

# EasyMop System®

Reliable cleaning and disinfecting in pharmaceutical and technical cleanrooms



Certified



Contactless



Self-explanatory



Ergonomic



**PPS**  
PFENNIG PROFI SYSTEM

# EasyMop GMP and CR

simple and safe

## Closed system with built-in safety

### Solutions for high-sensitive areas

For 15 years, we have been working to meet the highest existing demands in the area of manual floor cleaning: The development of special solutions for the pharmaceutical industry as well as for the manufacturers of semiconductors, optical technology and precision engineering.

EasyMop GMP and CR, our impregnation systems, fulfil the following standards and requirements:

- + Safety and verifiability:**  
Qualification through Fraunhofer IPA
- + GMP (good manufacturing practice) conformity:**  
Safety, also in sterile areas
- + Highest efficiency for cleaning and disinfection:**  
Through intelligent work processes
- + Safe avoidance of cross-contamination:**  
Through contactless mop attachment and creating zone concepts
- + Ergonomics and easy to learn:**  
Ensure resistance against incorrect handling

for cleanrooms with stringent requirements  
– including sterile areas

for cleanrooms with defined security  
– without demand on the sterility



Stainless steel  
1.4404

Completely  
autoclavable

- ✓ Medical products with stringent requirements, including sterile products
- ✓ Pharmaceutical GMP areas, including aseptic production
- ✓ Technical cleanrooms with highest standards

ISO	3	4	5	6	7	8	9
GMP		A/B	C	D			



Stainless steel/  
Polypropylene

Electrically  
conductive  
castors

- ✓ Medical technology
- ✓ Life science industry
- ✓ Technical cleanrooms

ISO	3	4	5	6	7	8	9
GMP		A/B	C	D			

### Clino® CR4 EM-GMP

Art. No.: 3540500



- + Cleaning method: EasyMop GMP with certified system box for sterile areas
- + Highest efficiency and reliability in one-step process
- + Made from cleanroom suitable stainless steel, all components autoclavable
- + Individually configurable through Clino frame construction system
- + ClinoLink: Cleanroom suitable connection system for individual fastening of accessories (see variations)

### Clino® CR4 EM-CR

Art. No.: 3540600

- + Cleaning method: EasyMop CR with ergonomically optimised system box
- + Highest efficiency and reliability in one-step process
- + For surface cleaning, wiper impregnation in the PlusBox
- + Made from cleanroom suitable stainless steel, base frame and castors electrically conductive
- + Individually configurable through Clino frame construction system
- + ClinoLink: Cleanroom suitable connection system for individual attachment of accessory parts

# Impregnation with EasyMop

## reliable workflow – very easy



EasyMop GMP reduces the “human” influence to a minimum and in actuality eliminates any unintentional misuse. The treatment process ensues fully independent of the operator. Through attainment of the balance between

gravity and capillary power, it always leads to an easily reproducible result.



highly efficient



**1** Properly dose cleaning product and place mop into system box



**2** Attach mop in a contact-free manner and begin cleaning



**3** Contactless release of mop

## Your advantages:

The EasyMop GMP and CR impregnation systems offer the maximum in safety and efficiency in cleanroom treatment and disinfection. Independent of the operator and without the use of any mechanical components, the mop heads are always subject to the same level of treatment, which guarantees that the defined areas are always properly and thoroughly disinfected. Comprehensive appraisals, certificates and seals of approval from recognised, independent institutions are available.

- + Reliability:**  
Unintentional misuse impossible
- + Reproducibility:**  
Treatment of the textiles is independent of operator
- + Verifiability:**  
Exhaustive series of measurements for appraisal of the disinfection performance
- + Sterility:**  
Also tested for the GMP A/B areas
- + Ergonomics and learnability:**  
System is easy to understand and easy to use
- + Avoidance of cross-contaminations:**  
The entire work process is contactless
- + Efficiency:**  
Significantly less consumption of medium through complete use of the applied cleaning solution

## Cleanroom class indicator

<b>ISO</b>	3	4	5	6	7	8	9
<b>GMP</b>			A/B		C	D	

**Nomenclature DIN EN ISO 14644-1 relevant for:** Cleanrooms in all industrial areas

**Nomenclature EU-GMP relevant for:** Pharmaceutical industry, specialised aseptic production GMP areas

The classes named above are air cleanliness classes. The assignment of consumable materials into these classes can therefore only be used for orientation purposes. Even though comprehensive measurement values and independent reports are available regarding many products, the suitability of the respective production process must be evaluated by the operator.

# Clino CR

certified



## Special high-tech mop heads



### King GMP

Art No.: 3500051



- + Optimised for the EasyMop GMP impregnation method
- + Autoclavable for up to 50 preparation cycles, resistant to disinfection solution and gamma rays
- + Removes 99.9% of all particles in the one-step process
- + Safe disinfection of GMP areas through wetting characteristics that can be validated
- + Minimal particle emission
- + Large open sleeves enable the rinsing of particles in the treatment process
- + All material edges are lined and/or sealed



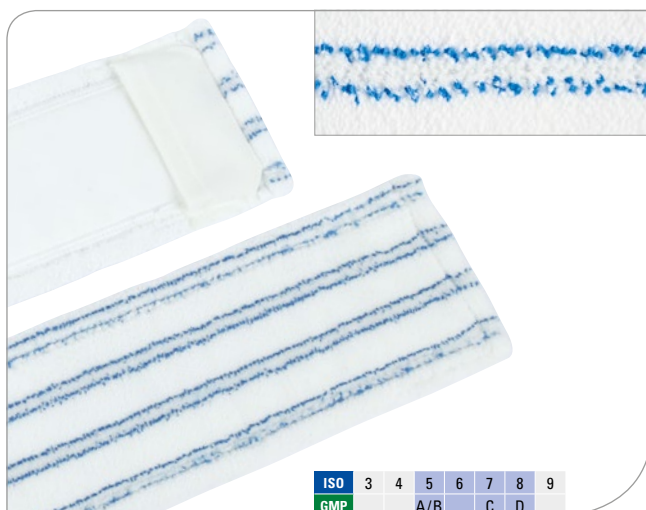
### King CR Wiper Mop S

Art No.: 3500066

Art No.: 3500068 – gamma irradiated



- + 100% polyester microfibers ensure excellent cleaning performance
- + Special structure for optimal particle absorption
- + Very high quality cleanroom suitable processing
- + High degree of area coverage through back-feeding
- + Also ideal for cleaning walls or ceilings, sterilisable
- + Special throw-away mop cover



### MicroSicuro CR/A

Art No.: 2700268



- + Removes 99.9% of all particles in the one-step process
- + Safe disinfection of GMP areas through wetting characteristics that can be validated
- + Innovative combination of materials ensures maximal square-meter coverage; ideal for removing remnants of the disinfectant
- + Autoclavable for up to 50 preparation cycles, resistant to disinfection solution and gamma rays
- + Optimally suited for all PPS cleaning methods via maximal capillary effects

# Cliно CR4 system trolley

maximum flexibility



With its standardised dimensions, the Cliно frame system ensures the easy exchange of individual components. Using the example of the CR4 model, you are given a selection of possible variants that are all based on the same identical base frame:

## Variations with EasyMop system boxes



Cliно CR4 EM-CR with accessories  
Zone concept: **Yellow**



Cliно CR4 EM-CR with accessories  
Zone concept: **Green**



Cliно CR4 EM-CR with accessories  
Zone concept: **Red**



Cliно CR4 EM-GMP with accessories



Cliно CR4 EM-CR with accessories  
Zone concept: **Blue**



Cliно CR4 EM-CR with accessories  
Zone concept: **Grey**

## Variations with flat wringer and MopFloat



Cliно CR4 FP with accessories



Cliно CR4 FP-GMP with accessories



Cliно CR4 MF-GMP with accessories

With our service catalogue for effective contamination control, you can assemble your own individual system trolley design.

# PPS – the company



## Planning, consulting and sampling

Based on the PPS system cycle, our in-house and field specialists will analyse your individual requirements. The products that have been aligned to your needs will be provided to you as a free-of-charge sample to undergo your own evaluation.



## Leasing and financing

Together with specialised cleanroom laundry services, we offer you a mop leasing concept. This means that you only pay one flat rate per mop cover used. However, you do not have to worry about the procurement and preparation. Even our system trolleys and accessories can be purchased through either leasing or rent-to-own schemes.



## Advice and support

With a nationwide sales staff in Germany as well as an extensive network of dealers domestically and throughout Europe, we are located near you. Our highly specialised inside sales staff is available to provide you with support by phone.

For more than 40 years we have been working on the development and production of professional cleaning equipment. The name of our company – Pfennig Reinigungstechnik – is based on the fact that a product's technical component is always at the forefront. Since in a cleanroom, the term "cleanliness" is subject to a completely different meaning than is the case in standard building cleaning services, in 1999 we decided to meet this challenge by using an entirely newly developed product line: The Clino CR cleaning

and disinfection system was the first system that was certified for use in cleanrooms. We continue to improve and develop this system. Due to our expansive network consisting of manufacturers of cleansing agents and disinfectants, cleanroom laundries and other providers of specialised services related to cleanrooms, we are able to offer you perfectly customised system solutions. If you are looking for a customised special solution, we look forward to your query!

We look forward to your query!

