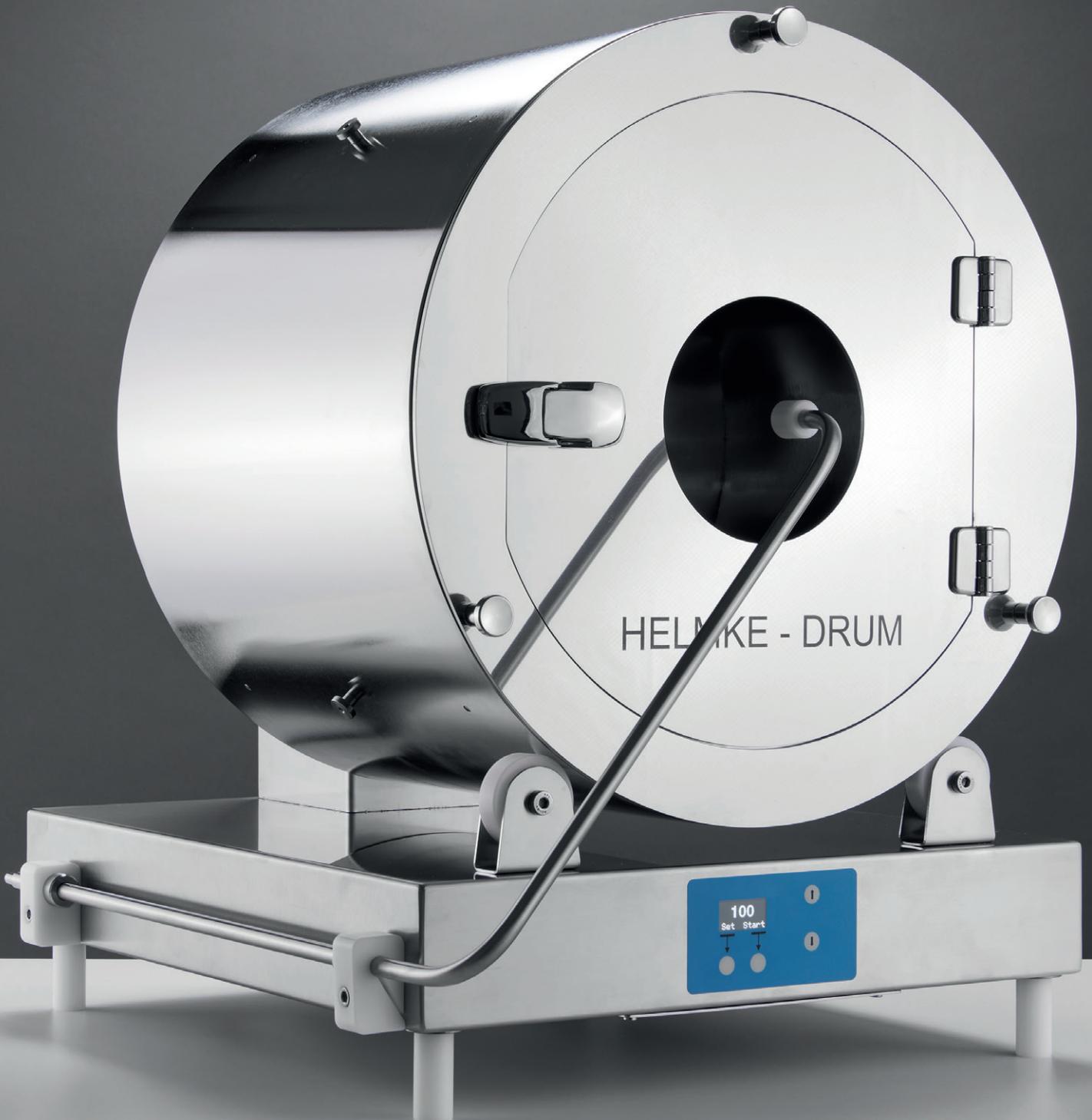




Contamination Control Instruments  
CCI vK GmbH & Co. KG  
[www.cci-vk.de](http://www.cci-vk.de)



PARTICLE MEASUREMENT  
ON CLEANROOM GARMENTS  
AND CONSUMABLES

# HELMKE-DRUM

Only particle counters with a sample volume of 1 cft (28.3 l/m) can be used for the Helmke-Drum.

The measurement process is started simultaneously with the particle counter. This makes handling simple and uncomplicated.



We also offer service measurements

## Particle measurement according to IEST-RP-CC003.5

# HELMKE-DRUM

### Made in Germany

The Helmke-Drum manufactured by CCI for measuring particulate contamination on cleanroom garments and consumables is produced in accordance with the recommendations of Recommended Practice (RP)-CC003.5 of the IEST (Institute of Environmental Sciences and Technology).

The Helmke-Drum is based on the principle of particle release from garments and textiles, which are emitted through movement in the rotating Helmke-Drum. The drum is driven at a constant speed of 10 revolutions per minute.

A laser particle counter with a sampling volume of 28.3 l (1 cft/min) is used for particle measurement. Depending on the specific design, this can be connected to the Helmke-Drum for control purposes. CCI recommends a Kanomax Model 3905 particle counter as an optional accessory.

A microprocessor controls the measuring process and a display shows the remaining revolutions per cycle.

The Helmke-Drum is delivered with a base on four adjustable feet. This allows the Helmke-Drum to be placed on any work table.

### Particle counter

- // Use of a customer-owned particle counter
- // KANOMAX Model 3905 supplied by CCI

### Stainless steel in two qualities

- // Standard version (V2A)
- // Version for the highest demands (V4A)

### Doors in two designs

- // with removable lid
- // door with hinge for comfortable handling, left/right opening



To the product video



## Residual particle concentration in cleaned cleanroom textiles

# HELMKE-DRUM

### CCI Helmke-Drum

#### Particle measurement in accordance with IEST-RP-CC003.5

- // Drum with drive (115/230 VAC, 40 W)
- // Built-in sampling tube
- // Rotates in one direction, 10 rpm ( $\pm 1\%$ )
- // Microprocessor controlled
- // Safety shutdown in case of malfunction
- // Drum can be cleaned quickly  $< 5$  min after batch change thanks to automated rinsing
- // Drum material inside RA  $< 3 \mu\text{m}$  stainless steel
- // Dimensions (L x W x H)  
approx. 47 x 46 x 55 cm
- // Drum diameter: 43 cm

### Optional accessories

- // Door with hinge, right-hand opening
- // Stainless steel equipment trolley (for cleanrooms),  
1 x drawer and 1 x storage compartment, on castors
- // KANOMAX Model 3905 laser particle counter
- // Transport box (aluminium) for particle counter  
with standard accessories
- // Filter
- // Software for data encoding

### Qualification

- // Individual qualification of the Helmke-Drum  
in accordance with GMP regulations in the IQ  
and OQ phases

IEST-RP-CC003.5  
documents how  
the test object  
should be placed  
in the drum





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PREVENT, MONITOR AND REDUCE  
CONTAMINATION:

CLEANROOM TECHNOLOGY  
MEASUREMENT TECHNOLOGY  
PARTICLE VISUALISATION  
SERVICES (E.G. DQ, IQ, OQ, PQ)  
REUSABLE GARMENTS  
CONSUMABLES

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We are certified according  
to DIN EN ISO 9001