



corpuls[®]

FOCUS - ON - PATIENTS

corpuls system



STRONG

From the new **corpuls3T** to the 22-lead ECG: world firsts with a solid foundation

CONNECTED

From synchronisation to virtual: the **corpuls system** links devices, people and places

COMPLETE

From simulation technology to big data management: the **corpuls system** closes the loop



3 in 1 Defibrillator Multiparameter

corpuls³ touch screen

Kemenkes RI AKL 30505121868

corpuls³ THE NEXT GENERATION

-  **Monitoring Unit**
-  **Patient Box & Accessories Bag**
-  **Defibrillator | Pacer**

The modules can be separated at any time, as and when required. They communicate wirelessly, eliminating annoying cables. The corpuls3 TOUCH adapts optimally to the users needs. Legendary and still unique, the corpuls3 is used successfully by hundreds of organizations around the world.



THE MONITORING UNIT

The Monitoring Unit is the control centre of the corpuls3 TOUCH. At just 2.9 kg, including the battery and printer paper, it is compact and can be comfortably held in one hand.

FULL CONTROL

Up to 6 curves and 13 vital parameters can be displayed simultaneously on the brilliant 8.4" display. Fully customisable, freely namable and - in case of the NIBP display - with quality indicator. In addition, up to 6 curves can be printed in real time.

OPERATING CONCEPT "TOUCH 'N DIAL"

For the C3T, we have implemented a new operating concept - with the aim of combining the best of the two operating worlds. The result: TOUCH 'N DIAL

- On the one side, classic operation using softkeys or function keys and JogDial
- On the other side, intuitive operation using Touch.

EXTREMELY ROBUST TOUCH TECHNOLOGY

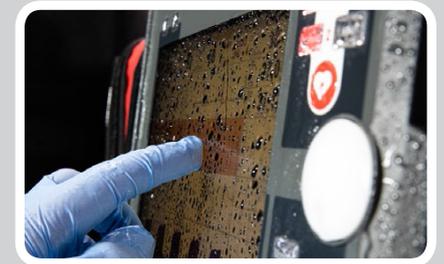
Not your standard Touch. This is very important when the circumstances of the mission are more demanding. We rely on the latest generation of Touch control.

THE PATIENT BOX & ACCESSORIES BAG

The Patient Box is the „heart“ of the system. It collects, records, and stores all vital parameters and measurements. Values recorded via pre-connected sensors are transmitted in real time wirelessly to the monitoring unit, where they are displayed and/or processed.

CONSTANT COMPANION

Due to its low weight (between 1.1 and 1.4 kg, depending on features) the Patient Box is so compact that it can stay with the patient during transport. This also means that all the sensors and cables can remain on the patient. This not only keeps them out of harm's way, but also enables seamless monitoring – for example, when transporting a patient through a narrow stairwell.



THE DEFIBRILLATOR / PACER

The modular design of the corpuls3 TOUCH allows complete mechanical separation of the Defibrillator/Pacer. However, the modules remain wirelessly connected.

COMPACT UNIT

The corpuls3 TOUCH Defibrillator/Pacer offers exactly what's required in critical missions. Weight and size are reduced to the necessary minimum without any compromise in functionality. The pre-connected therapy electrodes and the optional accessory bag also optimise handling – whether in emergency services or in hospital.

primeCPR-FEEDBACKSENSOR

To increase the quality of resuscitation, the corpuls3 is equipped with CPR feedback. For this purpose, the primeCPR feedback sensor is placed on the lower half of the sternum. It measures the pressure frequency and depth of the chest compressions during resuscitation. Depending on the configuration, the quality of the chest compressions is shown on the display (bar graphs) and improved by voice guidance. The bar graph shows the pressure depth and quality of the chest compressions. This view serves as support and feedback for the rescuer.



SPECIFICATION

GENERAL SPECIFICATION

- Transflective 8.4" display, with Touch
- Wide printer (10,6 cm)
- Weight: 6.5 kg (SLIM, basic configuration)
- Dimensions of complete device (WxHxD): 30.5 cm x 29.6 cm x 19.5 cm (corpuls3 SLIM CLASSIC & TOUCH)
- Extremely high dust and splash protection (IP55)
- Battery life 7-10 hours, according to settings and demand
- Operating environment : -20 °C to +55 °C (basic functions: ECG monitoring and defibrillation)
- DIN EN 1789
- Conforms with selected sections of the international Standard for Airborne Equipment RTCA DO 160 G
- Conforms with selected sections of the US Military Standard MIL STD 810 G

DEFIBRILLATOR

- Biphasic, rectangular waveform, impedance compensated
- 2 to 200 Joule, configurable energy protocol
- AED and manual defibrillator
- AED protocol according to the current Guidelines, updateable anytime
- Pacer with FIX-, DEMAND- and OVERDRIVE mode
- Pre-connected corPatch therapy electrodes in separate bag
- Up to 200 shocks with fully charged battery
- Use with hard paddles as well as internal shock spoons possible
- Weight: 2.5 kg (corpuls3 SLIM)
- Measurements (WxHxD): 28 cm x 22 cm x 12 cm

MONITOR

- Up to 6 curves and 13 vital parameters
- Diagnostic 12-lead ECG preview
- Quick access to important menu items via 7 softkeys and function buttons
- 1-2-3 operation in defibrillation modes
- Wide printer (106mm) with simultaneous real-time printout of up to 6 curves
- 4G modem, WLAN or LAN port for data transmission / telemedicine
- All-around impact protection
- Weighs only 2.9 kg
- Dimensions (WxHxD): 30.5 cm x 29.5 cm x 12 cm

PATIENT BOX

- 12-lead diagnostic ECG, heart rate
- ECG-Analysis and Information Software
- Masimo Rainbow SET® Technologie for SpO2, PP, PI, SpCO, SpMet, SpHb, RRP® Non-invasive blood pressure measurement (SunTech®)
- Capnography with mainstream technology capONE®
- primeCPR-Feedback* (disposable or reusable)
- 2 channels for temperature measurement
- 4 channels for invasive pressure measurement
- Display for vital parameters, remaining time and alarms
- Acoustic alarm indicator
- Microphone for audio recording
- Bluetooth and CompactFlash®
- Weight: 1.1–1.4 kg
- Dimensions (WxHxD): 26.5 cm x 13.5 cm x 5.5 cm

1 UNIT INCLUDED

- | | |
|-----------------------------------|----------|
| • Monitoring Corpuls 3 Touch | : 1 unit |
| • Patient box | : 1 unit |
| • Defib corpuls | : 1 unit |
| • Hard paddle | : 1 set |
| • Gel electrode | : 1 tube |
| • ECG electrode | : 1 pack |
| • ECG monitoring | : 1 set |
| • ECG diagnostic | : 1 set |
| • NIBP hose & cuff adult | : 1 set |
| • Re-usable SPO2 Sensor for adult | : 1 set |
| • Kertas printer | : 1 roll |
| • Manual operation book | : 1 pcs |
| • Corpatch CPR feedback sensor | : 1 pcs |
| • Corpatch easy defibrillator pad | : 1 pack |
| • Battery | : 3 pcs |
| • Memory Card | : 1 pcs |

BRACKETS



Patient Box



Monitor



Compact Device



3 in 1 Defibrillator Multiparameter corpuls³

Kemenkes RI AKL 30505313601



corpuls³ LIFE-SAVING MULTI-TALENT



Monitoring Unit



Patient Box & Accessories Bag



Defibrillator | Pacer

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INTUITIVE OPERATION

The corpuls3 has a unique operating concept, which is simple and safe, especially in stressful situations operation allows :

- Softkeys and function keys
- JogDial

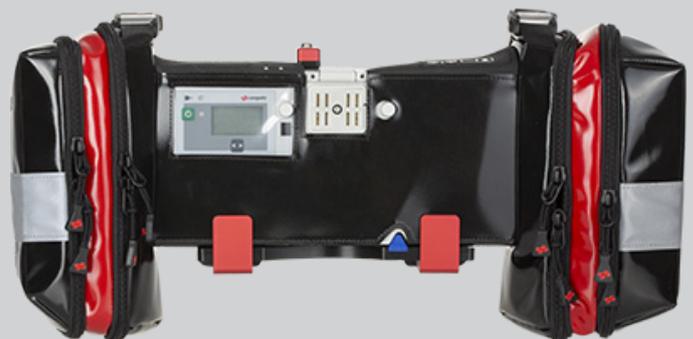


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THE DEFIBRILLATOR / PACER

The modular design of the corpuls3 allows complete mechanical separation of the Defibrillator/Pacer. However, the modules remain wirelessly connected. This significantly reduces the weight of the corpuls3 system, which improves the mobility and flexibility of the system during urgent patient transfers, such as from the ambulance to the hospital. In this configuration, the patient can be remotely shocked from a safe distance via the monitoring unit (in connection with the corPatch therapy electrodes).



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1 UNIT INCLUDED

- Monitoring Corpuls 3 : 1 unit
- Patient box : 1 unit
- Defib corpuls : 1 unit
- Hard paddle : 1 set
- Gel electrode : 1 tube
- ECG electrode : 1 pack
- Re-usable SPO2 Sensor for adult : 1 set
- Kertas printer : 1 roll
- Manual operation book : 1 pcs
- Corpatch easy defibrillator pad : 1 pack
- Battery : 3 pcs
- Memory Card : 1 pcs

BRACKETS



Patient Box



Monitor



Compact Device



Defibrillator AED

corpuls¹

Kemenkes RI AKL 30505615369

corpuls¹ SMALL, HANDY AND VERSATILE

As small, light and compact as it is, the corpuls1 was specially developed for the requirements of hospitals, fire departments, first responders, ambulance services, doctors offices and disaster management. A compact but fully-fledged Defibrillator/ Patient Monitor that is always right for the job when space and maneuverability are crucial. Its biggest advantage: it's light weight. The corpuls1 weighs just 2.3 kg, but is a fully-fledged Defibrillator and Patient Monitor. The user has an optimal view of up to 3 curves and 4 vital parameters on the transfective 5.7" display. The intuitive user interface guarantees easy operation. Depending on the users preference, the most important parameters are always in view: ECG, cpr feedback, heart rate, pleth, SpO and optionally SpHb, SpCO, or SpMet.



ULTRA COMPACT PATIENT MONITOR AND DEFIBRILLATOR

The corpuls1 is not only lightweight and easy to use. It delivers medical performance at the highest level, making it ideal for clinical and preclinical applications.

MONITORING

The intuitive user interface guarantees easy operation. On the 5.7" screen you can always keep an eye on the ECG, heart rate and pulse oximetry. Up to 3 curves and 4 parameters are displayed.

REANIMATION

Depending on the mission, the corpuls1 can be used as an automated external defibrillator (AED) or as a manual defibrillator. Thanks to the same high-quality HV unit the corpuls1 can also deliver life-saving shocks in an emergency situation.



OPTIMAL SUPPORT FOR EMERGENCY SERVICES AND HOSPITAL PERSONNEL

With its compact and lightweight design, the corpuls1 is the universal partner in hospital. It monitors patients during hospital transport and serves as a defibrillator during resuscitation. The range of use in hospital is further broadened by the pacer therapy option (both FIX and DEMAND).

PACER

The external pacer of the corpuls1 enables electrical stimulation of the heart muscle and can supplement or positively influence the function of the heart muscle.

In FIX operating mode, the pacer stimulates the heart muscle with the set stimulation frequency regardless of the patients own heart rate. In DEMAND mode the corpuls1 analyses the ECG via the 4-pole ECG monitoring cable. The pacer only stimulates if the patients natural frequency is lower than the set stimulation frequency. Pacing during the vulnerable phase is prevented by the QRS complex detection.



SHOCK SPOONS AND SHOCK PADDLES

The corpuls1 offers different defibrillation options. corPatch therapy electrodes, shock paddles and shock spoons can be used. For this reason, the corpuls1 is also ideal for hospital use – whether in the cath lab or as a defibrillator on a resus trolley.

THE HANDY UNIVERSALIST

Competent and comprehensive on-scene care is crucial in an emergency. Therefore, it is important to ensure that the transfer of the patient from the first responders onto further care by the emergency services can be carried out as quickly and smoothly as possible. As with all corpuls defibrillators, electrodes, sensors and cables from the corpuls1 can be used with the corpuls3.

PULSE OXIMETRY

The integrated pulse oximeter (optional) enables the monitoring of oxygen saturation, pulse rate and pleth.

SpCO SCREENING

The corpuls1 is optionally equipped with SpCO measurement. This can be used to easily detect possible carbon monoxide poisoning at an early stage – whether in patients or emergency personnel.

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SPECIFICATION

GENERAL SPECIFICATION

- Dust and jet-water proof according to IP55
- Vibration and shockproof according to EN 1789
- Alarm light, speakers
- Audio recording
- Power supply 12 V DC, 100–250 V AC with mains adapter
- Weight 2.3 kg
- Size (LxHxD) 26 cm x 17 cm x 7 cm (without bag)
- Run time 6 h 30 min

DATA MANAGEMENT

- SD® memory card (capacity up to 408 hrs/2 GB)

PATIENT MONITORING

- 5.7" colour display, back-lit
- 3 curves and up to 4 vital parameters
- 6 lead ECG
- Masimo Rainbow SET® for SpO2, PR, PI, SpCO, SpMet, SpHb

DEFIBRILLATOR/PACER

- Min. 200 shocks with 200 J
- Charge time with full battery: ca. 5.5 s
- Automated External Defibrillator (AED)
- Manual Defibrillator
- Synchronised Cardioversion
- Pacer with 2 modes: FIX & DEMAND (optional)



1 UNIT INCLUDED

- Main unit Corpuls 1
- Battery Corpuls
- Corpatch easy preconnected
- ECG monitoring cable
- Manual book
- Shock paddle Corpuls
- Re-usable SPO2 sensor for adult
- Memory Card
- 1 set tas back pack BLS (optional)

ACCESSORIES OPTIONAL



Accessories Bag



Back Pack BLS



ARM CORPULS CPR Electric Cardiac Resuscitator

corpuls cpr

Kemenkes RI AKL 30505716300



THE STRONG ARM THAT SAVES LIVES

The corpuls cpr is possibly the most modern and innovative player in the field of mechanical chest compression devices.

It combines revolutionary and extremely intuitive user guidance, designed to optimally support users in Emergency Medical Services as well as medical professionals in hospitals when working on patients. The system consists of the corpuls cpr arm with an inserted compression stamp and – depending on requirements – one of three different resuscitation boards available: Recboard, Quadboard and Scoopboard. These were specially developed for the different requirements in EMS, air rescue and clinical settings and they are made of radiolucent material.

FEATURE

- The corpuls cpr offers professional users anytime easy access to the patient's thorax. Diagnosis and treatment can thus be performed while resuscitation is in progress.
- With only a few steps, the corpuls cpr is ready for operation. Minimal hands-off-time leads to an optimal outcome.
- The intuitive operability of the corpuls cpr allows to adapt the therapy to the individual patient.
- Therapy parameters can be adjusted during therapy.
- The operating temperature of the corpuls cpr ranges from -20 °C to +45 °C.
- The system is certified according to IP54.



DEPLOYMENT IN EMS

HIGH-PERFORMANCE AND FLEXIBILITY

In emergency situations, every minute counts. An efficient therapy is therefore decisive. By supplying fully automated chest compressions, the corpuls cpr ensures less strain on rescue service personnel and allows precise and continuous therapy, even in the most difficult conditions. After the stamp is positioned, there is more time for important procedures such as airway management or administering drugs.

MINIMAL HANDS-OFF TIME

- The quick and easy setup helps to save precious seconds.
- The simple and still safe adjustment of the corpuls cpr allows to switch from manual CPR to mechanical thorax compressions with minimal interruption.
- The corpuls cpr is continually recording the mission data. These can be evaluated with the software corpuls.manager REVIEW in debriefing.



LED START/STOP Button	Display Symbol	Description
		<ul style="list-style-type: none"> • corpuls cpr arm too low • Release of the thorax not ensured • Therapy not possible
		<ul style="list-style-type: none"> • corpuls cpr arm too high • Stamp has no contact with the thorax • Therapy possible, but not recommended
		<ul style="list-style-type: none"> • corpuls cpr arm adjusted optimally • Full release and configured compression depth can be achieved

DEPLOYMENT IN AIR RESCUE

THERAPY UNDER EXTREME CONDITIONS

Almost every primary mission in air rescue makes extremely high demands on the team and equipment. The patient often is in a critical condition, the space conditions are confined and time is of the essence. Transporting the patient and continuing a high-quality manual CPR seems almost impossible in these conditions. Here, the corpuls cpr enables fully automated thorax compressions and life-saving therapy also during transport.

FEATURES

- Transport is possible while resuscitation is being performed.
- The design of the corpuls cpr arm allows even in confined spaces easy access to the entire upper body for diagnosis and treatment.
- By means of the recboard, the corpuls cpr is fixed safely on the stretcher.
- The long battery running time and connection to the on-board power supply guarantee a reliable and uninterrupted therapy.



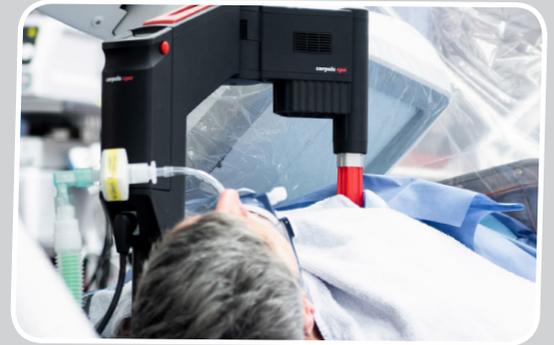
DEPLOYMENT IN HOSPITAL

COMPACT AND RADIOLUCENT

The compact and very light-weight quadboard of the corpuls cpr is made from radiolucent carbon. Coronary angiographies can be performed even during resuscitation without interfering artefacts. The hands-off time is thus limited to a minimum.

INTERFERENCE-FREE DIAGNOSTICS DURING ONGOING TREATMENT

The flexible positioning of the corpuls cpr on the patient allows optimal access for interventions in the upper body and head area. Therapy modes and parameters can be adjusted individually even during therapy – anytime, whatever adjustment is necessary.



INDIVIDUALISED THERAPY

With only one lever, the corpuls cpr arm is adjusted and fixed above the patient. The compression depth, freely adjustable between 2 and 6 cm and the compression rate, adjustable between 80 and 120 compressions per minute, allow an individualised therapy, even on children. The corpuls cpr with its intuitive operating concept is approved for the treatment of children from the age of 8 years and older.



SPECIFICATION

COMPRESSION PARAMETERS

- Compression rate: 80 – 120 compressions per minute (adjustable in increments of 1 compression per minute)
- Compression depth: 2 – 6 cm (adjustable in increments of 0.1 cm)
- Therapy mode: 30:2 / 15:2 / continuous (secure airway)

DIMENSION AND WEIGHT:

- Thorax height: 14 – 34 cm
- No restrictions on the thorax width
- No restrictions on the weight of the patient
- 8 years and older

GENERAL SPECIFICATIONS:

- Color display 2.4" with LED backlight
- Operating temperature: -20 °C to +45 °C
- Dust and splash proof (IP54)
- Operating noise: 70 dB
- Data interface: SD card
- Integrated alarm management
- RTCA DO 160 G (EMC tested)
- Simultaneous display of mode, compression depth and rate, time/therapy duration and remaining running time of the battery in minutes and percentage

1 UNIT INCLUDED

- 1 unit CPR Arm Unit
- 1 pcs Recboard atau Quadboard
- 1 pcs Stamp South
- 1 pcs Stamp Long
- 1 pcs Bag untuk peralatan CPR
- 1 pcs Battery
- 1 pcs Memory Card

ACCESSORIES OPTIONAL



The Quadboard was built for the pre-hospital use. It can be fixed securely to most stretchers with its attachment straps.



Re-usable stamps

The stamps of the corpuls cpr can be disinfected and used for more than one patient. They are available in two sizes.



Bag/Backpack

Storage for all corpuls cpr accessories including the Quadboard



The Recboard was built for the pre-hospital use. It can be fixed securely to most stretchers with its attachment straps.



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Makassar

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