



## Innovation meets efficiency

Hamo P 640 – developed with the latest standards.  
Compact, powerful and perfect for integration.

## Hamo P 640

### Small system for high demands

- The successor to our most successful cleaning system Hamo 210 and T21, has been completely redesigned and further developed with the latest standards.
- With the same basic structure as the predecessor model, the system can be replaced one-to-one with little effort. Even the already available wash rack can be reused if required.
- Our P 640 is an all-rounder. It is successfully used in the production and laboratories of pharmaceutical companies and pharmacies. It is also used for demanding cleaning tasks in the medical technology sector.
- Thanks to its compact design, it is ideal for use in smaller rooms.
- The units can be equipped with a single door or as a pass-through-system for separation of the "clean" and "unclean" sides.
- Developed in accordance with the latest standards and regulations, such as: cGMP, GAMP5, FDA, EHEDG, ASME BPE, DIN ISO, CE.

10" HMI IPC  
with cleanVision



### Cleaning chamber

- 316L mirror polished  $Ra \leq 0.8 \mu m$
- Round corners = 20 mm
- Free of gaps and dead space
- All surfaces designed with a slope for self-draining
- Heat exchanger in the tank
- Self-cleaning coupling for wash rack.



### GMP-compliant drying system

- Fully automatic
- Frequency-controlled, powerful fan unit
- High Purification H13 HEPA filter
- Differential pressure control
- Test connections for aerosol test (DEHS)



### Piping system

- $Ra = 0.8 \mu m$ ; 3.1 certificates; hygienic design
- Piping free of gaps and dead spaces
- Self-draining piping, gradient  $>3\%$
- Vertical self-draining pump
- Pump in hygienic design (400L/min; flow rate  $>2m/s$ )
- 90% orbital welded
- Valves Forged body inside  $Ra \leq 0.8 \mu m$
- Optimized piping, less weld seams
- All sensors are inside the piping system



### Integrated Electrical cabinet

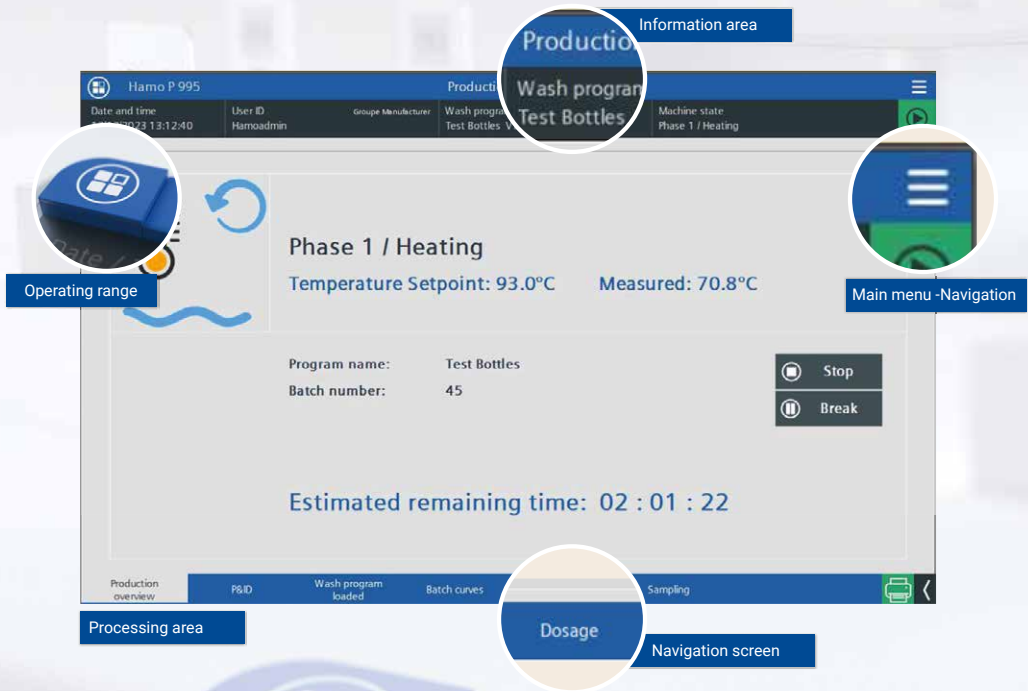
- Stainless steel electrical cabinet
- Pivotable
- IP 54
- Individual wire labeling



# cleanVision

## State-of-the-art software concept

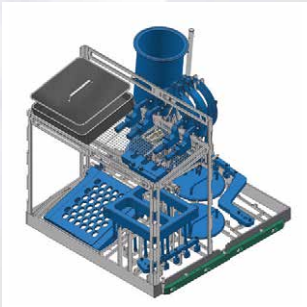
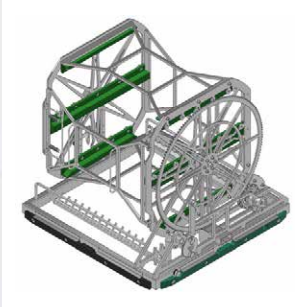
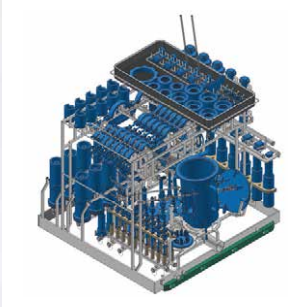
- Developed according to GAMP5
- Validated software
- Cross-system software
- Modern, self-explanatory symbols
- Applications simulator
- Simple operating structure
- User-friendly division of the monitor into different areas



### Standard functions

- › Automatic and manual mode
- › Message and alarm management
- › Traceability (Audit Trail)
- › Sensor calibration
- › System functions
- › Data management
- › Diagnostic function
- › Setting cleaning and machine parameters

# Customized wash racks P-Line





P 640	Chamber size (BxTxH)	System size (BxTxH) (Door open)
P 640	640x640x640 mm (25x25x25 inch)	1450x1300x2700 mm (51x51x106 inch)
P 640 1000	640x640x1000 mm (25x25x39 inch)	1450x1300x3450 mm (51x51x135 inch)


# We are there for you worldwide


Our international subsidiaries and our representatives will be happy to provide you with technical advice on suitable solutions for your cleaning process. The technical service is offered internationally.



 Amsonic AG (Headquarters)

 Amsonic Hamo GmbH

 Amsonic France SAS

 Amsonic Service Partners

**Hamo**  
Cleaning Technology

Amsonic AG  
Headquarter  
Zürichstrasse 3  
CH-2504 Biel/Bienne

Telefon: +41 32 344 35 00  
E-Mail: [amsonic.ch@amsonic.com](mailto:amsonic.ch@amsonic.com)

**Amsonic**  
Precision Cleaning

Amsonic Hamo GmbH  
Mühlhauser Feld 5  
D-85664 Hohenlinden

Telefon: +49 8124 445 65-0  
E-Mail: [amsonic.de@amsonic.com](mailto:amsonic.de@amsonic.com)

**KKS**  
Experts in Surface Treatment  
& Ultrasonic Cleaning

Amsonic France SAS

110, rue des frères Voisin  
F-69970 Chaponnay/Lyon

Telefon: +33 437 28 18 00  
E-Mail: [amsonic.fr@amsonic.com](mailto:amsonic.fr@amsonic.com)



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