biocomposite material with the potential to be used in applications which were not previously possible using ceramics. It combines the excellent material properties of alumina ceramics in terms of chemical and hydrothermal stability with extremely low wear, superior mechanical strength and improved fracture toughness. Bencox Delta is composed of approximately 75% aluminium oxide, which provides the basic hardness and wear resistance and approximately 25% zirconia, which together with other additives provides the improved mechanical properties compared with pure aluminium oxide ceramic. Bencox Delta offers higher mechanical properties including higher fracture toughness.
### Arthroplasty

#### Hip System, Ordering Information

**Bencox Hybrid Cup**

<table>
<thead>
<tr>
<th>Article No.</th>
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<tbody>
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<td>01.02.054</td>
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<td>01.02.070</td>
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**Bencox Bipolar Cup**

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**Bencox ID Cemented Stem**

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<tbody>
<tr>
<td>01.05.103</td>
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**Bencox ID Stem**

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<tbody>
<tr>
<td>01.05.021</td>
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**Benfix Long Stem**

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<tr>
<td>01.04.001</td>
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## Arthroplasty
### Hip System, Ordering Information

### Metal Head

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<tr>
<td>01.02.415</td>
<td>Metal Head 28 mm / L (STD)</td>
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<tr>
<td>01.02.410</td>
<td>Metal Head 28 mm / M (STD)</td>
</tr>
<tr>
<td>01.02.405</td>
<td>Metal Head 28 mm / S (STD)</td>
</tr>
<tr>
<td>01.02.430</td>
<td>Metal Head 32 mm / L (STD)</td>
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<tr>
<td>01.02.425</td>
<td>Metal Head 32 mm / M (STD)</td>
</tr>
<tr>
<td>01.02.420</td>
<td>Metal Head 32 mm / S (STD)</td>
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<tr>
<td>01.02.450</td>
<td>Metal Head 36 mm / L (STD)</td>
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<tr>
<td>01.02.445</td>
<td>Metal Head 36 mm / M (STD)</td>
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<td>01.02.440</td>
<td>Metal Head 36 mm / S (STD)</td>
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### Bone Screw

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<tr>
<td>01.01.202</td>
<td>Bone Screw 20 mm</td>
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<td>01.01.203</td>
<td>Bone Screw 25 mm</td>
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<td>01.01.204</td>
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<td>01.01.205</td>
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<td>01.01.206</td>
<td>Bone Screw 40 mm</td>
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### Bone Plug

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<td>01.05.420</td>
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### PE Liner

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<td>01.02.662</td>
<td>PE Liner 28 mm / 39G (Elevated)</td>
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<td>01.02.673</td>
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<td>01.02.675</td>
<td>PE Liner 32 mm / 48G (Elevated)</td>
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<td>01.02.683</td>
<td>PE Liner 36 mm / 44G (Elevated)</td>
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<td>01.02.685</td>
<td>PE Liner 36 mm / 48G (Elevated)</td>
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</table>
Arthroplasty
Lospa Knee System

Lospa Femoral Component

- Single axis concept for articular stability with flexion and improving range of motion.
- Anterior flange shape and dimension for the optimal patella tracking.
- Intercondylar cam design of PS type for reducing the risk of dislocation in deep flexion.
- Sphere-shaped articular surface for reducing contact stress and improving stability.

Lospa Tibial Insert (Fixed Type)

- High conformity at the frontal plane to improve contact area.
- Double radius at the sagittal plane for improved anterior stability and deep flexion.
- Rotated articular surface considering axial rotation for the femoral component.
- Rounded tibial post to reduce edge loading in the PS type (in the case of PS type)
- Improved anterior relief for deep flexion.
Arthroplasty
Lospa Knee System

Lospa Tibial Baseplate

- Stem with keel for improving initial implant stability.
- Stem with posterior slope aiding in reducing the anterior cortex impingement.
- Commonality of tibial baseplate: CR/PS in fixed type

Lospa Patellar Component

- Cement pockets - provide optimal condition for cemented fixation.
- There is cement pocket which has 1.0mm depth, but which is not deep enough to compromise the strength of the component.
- There is reinforcement in the center of these pocket and the peripheral rim is maintained with 1.5mm thickness.
Arthroplasty
Lospa Knee System

Lospa Femoral Component (PS)

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Implant</th>
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<tbody>
<tr>
<td>01.10.043</td>
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<td>01.10.063</td>
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<tr>
<td>01.10.064</td>
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Lospa Patellar Component

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Lospa Tibial Baseplate

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Lospa Tibial Insert

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<td>Tibial Insert PS - 11 x 16 mm</td>
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</table>
Arthroplasty
Revision Knee System

Lospa Modular Knee System

Maintains Lospa Primary Knee System's Anatomical Features:
- Stability, constrained motion increased
- AP stability
- Modularity, stem extension available
- Augmentation
- Longevity, stabilized concave tibial post, secure insert locking rod
- Compatibility, modular femoral component, primary tibial PS/CR insert, modular tibial baseplate

Femoral Component

- Stem housing angle 6°, the modular femoral component has a stem housing that is tilted 6 laterally
- Stem housing position: 35% from anterior

Tibial Component, Concaved Post Design

- The posterior part of the post is concavely curved. After cam-post engagement at 75 degrees of flexion, the cam travels down the post. This reduces the risk of dislocation and allows for deep flexion with joint stability

Heightened Post

- For better stability during the entire knee motion, the post height is designed higher than the Lospa Primary Knee System

### Femoral Component

<table>
<thead>
<tr>
<th>Varus-Valgus (°)</th>
<th>I-E Rotation (°)</th>
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<tbody>
<tr>
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<td>Competitor ‘S’</td>
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<tr>
<td>Competitor ‘T’</td>
<td>±2</td>
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<tr>
<td>Competitor ‘N’</td>
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<td>Competitor ‘V’</td>
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### Femoral Length

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<th>Stem Plug Length (mm)</th>
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<td>#11 – #16</td>
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### Stem Housing Position:

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<td>Competitor ‘S’</td>
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<td>Competitor ‘N’</td>
<td>30%</td>
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<td>Competitor ‘V’</td>
<td>37%</td>
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<tr>
<td>Competitor ‘P’</td>
<td>43%</td>
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</table>
**Arthroplasty**
**Revision Knee System**

### Augment
- Augment, Lospa Modular Knee System has 2 types of the Augment (block & choren pad)
- Block, complementing bone deficits, thickness: 5, 10, 15mm Bolt / Cement fixation
- Choren Pad (Correct Height Orientation Renovation) Correcting unbalanced knee joint Thickness: 2, 3 mm Cement Fixation

### Stem Extension
- Stem Extension
- The fluted design can enhance the resistance to rotation, cemented type.
- Diameter: Ø 9, 10, 11, 12, 13, 14, 15, 16, 18mm
- Length: 30, 60, 90, 120, 150mm
- Offset Adaptor
- Offset: 2, 4, 6mm
- Screw nut locking, 360 positioning
- Length: 30mm

### Size Combination, Bearing Couple

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<td>50.A/76ML</td>
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* Special order

### Size Combination Chart
## Arthroplasty
### Revision Knee System, Ordering Information

#### Femoral Component

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#### Tibial Baseplate with hole cap

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<th>DxL (mm)</th>
<th>Part No.</th>
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### Revision Knee System

- **Femoral Component**
  - Available in various sizes and configurations for precise fitting.
- **Tibial Baseplate with hole cap**
  - Offers a wide range of dimensions to accommodate different patient needs.

### Stem Extension

- Extends the femoral component, providing additional support and flexibility.
- Available in diverse lengths and diameters for customized surgical procedures.

---

114 PT. ENDO INDONESIA
# Orthopaedics

## Arthroplasty

### Revision Knee System, Ordering Information

#### Tibial Insert

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<tr>
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### Arthroplasty

#### Revision Knee System, Ordering Information

#### Tibial Insert

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**Revision Knee System, Ordering Information**

**Arthroplasty**
## Arthroplasty

Revision Knee System, Ordering Information

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Arthroscopic Reconstructive Surgery
ACL / PCL Reconstruction

We have the right option for your ACL / PCL Reconstruction
Surgical Technique
Arthroscopic Reconstructive Surgery
ACL / PCL Reconstruction

PULLUP adjustable juxtacortical fixation system
*Pull, Flip, Adjust*

- Reproducible, controlled locking at blind tunnel endstop, conservation of bone stock.
- Simple, no pre-op planning of tunnel length, perioperative adjustment.
- Reliable, stable locking system, renowned materials.

External traction of the graft. Material: PE (Polyester)
Adjustable length of the loop. Material: UHMWPE
Titanium performance
Controlled blocking of the graft (standard prepared loop: 40 mm)

Reliable flip
Chinese finger trap locking system

Pull, Flip, Adjust, Cut
Arthroscopic Reconstructive Surgery
ACL / PCL Reconstruction

LIGAFIX interference screws
*Bioabsorbable and osteoconductive fixation*

- Bioabsorbable, made of duosorb material, the implant are absorbed progressively and do not compromise future interventions.
- Osteoconduction, the high level of TCP promotes bone ingrowth.
- Variety, Ligafix screws are available in numerous sizes, different compositions and various designs to match your technique.

---

**LIGAFIX® 30**

30% β-TCP + 70% PDLLA
For all types of graft, ideal for the Kenneth Jones technique. Optimizes mechanical strength, the screw is in direct contact with the bone plug.

**LIGAFIX® 60**

60% β-TCP + 40% PDLLA
Only for soft tissue graft. Optimizes the kinetics of absorption.

---

- 2 heads for femoral and tibial fixation
  - Length: from 20 to 35 mm, Diameters: from 7 to 11 mm
- Round head screws
  - Femoral level: preserves the graft during articular flexion
  - Tibial level: ensures optimal locking
- Flat head screws, only for tibia, insertion facilitated at the end of screwing

---

**Tricalcium Phosphate (β-TCP) + Poly DL Lactic Acid (PDLLA)**

- 100% Osteoconductive
- 100% Absorbable
- 100% Bioactive
- Mechanical strength
- Elasticity
### Orthopaedics

**Arthroscopic Reconstructive Surgery**

**ACL / PCL Reconstruction, Ordering Information**

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Spine System, Spinal Implant
PLIF / T-PLIF PEEK Cage System

- Lospa IS PLIF / T-PLIF cage system is a spinal interbody fusion system that was developed to solve the drawback of current spinal fusion systems in the market. The cage, which closely resembles human anatomy, is designed for implantation between the endplates of the lumbar vertebral bodies. The instruments with this system are simple and easy to use, which could lead to reduced operation time quick patient recovery.

Anatomical Shape

- Teeth on cage surface
  Provide initial stability and prevent migration
- Large Windows
  Facilitate packing of bone or bone substitute and allow bone growth through the cage
- Radiolucency
  2 tantalum markers to indicate cage position on X-ray

Indications

- Discogenic back pain
- Disc herniation with radicular pain and major back pain component
- Facet syndrome
- Spondylolysis
- Spondylolisthesis
- Failed posterior intertransverse fusion

Application Levels

- L2 - S1

Spine System, Spinal Implant
TLIF PEEK Cage System

- Transforaminal lumbar interbody fusion (TLIF) procedure of LOSPA IS TLIF compared with the PLIF procedure included a decrease in potential neurological injury, improvement in lordotic alignment given graft placement within the anterior column, and preservation of posterior column integrity through minimizing lamina, facet, and pars dissection.

TLIF PEEK Cage System

- Provide resistance to spacer migration, 0.7 mm of teeth profile

Anatomical Shape

- Convex (630R) implant meet better contact with body surface
- Posterior holding edge
- Help rotating via the axial plane
- Self-distracting bullet nose
- Easier and less damage while inserting.

Material

- PEEK with tantalum x-ray markers
- Axial window
- Fully opened, accommodate bone graft to allow fusion
- 7 lordotic angle
- Accommodates the natural spine lordotic curve
- Large depth

TLIF Approach

- Open technique
- Minimally Invasive Technique
Spine System, Spinal Implant
ACIF PEEK Cage System

- Lospa IS ACIF cage system is a spinal interbody fusion system that was developed to solve the drawback of current spinal fusion systems in the market. The cage, which closely resembles human anatomy, is designed for implantation between the endplates of the cervical vertebral bodies. The instruments with this system are simple and easy to use, which could lead to reduces operation time quick patient recovery.

Anatomical Shape

- Teeth on cage surface
  Provide initial stability and prevent migration
- Large Windows
  Facilitate packing of bone or bone substitute and allow bone-through growth
- Radiolucency
  3 tantalum makers to indicate cage position on X-ray

Indications
- Degenerative disc disease
- Herniated disc
- Osteoarthritic foraminal stenosis
- Pseudarthrosis

Application Levels
- C2 - T1
**ORTHOPAEDICS**

**Spine System, Spinal Implant**

**Pedicle Screw**

- Material: Ti-6Al-4V ELI (ASTM F 136-78)
- Having the low profile (Ø 13mm x L 11mm) minimizes the post-surgical projection
- Available in standard and guided types to be selected to meet the surgeon’s preference
- Anodized with various colors for distinguishing the different size
- The application of the double tapered thread has improved the screw’s pullout strength
- Self-tapped

**Set Screw**

As the specially designed screw thread tightens the set screw, the screw head gets restrained, hence, even without a cap or a sleeve, a strong fixation can be obtained by the application of the set screw itself

**Rod**

Diameter: 6.0mm  
Length: 40 - 500mm

**Advanced Polyaxial Pedicle Screw**

- Possible rotation of approximately 25 (25 conical angle) from the axis of the housing of the rod
- Ability to stably place the rod even at a sudden rod bending

**Rod Link**

- It is simple assembling and strong stable fixation (Oblique fixation design)
### Pedicle Screw

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### ACIF Cage System

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### PLIF / T-PLIF PEEK Cage System

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### Orthopaedics

**Spine System, Spinal Implant**  
**Pedicle Screw, Ordering Information**
Bone Substitute
Bone Cement

**Cemex System Genta**
- Suitable when there is a risk (or in presence) of infections caused by gentamicin sensitive organisms
- Package: 60g

**Cemex System Genta Fast**
- Suitable when there is a risk (or in presence) of infections caused by gentamicin sensitive organisms and when short application times are required
- Package: 40g

**Gun 01**
- To be used with Cemex System for extrude bone cement

**Benefits**
- No risk of contamination: Cemex System is completely sealed. Operators do not come into contact with the material at any stage of the cementation process, not do the components come into contact with the environment.
- No vapours: the system is completely odour-free, thus protecting operators from being exposed to monomer fumes.
- Easy to use and store: Cemex System combines a bone-cement mixing system with a bone-cement delivery system. Cement can be prepared in a very short time and this can be done by just one person. Its practicality and compactness mean more room on shelves and in the operating theatre.

**Cemex System Genta ID Green**
- Green version of the Cemex System Genta Fast, with a stable and durable colour; suitable for every surgical site and whenever there is a short time need.
- Package: 40g
Cal-CEMEX

- Cal-CEMEX is the innovative reinforced bone substitute with an hybrid formulation β-TCP+ PMMA that facilitate bone growth and assure immediately a very high mechanical resistance.
- Osteoconductivity favoured by the β - TCP component, is due to the material special porosity:
  - Open porosity: allows fluids to penetrate inside the material, to favour bone ingrowth
  - Microporosity: the bone is able to reconstitute in a more diffuse manner
  - Macroporosity: macropores accomodate the new bone tissue, allowing differentiation into lamellae
- Thanks to the PMMA component, Cal-CEMEX:
  - Achieves maximum mechanical resistance immediately
  - Maintains an unaltered volume over time
  - Is a long-lasting support for bone tissue

Shakit

- The device for easy mixing even of high viscosity bone void fillers and acrylic resins

Xtruder

- The device for easy and fast application even of high viscosity bone void fillers and acrylics resins

Benefits

- Proven osteoconductivity
- High mechanical performance, immediately
- For injection of manual application
- Working time up to 5 min 45 sec
- Radiopaque, visible at X-Ray
Bone Substitute
Preformed Spacer

Reliability, Innovation, Versatility, Safety... in the hands of the surgeon.

- Tecres has successfully produced pre-formed antibiotic loaded spacers for since 1996. Spacers are implantable devices indicated to temporarily replace a prosthesis in a septic revision procedure. Tecres has 33 different spacers:
  - 17 devices in the Spacer line: with gentamicin
  - 16 devices in the Vancogenx line: with vancomycin and gentamicin
- Clinical studies published in peer reviewed journals by several international centers have demonstrated that the two stage technique combined with the use of a preformed industrial spacer produces excellent results from functional and biological point of view (eradication of infection in combination with systemic therapy.

Spacer for Hip
- The wide range of preformed spacer includes 18 variants. Four typology of stem combinable with 3 sizes of head and 2 options of antibiotic (gentamicin or vancomycin + gentamicin).

Spacer for Shoulder
- The Tecres spacer for Shoulder has a load-bearing structure in stainless steel coated with gentamicin bone cement and it resembles a shoulder prosthesis.

Spacer for Knee
- The wide range of preformed spacer include 18 variants. Four typology of stem combinable with 3 sizes of head and 2 options of antibiotic (gentamicin or vancomycin + gentamicin).
ORTHOPAEDICS

BFIX

External Fixator

Peek Fixator
- 1 DA21
  D124-2 Metaphyseal Kit Sterile, Radiolucent
- 2 DA21
  D123-2 Ankle Kit Sterile, Radiolucent
- 3 DA21
  D126-2 Hybrid Kit Sterile, Radiolucent
  Note: Used together with Rings
- 4 DA21
  D1022 Additional Screw Holder

Micro Movement Fixator
- Together with Compression - Distraction Unit, 6mm Allen Key
  “()” means applicable
- 1 DA1
  D101 Micro Movement Fixator (long)
  27.6cm between outermost screws when fixator fully closed, extends by 8cm
- 2 DA1
  D102 Micro Movement Fixator (middle) 23.6cm between outermost screws when fixator fully closed, extends by 4cm
- 3 DA1
  D103 Micro Movement Fixator (short)
  21.6cm between outermost screws when fixator fully closed, extends by 2cm

Ball-Jointed Modules
- Optional Clamps
  4 DA1: D1001 Straight Clamp
  5 DA2: D1002 T Clamp
  6DA18: D3001 Extended Range Clamp
  7 ZA6: H8001 Hybrid Coupling with Ball-Joint
  8 DA5: D1004PK Radiolucent Ankle Clamp
External Fixator

Ball-Jointed Modules
- 1 DA3 : D1021 Metaphyseal Clamp
- 2 (M1) GT Clamp
- 3 DA4 : D1020 B.G.T Clamp
- 4 DA6 : D1005 Angled Clamp
- 5 D1009 Double-Coupling Clamp

Micro Movement Fixator

Sterile Radiolucent Ankle Kit
- 6 G18003 Sterile Radiolucent Ankle Kit

Components / Replacements
- 1 D1010-12 Central Bodies
- 2 (M4) Central Body Components-A
- 3 (M5) Central Body Components-B
- 4 Compression-Distraction Unit
  D1016 Long, D1017 Middle, D1018 Short

Paediatric Fixator
- 1 DA1
  D104 Paediatric Fixator (middle)
  2 DA1
  D1007 Paediatric Straight Clamp
  3 DA2
  D1008 Paediatric T Clamp
  4 D1105 Paediatric Double Coupling Clamp

Ball-Joint Modules
- 7 D1022 Additional Screw Holder

Non Ball-Jointed Modules
**Orthopaedics**

**BFIX**

**External Fixator**

**Adult Limb Reconstruction System**

- **1 DA8**
  - D201 L.R.S. Fixator (long)
  - With 2 L.R.S. Straight Outer Clamps and 1 L.R.S. Straight Central Clamp
  - 2 DA8
- **D202 L.R.S. Fixator (middle)**
  - With 2 L.R.S. Straight Outer Clamps and 1 L.R.S. Straight Central Clamp
  - 3 DA8
- **D203 L.R.S. Fixator (short)**
  - With 2 L.R.S. Straight Outer Clamps and 1 L.R.S. Straight Central Clamp

**Components / Replacements**

- **1 DA8001 L.R.S. Rails**
  - D2001 Long, D2002 Middle, D2003 Short
  - 2 DA8
- **D2013 L.R.S. Straight Outer Clamp**
  - 3 DA8
- **D2014 L.R.S. Straight Central Clamp**
  - 4 DA10
- **D2015 L.R.S. T-Clamp**
  - 5 ZS7
- **D2016 L.R.S. Ball-Joint Coupling**
  - 6 DA11
- **D2019 L.R.S. Micrometric Swivelling Clamp**
  - 7 (M12) L.R.S. Micrometric BGT Clamp
  - 8 DA12001
- **D2021 L.R.S. Multiplanar Clamp**
  - 9 D2029 L.R.S. Hinged Rail Coupling
  - 10 (M13) L.R.S. T Clamp Coupling
  - 11
- **D2023 Sandwich Clamp (8mm)**
  - D2022 Sandwich Clamp (15mm)
  - 12 D2017 Dynamic Unit
  - 13 Compression-Distraction Unit
  - D1016 Long, D1017 Middle, D1018 Short
BFIX

External Fixator

Paediatric Limb Reconstruction System

- 1 DA9
  D204 paediatric L.R.S. Fixator (250mm)
  With 3 Paediatric L.R.S. Straight Clamps
  2 DA9
  D205 paediatric L.R.S. Fixator (200mm)
  With 2 Paediatric L.R.S. Straight Clamps
  3 DA9
  D206 paediatric L.R.S. Fixator (150mm)
  With 2 Paediatric L.R.S. Straight Clamps

Components / Replacements

- 1 DA9001 L.R.S. Rail
  D2004 Long, Length 25cm
  D2005 Middle, Length 20cm
  D2006 Short, Length 15cm
  2 DA9
  D2025 Paediatric L.R.S. Straight, Outer Clamp
  3 DA9
  D2047 Paediatric L.R.S. T-Clamp
  4 DA9
  D2028 Paediatric L.R.S. Ball joining coupling
  5
  D2026 Paediatric L.R.S. Swivelling Clamp
  Enables an appropriate Ball-jointed Module to be attached to the rail.
  6
  D2048 Paediatric Dynamic Unit
  7
  D1019 Paediatric Compression - Distraction Units
Wrist Fixator

- 1 DA20
  D401 Wrist Fixator 22m
  Consisting of: 1 Short Module with
  Straight Clamp, Cam dan Bush,
  1 Long Module with Straight Clamp,
  Cam and Bush and 1 Double
  Ball-Joint
- 2 DA21
  D402 Wrist Fixator
  (compression-distraction) 22mm
  Consisting of: 1 Long Module with
  Straight Clamp, Cam and Bush
  1 Compression-Distraction Module
  with Straight Clamp, Cam and Bush,
  and 1 Double Ball-Joint
- 3 DA22
  D403 Wrist Fixator (extra-articular)
  20mm
  Consisting of: 1 Short Module with
  T-Clamp, Cam and Bush,
  1 Compression-Distraction Module
  with Straight Clamp, Cam and Bush,
  and 1 Double Ball-Joint

Components / Replacements

- 4 D4005 Wrist Fixator-Short Module
  With Straight Clamp, Cam and Bush
- 5 D4008 Wrist Fixator-Short Module
  With T-Clamp, Cam and Bush
- 6 D4007 Wrist Fixator-Long Module
  With Straight Clamp, Cam and Bush
- 7 D4008 Wrist Fixator-Straight Clamp
- 8 DA2002
  D4001 Wrist Fixator 22m
  Consisting of: 1 Short Module with
  Straight Clamp, Cam dan Bush,
  1 Long Module with Straight Clamp,
  Cam and Bush and 1 Double
  Ball-Joint
- 10 D4002 Wrist Fixator-Ulnar Outrigger Clamp
- 11 D4009 Wrist Fixator-Double Ball-Joint
ORTHOPAEDICS

BFIX

External Fixator

Mini Fixator

- 1 DA25 (D501 Long)
  Consisting of: 1 Minifixator Long Body
  (2 Minifixator Standard Clamps and 2 Minifixator
  Compression-Distraction Nuts)
- 2 DA25 (D502 Standard)
  Consisting of:
  (1 Minifixator Standard Body, 2 Minifixator
  Compression- Distraction Nuts.)
- 3 DA25 (D503 Short)
  Consisting of:
  (1 Minifixator Short Body, 2 Minifixator Standard
  Clamps and 2 Minifixator Compression-Distraction
  Nuts)

Components / Replacements

- 4 DA25 Minifixator Bodies D5004 Long
  (1 Long Bar and 1 Standard Bar : total length 87mm)
  (1 Standard Bar and 1 Short Bar : total length 62mm)
  (1 Long Bar and 1 Standard Bar : total length 72mm)
- 5 DA25 (M35) Minifixator Clamp Locking Screw
- 6 DA25; D5003 Minifixator Standard Clamps (1 pair)
- 7 DA30; D5001 Minifixator L-Clamps (Left-Right)
- 8 Minifixator Spacer
  Used in association with Compression - Distraction
  Nut, Lengthening Bar and Standard Clamp.
- 9 D501-001 Minifixator Compression Distraction Nut
- 10 G10012 Allen Wrench 3mm
- 11 Threaded Wires Ø 2mm (pack of 4)
  Total length 100mm, Thread length 15mm
- 12 Threaded Wires Ø 1.6mm (pack of 4)
  Total length 70mm, Thread length 15mm
Minirail Fixator

- 1 DA26
  D504 Minirail Fixator (170mm)
- 2 DA26
  D505 Minirail Fixator (95mm)
- 3 DA26
  D506 Minirail Fixator (70mm)
- 4 DA27
  D507 Minirail Fixator (horizontal axis)
  Allows articulation round an axis parallel to the bone screws
- 5 DA28
  D509 Minirail Fixator (vertical axis)
  Allows articulation round an axis at vertical to the bone screws
- 6 DA29
  D512 Minirail Fixator (horizontal II), Horizontal
- 7 G21000 T-Wrench For Bone Screws
- 8 (M29) T-Wrench For Clamp Screws
- 9 G10012 Allen Wrench 3mm
Pelvic Fixator

- 1 DA16
  D301 Pelvic Short-(235-305mm); T-Clamps
  Consisting of: (2 Primary Links, 1 Pelvic Fixator Connecting Unit, 2 Cams, 2 Bushes, 2 T-Clamp and 1 Allen Wrench 6 mm)

- 2 DA17
  D302 Pelvic Long-530mm (420-535mm) Straight Clamps
  Consisting of: (2 Primary Links, 1 Pelvic Fixator Supplementary Link, 1 Pelvic Fixator Connecting Unit, 2 Cams, 2 Bushes, 2 Straight Clamps and 1 Allen Wrench 6 mm)

- 3 DA17
  D307 Pelvic long Carbon Clamp & Rod (510-620mm) Modules for independent Screw Placement
  Consisting of: (2 Primary Links, 1 Pelvic Fixator Supplementary Link, 1 Pelvic Fixator Connecting Unit, 2 Cams, 2 Bushes, 2 Ball-Jointed Modules for independent Screw Placement and 1 Allen Wrench 6 mm)

Ball - Jointed Modules

- 4 DA2
  D1002 T-Clamp For anterior applications
  Acts as its own template for insertion of screw between the interior and superior li spines

- 5 DA1
  D1001 Straight Clamp For iliac crest applications
  Acts as its own template for insertion of screws into the iliac crest.
**Elbow Fixator**

- 1 DA18; D305 Elbow Fixator With Straight Clamps
  Consisting of: (2 Primary Links, 1 Elbow Fixator Central Connecting Unit, 2 Cams, 2 Bushes, 1 Elbow Fixator Small Distractor, 2 Straight Clamps, 1 pair of Elbow Fixator Compression - Distraction Unit Spacers, 1 Long Compression-Distraction Unit, 1 Allen Wrench 6mm and 1 Allen Wrench 3 mm
  2 DA1 (D1007 Straight Clamp)
  Acts as its own template for insertion of screws in the humerus and ulna
  3 D3001 Elbow Extended Range Clamp Acts as its own template for screw insertion in the ulna. It is used when a wider choice of angle for screw placement is necessary
  4 Allen Wrench F10012 3mm, G10017 6mm
  5 K-Wire Without Olive Ø 2mm, Length 150mm
  6 D120 Petrochanteric Fixator complete with Allen Wrench 5mm

**Hybrid Fixator System**

- 1 ZA6
  Hybrid Fixator Assembly
  Consisting of: 1 2/3 Ring, 2 Two-Hole, K-Wire Securing Pins, 2 Three-Hole Wire, Clamp Slider Units, 1 Micromovement Central body (Short or Standard), 1 Micromovement Straight Clamp, 1 Hybrid Coupling with Ball-Joint, 2 Posts, 2 Supplementary Screw Holder Clamps
  2 HAS Sheffield Ring Fixator Assembly For Reconstruction
  Consisting of: 2 2/3 Rings, 2 Two-Hole Securing Pins, 2 Three-Hole Wire Clamp Slider Units, 1 Sheffield Clamp, 3 Reduction Units
  3 HAS Sheffield Ring Fixator Assembly for Reconstruction
  Consisting of: 2 2/3 Rings, 2 1/3 Rings, 4 locking Screws, 1 Sheffield Clamp, 2 Hinge Clamps, 4 Threaded Bars and 8 Nuts and Washer, 1 Compression-Distraction Clicker Unit, 2 Extension Plates and 2 single Screw Clamps
Hybrid Fixator System, Component Replacement

- 9 K-Wire With Lateral Olive
- 10 K-Wire With Central Olive
- 11 K-Wire Without Olive
- 12 D6010Cr 6mm Rod (300mm)
- D6011Cr 6mm Rod (200mm)
- D6012Cr 6mm Rod (100mm)
- 13 D6010Ts 6mm Rod (350mm) Carbon
- D6011Ts 6mm Rod (250mm) Carbon
- D6012Ts 6mm Rod (150mm) Carbon
- 14 DA1001 (H7013 Ring Clamp)
- 15 ZS2001 (M33) Supplementary Screw Holder Clamp
- 16 ZA6003 (H7012 Single Screw Clamp)
- 17 (M34) Half Pin Fixation Bolt
- 18 ZA6004 (H7011 Post)

Hybrid Fixator System, Component Replacement

- 1 ZA6005 2/3 Rings
  - H7001 inner Ø 150mm
  - H7002 inner Ø 175mm
  - H7003 inner Ø 190mm
  - H7004 inner Ø 220mm
  - H7135 inner Ø 120mm
  - 2 ZA6005 1/3 Rings
  - H7154 inner Ø 120mm
  - H7005 inner Ø 150mm
  - H7006 inner Ø 175mm
  - H7007 inner Ø 190mm
  - H7008 inner Ø 220mm

- 3 Bolt
  - M6X20 Bolts Length 16mm (set of 10)
  - M6X21 Bolts Length 20mm (set of 10)
  - M6X22 Bolts Length 24mm (set of 10)

- 4 ZA6002
  - H7009 Three Hole Wire Clamp
    Should be used with 1 or 2 wires only
  - 5 ZA6002 (H7010 Two Hole Pin Clamp)
  - 6 (M31) Independent Wire Clamp
  - 7 (M32) Large Washers
  - 8 ZA6001 (H8001 Hybrid Coupling)
ORTHOPAEDICS

BFIX™

External Fixator

Hybrid Fixator System, Component Replacement

- 19 H7201 Self-Lengthen Rod Distractor - Double Ring
- 20 Revision Locking Screw Washers
- 21 Nuts and Washers

Rod to Pin

- 1 Rod to Pin Fixator

Components / Replacements & Template

- 2 Rods
  3 ZS2001 D6025 14mm Rod Clip Clamp
  4 ZS1002 D6029 14mm Pin Clip Clamp
  5 D6028 6mm Rod to Pin / Rod Clamp

Instrumentation

- 6 G30017 Allen Wrench 5mm

Hybrid Fixator System, Instrumentation

- 1 G18002 Wire Guide
  2 (M35) Universal Allen Wrench
  3 G10017 Allen Wrench 6mm
  G30017 Allen Wrench 5mm
  G10013 Allen Wrench 4mm
  G10012 Allen Wrench 3mm
  4 G81031 Speed Wrench
  5 (M36) Speed Wrench
  6 G18001 2.0mm Wire Tensioner
**TK - Ring System**

- 1 HA3
  - H715 Deformity Correction Fixator (80mm)
  - H716 Deformity Correction Fixator (100mm)
  - H717 Deformity Correction Fixator (120mm)
  - H718 Deformity Correction Fixator (130mm)
  - H719 Deformity Correction Fixator (140mm)
  - H720 Deformity Correction Fixator (150mm)
  - H721 Deformity Correction Fixator (160mm)
  - H722 Deformity Correction Fixator (170mm)
  - H723 Deformity Correction Fixator (180mm)
  - H724 Deformity Correction Fixator (200mm)
  - H725 Deformity Correction Fixator (220mm)
  - H726 Deformity Correction Fixator (240mm)

**External Supports**

- 2
  - H7019 Ring 150mm
  - H7020 Ring 160mm
  - H7021 Ring 170mm
  - H7022 Ring 180mm
  - H7023 Ring 200mm
  - H7024 Ring 220mm
  - H7025 Ring 240mm
- 3
  - 1/2 Rings
    - HA2005 Half Ring Ø 120mm
    - HA2005 Half Ring Ø 150mm
    - HA2005 Half Ring Ø 170mm
    - HA2005 Half Ring Ø 200mm
- 4
  - H7040 Foot Ring 120mm
  - H7043 Foot Ring 150mm
**ORTHOPAEDICS**

**BFIX™**

**External Fixator**

**TK - Ring System**
**Hinges, Distractors, and Connections**

- 1 (M38) Universal Hinge
- 2 HA2001
- H7122 Inline Hinge
- H7123 Outboard Hinge
- 3
- H7050-001 20mm Plate
- H7050-002 30mm Plate
- H7050-003 40mm Plate
- H7050-004 50mm Plate
- 4
- H7211 Self-Lengthen Rod Distractor-70mm
- H7212 Self-Lengthen Rod Distractor-100mm
- H7213 Self-Lengthen Rod Distractor-150mm
- H7214 Self-Lengthen Rod Distractor-200mm
- 5 H7231 Oblique Support Rod
- 6 HA1001
- H7140 Threaded Rod 60mm
- H7142 Threaded Rod 110mm
- H7144 Threaded Rod 150mm
- H7146 Threaded Rod 200mm
- H7148 Threaded Rod 300mm
- H7150 Threaded Rod 400mm
- 7 ha2002 Angular Distractors
- H7136 (Standard)
- H7137 (Long)

**Fixation Elements**

- 8 Bayonet Wire With Stopper
- 9 K Wire 1.8mm x 400mm
- 10 H7124 Pin Bolt
- 11 (M40) Half Pin Fixation Bolt
- 12
- H7126 1 Hole Post
- H7127 2 Hole Post
- H7128 3 Hole Post
- H7129 4 Hole Post
- 13 Bolt
- M6X20 Bolts Length 16mm (set of 10)
- M6X21 Bolts Length 20mm (set of 10)
- M6X22 Bolts Length 24mm (set of 10)
- 14 T97.1 Nuts (set of 10)
- 15 Covers
- 16 (M41) Nut Applicator
- 17 Half Pin

**Instrumentation**

- 18
- G10017 Allen Wrench 6mm
- G30017 Allen Wrench 5mm
- G10013 Allen Wrench 4mm
- G10012 Allen Wrench 3mm
- 19 G81031 Speed Wrench
- 20 G521061 Wrench With Double Open Ends
- 21 G18001 2.0mm Wire Tensioner
Transknee Fixator System

- 1
  308 Transknee Fixator (L.R.S.)
  Consisting of:
  1 2/3 ring, 1 ring clamp,
  1 L.R.S. Transknee body
  2/3 ring
  H7001 inner Ø 150
  H7002 inner Ø 175
  H7003 inner Ø 190
  H7135 inner Ø 120
  2 D309 Transknee Fixator (Rod to Pin)
  Consisting of:
  1 Rod to Pin Transknee body,
  5 14mm Pin Clip Clamp (Peek Rod)
**External Fixator**

**Bone Screws, Self Tapping Screw**

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External Fixator

### Bone Screws, Hydroxyapatite Screw

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<td>25-30 mm</td>
</tr>
</tbody>
</table>

### Bone Screws, Self Drilling Screw

<table>
<thead>
<tr>
<th>Screw Code</th>
<th>Shaft</th>
<th>Thread Length</th>
<th>Total Length</th>
<th>Thread</th>
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<tbody>
<tr>
<td>ZLO6080250</td>
<td>6 mm</td>
<td>80 mm</td>
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</tr>
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<td>220 mm</td>
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<td>40 mm</td>
<td>220 mm</td>
<td>50-60 mm</td>
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<tr>
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<td>50 mm</td>
<td>200 mm</td>
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</tr>
<tr>
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<td>60 mm</td>
<td>150 mm</td>
<td>56-60 mm</td>
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<tr>
<td>ZLO6050150</td>
<td>6 mm</td>
<td>50 mm</td>
<td>150 mm</td>
<td>56-60 mm</td>
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<td>ZLO6040150</td>
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<td>100 mm</td>
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<td>25-30 mm</td>
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<td>ZLO301850</td>
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<td>50 mm</td>
<td>25-30 mm</td>
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<td>ZLO302045</td>
<td>3 mm</td>
<td>20 mm</td>
<td>45 mm</td>
<td>20-25 mm</td>
</tr>
</tbody>
</table>
ZS9 Upper Limbs

- 1 ZS92001 Rod to rod coupling
- 2 ZS92002 Pin to rod coupling
- 3 ZS92012 Inverted pin to rod coupling
- 4 ZS92003 Double pin to rod coupling
- 5 ZS92013 Inverted Double pin to rod coupling
- 6 ZS91004 5 hole pin clamp
- 7 ZS91002 Multi-pin clamp
- 8 ZS91003 Joint Clamp
- 9 ZS93003 30°angled post
- 10 ZS93001 Straight post
- 11 ZS99001 Connecting rod for elbow (short)
- 12 ZS99002 Connecting rod for elbow (long)
- 13 ZS99003 Connecting rod for wrist
- 14 ZS95050 SS connecting rod Ø 5x50
- 15 ZS95100 SS connecting rod Ø 5x100
- 16 ZS95150 SS connecting rod Ø 5x150
- 17 ZS95200 SS connecting rod Ø 5x200
- 18 ZS95250 SS connecting rod Ø 5x250
- 19 ZS96050 Carbon connecting rod Ø 5x50
- 20 ZS96100 Carbon connecting rod Ø 5x100
- 21 ZS96150 Carbon connecting rod Ø 5x150
- 22 ZS96200 Carbon connecting rod Ø 5x200
- 23 ZS96250 Carbon connecting rod Ø 5x250
- 24 ZS97001 Semi-circular rod (S)
- 25 ZS97002 Semi-circular rod (M)
- 26 ZS97003 Semi-circular rod (L)
- 27 G20002 Hex pin driver
- 28 G20004 Guide for pin
- 29 G20006-01 Thumbwheel
- 30 G20010 T-wrench
- 31 G20008 Reduction wrench
- 32 G20012 Multi-pin insertion guide
- 33 G20014 Manual drill handle
ZS8 Lower Limbs

- 1 ZS82001 Rod to rod coupling
- 2 ZS82002 Pin to rod coupling
- 3 ZS82012 Inverted pin to rod coupling
- 4 ZS82003 Double pin to rod coupling
- 5 ZS82013 Inverted double pin to rod coupling
- 6 ZS81001 5 hole pin clamp
- 7 ZS81002 Multi-pin clamp
- 8 ZS8001 Dynamization tube (single)
- 9 ZS83003 30°angled post
- 10 ZS83001 Straight post
- 11 ZS89003 Connecting rod for elbow (short)
- 12 ZS88004 Compression / distraction tube (M)
- ZS88014 Compression rod to pin coupling
- 13 ZS88021 Adjustable tube (short)
- ZS88022 Adjustable tube (long)
- 14 ZS89001 Connecting rod for knee (L)
- ZS89002 Connecting rod for knee (R)
- 15 ZS84150 AL Connecting rod Ø 8x150
- ZS84200 AL Connecting rod Ø 8x200
- ZS84250 AL Connecting rod Ø 8x250
- ZS84300 AL Connecting rod Ø 8x300
- ZS84350 AL Connecting rod Ø 8x350
- ZS84400 AL Connecting rod Ø 8x400
- 16 ZS86150 Carbon Connecting rod Ø 8x150
- ZS86200 Carbon Connecting rod Ø 8x200
- ZS86250 Carbon Connecting rod Ø 8x250
- ZS86300 Carbon Connecting rod Ø 8x300
- ZS86350 Carbon Connecting rod Ø 8x350
- ZS86400 Carbon Connecting rod Ø 8x400
- 17 ZS87001 Semi-circular rod (S)
- ZS87002 Semi-circular rod (M)
- ZS87003 Semi-circular rod (L)
- 18 G20001 Hex pin driver
- 19 G20005 Guide for pin
- 20 G20006-2 Thumbwheel
- 21 G20010 T-wrench
- 22 G20009 Reduction wrench
- 23 G20012 Multi-pin insertion guide
- 24 G20011 Tourque limited wrench
- 25 G20014 Manual drill handle
- 26 G20017 Pin holder
### External Fixator

**BFIX™**

**Belanja Cepat CaraTepat**

catalogue

**ORTHOPAEDICS**

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**External Fixator**

**SK-ZS Universal Set for Upper Limbs**

**SK-ZS Universal Set for Lower Limbs**

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**Smart Mini System**

- 1 ZS102001 Rod to rod coupling
- 2 ZS102002 Pin to rod coupling
- 3 ZS102012 Inverted pin to rod coupling
- 4 ZS102003 Double pin to rod coupling
- 5 ZS102013 Inverted double pin to rod coupling
- 6 ZS102002 Multi-pin clamp
- 7 ZS106050 Carbon connection rod Ø 3x50
- ZS106100 Carbon connection rod Ø 3x100
- ZS106150 Carbon connection rod Ø 3x150
- 8 ZS92001 Rod to rod coupling x4
- ZS92002 Pin to rod coupling x2
- ZS92012 Inverted pin to rod coupling x2
- ZS92003 Double pin to rod coupling x2
- ZS92013 Inverted double pin to rod coupling x2
- ZS91004 4 hole pin clamp x2
- ZS93003 30° angled post x2

---

**Smart Mini System**

- 8 ZS93001 Straight post x4
- ZS95050 SS connecting rod Ø 5x50 x1
- ZS95100 SS connecting rod Ø 5x100 x1
- ZS95150 SS connecting rod Ø 5x150 x1
- ZS95200 SS connecting rod Ø 5x200 x1
- ZS95250 SS connecting rod Ø 5x250 x1
- ZS97001 Semi-circular rod (S) x1
- ZS97002 Semi-circular rod (M) x1
- ZS97003 Semi-circular rod (L) x1
- ZS99003 Connecting rod for wrist x1
- ZSA30-100 3.0x100mm pin x2
- ZSA40-120 4.0x120mm pin x2
- G20002 Hex pin driver (upper limbs) x1
- G20004 Guide for pin 5mm x1
- G20006-01 Thumbwheel x1
- G20008 Reduction wrench (upper limbs) x2
- G20010 T-wrench x1
- G20012 Multi-pin insertion guide x1
- G20014 Manual drill handle x1
- G20015 Pin holder 3mm x1
- G20016 Pin holder 4mm x1
- 9 ZS82001 Rod to rod coupling x8
- ZS82002 Pin to rod coupling x2
- ZS82012 Inverted pin to rod coupling x2
- ZS82003 Double pin to rod coupling x2
- ZS82013 Inverted double pin to rod coupling x2
- ZS81001 5 hole pin clamp x3
- ZS83003 30° angled post x6
- ZS83001 Straight post x2
- ZS84200 AL connecting rod Ø 8x200 x1
- ZS84250 AL connecting rod Ø 8x250 x1
- ZS84300 AL connecting rod Ø 8x300 x1
- ZS84350 AL connecting rod Ø 8x350 x1
- ZS87001 Semi-circular rod (S) x1
- ZS87002 Semi-circular rod (M) x1
- ZS87003 Semi-circular rod (L) x1
- ZSA50-150 5.0x150mm pin x10
- ZSA40-120 4.0x120mm pin x6
- G20005 Guide for pin 8mm x1
- G20006-02 Thumbwheel
- G20009 Reduction wrench (lower limbs) x2
- G20010 T-wrench x1
- G20012 Multi-pin insertion guide x1
- G20014 Manual drill handle x1
- G20016 Pin holder 4mm x1
- G20017 Pin holder 5mm x1
DISPOSABLES

Anesthesia
Disposable ESU Plate
ECG Electrode
Gastroenterology
Micropipette Tip
Monopolar Pencil
Respirometer
Surgery
Surgical Stapler
Transfusion
Ultrasound Gel
Umbilical Cord Clamp
Urology
Vacuum Tube
**Anesthesia Oxygen Mask, Flexi Mask GS-2020**

**Features**
- Flexi Mask is designed for convenient oxygen therapy.
- Moulded face mask is manufactured from non-toxic, non irritant medical grade PVC.
- Provided with adjustable elastic strap for proper positioning of mask on the nasal area.
- Swivel connector for convenience of attachment to the oxygen tube.
- 210 cm (7ft) multichannel tube is provided to ensure continuous flow of oxygen.
- Proximal end of tube is fitted with soft funnel shape connector for easy connection to oxygen source.
- Non-sterile, individually packed in poly bag.
- Master Box of 50.

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Tube Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>210 cm (7 ft)</td>
</tr>
<tr>
<td>Child</td>
<td>210 cm (7 ft)</td>
</tr>
</tbody>
</table>

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**Anesthesia Venturi Mask, Oxy Lock GS-2038**

**Features**
- Variable venturi system to ensure accurate concentrations of oxygen with single unit.
- Transparent air entrainment mask with soft anatomical form with easily adjustable elastic strap.
- Wide, adjustable strap for proper positioning of mask on the nasal area.
- Rotating type connector for patient’s comfort.
- Unique spring loaded mechanism locks prescribed concentration in place ensuring safety & accuracy.
- 210 cm (7 ft.) multichannel tube provided to ensure continuous flow of oxygen.
- Master box of 50.

<table>
<thead>
<tr>
<th>Mask Size</th>
<th>Tube Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>210 cm</td>
</tr>
<tr>
<td>Child</td>
<td>210 cm</td>
</tr>
</tbody>
</table>
Anesthesia
Micro Mist Nebulizer Set, Aeromist GS-2074

Features
- Soft, clear Aerosol Mask with anatomical form is ideal for long term use.
- Gently rolled, feathered edges with integrated nose bridge for extra comfort.
- Swivel connector for convenience of nebulization in horizontal and vertical position.
- Larger surface area provided by unique convex cone design, ensures maximum capillary action and eliminates medicinal wastage.
- Nebulization rate: 3cc / 10 mins.
- Set consists of: Aerosol Mask, Nebulizer chamber & 210 cm. (7ft) Multichannel tube.
- Master box of 50 pcs.

Power Drool GS-2082
- Nebulizer Chamber.
- T-Shape connector.
- One Mouth Piece.
- 210cm (7ft) long multi channel tubing.

Anesthesia
Oxygen Mask with Reservoir Bag, Hi Mask GS-2044

Features
- High Concentration Oxygen Therapy.
- Equipped with soft, transparent and odour free Mask for greater patient comfort.
- Non return valves provided at inhale and exhale points, prevent carbon dioxide retention.
- Light weight reservoir improves the oxygen efficiency and patient comfort.
- Master box of 50.

Unit consists of
- Mask with Elastic Strap and Non Return Valve.
- Mask Connector with Non Return Valve.
- 600 ml Reservoir capacity.
- 210 cm. (7 ft.) long Multichannel Tube.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Reservoir</th>
<th>Tube Length</th>
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</thead>
<tbody>
<tr>
<td>GS 2044</td>
<td>600 ml</td>
<td>210 cm</td>
</tr>
</tbody>
</table>
Anesthesia
Oxy Set GS-2016

**Features**
- Oxy-Set is suitable for easy application and efficient administration of oxygen for greater comfort of the patient.
- The system of attachment provides maximum freedom to the patient and leaves the patient's mouth free for nutritional and communication purposes.
- Twin prong / nasal tips are designed to ensure equal volume of oxygen to both the air passages.
- Soft funnel shaped connector facilitates easy connection to the oxygen source.
- Multichannel tube ensures continuous supply of oxygen, even if the tube is accidentally kinked.
- Manufactured from soft, light weight non toxic material.
- Available in sterile and non-sterile options.
- Sterile packed in peelable soft blister pack.
- Box of 20/Master box of 200 (Sterile).
- Non-sterile packed in polybag.
- Master box of 100 (Non-Sterile).

<table>
<thead>
<tr>
<th>Prong Sizes</th>
<th>Tube Length</th>
</tr>
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<tbody>
<tr>
<td>Adult</td>
<td>210 cm (7 ft)</td>
</tr>
<tr>
<td>Child</td>
<td>210 cm (7 ft)</td>
</tr>
<tr>
<td>Infant</td>
<td>210 cm (7 ft)</td>
</tr>
<tr>
<td>Neonate</td>
<td>210 cm (7 ft)</td>
</tr>
</tbody>
</table>

Resq Bag GS-2050 (Reusable)
- Resq Bag kit consists of a Silicone Manual Resuscitator, Multichannel Kink Resistant Oxygen Tubing, Reservoir Bag & Silicone Mask.
- Silicone Resuscitator provides excellent bag re-expansion property.
- Pressure limiting valve ensures crucial adjustments for enhanced performance.
- Presence of 360° swivel joint between patient valve and face mask facilitates ease of maneuverability to interface with the patient's posture.
- Autoclavable.
- Box of 1/Master Box of 8.

Resq Bag GS-2052 (Disposable)
- Resq Bag kit consists of a TPE Manual Resuscitator, Multichannel Kink Resistant Oxygen Tubing, Reservoir Bag and Inflatable Mask.
- The Resuscitator supports excellent bag re-expansion property.
- Pressure limiting valve ensures crucial adjustments for enhanced performance.
- Presence of 360° swivel joint between patient valve and face mask facilitates ease of maneuverability to interface with the patient's posture.
- Box of 1/Master Box of 10.

Silko Mask GS-2049
- 100% Silicone material.
- Spare mask.

<table>
<thead>
<tr>
<th>Product</th>
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<tbody>
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<td>Resq Bag</td>
<td>Adult</td>
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<tr>
<td></td>
<td>Child</td>
</tr>
<tr>
<td></td>
<td>Infant</td>
</tr>
<tr>
<td>Silko Mask</td>
<td>0, 1, 2</td>
</tr>
<tr>
<td></td>
<td>3, 4, 5</td>
</tr>
</tbody>
</table>
Anesthesia
Oropharyngeal Airway, Guedel Airways GS-2012

Features
- Guedel Airways are designed to maintain an unobstructed oropharyngeal airway during or following general anaesthesia and also in patients who are unconscious for other reasons.
- Integral hard bite block avoids airway occlusion and biting of tongue.
- Stepless airway path for easy cleaning / suctioning.
- Bite blocks are colour coded for instant identification of sizes.
- Manufactured from non toxic, non-irritant polymer PE.
- Individually packed in peelable soft blister pack.
- Sterile, ready for use.
- Box of 50/Master box of 400.

Sizes | Colour Code
--- | ---
000 | -
00 | Blue
0 | Black
1 | White
2 | Green
3 | Yellow
4 | Red
5 | Orange

Anesthesia
Suction Catheter GS-2006, GS-2022, GS-2023, GS-2030

ENDO Bronchial Suction Catheter
- Suction catheters are suitable for removal of secretion from mouth, trachea and bronchial tubes.
- Manufactured from non-toxic non-irritant medical grade PVC.
- Distal end is open with one lateral eye.
- Frozen surface tubing for smooth intubation.
- Colour coded for instant identification.
- Straight packed in a peelable soft blister pack.
- Sterile, ready for use.
- Box of 100 / master box of 1000

Suction Catheter (Plain)
- Provided with universal funnel shaped connector for safe connection to the standard suction equipment.

Suction Catheter (Thumb Control)
- Provided with "T" type vacuum control valve with thumb control for proper manoeuvring.
Anesthesia Endotracheal Tube (Plain) GS-2002

Features
- Manufactured from thermosensitive material readily conforming to body contours at body temperature.
- Kink resistant tube minimizes possibility of tube occlusion.
- Radio-opaque line throughout the tube length to facilitate exact location of the tube.
- Proximal end is fitted with standard 15mm connector conforming to ISO-5356-1.
- Single Use, no risk of cross infection.
- Sterile, individually packed in blister pack
- Box of 10/Master box of 100.

Sizes
2.0 mm to 5.0 mm Bore with 0.5 mm stage

Anesthesia Endotracheal Tube (Cuffed) GS-2004

Features
- Thermo sensitive tube softens at body temperature to conform to the anatomy of the respiratory tract.
- Kink resistant inflation tube ensures patient safety during cuff inflation and deflation.
- Murphy eye has a polished smoothness, assisted by lateral ventilation of airway.
- Low Pressure Cuff reduces the risk of creasing or inflation and minimizes pressure on trachea wall.
- Soft, high volume, low pressure cuff provides an air tight fit between tube and trachea.
- Radio opaque line throughout the length to facilitate exact location of the tube.
- Standard 15mm Connector conforming to ISO-5356-1.
- Conforms to F-29 standards.
- Sterile, individually packed in blister pack.
- Sterile, ready for use.
- Box of 10/Master box of 100.

Sizes
5.0 mm to 10.0 mm Bore with 0.5 mm stage
**Anesthesia**

**Epidural Kit GS-2026, GS-2018**

- **EPI DURAL/TUOHY NEEDLE**: Tuohy type needle is provided with clear depth marking for accurate insertion depth reading, polished inner bevel edge minimize the risk of catheter shearing.
- **EPI DURAL CATHETER**: Closed round soft tip with three lateral eyes.
- **LOR SYRINGE**: Specially designed syringe suitable for air & saline technique, provides clear identification of epidural space.
- **THREADING ASSIST GUIDE**: Fits securely into the needle & assists in easy advancement of catheter.
- **DETACHABLE CONNECTOR**: Separate twist lock connector.
- **HYDROPHOBIC FILTER**: Hydrophobic 0.2 micron filter provides additional safety & control against microbial infections.
- Box of 1/Master Box of 50.

**Epi Kit GS-2026**

- Epidural catheter is specially designed for continuous anaesthesia and pain relief therapy.
- Catheter is made from unique plasticizer free formulation of polymer with excellent bio-compatibility.
- Flexible & atraumatic soft tip with three lateral eyes.
- Catheter is printed to determine the depth of insertion and accurate placement of catheter in the epidural space.
- Luer lock twist connector.
- Crystal clear catheter with radio opaque line.
- Sterile, individually packed in peelable pack.
- Box of 10/Master box of 400.

**Anesthesia**

**Catheter Mount GS-2040**

**Features**

- Double swivel elbow connector with suction port and cap provides better flexibility, easy accessibility and provides comfort to the patient during suction.
- 15mm I.D./22mm O.D. connector, snugly fits to all tracheal tubes.
- 22mm standard female connector is compatible with all breathing & ventilator circuits.
- Specially designed port at the elbow facilitates suction & gas sampling without disconnecting the breathing circuit.
- Stepless airway path for easy cleaning.
- Collapsible corrugated tubing is inert to all anaesthetic gases & reagents.
- Individually packed in poly bag.
- Box of 20/Master box of 200
Transfusion I.V Cannula GS-3022, GS-3031

**Features**
- Kink resistant FEP-Teflon cannula has extremely smooth inner and outer surface to ensure minimum trauma and smooth flow.
- Double tapered moulded cannula tip ensures smooth and less traumatic cannulation.
- Super sharp triple facette bevelled needle is specially designed with two cutting edges for smooth penetration.
- Transparent flashback chamber allows immediate detection of blood.
- Sterile, individually packed in blister pack.

I.V. Cannula, Intra Cath 2 GS-3022
- I.V Cannula with Wing, Injection Port and Luer Lock.
- I.V. Cannula with Injection Port and non return valve is provided for additional medication.
- Injection Port Cap is size colour coded for instant size identifications.
- I.V. Cannula bears three radioopaque stripes for X-Ray detection.
- Sterile, individually packed in peel open blister pack.
- Sizes: 14, 16, 18, 20, 22 & 24 G
- Box of 100/Master box of 1000.

Micron, Neonate I.V. Cannula
- Neonate I.V Cannula with wing and luer lock.
- Sterile, Blister Pack, Tyvek Lid.
- Size: 26G, Length: 19 mm
- Box of 100/Master box of 1000.

Transfusion Needle Free Devices, Exteena GS-3048

**Features**
- Needle free devices prevent thrombotic occlusion in I.V line & inhibit microbial colonization.
- Secure fitment to I.V Cannula, I.V Set, Extension Lines and CVC
- Closed system controls infection / air embolism.
- Swabable port prevents infection and allows safe access.
- Clear ABS body.
- Latex free.
- Based on split septum technology.
- Luer fitment as per ISO Standards.
- Low reverse pressure facilitates easy connection.
- Compatible with MRI.
- Sterile, individually packed in blister pack.

Exteena Duo
- Needle less I.V connector with dual extension for running two lines simultaneously with rotating luer slip lock and two clamps.
- Sterile blister pack, Length of 13 cm.
- Low prime volume: 0.6 ml.
- Box of 20/Master box of 200.
Transfusion
RMS Vented Infusion Set, Infusion Set SS-3060

Features
- Sharp piercing spike for easy insertion in I.V container.
- Infusion set with built in air vent and bacteria barrier hydrophobic filter.
- Specially designed cylindrical collapsible drip chamber to visualize the flow rate.
- Provided with disc type fluid filter to filter any particulate matters in the I.V fluid.
- Long super smooth kink resistant tubing with efficient roller controller for accurate and unrestricted flow.
- Flash ball type injection port for extra medication.
- Infusion set with drop rate of 20 drops / ml
- Polybag of 25 / Master box of 500.

Transfusion
RMS Blood Administration Set Blood Transfusion Set SS-3052

Features
- Conforms to ISO 1135-4.
- Cylindrical drip chamber provided with 200 micron filter to prevent passage of any clot into the chamber.
- Sharp non-vented spike suitable for blood bags and all type of standard blood containers.
- Available with or without 19 G vein needle.
- Flash ball type injection port for extra medication.
- 150 cm. kink resistant tube.
- Efficient roller controller for accurate adjustment of infusion rate.
- Sterile and individually packed.
- Polybag of 25/Master box of 500.

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Transflow GS-3063

Features
- Specially designed vented infusion set with latex free “Y” injection site along with needle-prick protection shield.
- Unique rotating type luer-slip-connector.
- Compatible with all infusion pumps.

<table>
<thead>
<tr>
<th>Tube Length</th>
<th>Drop Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 cm</td>
<td>20 drops / ml</td>
</tr>
</tbody>
</table>
**Transfusion**
**Measured Volume Set, Pedia Drip SS-3058**

- Burette type measured volume chamber of 100ml with 10ml overflow limit.
- Micro drip with drop sizes 60 drops per ml.
- Burette chamber is made of biocompatible medical grade transparent polymer, suitable for infusion of all types of fluids.
- Specially designed hanger facilitates the hanging of complete device on the I.V. stand.
- Floating auto shut off valve acts as floating indicator and automatically shuts off the drain path when the chamber gets empty to prevent any air trapping into the fluid line or entering patient’s venous system (air embolism).
- Roller controller provides accurate flow control.
- No-Kink device prevents the kinking of tube during transportation.
- Separate injection ports for extra medication and continuous change over.
- Sterile individually ribbon packed.
- Box of 10 / Master box of 100.

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**Features**

- Manufactured from specially formulated and biocompatible PU material.
- Specially designed soft tip catheter to make the insertion easy and non-traumatic.
- Based upon much preferred Seldinger technique.
- Specially designed Guidewire with soft J-tip prevents the perforation and provides good torque to ensure firm insertion.
- Radio-opaque catheter with clear marking, facilitates correct placement.
- Sterile, individually packed in hard blister pack.
- Box of 10/Master box of 20.

**Kit consists of**

- Soft tip Polyurethane catheter, "J" tip Guide Wire with dispenser
- “Y” shaped Introducer Needle, Tissue dilator
- Suture wing and clamp fastener, Scalpel
- Extension Line clamp, Syringe 5ml
- Injection site, Hypodermic needle (20G x 25mm)
- Needle sponge

---

<table>
<thead>
<tr>
<th>Optional</th>
<th>Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Lumen</td>
<td>5 Fr x 20 cm</td>
</tr>
</tbody>
</table>
| Double Lumen    | 5 Fr x 8 cm  
|                 | 7 Fr x 16 cm |
|                 | 7 Fr x 20 cm |
| Triple Lumen    | 7 Fr x 16 cm |
|                 | 7 Fr x 20 cm |

**Transfusion**
**Central Venous Catheter Kit, Centro GS-3042**

- 100% latex free measured volume set provided with Y-injection site & luer slip connector
- All other features are as above
Transfusion Three Way Stop Cock, Bi-Valve GS-3040

Features
- Three Way Stop Cock is suitable for use during pressure infusion and invasive blood pressure monitoring.
- Comprises of one male luer lock with rotating nut and two female luer lock connectors.
- Clear transparent, polycarbonate lipid resistant body, facilitates easy visualisation of fluid flow.
- Rigid construction with circular flow channel prevents air entrapment.
- Smooth three arm handle is easy to operate and indicates fluid path.
- Universal 6% luer taper facilitates leak proof connection with corresponding devices.
- Male luer lock with rotating nut prevents accidental disconnection.
- Sterile, individually packed in blister pack.
- Box of 50/Master box of 1000.

Residual Vol. <= 0.20 ml

Pressure 5 bar

Transfusion Three Way with Tube, Vein O Line GS-3034

Features
- Male luer lock at one end and 3-way stop cock at other end and fits all standard equipment.
- Sterile, individually packed in peelable soft blister pack.
- Length: 10, 50, 100, 150, 200 cm.
- Box of 20/Master box of 200.

Perfusor Line, PM-O-Line GS-3036

Features
- Small bore high pressure extension line.
- Suitable for high pressure monitoring.
- Provided with male and female luer lock at either ends and fits all standard equipment.
- Luer lock provide secure fitment.
- Sterile, individually packed in peelable soft blister pack.
- Lengths available on request.
- Box of 20/Master box of 200.
Surgery
Chest Drainage Catheter GS-5010, GS-5034, GS-5011

Features
- Thoracic drainage catheters are most suitable for post operative drainage following cardio-thoracic surgeries.
- Distal end is open with super smooth large eyes to maximise the drainage from the chest.
- Proximal end is fitted with specially designed tapered tongue to provide excellent forceps grip and nontraumatic insertion.
- Catheters are marked at every 2 cm. from the last eye to ascertain the depth of placement.
- Packed with matching size spare connector which facilitates easy connection to drainage system.
- Sterile, ready for use.
- Box of 20/Master box of 200.

<table>
<thead>
<tr>
<th>Sizes in FG</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>450 mm</td>
</tr>
<tr>
<td>16</td>
<td>450 mm</td>
</tr>
<tr>
<td>20</td>
<td>450 mm</td>
</tr>
<tr>
<td>24</td>
<td>450 mm</td>
</tr>
<tr>
<td>28</td>
<td>450 mm</td>
</tr>
<tr>
<td>32</td>
<td>450 mm</td>
</tr>
<tr>
<td>36</td>
<td>450 mm</td>
</tr>
</tbody>
</table>

Surgery
Thoracic Trocar Catheter GS-5030

Features
- Specially designed for quick non-operative pleural and chest drainage for the relief of chest conditions such as tension pneumothorax.
- Catheter manufactured from medical grade PVC fits snugly over the trocar.
- Blunt yet smooth tip.
- Flat handle facilitates easy manoeuvrability.
- Large, smooth drainage eyes for efficient drainage.
- Markings provided at 5, 10, 15 & 20 cm from the distal tip help ascertain depth of penetration.
- Proximal end is fitted with tapered connector for easy connection to drainage bottle.
- Sterile, individually double packed in peelable pouch.
- Box of 10/Master box of 100.

<table>
<thead>
<tr>
<th>Sizes in FG</th>
<th>Length</th>
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<tbody>
<tr>
<td>8</td>
<td>80 mm</td>
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<tr>
<td>10</td>
<td>160 mm</td>
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<td>12</td>
<td>160 mm</td>
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<tr>
<td>14</td>
<td>160 mm</td>
</tr>
<tr>
<td>16</td>
<td>190 mm</td>
</tr>
<tr>
<td>18</td>
<td>350 mm</td>
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<tr>
<td>20</td>
<td>350 mm</td>
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<tr>
<td>24</td>
<td>350 mm</td>
</tr>
<tr>
<td>28</td>
<td>350 mm</td>
</tr>
<tr>
<td>32</td>
<td>350 mm</td>
</tr>
<tr>
<td>36</td>
<td>350 mm</td>
</tr>
</tbody>
</table>
Surgery
Tracheostomy Tube Plain, GS-2008

**Features**
- Made of thermosensitive medical grade PVC which provides sufficient hardness during insertion.
- Being light in weight and non irritant, it avoids inflammation around tracheostomy tube.
- Soft flexible flange.
- 15mm connector can be rotated in 360 degree direction and facilitates safe connection to breathing system.

**Product Code**
GS 2008

**Size in mm**
4, 4.5, 5, 6, 7, 7.5, 8, 9, 10

---

Surgery
Tracheostomy Tube Cuffed, GS-2010

**Features**
- Made of thermosensitive material.
- Soft low pressure cuff dynamically adjusts the pressure at the point of contact during the breathing cycle.
- Pilot balloon with non return valve facilitates cuff inflation and deflation.
- Radio opaque blue line.
- Soft and flexible flange provided with inner & outer diameter sizes.

**Product Code**
GS 2010

**Size in mm**
5, 6, 7, 7.5, 8, 9, 10

---

Surgery
Yankaur Suction Set GS-5016 A6

**Features**
- Yankaur Suction Set is suitable for convenient removal of secretions, blood and debris etc peri operatively.
- Complete set is provided with Yankaur suction tip mounted on 2 mtr long ribbed tube, provided with universal connector at both ends.
- Universal connectors are moulded from soft PVC, so as to accommodate the suction tip on one end and all type of connectors of suction apparatus at the other end.
- Ribbed tube is kink resistant and has the strength to withstand the suction.
- Box of 10 / Master box of 100.
- Tube length 200 cm, OD 9.00 mm, ID 6.00 mm, Tip Midi VC.

---

Surgery
Vaccu Suck Set, Yankaur Suction GS-5016

**Features**
- Moulded Yankaur suction handle attached with 2.5 mtr long tube.
- Specially designed flexible, kink resistant tube provides unobstructed suction during the prolonged use.
- Soft flexible adaptors at both ends of the tube provides safe grip to the handle as well as at the suction source.
- Vent port is permanently closed with tight fit sleeve, which can be removed with small incision by blade to change over to vent control system.
- Box of 10/Master box of 100.
Surgery
Close Wound Suction Unit, Romo Vac Set
GS-5002

Features
- Suitable to offer surgeons an effective device for close wound drainage under negative pressure postoperatively with the option to use one or two catheters simultaneously.
- Redon drain catheters are provided with size colour coded, radio opaque line and satin smooth eyes.
- Connecting tube is kink resistant and is provided with additional strength to withstand the suction.
- Available in different sizes with catheter matching size curved needle to meet minor, moderate to heavy drainage needs.
- Easy to depress chamber to activate the suction of bellow unit, single handedly.

Unit Consists of
- Bellow unit, Connecting tube with clamp and “Y” connector, Redon Needle (Curved needle) attached to matching size catheter and Spare catheter.
- Curved Needle Length 175 cm for all sizes except FG 8 where it is 90 cm and bellow capacity is 50 ml.
- Sterile, Box of 1.

Sizes in FG | Colour Code
---|---
8 | Blue
10 | Black
12 | White
14 | Green
16 | Orange
18 | Red

Surgery
Water Seal Drainage System, Romo Seal
GS-5020, GS-5031, GS-5032

Features
- Available in different capacities.
- Easy to read graduation on the bottle helps to determine the drain volume precisely.
- Clearly marked initial level ensures the under water seal.
- Write on facility on the side of scale helps in monitoring of the drainage volume.
- Separate suction port is provided for connection with the suction unit.
- Kink resistant large bore tubing facilitates unrestricted flow.
- Extra large connector provided to facilitate easy connection to the catheter.
- Unit is provided with metal hangers and floor stand.
- Complete unit is sterile and packed in a box.
- Box of 1/Master box of 10.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS 5020</td>
<td>2000 ml</td>
</tr>
<tr>
<td>GS 5031</td>
<td>1200 ml</td>
</tr>
<tr>
<td>GS 5032</td>
<td>500 ml</td>
</tr>
</tbody>
</table>


**Features**

- Specially designed for measurement of hourly urine output.
- Clear and transparent measured volume chamber provides accurate measurement.
- Urine chamber directly attached to the urine bag with overflow facility.
- 150 cm long kink resistant tubing ensures unrestricted flow of urine.
- Completely closed system eliminates the risk of contamination.
- Screw type bottom outlet provided for easy and quick emptying of urine bag.
- Universal tapered connector with sampling port facilitates mid stream urine sampling.
- Sterile and individually packed in a box.
- Box of 1/Master box of 50.

**Sizes**

<table>
<thead>
<tr>
<th>Chamber Capacity</th>
<th>Bag Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS-1018-250: Standard</td>
<td>250 ml</td>
</tr>
<tr>
<td>Adult</td>
<td>2000 ml</td>
</tr>
</tbody>
</table>

**Features**

- Closed urine drainage system with graduated chamber to measure the urine output on hourly basis in ICU & CCU's.
- 500 ml transparent chamber has four fine measuring sections to measure the accurate & precise volume of the urine.
- Collection chamber is provided with hydrophobic filter to minimize the risk of urinary tract infection.
- Single handed operation of the valve for emptying all chambers simultaneously.
- Bye pass system is provided to prevent the overflow.
- Two ltr capacity urine collecting bag with clamp & "T" shaped bottom outlet.
- 120 cm long kink resistant tubing ensures unrestricted flow of urine.
- Tapered connector with sampling port facilitates easy & aseptic mid stream urine sampling.
- Flexible fastening strap for easy hanging to bed side.
- Sterile, individually packed in box.
- Box of 1/Master box of 20.

**Chamber Capacity**

<table>
<thead>
<tr>
<th>Chamber Capacity</th>
<th>Length of Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 ml</td>
<td>120 cm</td>
</tr>
</tbody>
</table>
Urology
Urine Collecting Bags, Urine Bag GS-1020

- Closed urine drainage system for short and long term use.
- Manufactured from soft clinical grade PVC sheeting.
- Reinforced eyelets allow easy hanging and provide maximum protection against tearing.
- Push / Pull type bottom outlet allows convenient emptying.
- Kink resistant 90cm tube provided with universal tapered connector.
- Easy to read scale for quick determination of urine volume.
- Sterile individually packed, Pack of 25 / Master box of 250.
- Non sterile bulk pack, Box of 200 / Master box of 400.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Tube length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000 ml</td>
<td>90 cm</td>
</tr>
</tbody>
</table>

Urology
Urine Leg Bag GS-1024

- Suitable for day and night use for incontinence.
- Manufactured from soft clinical grade PVC sheeting.
- Available with “T” type bottom outlet.
- Non-return valve to prevent the back flow of urine.
- Printed with easy to read scale.
- Convenient for tying on thigh with optional elastic straps.
- Supplied As : Sterile, individually packed. Box of 10/Master box of 200.
- Non sterile bulk pack. Master box of 200.

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Capacity : 750 ml</th>
<th>Tube Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td></td>
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<tr>
<td>GS 1024 A</td>
<td></td>
<td>10 cm</td>
</tr>
<tr>
<td>GS 1024 B</td>
<td></td>
<td>30 cm</td>
</tr>
<tr>
<td>GS 1024 C</td>
<td></td>
<td>40 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Capacity : 500 ml</th>
<th>Tube Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GS 1024 D</td>
<td></td>
<td>10 cm</td>
</tr>
<tr>
<td>GS 1024 E</td>
<td></td>
<td>30 cm</td>
</tr>
<tr>
<td>GS 1024 F</td>
<td></td>
<td>40 cm</td>
</tr>
</tbody>
</table>

Optional : Elastic Strap
### Urology

**Foley Balloon Catheter 2 Way GS-1072**

**Features**

- Symmetrical large capacity balloon ensuring a straight tip for proper flow and good sphincter action, thus preventing bladder leakage.
- Manufactured from natural rubber coated with silicone to eliminate the risk of encrustation.
- Coned distal end provided with burr free eyes for atraumatic intubation.
- Hard valve ensures easy inflation and deflation of balloon.
- Colour coded for instant size identification.
- Sterile, individually packed in peelable pack.
- Box of 50/Master box of 500.

<table>
<thead>
<tr>
<th>Sizes in FG</th>
<th>Balloon Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>3-5 ml/cc</td>
</tr>
<tr>
<td>10</td>
<td>3-5 ml/cc</td>
</tr>
<tr>
<td>12</td>
<td>15-30 ml/cc</td>
</tr>
<tr>
<td>14</td>
<td>15-30 ml/cc</td>
</tr>
<tr>
<td>16</td>
<td>30-45 ml/cc</td>
</tr>
<tr>
<td>18</td>
<td>30-45 ml/cc</td>
</tr>
<tr>
<td>20</td>
<td>30-45 ml/cc</td>
</tr>
<tr>
<td>22</td>
<td>30-45 ml/cc</td>
</tr>
<tr>
<td>24</td>
<td>30-45 ml/cc</td>
</tr>
</tbody>
</table>

### Urology

**Male Catheter GS-1010**

**Features**

- Male Cath is specially designed for urine incontinence for day and night use in male patients.
- Manufactured from 100% latex for soft and gentle feel.
- Provided with soft adhesive coated strip for proper fixation.
- Proximal end is tubular shaped, designed for safe and easy connection to the urine bag or leg bag.
- Individually packed in peelable soft blister pack.
- Sterile, ready for use.
- Box of 50/Master box of 500.

<table>
<thead>
<tr>
<th>Sizes</th>
<th>20 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>20 mm</td>
</tr>
<tr>
<td>Medium</td>
<td>25 mm</td>
</tr>
<tr>
<td>Large</td>
<td>30 mm</td>
</tr>
<tr>
<td>Extra Large</td>
<td>35 mm</td>
</tr>
</tbody>
</table>
Urology
Urinal Drainage Catheter, Nelaton Catheter GS-1004

Features
- Nelaton catheters are used for short-term bladder catheterisation.
- Manufactured from non-toxic, non-irritant medical grade PVC compatible with catheter lubricants.
- Frozen surface tubing for super-smooth intubation.
- Presence of radio opaque line throughout the catheter tube.
- Distal end is coned for non-traumatic introduction with two lateral eyes for efficient drainage.
- Proximal end is fitted with universal funnel-shaped connector for extension.
- Funnel shape connectors are colour-coded for instant identification of sizes.
- Straight packed in peelable soft blister pack.
- Sterile, ready for use.
- Available in male and female versions.
- Box of 100/Master box of 1000.

Gastroenterology
Nasogastric Tube, Romolene GS-4032

Features
- Suitable for nasogastric introduction, for nutritional purposes or aspiration of intestinal secretions.
- Manufactured from medical grade PVC.
- Super smooth, low friction surface facilitates easy intubation and reduces the incidence of nasal discharge.
- Radio opaque line is provided throughout the length.
- Proximal end is provided with universal funnel-shaped connector.
- Sterile, soft peelable blister pack.
- Marked at 50, 60 & 70 cm.
- Box of 50/Master box of 500

Sizes in FG | Colour Code
---|---
8 | Blue
10 | Black
12 | White
14 | Green
16 | Orange
18 | Red
20 | Yellow
22 | Violet
24 | Blue

Effective Length: 37 cm
Total Length: 40 cm

Effective Length: 37 cm
Total Length: 40 cm

Sizes in FG | Colour Code
---|---
6 | Sea Green
8 | Blue
10 | Black
12 | White
14 | Green
16 | Orange
18 | Red
20 | Yellow
22 | Violet
24 | Blue

Effective Length: 102 cm
Total Length: 105 cm
Gastroenterology
Infant Feeding Tube GS-4008

Features
- Manufactured from DEHP free PVC.
- Suitable in neonatal and paediatric enteral nutritional feeding.
- Distal end is coned with two lateral eyes.
- Proximal end with female luer mount for easy connection to enteral feeding bag connector or luer mount/luer slip syringe.
- Tube is marked at 20 cm from the tip.
- Low friction tubing and super smooth tip ensures trauma free intubation.
- Provided with radio opaque line to facilitate accurate location.
- Sterile, straight packed in peelable soft blister pack.
- Box of 100/Master box of 2000.

Sizes in FG | Colour Code
--- | ---
4 | Clear
5 | Grey
6 | Green
7 | Clear
8 | Blue
9 | Orange
10 | Black

Effective Length : 50 cm | Total Length : 52 cm

Gastroenterology
Feeding Bag GS-4028

Features
- Specially designed 1.2 Lit. capacity bag for feeding purpose.
- An ice pouch is provided with the bag for preserving the food for longer period.
- A transfer set is directly connected to the bag for easy feeding.
- Roller controller is provided to control the flow at which food is going to the patient.
- A hanger is provided with bag for easy handling.
- Sterile, individually packed in peelable pouch
- Box of 5/Master Box of 50

Miscellaneous
Infant Mucus Extracting Device, Mucus Extractor GS-5018

Features
- Used for aspiration of secretion from oropharynx in newly born babies to ensure free respiration.
- Clear transparent container permits immediate visual examination of the aspirate.
- Also suitable for obtaining mucus specimen for microbiological examination.
- Spare plug cap is provided to seal the container for safe transportation of specimen to the laboratory for aseptic disposal of container.
- Low friction surface catheter is provided with open end silk smooth round tip, for trauma free insertion.
- Individually packed in peelable soft blister pack for aseptic handling.
- Sterile, ready for use.
- Box of 20/Master box of 400.
Micropipette Tip

Features
- Micropipette is a device used to move liquids in small quantities accurately.
- Compatible: Eppendorf blue, white and yellows tips.

Miscellaneous
Breathing Exerciser, Respirometer GS-6018

Features
- Innovative system to exercise respiration through inspiration.
- Specially designed with three stage chambers to provide more efficient exercise to patient on a step up basis.
- Device is composed of base and central part divided into three chambers containing three small spheres of different size and colour.
- Three spheres rise proportionately to the inspiration exerted.
- It can be dismantled for cleaning and disinfection.
- Box of 1/Master box of 20.

Miscellaneous
Umbilical Cord Clamp GS-5084

Features
- Suitable for clamping the umbilical cord of new born baby, immediately after birth.
- Provided with dual security lock with distinct “click” to indicate the correct locking.
- Finger grip ensures safe and convenient handling, particularly when gloves are wet.
- Provided with grooves all along the length to prevent the slipping of umbilical cord and retain it in the same position.
- Manufactured from non toxic medical grade polymer.
- Supplied in blue colour.
- Individually packed in blister pack.
- Sterile, ready for use.
- Box of 100/Master box of 4000.
Surgical Stapler
Disposable Circular Stapler III

Features
- Stronger penetrability
- Specification can be known at a glance
- Fool-firing position
- The special design of the outer ring prevent anastomotic tissue from excessive squeezing.
- If there’s no edema of the tissue, the red pointer in the safety window must be aligned with the center line of the green zone before firing.
- 36 three-row titanium staples around can effectively close the tissue. The sharp circular knife can effectively cut.
- B-type staple with slightly incurved feet make the anastomotic a higher tensile strength.

Surgical Stapler
Disposable Linear Cutter

Advantages
- The cutter can be replaced to ensure the sharp cutting. Meanwhile, it can reduce the possibility of implantation metastasis in the tumor resection.
- The tissue space controlling mechanism is in favor of parallel closing and smoother firing.
- The staple line is longer than the cutting line for effectively avoiding errhysis.
- It can prevent the medical care personnel from being hurt by the cutter. Also, it prevents a used reloading unit from being refired.
- Both sides of the cutter can fire, which makes the operation more flexible.
- With the quick release button, you can easily start the instrument.

Surgical Stapler
Disposable PPH Stapler III

Features
- This type of three-row PPH stapler comes with exceptional hemostatic effect. Anastomotic wound is dry and has no bleeding after firing. No longer need to manually suture absence of special circumstances.
- The PPH stapler cartridge arrangement is more compact and its outermost surface has a special design.
- With 48 three-row titanium screws, the tissue can be closed with effect.
- A greater lumen of the staple cartridge can hold more diseased tissue.
- The anvil and guide shaft, both of which are made of stainless steel, make the closing and firing more stable. Under the help of the two symmetrical sutures, the tissue can enter into the equipment.
- The sharp circular knife is highly effective when used for cutting.
- The 0.75mm suture clearance compresses the mucosa that has the best hemostatic effect.
- Fool-firing position is adopted. The stapler can be fired once it has been adjusted to the position shown in the picture.
- After molding, B-type staple with slightly incurved feet make the anastomotic a higher tensile strength.

Surgical Stapler
Disposable Auto Linear

Various Type
- Basic Length (±10mm) : 395, 400, 405
- Effective length (±5mm) : 30, 45, 60, 90
- Staple Height (±0,3mm) : 3,8, 4,5
Monopolar Pencil
Electrosurgical Unit: ESU

**Features**
- The PROPENCIL Electrosurgical Unit Pencils are intended to be used in general electrosurgical applications for cutting and coagulating during surgical procedures. Smoke Pencil is used for cutting, coagulation and removing smoke generated during electrosurgery when used in conjunction with an effective smoke evacuation system. It is provided sterile and is intended for single use.
- Compact design
  Providing stable grip with less fatigue and balance of high-quality surgical instrument

Disposable ESU Plate
Electrosurgical Unit: ESU

**Features**
- Designed for optimal conductivity and adhesive. Due to the optimal hydro-gel of low impedance characteristics removal of the Hot spot area. Applied biocompatible hydrogel and adhesive. No side effects caused by backing and gel adhesive. Do not need working direction. Used less space than the existing area, the surface of skin of patient maintain high current density distribution. Provide a cost effective.

ECG Electrode
ENDO ECG Electrode Disposable

**Features**
- ENDO Disposable ECG Electrode, which are used for various ECG test. It uses an Ag/AgCl sensing element and Hydro-gel for adhesion. These are components for sensitive monitoring. Hydro-gel's main advantage is one of reducing movement artifacts by increasing the bond between the skin and the sensing element. The ECG electrode of ENDO ECG fields. An Ag/AgCl sensing element has the best sensitivities and the solid adhesive hydro-gel has very low impedance.

Ultrasound Gel
USG Gel 250 ml & 5 Liter

**Features**
- Based on the same "can't be copied" formula of the World Standard; Ultrasound Transmission Gel, without fragrance or color. For diagnostic and therapeutic medical ultrasound procedures, like obstetrics, gynecology, digestion urinary and nervous systems, etc.
- No fragrance
- No color / transparent
- Acoustically correct for the broad range of frequencies used
- No formaldehyde
- Hypoallergenic, bacteriostatic, non-irritating
## Vacuum Tube

### Specification

<table>
<thead>
<tr>
<th>Nama Item</th>
<th>Spesifikasi</th>
<th>Volume</th>
<th>Additive</th>
<th>Qty / Box</th>
<th>Qty / Karton</th>
</tr>
</thead>
<tbody>
<tr>
<td>K2.EDTA 3 mL - Glass</td>
<td>Ø 13x75 mm</td>
<td>3 ml</td>
<td>EDTA K2</td>
<td>100</td>
<td>1800</td>
</tr>
<tr>
<td>K2.EDTA 2 mL - Glass</td>
<td>Ø 13x75 mm</td>
<td>2 ml</td>
<td>EDTA K2</td>
<td>100</td>
<td>1800</td>
</tr>
<tr>
<td>K3EDTA 3 mL - Glass</td>
<td>Ø 13x75 mm</td>
<td>3 ml</td>
<td>EDTA K3</td>
<td>100</td>
<td>1800</td>
</tr>
<tr>
<td>K3EDTA 3 mL - Glass, for Soft Needle</td>
<td>Ø 13x75 mm</td>
<td>3 ml</td>
<td>EDTA K3</td>
<td>100</td>
<td>1800</td>
</tr>
<tr>
<td>K3EDTA 3 mL - Plastic</td>
<td>Ø 13x75 mm</td>
<td>3 ml</td>
<td>EDTA K3</td>
<td>100</td>
<td>1800</td>
</tr>
<tr>
<td>K3EDTA 2 mL - Glass</td>
<td>Ø 13x75 mm</td>
<td>2 ml</td>
<td>EDTA K3</td>
<td>100</td>
<td>1800</td>
</tr>
<tr>
<td>K3EDTA 0.5 mL - Glass</td>
<td>Ø 13x75 mm</td>
<td>0.5 ml</td>
<td>EDTA K3</td>
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<td>3000</td>
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MEDICAL RECORDING CHART PAPER

ECG / EKG Paper
USG Paper
Audiometer Paper
Auto Refractometer Paper
CTG / NST Paper
Defibrillator Paper
Hematology Analyzer Paper
Patient Monitor Paper
Spirometer Paper
Treadmill Paper
Urine Analyzer Paper
Tersedia lebih dari 90 tipe paper yang kompatibel dengan merk mesin ECG / CTG di pasaran:

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<tr>
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<tr>
<td>Burdick</td>
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<td>Edan Instrument</td>
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**Type**

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**Manufacture**

PT. Meditronik Hospilab Indonesia
Jl. Raya Menganti No. 14
Surabaya, Indonesia

**Distributor**

PT. ENDO Indonesia
Jl. Raya Menganti No.14
Surabaya, Indonesia

**Ref. No.**

BU7868

**LOT No.**

18B02-BU7868

**PERHATIAN**

Simpan di tempat sejuk dan kering, hindari sinar matahari langsung, serta temperatur dibawah 360C.

**KEMENKES RI AKD No. 10502810078**
## ECG Paper

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## ECG Paper

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## EEG Paper

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CTG / NST Paper

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<td>CTG Bionet FC700</td>
<td>215mm x 25M</td>
<td>-</td>
</tr>
<tr>
<td>84</td>
<td>CTG Bionics BFM-900</td>
<td>112mm x 25m</td>
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<tr>
<td>85</td>
<td>CTG Biosys BFM-800</td>
<td>112mm x 120mm x 150SH</td>
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<tr>
<td>86</td>
<td>CTG Bistos BT-350</td>
<td>150mm x 90mm x 150SH</td>
<td>FS151-90-80R-01</td>
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<tr>
<td>87</td>
<td>CTG Bistos BT-300</td>
<td>130mm x 120mm x 250SH</td>
<td>FS130-120-30R-01</td>
</tr>
<tr>
<td>88</td>
<td>CTG Bistos BT-330</td>
<td>130mm x 120mm x 250SH</td>
<td>FS130-120-30R-A</td>
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<tr>
<td>89</td>
<td>CTG Corometrics BAO4305 / DAO4305</td>
<td>152mm x 90mm x 150SH</td>
<td>118/120/145/170/2 120is/150</td>
</tr>
<tr>
<td>90</td>
<td>CTG Corometrics AAO4305 / BAO4306</td>
<td>152mm x 90mm x 150SH</td>
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<td>91</td>
<td>CTG Edan Ins. Cadence</td>
<td>112mm x 90mm x 150SH</td>
<td>-</td>
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<tr>
<td>92</td>
<td>CTG Huntleigh ACC 15</td>
<td>152mm x 150mm x 200SH</td>
<td>BD3000, BD4000</td>
</tr>
<tr>
<td>93</td>
<td>CTG Nihon Kohden OFM8001K, 8300K</td>
<td>150mm x 90mm x 300SH</td>
<td>FQS150-2.7-90</td>
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<tr>
<td>94</td>
<td>CTG Philips M1351A, M1353A, M2702A, M2703A</td>
<td>150mm x 100mm x 150SH</td>
<td>M1912A, M1913A</td>
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<tr>
<td>95</td>
<td>CTG Sonicaid 8400-8003</td>
<td>142mm x 150mm x 300SH</td>
<td>MERIDIAN-800</td>
</tr>
<tr>
<td>96</td>
<td>CTG Toitu 0030-026</td>
<td>152mm x 150mm x 150SH</td>
<td>MT-516</td>
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<tr>
<td>97</td>
<td>CTG Zondan DS120B</td>
<td>112mm x 100mm x 160SH</td>
<td>-</td>
</tr>
</tbody>
</table>

Benefit

- Prioritizing Customer Satisfaction
- Made from Medical Grade quality paper.
- Precise and accurate grid and sensor location.
- Clear and apparent printouts.
- Neat and safe packaging.
- Well-maintained Quality Control system.
- Availability of stock for more than 90 types of machine.
Durico Thermal Papers for printing Ultrasonic Video Images have become very popular worldwide, replacing Sony and Mitsubishi papers with Lower Cost and Consistent Quality. Durico is successfully exporting high image contrast thermal papers to world markets for medical recording applications.

**USG Video Printer Paper**

**Paper Grade, Size and Compatibility**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Size</th>
<th>Durico</th>
<th>Sony</th>
<th>Mitsubishi</th>
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</thead>
<tbody>
<tr>
<td>High Glossy</td>
<td>110 mm x 18m</td>
<td>ULSTAR-1100HG</td>
<td>UPP-110 HG</td>
<td>K91HG/KP91HG</td>
</tr>
</tbody>
</table>

**Long Lasting Image Durability for High Storage Stability**

- High Humidity and Heat Resistance for Long Storage
- Strong Resistance to Water, Finger Prints, and Ultrasound Gel Drops

<table>
<thead>
<tr>
<th>Humidity resistance</th>
<th>Heat resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°C, 90%, 7Days</td>
<td>50°C, Dry, 7Days</td>
</tr>
<tr>
<td>ULSTAR</td>
<td>Other Compatible</td>
</tr>
<tr>
<td>Fading</td>
<td>Fading</td>
</tr>
</tbody>
</table>

- Highly Protective UV-Cured Top Layer

**Layer Structure**

- UV-Cured Glossy Layer
- Protective Layer
- Thermal Coat Layer
- Film Substrate (P.P.)
- Back-Coat Layer