



focus-on-patients

corpuls cpr – the tireless arm that saves lives

corpuls cpr defines new standards in machine-assisted cardiopulmonary resuscitation (CPR).

The swivel-mounted arm can be quickly and flexibly adapted to the patient and allows an optimal and ergonomic adjustment of the pressure point. Being mounted on just one side, it offers free access to the patient's thorax even during the intervention.

Using the **corpuls cpr** in connection with a specially developed spineboard for transporting the patient guarantees uninterrupted treatment even in narrow staircases and during the transport in ambulance or aircraft.

The x-ray permeable board also allows the use inside the cath lab.

Highlights

- Minimal hands-off time
- Optimal ergonomics
- Adjustable therapy parameters
- Up to 6 cm compression depth
- Operating time up to 1.5 hours (battery)
- Free access to thorax during intervention
- Radiolucent board

User-friendly Operation

With the clearly arranged color display, the central start/stop button and the softkeys, the device can be operated intuitively:

- Resuscitation modes AHA/ERC compliant
- Adjustment of mode, compression depth and compression rate also possible during therapy

Deployment in EMS

The **corpuls cpr** ensures fully automatic, fatigueless chest compression:

- The quick and simple setup helps to save precious minutes
- The low weight of the system allows to act quickly and effectively
- The simple and secure positioning of the **corpuls cpr** makes it possible to switch from manually performed to mechanical chest compression with short interruptions

Deployment in Hospital

With the **corpuls cpr**, diagnosis and therapy are possible even during resuscitation:

- The intuitive operation of the **corpuls cpr** allows individually tailored patient therapy
- The different boards are all made of radiolucent material for an uninterrupted therapy also in the cardiac catheterization laboratory
- The **corpuls cpr** offers easy access to the patient's thorax



Specifications

Compression parameters:

- Compression rate: 80 to 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)

Patient parameters:

- Chest Height: 15 to 33 cm
- Chest width: up to 48 cm
- No restriction on the weight of the patient*

* Not during transport with Splitboard

Operating parameters:

- Power source: electric
- Battery: Lithium Polymer (LiPo)
- Battery runtime: up to 90 min
- Displays the remaining run time in minutes
- LED indication of battery charge level in 20% increments
- Battery charging time (via magnetic connector): 1 h 0-80%, 2 h 80-100%
- Intuitive user interface: Therapy start/stop button with alarm and 4 softkeys
- Simultaneous display of operating mode, compression depth, compression rate, time/therapy time and remaining runtime of the battery shown in minutes and percentage
- At least 300 charging cycles

General Specifications:

- Color display 2.4" with LED backlighting
- Operating temperature: -20 °C to +45 °C
- Dust and splash proof (IP54)
- Shock resistant (DIN EN 1789)
- Power supply: 12-36V DC (on-board power), 110-240V AC (Mains 50-60 Hz)
- Operating noise: 60 dB
- Data interface: SD™ card
- Integrated alarm management
- RTCA DO 160 (in preparation)

Dimensions and weights:

- **corpuls cpr-arm** with stamp/battery: 43 x 43 x 9 cm/5.2 kg
- Splitboard Thorax (including two carbon plates): 48 x 83 x 5.5 cm/5.1 kg
- Splitboard Extension: 48 x 108 x 5.5 cm/3.6 kg
- Recboard: 64 x 52 x 4 cm/3.1 kg
- Quadboard: 46 x 46 x 3 cm/1.7 kg