

**A300**  
**(material preparation and -feeding)**

**unit for highly filled and abrasive,  
non-viscous material**

Neustadt/Donau, April 08

## Feeding out of pressure pails

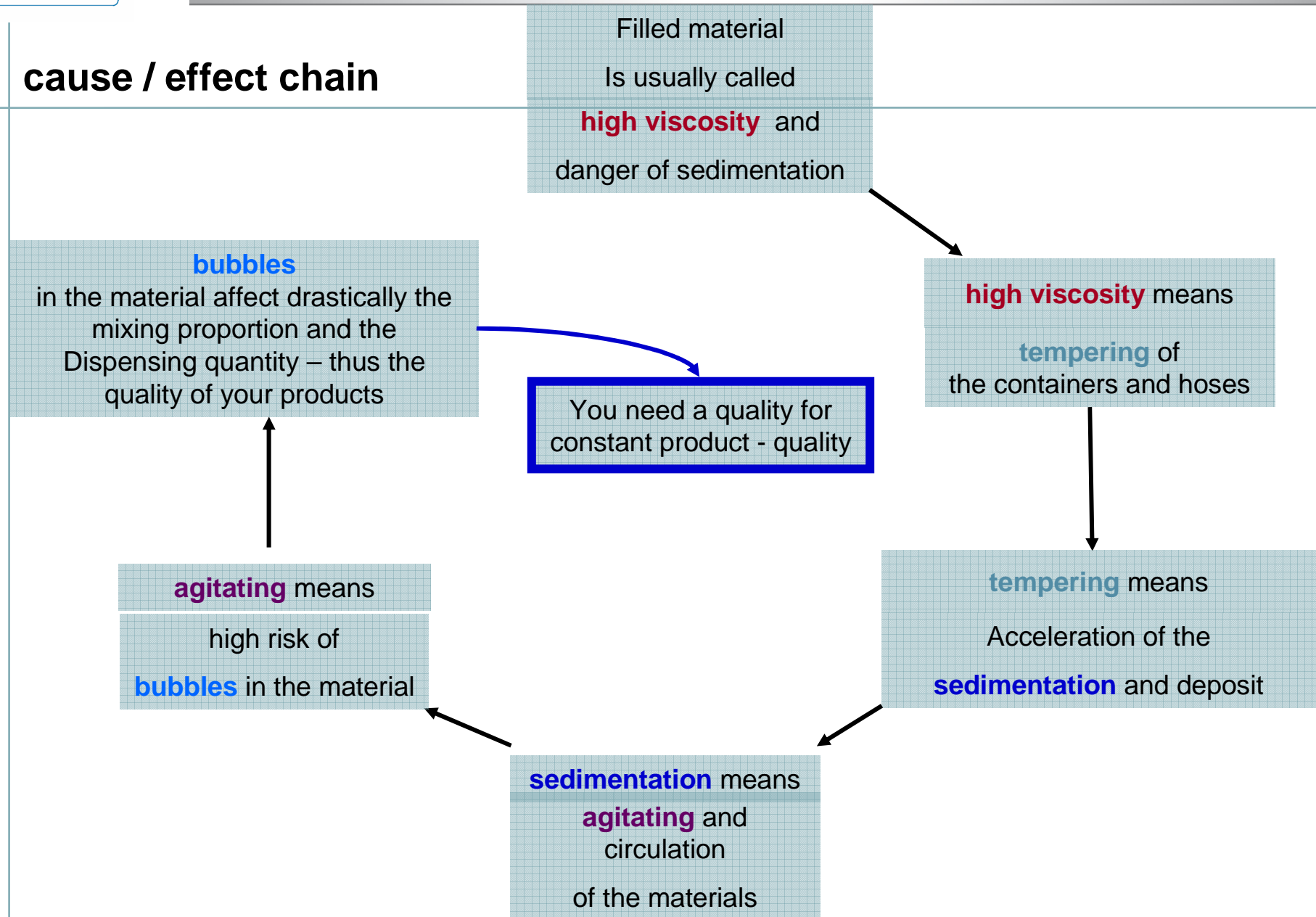


! Refilling and feeding are not synchronized

! Evacuation process is made null and void by pressure feed

! Process safety is not given

cause / effect chain



You need a quality for  
constant product - quality

## A300 – Preparation and Feeding under Vacuum

**Unit for highly filled and abrasive,  
non-viscous material**

filling	
evacuating	<b>No breaks !</b>
tempering	<b>No bubbles !</b>
feeding	<b>No risk !</b>
dispensing	

## Material preparation and -feeding A300

Application area:

- fluid (self-levelling) till ductile viscous resins as well as
- highly filled resins
- abrasive resins
- sensitive 2-module resins

- ✓ consistently bubble-free and high quality dispensing
- ✓ adaptive to any material and / or application
- ✓ homogenisation
- ✓ heating
- ✓ circulation
- ✓ vacuum



## Material preparation and -feeding A300

### Evacuate

- moisture, air and nitrogen are kept away from materials
- the vacuum is kept constant during production time and breaks



### Moderate temperature

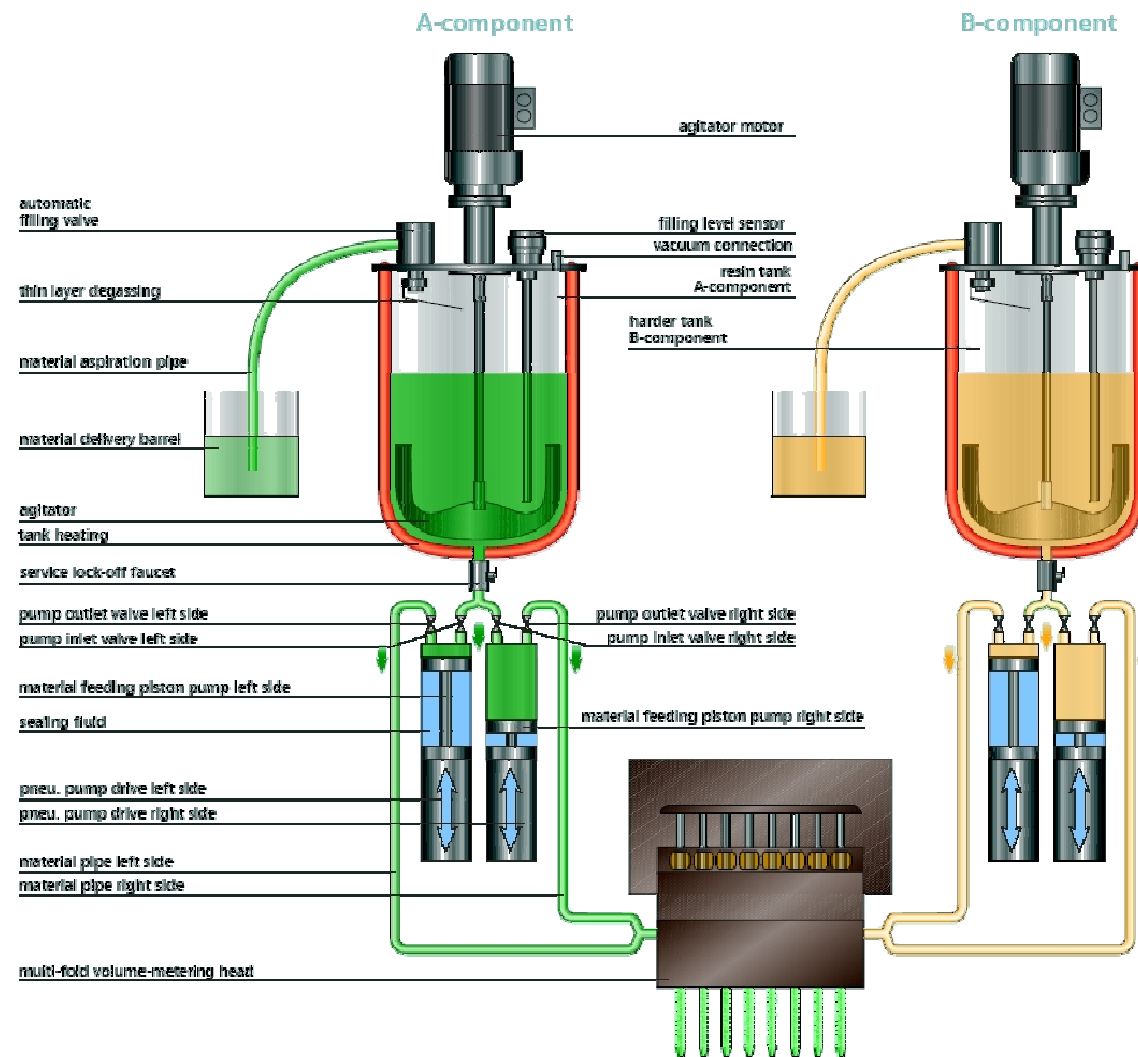
- decrease of the viscosity, higher flow speed, shorter cycle times, quality improves
- no influence through seasonal changes (temperature)

## Material preparation and -feeding A300

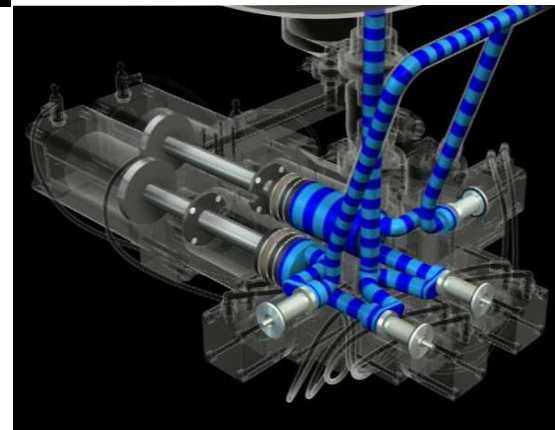
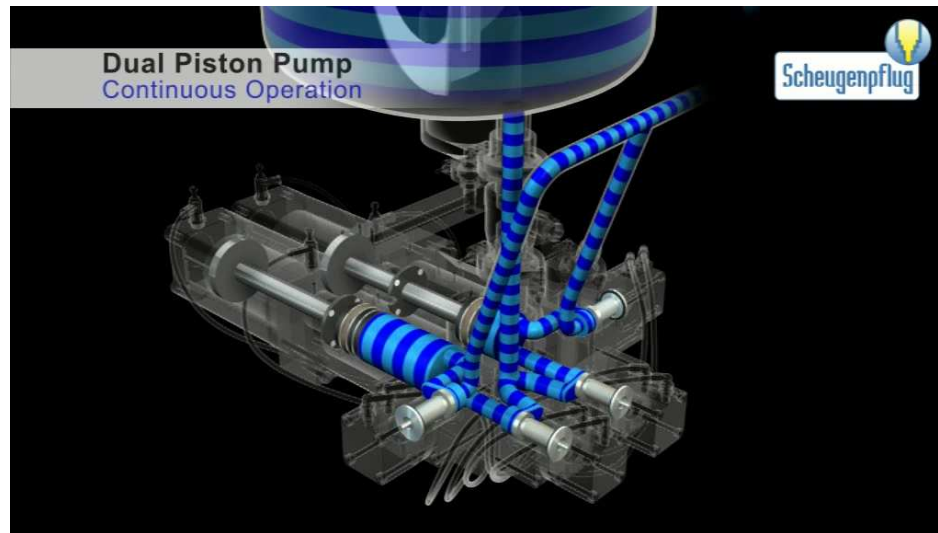
- **Homogenize**  
agitating and circulating the components for even filler distribution
- **Material filling**  
by automatic filling valves and material suction pipe during production



# Principle metering process (schematic representation)

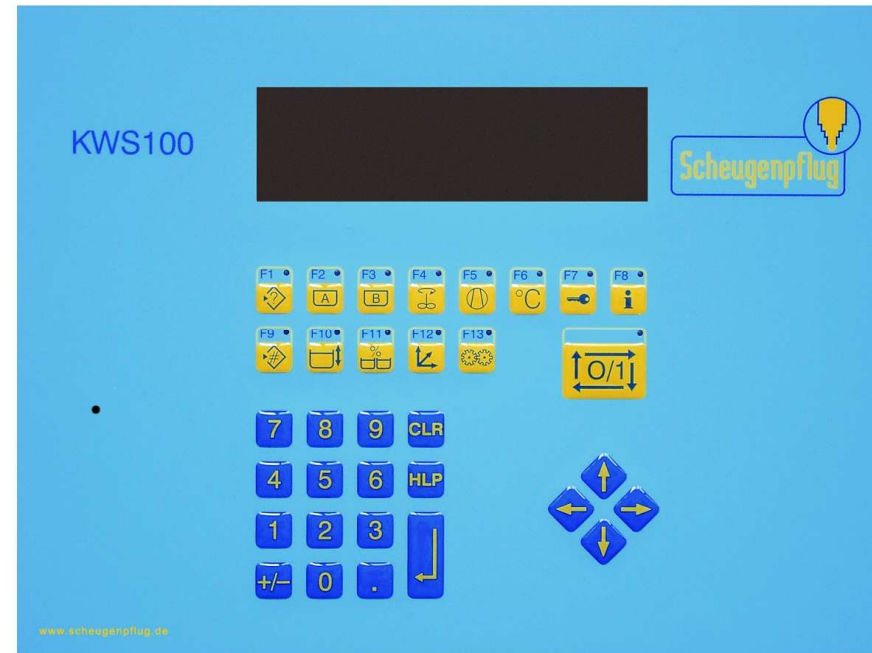


## A300 - piston pump for feeding



## A300 - Controller

### Scheugenpflug Microcontroller/ operator panel



## A300 – process reliability

### Poka Yoke

This system of error prevention warrants high process reliability and a reduction of expenses.



## Dos A300

### Definition Dos A300

The basic version is a manual work station consisting of a material feeding with an integrated controller and a dispenser on frame.



Vacuum dispesing

## Scheugenpflug Dos A300

Versions: Atmosphere - dispensing units



Dos A300 -manual work station

rising  
automation  
level



Dos A300 -CNC Cell Desktop

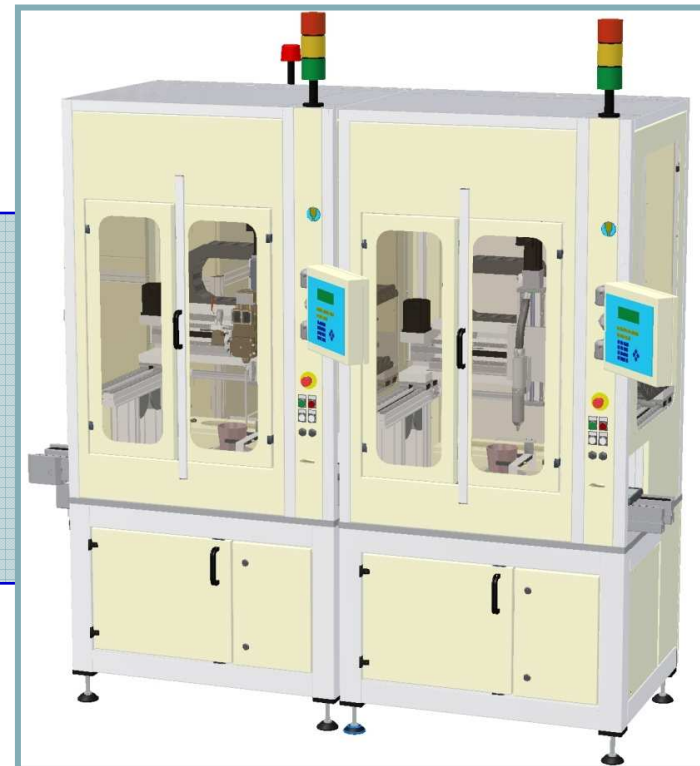
# Scheugenpflug Dos A300

Versions: Atmosphere - dispensing units



Dos A300 - CNC Cell stand alone

rising  
automation  
level



DosA300 - CNC Cell In-line

# Scheugenpflug Dos A300

Versions: Vacuum - dispensing units



Dos A300  
-vacuum dispensing unit Desktop

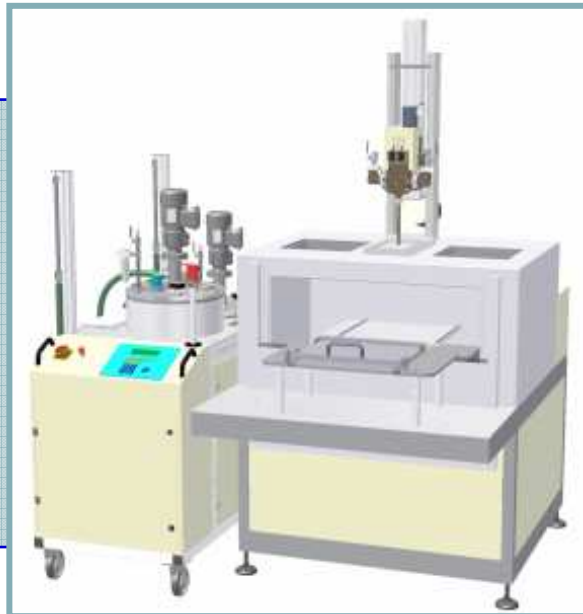
rising  
automation  
level



Dos A300  
-vacuum dispensing unit ECO

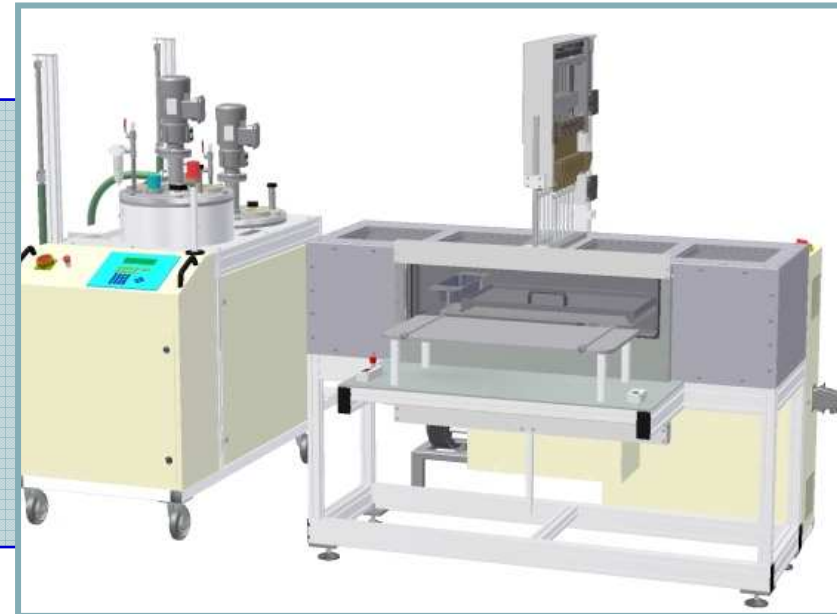
# Scheugenpflug Dos A300

Versions: Vacuum – dispensing units



Dos A300  
-vacuum dispensing unit Universal

rising  
automation  
level



Dos A300  
-vacuum dispensing unit Power

*Thank you very much for your attention*



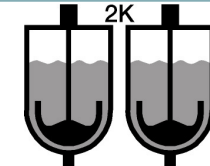
*BACK UP*

## Scheugenpflug A300

Plant especially developed for the handling of fluid, self-levelling, highly filled and abrasive materials.



Material preparation



Material preparation



## Scheugenpflug A300

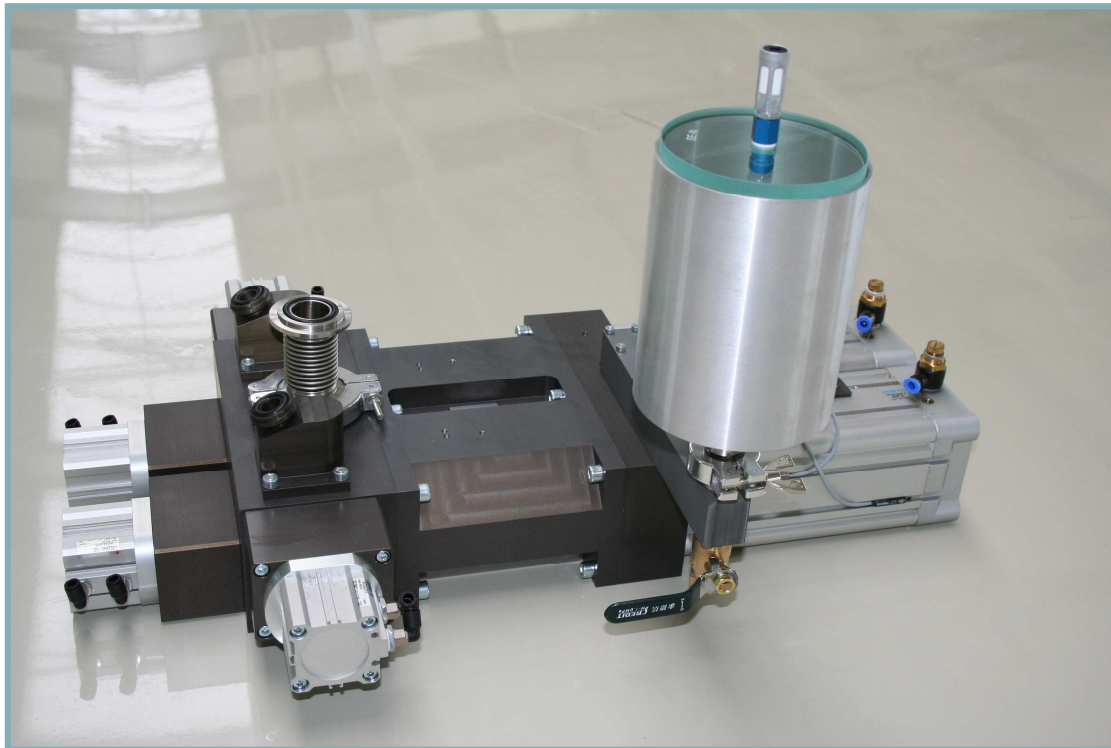
### Advantages

- ✓ consistently bubble-free and high quality dispensing → highest quality
- ✓ adaptive to any material and / or application
- ✓ homogenisation
- ✓ heating
- ✓ circulation
- ✓ vacuum



# Scheugenpflug A300

## Details

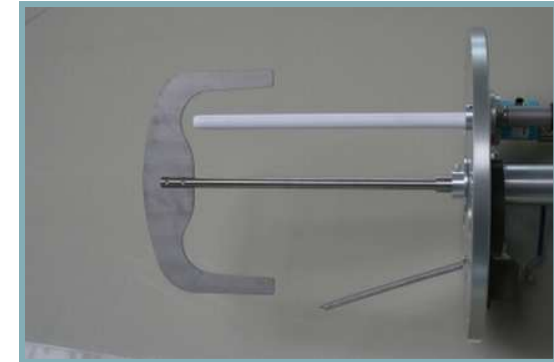


Double piston pump

# Scheugenpflug A300

Topic:

Agitator



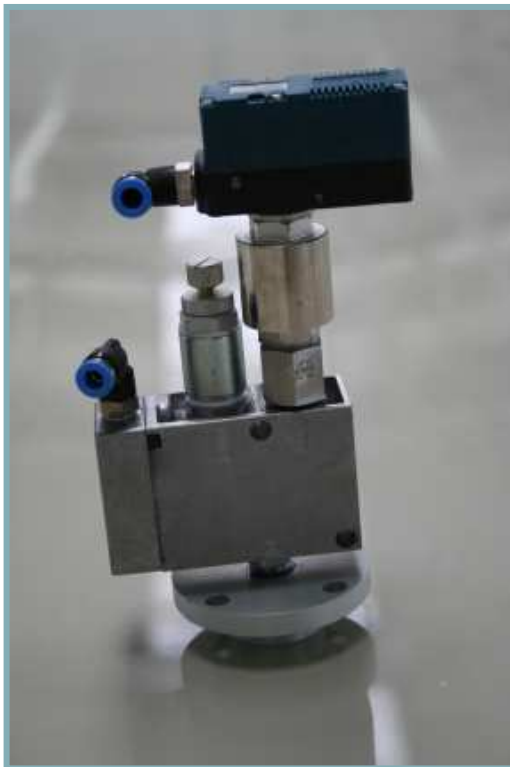
Inspection glass



Material container

## Scheugenpflug A300

Topic: Vacuum



Ejector



Vacuum pump

## Scheugenpflug A300

Topic: Vacuum



Vacuum sensor



Vacuum trap



Digital limit level sensor

# Scheugenpflug A300

## Topic: Filling



Aspirating hose with lance



Manual with ball cock

**alternative:**

Automatic ball valve



Filling level sensor

## Scheugenpflug A300

Application: Plug & Work



Detail view