

1. Declaration of conformity

(as defined by EG-machine instruction 2006/42 EG, annex II 1A)

Manufacturer:

WERUCON GmbH
Nantes-Straße 3
28309 Bremen

We hereby declare that the machine described hereafter complies with the base requirements of the above mentioned instruction specified and listed in the table (see page 2 of the declaration). In case of modifications carried through at the machine without our acceptance the entire declaration of conformity does no longer hold valid.

Machine description: mini cask extracting unit
Machine No.: D-KGE1-00
EG-instruction: EG-machine instruction 2006/42/EG

Appropriate norms applied:

EN ISO12100-1 (Safety of machines: Basic terminology, methodology)
EN ISO12100-2 (Safety of machines: Technical guidelines and specification)
DIN EN 983 (Safety of machines: Technical demands of fluid technical equipment and its components)
DIN EN 953 (Safety of machines: Separating protection devices)
DIN EN 954-1 (Safety of machines: Safety related parts of control)
DIN EN 1088 (Safety of machines: Locking devices)

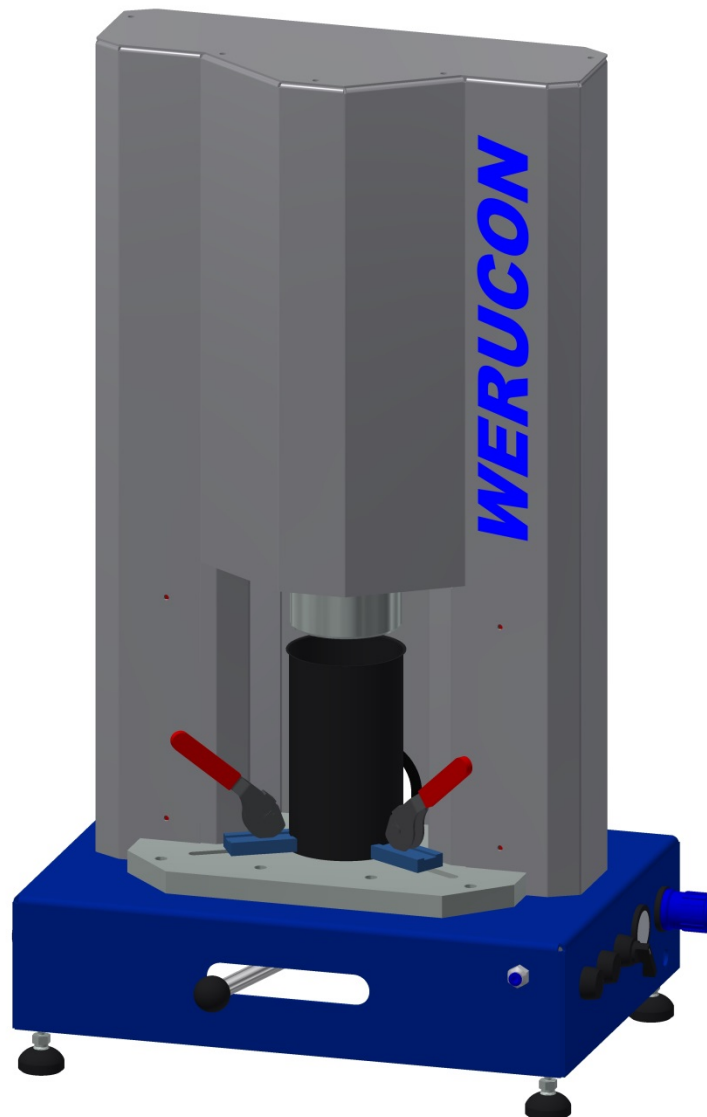
Authorized person for documentation: Jens Schmidtmeier
Address: see manufacturer

Place/ date/ signature of manufacturer:

Bremen, 13.09.2016



Details of signatory: CEO Gerd Ruhkopf



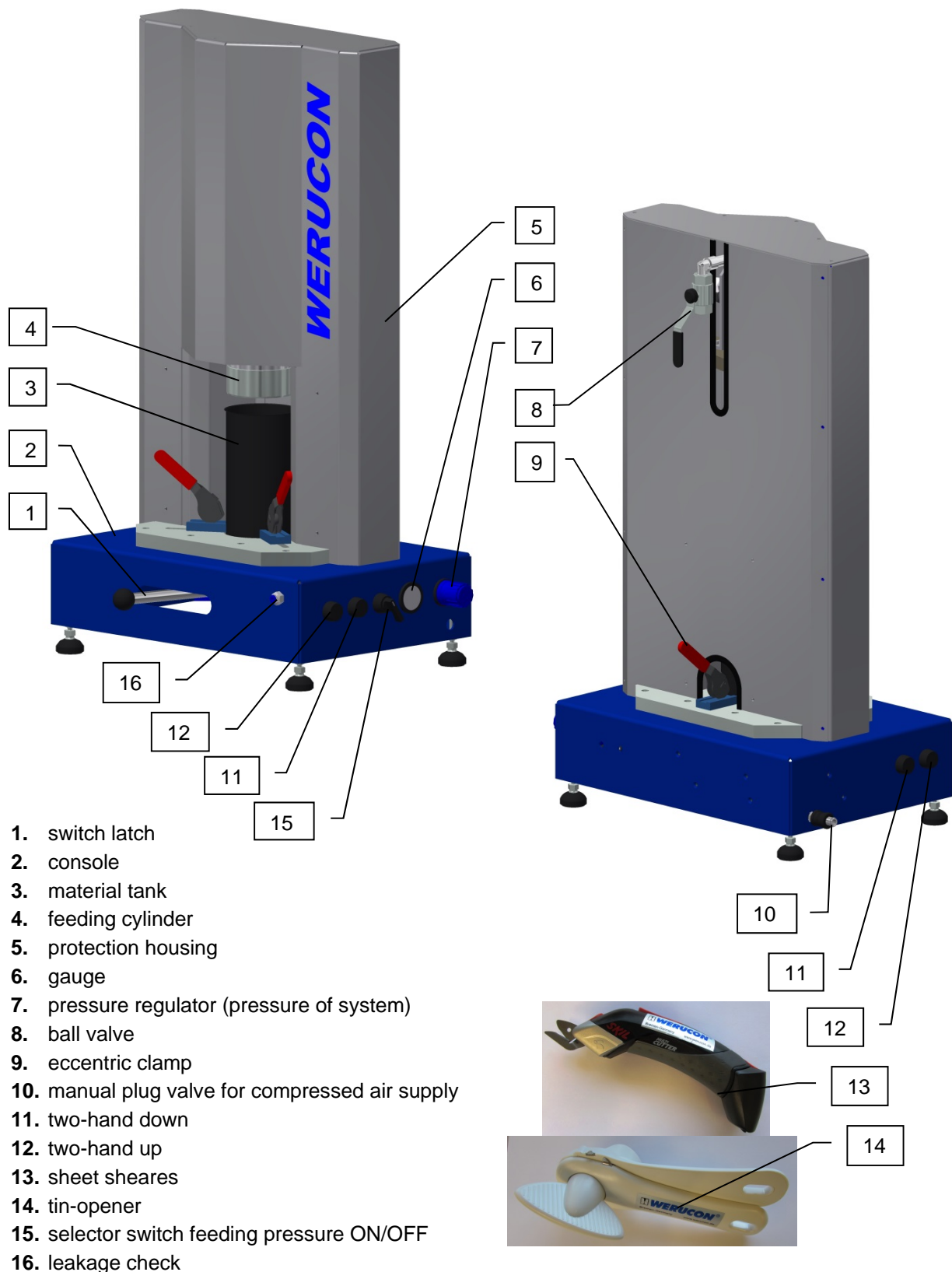
1. Application

The mini cask extracting unit KGE of WERUCON® is a feeding system for dosing units. Highly viscous liquids or paste like industrial lubrication media are extracted adapted to customer specific material tanks. Tanks up to approx. 1 kg are constantly emptied with a feeding pressure of 6 bar without pressure fluctuation.

Operating instructions of - mini cask extracting unit

Typ: D-KGE1-00

2. Technical description



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3. Function principal

The feeding cylinder (4) plunges into the material tank (3) up to the dead stop. After locking the equipment by means of the switch latch the feeding cylinder seals the material chamber on front side. This position releases a pneumatic signal which releases material extraction.

After switching the selector switch (15) over to *feeding pressure ON* the material is constantly fed through the piston rod due to the pressure on the feeding piston. Material extraction can be interrupted via ball valve (8).

When the material tank is emptied completely it has to be exchanged manually with a new and full material tank.

The operational condition of the piston sealing in the feeding cylinder can be checked visually at the hose for leakage check (16). So it is ensured that any compressed air enters the grease chamber. The medium is fed to the dosing unit free from bubbles.

4. Installation

- Installation alignment: set on its positioning feet either on a work bench or desk
- Connect pressure supply to the compressed air net (6 bar)
- Connect hose to the dosing unit (e.g. volume dosing) to *ball valve (8)*
- Connect level sensor (optional) to your control according to schematic diagram (datasheet attached)



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5. Start-up

Attention!:

- **Do not use any casks not approved for use by WERUCON®!**
- **The filling volume of the cask must not exceed the amount recommended by WERUCON®!**

Initial start-up (Deaeration of material hose):

- Dosing unit is not yet connected to the material.
- Feed compressed air. Open manual plug valve (10).
- Adjust system pressure to 6 bar via pressure regulator (7).
- Release unit with switch latch (1).
- Drive the feeding cylinder to the top position via two-hand control (12).
- **View control:**
 - **Ensure that the piston is in bottom position of the cylinder shell. If necessary press the piston unit into bottom position manually at the ball valve (8).**
 - **There must not stick any medium at the outer diameter of the feeding cylinder. If necessary the surface has to be cleaned by means of a suitable cleaning cloth.**
- Open material tank (3).
 - **A border of the cover or any part reinforcing seam must not remain! The inner area has to be free completely. If necessary remove the entire bottom of the cover using a tin-opener.**
 - **There must not stick any residual medium to the walls, if necessary medium has to be removed by means of a scoop and walls have to be cleaned with a cloth afterwards.**
- Put material tank on the base plate of the extracting unit positioning it in the annular groove.
- Move the clamping plate towards the tank and latch it with the eccentric clamp (9) (3 times).
- Move the feeding cylinder into the material tank up the dead stop via two-hand down (11). During this process the piston presses on the material surface and is then pushed upwards through the feeding cylinder.
- Lock the unit with switch latch (1).
- Adjust feeding pressure to ON via selector switch (15).
- Open ball valve (8).
- Feed medium up to the end of the material hose and close the dosing unit instantly.
- Activate dosing unit until the entire residual air has left the system.

6. Operation instruction

Initial start-up / Deaeration of material hose:

- Selector switch feeding pressure OFF.
- Unlock switch latch.
- Two-hand feeding cylinder moving up.
- Loosen eccentric clamp (3 times).
- Take out the empty cask.
- View control:
 - **Ensure that the piston is in bottom position of the cylinder shell. If necessary press the piston unit into bottom position manually at the ball valve (8).**
 - **There must not stick any medium at the outer diameter of the feeding cylinder. If necessary the surface has to be cleaned by means of a suitable cleaning cloth.**
- Open material tank.
 - **A border of the cover or any part reinforcing seam must not remain! The inner area has to be free completely. If necessary remove the entire bottom of the cover using a tin-opener.**
 - **There must not stick any residual medium to the walls, if necessary medium has to be removed by means of a scoop and walls have to be cleaned with a cloth afterwards.**
- Put the material tank on the base plate of the extracting unit.
- Clamp the material tank by means of the eccentric clamp (3 times)
- Ball valve open
- Two-hand feeding cylinder moving down.
- Lock the switch latch.
- Move selector switch: feeding pressure ON.
- View control: Empty the tank completely very carefully as soon as the hose to the ball valve has reached approx. 20 mm from long slot.

Remark:

In order to be able to feed the material free from bubbles material tanks free of entrapped air (provided by the supplier) have to be used exclusively.

If air or material escapes from the hose the piston sealing of the feeding cylinder is defect.