



Hospital bed

NANO

ICU bed

NANO ICU

The product was made of materials that possess
antimicrobial/antibacterial properties.





Hospital bed

NANO

Versatile hospital beds NANO

As far as modern hospital beds are concerned, you can demand more. NANO satisfies expectations of both patients and physicians, providing more effective treatment and added comfort of use. The beds of this series help to carry out different procedures and therapies more quickly and precisely, at the same time decreasing the excessive utilisation of hospital resources. Their ergonomic yet simple structure and intuitive controls are an extra asset, since they offer numerous benefits. NANO is supplied with high density foam mattress with anti-microbial agent MC-28.32.

Electric ICU bed

NANO ICU

Thousands of needs, 2 finishing standards

NANO is a fully configurable hospital bed which, thanks to its wide range of accessories and versions, can easily be adjusted to your needs. So as to make the selection process more convenient, we offer two basic configurations: NANO and NANO ICU (intended to be used at intensive care units). Either can easily be upgraded and customised. NANO ICU is supplied with high density foam mattress with anti-microbial agent MC-28.32.



Standard:	NANO hospital bed	NANO ICU bed
The bed pallet segments are filled with X-ray translucent HPL	Standard	Standard
Control system	PL-63.41 – wire controller	PL-63.43 – wire controller & supervisor
CPR in back rest segment	Option	Standard
Brake system	Individual	Central
Single castors 150 mm	Standard	Standard
Rails for additional accessories fixed on the bed frame at shank section	Standard	Standard
8 hooks for fluids	Standard	Standard
Battery backup	Standard	Standard
4 bumpers in corners	Standard	Standard
Chassis with ABS covers	Standard	Standard

Hospital bed and ICU bed

NANO

Key features

Designing the beds NANO, we went for solutions bound to yield benefits for both medical staff and patients. We divided them into four areas: safety, infection prevention, patient's comfort and ease of use.

Removable foot board

Control panel
(supervisor)

Bumper

Central castors break



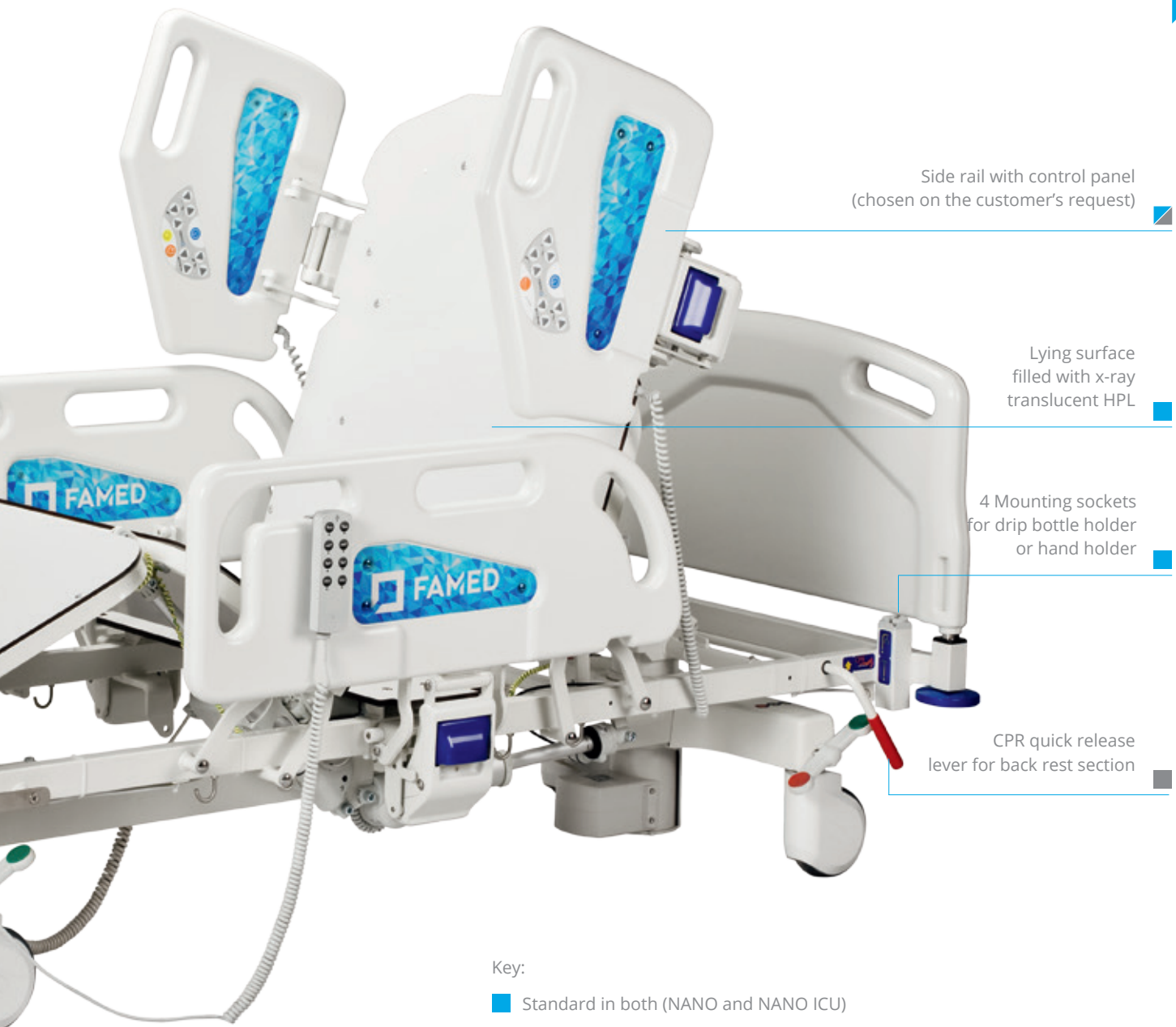
Safety

The minimum distance of the lying surface from the floor is 41 cm, optionally 39 cm. It prevents the patient from falling off the bed and secures him while getting out of it.



Infection prevention

The parts of the bed made of plastic and ABS (headboard/footboard, side rails, etc.) contain silver nanoparticles, which provide bacteriostatic protection of the patient's environment. The application of this innovative technology on the most often touched surfaces of the bed prevents the growth of bacteria, fungi and viruses, thus minimising the risk of infection.



Key:

■ Standard in both (NANO and NANO ICU)

■ Standard in NANO ICU, available as an option in NANO (extra charge)



Internal control panel

The location of the control panels also on the internal sides of the side rails allows the patient to easily, effortlessly and safely alter the bed position and adjust its height.



X-ray translucency

The NANO bed is X-Ray permeable. Thanks to the special laminate with which the mattress is covered and columnar structure, the product is fully compatible with the C-arm, which allows the physician to X-ray the patient, and even diagnose him, without having to leave the bed (option).

Safety

The bed NANO has been designed so as to minimise the risk pertaining to patient's safety and to aid his recovery. The product structure contains a series of solutions which prevent unfortunate accidents.



The minimum and permanent spacing between the elements

The spacing between the neighbouring structural elements (e.g. the side rails) minimises the risk of accidental trapping the patient's body parts between the elements. Furthermore, the shapes of the rails are parallel to each other. The movement of one structural element does not cause the spacing to be altered, which prevents fractures and crushes. Side rails are in standard nondomestic.



Removable headboard and footboard

In case of a threat to life and necessity of immediate reaction, the medical staff can instantly gain direct access to the patient, which facilitates resuscitation and certain procedures. The headboard and footboard can be removed at any given moment with one simple movement, without using excessive physical strength. Both headboard and footboard are in standard nondomestic.



Exceptionally low minimum lying surface height

Since it is possible to lower the lying surface down to 41 cm, optionally – to 39 cm, above the floor level, the patient can safely get in and out of bed, without risking a painful fall. Furthermore, the lying surface height adjustment proceeds very gently and smoothly, without sudden jerks or vibrations.



The central brake system

NANO can be entirely immobilised within a second. Stepping on one pedal simultaneously locks all the bed casters, thus guaranteeing the position stability.



HAI prevention

Prevention of healthcare-associated infections. Infections are a serious problem, even in state-of-the-art hospitals. Their occurrence prolongs the patient's stay in hospital, it hinders his recovery and significantly decreases his chances of surviving the ICU. NANO has been designed so as to minimise this risk.



Silver nanoparticles

The parts of the bed made of plastic and ABS (headboard/footboard, side rails, etc.) contain silver nanoparticles, which provide bacteriostatic protection of the patient's environment. This innovative technology prevents the growth of bacteria. Hence, the risk pertaining to infections is much lower.

Ease of cleaning and disinfection

NANO is characterised by its simple structure, based on columns, whereby the access to all the bed parts is easier. Cleaning and disinfection are very little time-consuming, whereas the efficiency of these processes is higher than in the instance of standard hospital beds. Under some circumstances (high temperature and air humidity), silver nanoparticles display their antibacterial properties, successfully deactivating many dangerous viruses.

Patient's Comfort

The patient's good mood and comfort during his stay in hospital have a tremendous influence on the speed of his recovery. NANO allows the patient to adjust the bed to his individual needs. The option of single-handed adjustment of the bed position gives the patient more freedom and eliminates the stress related to the sense of dependence.

Individual adjustment of the position

Thanks to the location of the control panels also on the internal sides of the side rails, the patient can single-handedly set the desired height of the lying surface and inclination of the respective bed sections in relation to one another. Hence, controlling the bed does not require the application of excessive force and is very intuitive (understandable icons).

Ease of getting out of bed

The small distance of the lying surface from the floor and control panels on both sides of the side rails are an invaluable support of patients while their getting out of bed during all the three phases. At the first phase of his movement, the patient can use the internal panel, so as to level the lying surface and set it very low from the floor. At the second phase, the patient can lower the side rails below the lying surface level and put both feet on the ground. At the last phase, by use of the outer control panel, he can lift the lying surface, which will automatically prompt him to stand.



Ease of use

Electronic control panels allow nurses to change bed's height and position quickly and easily. The patient can control some functions on his own, too, thanks to the panels located at the internal side of side rails.

Electric position control



Wired remote control PL-63.41



Side rails with control panel PB-19.5



Control panel PL-63.43 (standard in NANO ICU, option in NANO). All electric functions can be operated by the hand controller. Central control panel with possibility of steering and locking of electric functions, additional buttons: cardiological chair, Fowler's position, electric CPR, examination position, anti-shock position are prestored.

Safe permissible load

NANO can be effectively and safely used even when the load reaches level of 250 kg.

 **250 kg**

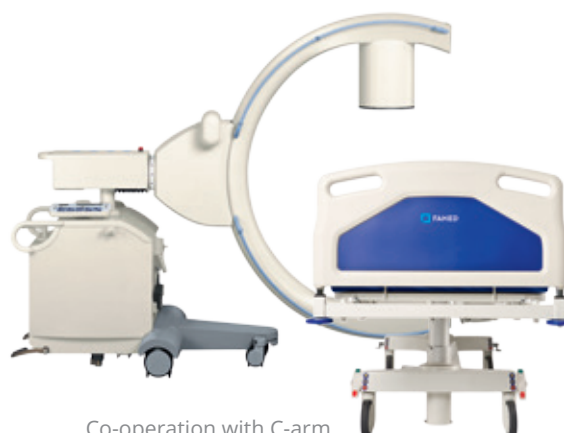


X-ray permeability

The range of permeability for C-arm is shown on the picture below



PL-18.3 tunnel for X-ray cassette under the back rest segment
PL-18.4 tunnel for X-ray cassette under the bed segments



Co-operation with C-arm

Available positions of the bed



Low position – all segments levelled, bed frame in horizontal position and minimum height



Anti-shock position – bed frame with all segments levelled in Trendelenburg position

CPR function
"zero" position



Reverse Trendelenburg position



Cardiological chair



Fowler's position – bed frame in horizontal position, back rest raised up, thigh rest raised up

Proposed additional equipment

On the customer's request, every version of NANO can be equipped with additional accessories, which will make the bed even more useful.

Scale System

NANO works out well with the scale system. It operates extremely fast and allows high measurement precision. Resetting to 0, taring or exporting results is performed by pushing single buttons, while thanks to the system of sensors in the lying surface no measurement operation requires additional actions.



Gauge

PL-24.3 Gauge for Trendelenburg movement.



Bed frame extension

Possibility of frame extension (PL-62.02) by 200 mm for taller patients (standard). The extended space is filled with an additional mattress (MC-45.0).



PL-18.3 tunnel for X-ray cassette under the back rest segment



PL-18.4 tunnel for X-ray cassette under the bed segments



CPR quick release lever for back rest section



CPR quick release lever for thigh rest section
(option both in NANO and NANO ICU)



Drip bottle holder WK-17.0



Drip bottle holder WK-12.0



Hand holder UR-07.0



Urinal holder
WL-19.6



Urine bag holders
8 pcs. - standard



Foot controller WL-99.5 and WL-99.52 for bed height adjustment (the foot controller is placed on one side of the bed).



Shelf for bed clothes



Shelf for bed clothes

Side rails option:



Varnished side rails, foldable (PB-15.0). Also available: chromium plated side rails, foldable (PB-15.1).



Additional set of side rails made of ABS at the leg section PL-23.1



Divided side rails made of plastic with controls (PB-19.5). Also available version without controls (PB-19.4).



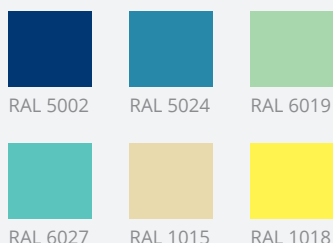
Divided side rails made of ABS with controls (PB-22.3). Also available version without controls (PB-22.2).

Technical data

Bed's length	2280 ± 20 mm
Bed's width (with side rails)	965 mm ± 10 mm
Height adjustment (version I)	390 – 770 mm
Mattress size	2060 x 840 mm
Back rest segment inclination	70 ± 3°
Thigh rest segment inclination	40° ± 3°
Trendelenburg position Reverse	15° ± 3°
Trendelenburg position Castors	15° ± 3°
diameter	150 mm
Permissible load	250 kg
Power supply	230/127/110/100 V – 50/60 Hz
Power consumption	350 VA/230 V
Class of protection	II
Type part of the application	B
Degree of protection	IP-54 (optional IP-66)
Period of use	10 years
Battery	EP6/1.3
Under bed clearance	19 cm

Create your own NANO!

Aside from the selection of its version and additional equipment, you can also design your own unique template of overprints on the headboard/footboard and side rails. Browse our gallery or create your own design and allow us to implement it!*



PL-10.1 – plastic head and foot boards in RAL 9002 colour with inserts (optionally in ABS)

* Ask the seller about conditions and details as regards individualised overprints



The product meets the requirements of the European Directive MDD 93/42/EEC concerning safety of medical devices

