



Requirements and Solutions

Continually operating carousel principle on separate machines for washing and filling of kegs in the high-capacity range of up to 1,500 keg/h. The entire line is controlled and monitored by a decentralized system. The line is operated via the user-friendly KHS VISUKEG visualization facility. Washing and filling cycles are individually adapted to meet customer needs and coordinated to the quality assurance of the individual product. The utilization of experience from the construction, installation and maintenance of over 2,000 KHS keg lines worldwide, the use of the most modern and high-quality components and hygienic design characterize the ContiKeg series.

Key Features

- Design as pre-cleaner, main cleaner, combi-cleaner and filler
- Changing from one process step to another within a machine takes place without decoupling during one rotation
- The best, assuredly sterile cleaning technology thanks to, among others, pulse spraying with up to three chemical cleaning media
- Conveying routes between machines serve as additional soaking/sterilization time
- Identical filling curves on all heads are freely programmable; filling volume is controlled by a volumetric filling unit
- The entire design follows the Hygienic Design concept and is therefore easy to clean and service
- Four machine sizes with 16, 20, 24 and 32 possible keg stations, not all of which have to be occupied from the beginning and are easy to retrofit

Standard Equipment

- This machine is manufactured completely from steel (1.4301 (304))
- Each carrier frame, with two keg stations each, has its own programmable control for carrying out all monitoring, control and operational functions.
- Each treatment head has only two valves. Safety controls continually monitor the entire process; i.e. only absolutely clean kegs that are free of microorganisms are filled.
- The lubrication of the central rotary point is concentrated at one point and conveyed to the outside.

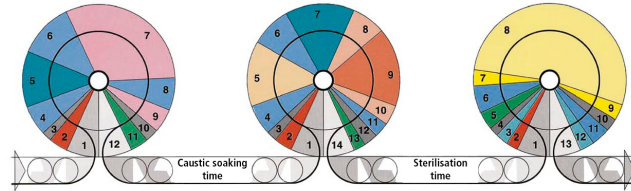




Benefits

- High filling capacity with minimal machine usage and low maintenance and operating personnel requirements
- The KHS Direct Flow Control (DFC) filling system ensures minimum oxygen pickup and minimum CO2 losses - coupled with the highest product quality.
- Maximum accuracy and efficiency through continuous filling independent of pressure surges
- Collection and preparation of all operating data and its forwarding to a superordinate management information system.

Examples for the keg treatments on three machines



Contikeg VR Pre-cleaning

- 1 Infeed of keg
- 2 Check position of fitting
- 3 Connect
- 4 Check residual pressure
- 5 Blow out residuals
- 6 Mixed water rinse
- 7 Blow out mixed water
- 8 Caustic rinse I
- 9 Blow out caustic I
- 10 Filling caustic I (or caustic II)
- 11 Disconnect
- 12 Blow out head/relieve
- 13 Discharge of keg

Contikeg HR Main cleaning

- 1 Infeed of keg
- 2 Check position of fitting
- 3 Connect
- 4 Blow out caustic I (or caustic II)
- 5 Acid rinse
- 6 Blow out acid
- 7 Hot water rinse
- 8 Blow out water with steam
- 9 Create steam pressure
- 10 Relieve steam pressure
- 11 Create CO2 pressure
- 12 Disconnect
- 13 Blow out head/relieve
- 14 Blow out keg

Contikeg F Filling

- 1 Infeed of keg
- 2 Check position of fitting
- 3 Rinse and blow out fitting
- 4 Connect
- 5 Check pressure
- 6 De-pressure
- 7 Counter-pressure
- 8 Filling
- 9 Fast Filling
- 10 Throttle phase
- 11 Disconnect
- 12 Blow out fitting (optional)
- 13 Rinse fitting (optional)
- 14 Discharge keg

Option: cleaning process can be combined on one machine.

Service

- Worldwide service and fast spare parts supply
- Complete line design
- Turnkey projects worldwide
- Conversion, expansion and modernization of existing keg lines

Optionen

- Fully automatic rejection system
- Automatic CIP caps
- Pneumatic de-scaling valves (de-scaling of treatment heads)
- Automatic foam cleaning
- VISUKEG - complete system and production data visualization
- ReDiS remote maintenance system

Technical Data

Capacity Range

Up to 1.500 Kegs/h (depending on machine size and number of active filling/cleaning stations)

Container Sizes

Volumes: 7 l to 58 l (1/2 bbl)
Diameter: 239 mm to 425 mm
Height: 320 mm to 610 mm

Machine Data

Weight: approx. 4.0 t (16 stations), 4.5 t (20 stations), 5.0 t (24 stations), 6.0 t (32 stations)
Diameter: 2.48 m (16 stations), 3.59 m (20 stations), 4.25 m (24 stations), 5.55 m (32 stations)
Height: 2.75 m (washer), 3.35 m (filler)
Conveyor height: 1,200 mm

Control

Siemens S7 (alternatively AllenBradley/Rockwell or Mitsubishi)

Power Supply

400 V; 50 Hz EU / 460 V; 60 Hz USA

CO2 loss (beer/filler with DFC for 50 l Kegs)

0 to 0.1 g/l

O2-pick-up (beer/filler with DFC for 50 l Kegs)

0 to 0.05 ppm