

True caregiving,  
at last.



Cleanius  
The bedpan

We all hope never to experience this terrible plight.

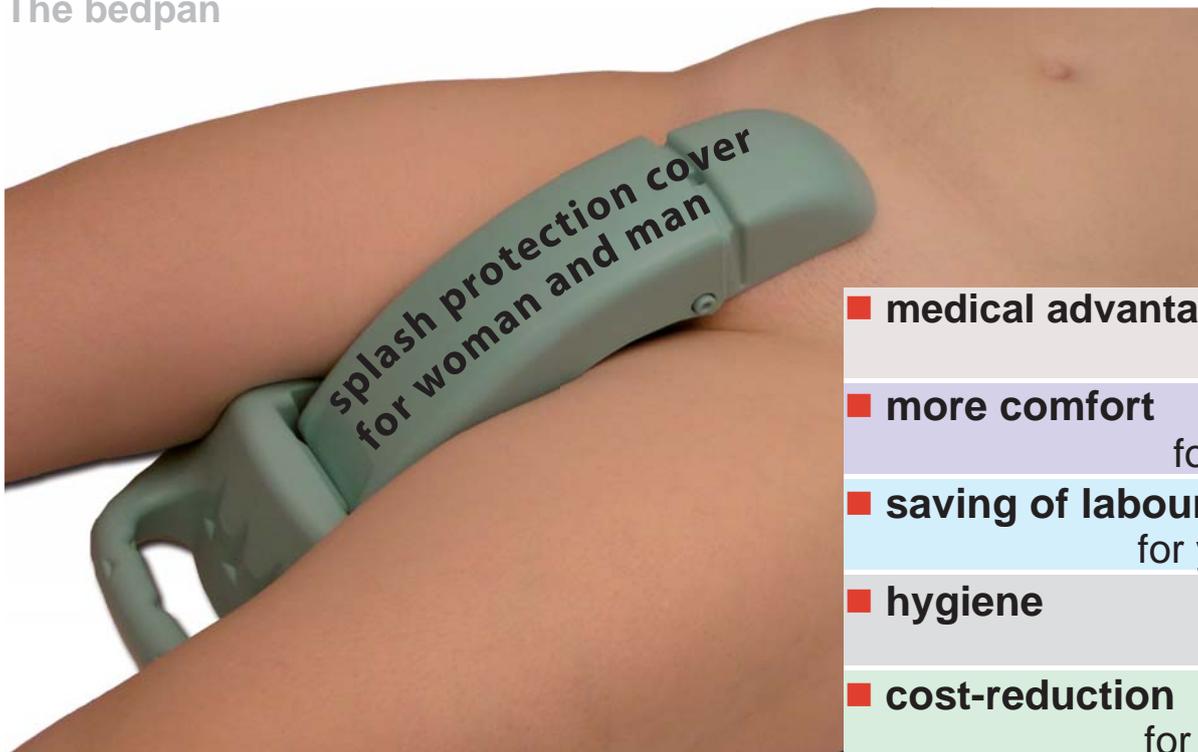


- ~~✗~~ hard, cold and painfull
- ~~✗~~ soiling of the patient and bed
- ~~✗~~ pressure sores and super infections
- ~~✗~~ risk of leaks - no splash protection

**nP**  
no progress  
development  
deadlocked  
since  
**1900**

## The clean solution, **Cleanius** The bedpan

**if**  
product  
design  
award  
**2009**

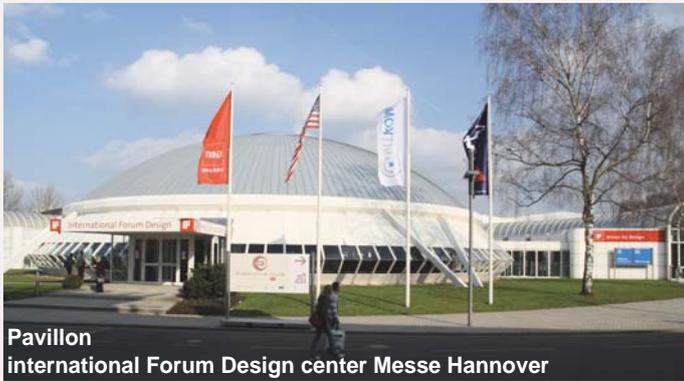


- **medical advantages**  
safety in care
- **more comfort**  
for your patients
- **saving of labour**  
for your personnel
- **hygiene**  
safety in care
- **cost-reduction**  
for your institution

**The IF Product Design Award had 16 categories in total:**

Cleanius convinced in category 13., medicine and healthcare the jury in all criteria.

- Design quality
- Workmanship
- Choice of material
- Degree of innovativeness
- Environmental compatibility
- Functionality
- Ergonomics
- Visualization of use
- Safety
- Brand value / branding
- Universal design



**Pavillon international Forum Design center Messe Hannover**

iF yearbook product 2009 - Hans Strohmeier

In the development process, the products in this category are defined by the intensive involvement of engineers, designers and medical professionals as well as the perspective of the patient. Product developments for prevention, laboratory use, intensive care and rehabilitation took into account the latest insights from the world of medicine, technology and science as well as new materials. ...



**product design award**

**2009**

**Cleanius**

Steckbecken Bettpfanne bedpan

**Design**  
ServoClean  
Helmut Utz, Hans Holzammer,  
Michael Walk  
GERMANY

**Manufacturer**  
HOLZAMMER Kunststofftechnik GmbH  
GERMANY

*Ralph Wiegmann*  
Ralph Wiegmann

*Utz + Holzammer*  
Fritz Frenkel

112\_24838

Medicine/Health + Care 

**Product**  
Cleanius  
Steckbecken Bettpfanne  
Bedpan

**Design**  
ServoClean  
Emmerkingen, Germany

**Manufacturer**  
HOLZAMMER Kunststofftechnik GmbH  
Sengenthal, Germany

Steckbecken Cleanius ersetzt den 100 Jahre alten Blechnachttopf. Die Bettpfanne verfügt über folgende Eigenschaften: warmer Kunststoff, geschlechterunabhängig, Liegen und Stuhl gleichzeitig, Wirbelsäulensparung, Dekubitusprophylaxe, große Auflageflächen mit hoher Druckentlastung, hoher Liegekomfort durch flachen Rand, Genitalabdeckung mit Spritzschutz, Sichtschutz, Geruchsenschutz, keine Bettverschmutzung, auslaufsicher, Kanalisierung der Ausscheidungen, Kressdichtung mit Doppelkammer ist auslaufsicher, keine Vakuumbildung, geringere Geruchsverschmutzung; der Patient liegt über, nicht in seinen Ausscheidungen; keine Sekundärinfektionen, Pflegesicherheit, Kostenersparnis. Ein Attraktivitätsgewinn für Institutionen.

Bedpan Cleanius replaces uncomfortable 100-year-old steel bedpan. Features: warm plastic, unisex, urine and stool simultaneously, vertebral column relieving immersion, Decubitus prophylaxis, big surface allows reduction of point load, high lying comfort, flat edges, genital cover protection, reduction of odors, no soiled beds, leak proof genital cover with splash protection, funnel of excrements into Cleanius; all around sealing-double chamber system, no vacuum suction, reduced soiling of buttocks because patient is lying above, not in his excrements; no super infections, safety in care. Institutions gain reputation and reduce cost.

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statement preamble category 13: Medicine/ Health + Care

Very simple products used for patient care and hygiene also require developers to examine their application in detail, even if it is merely a dinner plate or a bed pan that offers a convincing solution and makes the day-to-day tasks of nursing easier. While some of the products feature good technical solutions, their aesthetic and ergonomic implementation are not worthy of an award.

The challenge for the developers is to design a "humane" product that interacts very directly and intimately with the "ill" patient in a way not seen in any other field.

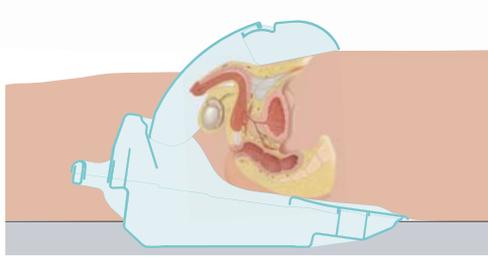
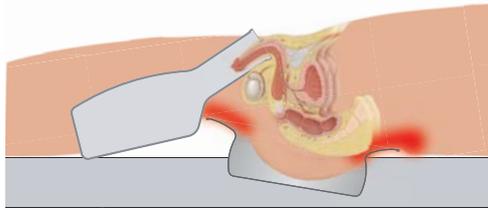


**iF yearbook product 2009**

**Cleanius - patients:**  
Nearly as comfortable  
as the toilet at home.

**Useable regardless the sex**

generally known- if someone passes faeces mostly urine is also passed. Thus men are left juggling with a urine bottle while lying on the bedpan. Cleanius - one piece for **both** and **all**, **simultaneously**.



**Protection of the intimate sphere.**  
**Reduction of unpleasant odours**

Conventional bedpans offer neither a visual cover nor protection from unpleasant odours. The patient is lying bare and naked above the bedpan.

The ergonomic design and the splash protection cover of Cleanius reduces unpleasant odours and hides from view as the only available system.

**Secure application and control**

Patients often clench while lying on a cold, hard steelbedpan. Being scared of something going aside only adds to this misery. Application is unfirm and patients can not stabilize themselves enough.

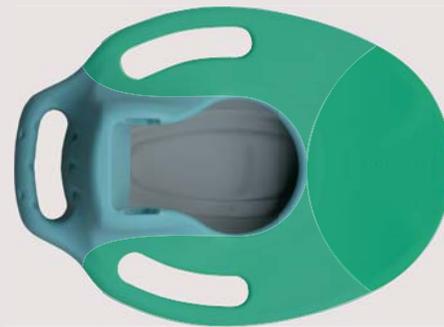
Two side grips and the flat design of Cleanius enable the patient to completely control Cleanius.

**Cleanius - medical advantages:**  
medical valuable,  
for fast cure.

**High lying comfort by a bigger surface**

Lying on a steelbedpan is cold, hard and uncomfortable. The much too small edge (red) hurts after a little while and can cause pressure ulcer (decubitus ulcer). The patients weight is supported by a much too small surface, this is the reason for high point load and can cause pressure points on the patients backside. An often seen phenomena is that urine flows along the patients backside, this is a great danger for pressure ulcer.

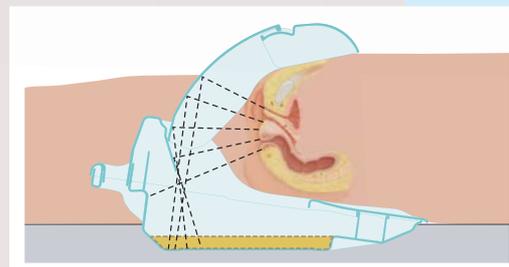
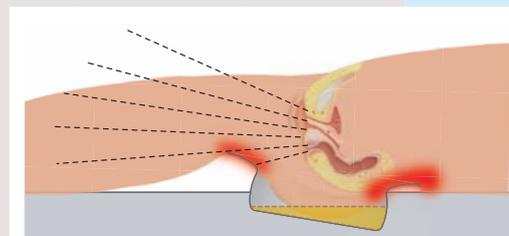
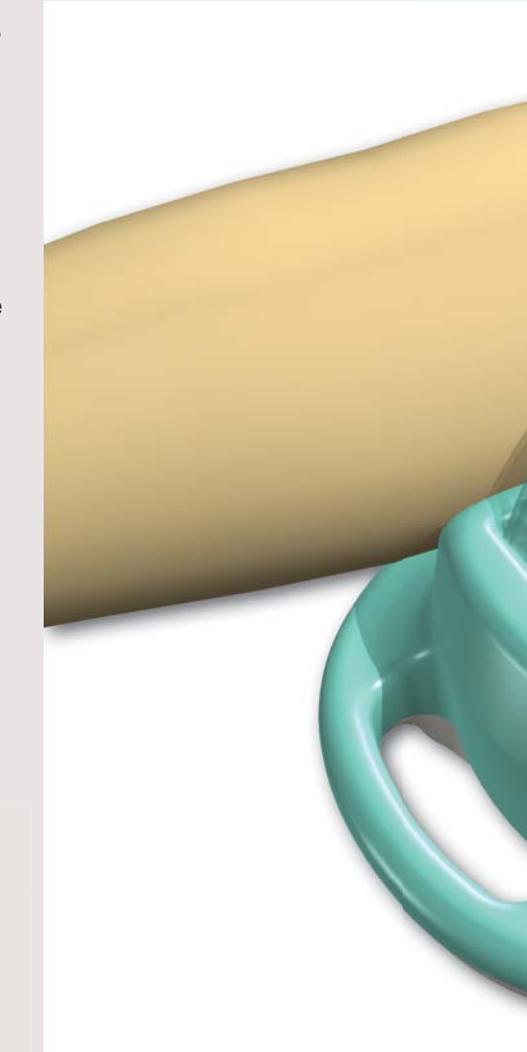
Cleanius offers highest lying comfort by a 3.5 times bigger surface. Cleanius uses large, ergonomically formed areas which guarantee optimal weight distribution. Reduction of the point load is effective **decubitus prophylaxis**. The new the **vertebral column relieving immersion** offers safety and absence of pain even after surgeries.



**Essential reduced soiling of the buttocks - no super infections**

The buttocks immerse very deep into a conventional bedpan. The intaking hole is unnecessary wide. Patients are lying in their excrements and get soiled by their own excrements, this can cause a super infection.

The opening of Cleanius was designed to be as large as necessary. An immersion of the buttocks is impossible, the patient is lying **above** the excrements. This results less soiling and **prevents super infections**.



**Cleanius - personnel:**  
**The clean solution**  
**for an ugly job.**

# Cleanius

international patented. medical product class I; certified to german guideline "93/42/EWG Anhang VII"

## Less stress for nurse and patient

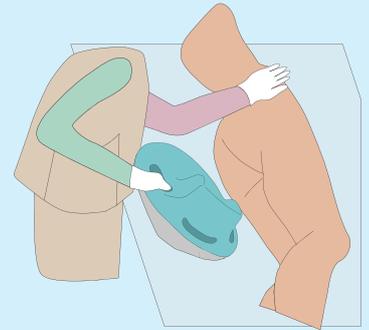
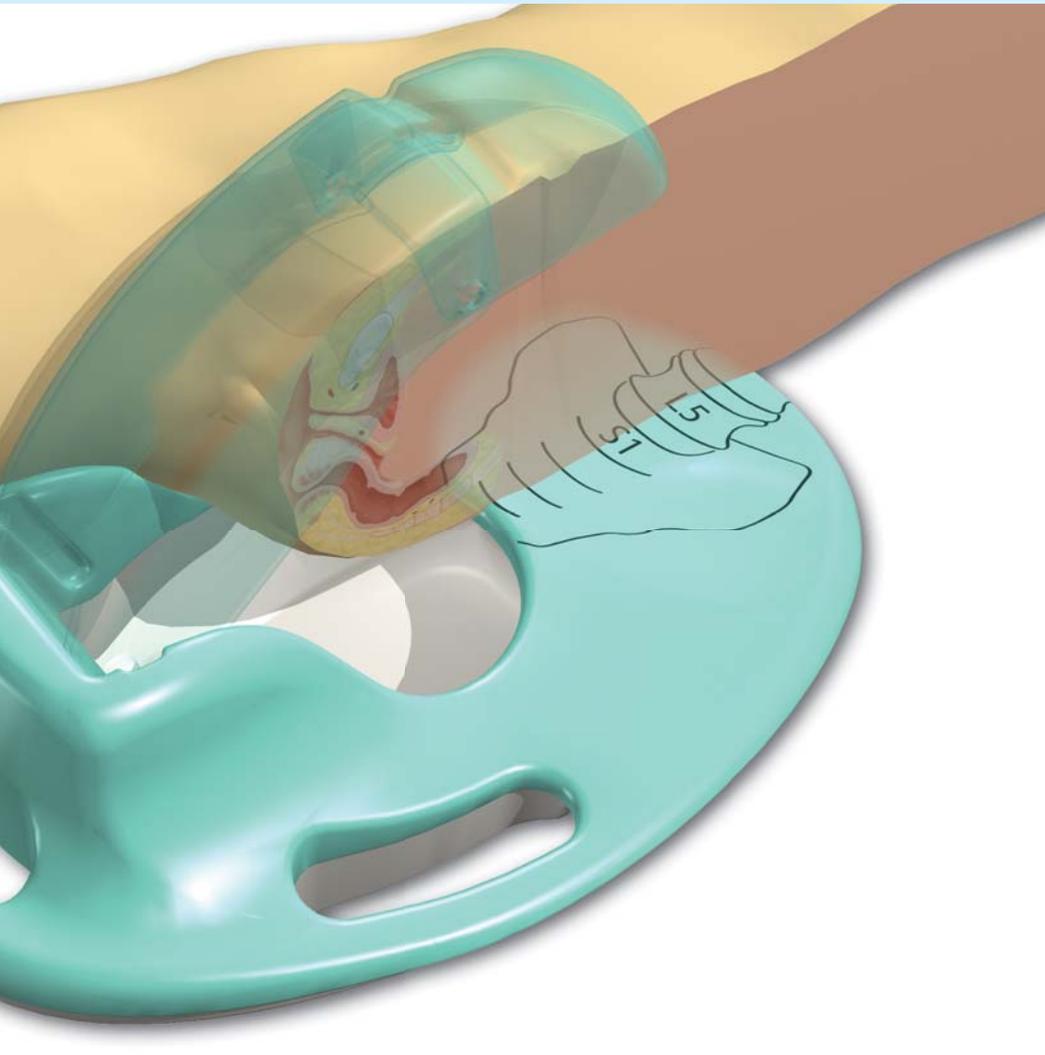
Using Cleanius a longer period, patients appreciate the warm and ergonomically formed plastic Cleanius is made of.

Cleanius will be ordered by the patient in time, because patients are no longer afraid and recognise the high lying comfort. This **prevents stress for patient and nurse.**

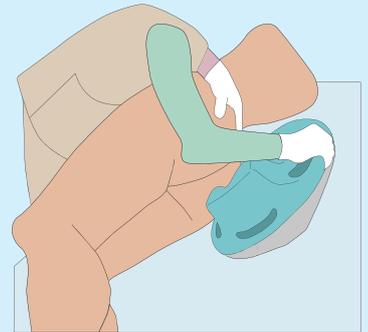
## Simple to handle

For lateral application the patient can be turned from or towards the nurse. Cleanius can be used dorsal as well.

Positioning the patient right on Cleanius is done, when the human sacrum is lying right above the sacrum painted on Cleanius.



or



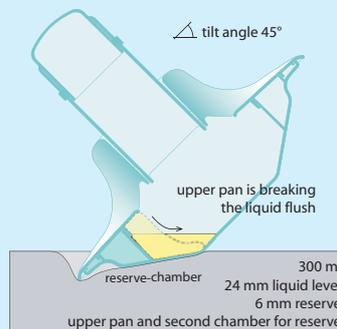
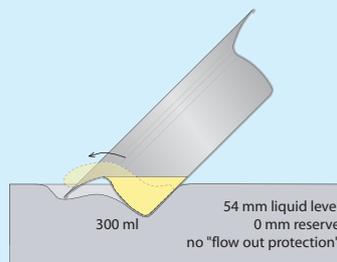
or



## No soiled beds - Controlled direction of expulsions

During use of a bedpan stool and urine, especially in case of diarrhoea or enema, can spill out of the bedpan and soil the bed linen.

The splash protection cover of Cleanius **funnel the excrements into Cleanius.** This prevents the bed from getting soiled. The patient can press without danger



## Removing without soiled beds - no "suction pad-effect"

Removing the bedpan can also soil the bed if it had adhered to the patients buttocks and detaches suddenly.

Even if Cleanius is tilted sideways during removal, its hollow body with two chambers makes sure, that nothing is spilled.

## Cleanius - hygiene:

### A clean business.

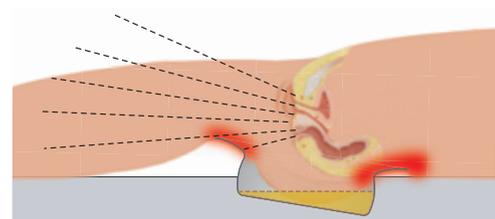
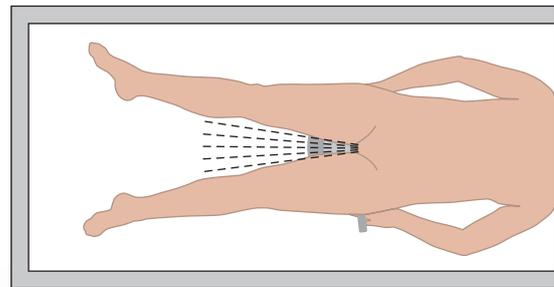
Wherever bedpans are used, the risk is high that excretions pass the patient, unchecked and unhindered, soiling the bed. Especially in infectious exudates, possible routes of infection are created, which can become, underestimated chains of infection. Smallest solid particles are shared as a contact infection or smear infection.

#### Open system - conventional steel pot

The hygienic disadvantages are generally known.

Using conventional bedpans, which operate by the principle of the open system, with each application, particles and droplets of feces and urine, are given freely to the bedside and in the ambient air.

Possible routes of infection are promoted this way. By this, infective excretions can cause a health hazard of nurses and in the room located people.



Due to the large opening of the pot, the patient can get dirty on its own excrements.

#### Reports of patients and caregivers

Opinions of many patients and caregivers from different areas such as hospital, nursing home and home care confirm the great improvement in the overall hygienic situation through the use of Cleanius.

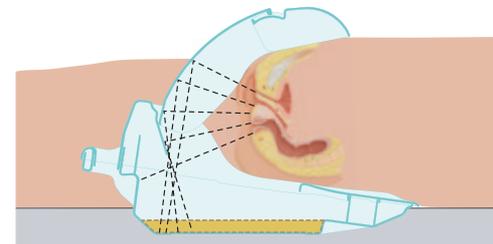
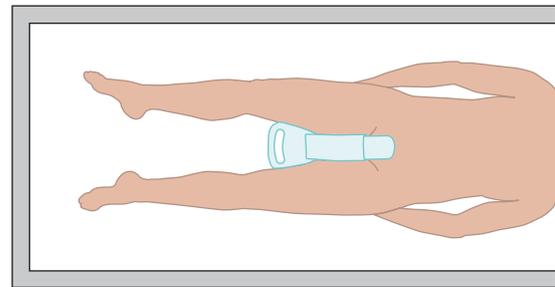
Contaminated aerosol particles, which move freely in the ambient air, can cause airborne infection. The aim of the hygiene is therefore always to interrupt these routes of infection and infection chains.

Patient and bed should be kept clean as possible, any outward spillage of excretions should be avoided.

#### Closed system - Cleanius

The advantages of the closed system Cleanius can be seen immediately.

Cleanius offers the best possible hygienic conditions for patients and caregivers. Contamination and infection routes caused by the excretion are significantly reduced. The unrestricted output of particles and droplets in the ambient air is significantly reduced by the splash protection cover. This is particularly important with contaminated or infectious excreta. This became possible by the special design and the double chamber system of Cleanius and the unique splash protection cover that combines several functions.



The immersion of the buttocks in their own excrement and fouling of the patient bed is effectively prevented.

# Cleanius Compact & multiclean3 Economy:

## Effective economy in several ways

### Cost saving: No soiled beds !

For sure, Cleanius is more expensive than a conventional bedpan, but is amortised in a few weeks by no soiled beds.

Let us assume, with a conventional bedpan the bed gets soiled at every 10th usage, and the labour costs, costs for refreshing the bed with clean bed linen are at 10 Euros, so there will be a cost saving potential by Cleanius of several thousand Euros. (please notice our separate amortisation calculation).

### Cost saving: no super infection

More and more the hospitals are responsible for their patients, protecting them from mistakes in care. If mistakes can be verified to be based in the responsibility of a hospital avoidable financial problems can be the result. If Cleanius can keep only a few of these problems off your institution, there will be an other cost saving potential of several thousand Euros.

### A win of reputation and attractivity for your institution

Patients fears and aversion for conventional bedpans are well founded and best known. In times where institutions have to look after a good occupancy rate by themselves, patients act more and more comfort orientated. Cleanius offers the opportunity to express your institution absolutly up to date even on such basic needs as a bedpan. The product design award underlines this fact specifically.

### Rapid amortization and the multiclean3-device

The attractive cost-savings of the innovative bedpan Cleanius Compact also the cost of multiclean3-apparatus itself within a few years.



# establishing better care.

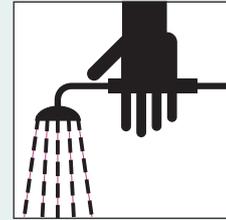
Cleanius Compact & multiclean3  
This proven system is in many homes and facilities in use.

### References:



# Cleanius Eco

and Cleanius Compact  
differ in material  
and type of cleaning!



Cleanius Eco for manuell cleaning up to 65°C.

The hygienic standard in care, without a bedpan washer  
disinfector. Cleaning after application is manual allways.

## ■ authorized facility

health insurance 19.40.04.0031  
funds 51.40.01.0031

## ■ internationally patented

### application **without** plastic liner:

Stool and urin will be drained into the toilet  
directly after application. residual pollution can  
be washed in the shower.

The surface will be dried and disinfected with an  
chemical agent.

Disinfection:

Cleanius Eco can be cleaned and disinfected  
with ordinary skin and plastic secure cleaners  
and disinfectants.

with shower:



Cleaning and disinfection:

Cleanius Eco can be cleaned and disinfected  
with ordinary skin and plastic secure cleaners  
and disinfectants.

### application **with** plastic liner:

A very comfortable alternativ is the use of a  
plastic liner. Inlay a plastic liner over the lower  
pan of Cleanius Eco. Use the liquid absorber  
powder to gel up all urine and liquid stool. It is  
the same agent as in a diaper or nappy of a  
baby.

After the application grab the edges of the liner,  
knot it, and now it can be disposed with the  
common household rubbish.

The inside of Cleanius Eco stays mostly clean.

with plastic liner:



accessories:

**care set 40**

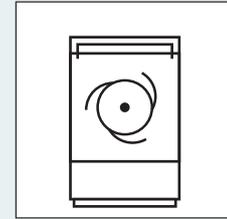
40 plastic liner and 40 liquid absorber set

**care set 80**

80 plastic liner and 80 liquid absorber set

# Cleanius Compact

and Cleanius Eco  
differ in material  
and type of cleaning!



**Cleanius Compact for manuell cleaning up to 110°C.**

**The hygienic master plan for hospitals  
Cleanius Compact & a suitable bedpan washer disinfector.**

## automatic cleaning in a bedpan washer disinfector.

The automatic cleaning of Cleanius Compact takes place professionally in an adequate bedpan washer disinfector, that offers the option to clean and disinfect all conventional care articles also.

Pleasant environments by HPL or stainless steel

Example Collection:



- **medical device class I**  
certified according to directive  
93/42/ EWG Annex VII
- **internationally patented**

With Cleanius we are able to offer you a proven solution which solves all known problems of conventional bedpans in an ergonomical and technical perfect way.



# Cleanius Compact

The bedpan

The hygienic master plan for hospitals and nursing homes. Cleanius Compact and bedpan washer multiclean3.

## Cleaning with the mc3 bedpan washer disinfectant

- Cleanius is washed and disinfected securely with the new bedpan washer disinfectant "multiclean3".
- Excellent handling at the opened door, and an outstanding cleaning result, save thermal or/and chemical disinfection is natural.

## wall shelf "Cleanius"

- mountings for 6, 4 oder 2 "Cleanius" bedpans horizontal or vertical
- drip pan, made of stainless steel
- dimensions:  
horiz: B 345; 690; 1035, H 500, T 380 mm  
verti: B 345, H 500; 975; 1450, T 380 mm
- or custom made



## multiclean3 [=mc3]

all cleaning systems  
all thermal disinfection methods  
all sanitary dishes



- All state of the art sanitary dishes can be washed without changing the rack.
- Devices body optionally made of high quality HPL or stainless steel.
- tower device:  
B 600, H 1800, T 580 mm.
- desk device:  
B 1200, H 1000, T 580 mm.

## multiclean3 options

- Drying option: condensation drying
- Soft water connection R ½ "(DN15)
- Deionized water (demineralized water)



# & multiclean3

the bedpan washer

medical product class IIa  
certified to EN ISO 13485 and  
german guideline 93/42/EWG  
Anhang II

- **washes**
- **cleans**
- **disinfects**

with unique systems  
all sanitary dishes  
thermal A0- value oriented

## Thermal disinfection

- cleaning and disinfection by boiling water and steam
- complete device made of stainless steel
- water and energy saving
- microprocessor control unit
- A0- value oriented (german decree) Norm EN ISO 15883

## Easy to use microprocessor control

- simple operation by colored launch buttons
- display with plain text
- flexible settings for minimum consumption
- complete documentation for hygiene monitoring

## electrical connection

- 230V 50Hz, 3,2kW or  
400V 50Hz, 4,7kW

## water connection

- Hot and cold water each R ¾" (DN 20)  
drain wastewater 100mm (DN 100)



- New! Comes standard with a swing holder for measuring cups



**Secure and sustainable establishing of Cleanius & MC3 care package at your institution by our handling training.**

■ The implementation of handling training and commissioning of the care package contains the manufacturer-sided training of your carers within the meaning of EC Directive 93/42 / EEC for medical products.

■ The training and commissioning includes a professional training in using the already proven comfort bedpan Cleanius Compact. Here, the proper handling in relation to the patient and then the correct loading Cleanius Compact in the bedpan washer multiclean3 is trained with the staff.

■ The training can also be added in the training-passport of the nurses.

**Cleanius** GmbH  
fon: +49 (0) 75 84 / 92 14 70

mobil: +49 (0)152 / 318 77 7 77  
E-mail: info@cleanius.com

**international sales**

**english:**

**Michael Walk**

ServoClean U.H.S GbR

Tulpenweg 21

D-89607 Emerkingen

fon: +49 (0) 73 93 / 598.798

mobil: +49 (0)152 / 318 77 7 77

E-mail: info@cleanius.com

**international sales**

Cleanius Eco

Cleanius Compact

&

multiclean3

**international sales**

**german :**

**Helmut Utz**

ServoClean U.H.S GbR

Weichselsteinerstr. 24

D-92369 Sengenthal

fon: +49 (0) 91 81 / 295-970

fax: +49 (0) 91 81 / 295-971

E-mail: info@servoclean.de



**KODRA:**

production & support:  
multiclean 3

We are looking for business partners in the USA, Canada, Europe and Japan.

**ServoClean:**

sales & support:  
Cleanius Eco  
Cleanius Compact & multiclean3

**KODRA GMBH & CO. KG**

Bruno-Jacoby-Weg 9

D 70597 Stuttgart (Degerloch)

Telefon: +49 (0) 7 11 / 7 20 02- 0

Telefax: +49 (0) 7 11 / 7 20 02- 22

E-mail: info@kodra.de

Internet: www.kodra.de

can be changed by technical innovation  
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**Cleanius** GmbH

Am Ursprung 7-9

D-92369 Sengenthal

fon: +49 (0) 91 81 / 295-970

fax: +49 (0) 91 81 / 295-971

E-mail: info@cleanius.com

www.cleanius.com