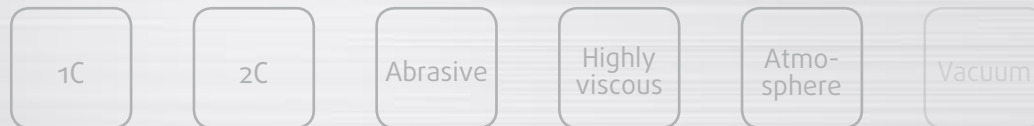




SCHEUGENPFLUG AG
METERING AND DISPENSING TECHNOLOGY

Material Preparation and Feeding 04 | 13

MATERIAL FEEDING UNIT A280



**PATENTED
VACUUM BARREL FOLLOWER
PLATE**

Prevents unnecessary material
consumption during barrel change-over

Continuous material flow thanks to
smoothed surface

No extra vacuum chamber needed

No manual evacuation necessary

**FULLY AUTOMATED
DOCKING PROCEDURE**

Docking takes less than 5 minutes

STURDY DOUBLE PISTON PUMP

Continuous feeding of highly abrasive
dispensing materials

**ERGONOMIC BARREL
CHANGE-OVER**

Slide-out hobcock drawer

**CONTROL UNIT
SCHEUGENPFLUG SCP200**

Simple operation through self-
explanatory controls on touch screen
display

MATERIAL FEEDING UNIT A280



Material feeding
unit A280
two component



Material feeding unit A280



MATERIAL FEEDING UNIT A280

Rugged Material Feeding Unit for Highly Abrasive Dispensing Media With High Viscosity. Loading of Material From 20-Litre Drums With the Patented Scheugnpflug Barrel Follower Plate.

The barrel (hobcock, pail) is positioned on the ergonomic hobcock drawer. After closing the safety door, the operator initiates docking via the controls. This lowers the vacuum barrel follower plate into the drum where the follower plate attaches itself onto the material surface without trapping air. The double piston pump of the A280 is optimised for highly viscous and highly abrasive dispensing media. The pump piston pushes the dispensing material away from itself, which brushes abrasive particles off of the cylinder wall. Rinsing and sealing liquids used on the reverse of the piston help to minimise wear and tear. The abrasive fillers are constantly washed away from the sealing surface.

Used for | Materials:

- One and two component
- Highly viscous
- Highly abrasive
- Highly filled

Usage:

Material feeding e.g. for applying thermally conductive pastes

Equipment:

- SCP200 Control Unit
- Double piston pump with integrated rinsing liquid tank
- Loading drawer with centring unit
- Vacuum system for barrel follower plate
- Filling level monitoring
- Accepts 20-litre single-use drums or barrels (hobbocks, pails, drums, barrels)

Optional:

- Barcode scanner for barrel tracking
- Air conditioner

Set-up example:

Manual work station Dos A280 comprising material feeding unit A280 and piston dispenser (two component, 1 nozzle) on stand

Possible Uses and Configurations:

- Can be configured as manual work station with a tabletop stand, or it can be placed in a production cell and/or integrated in a full production line.
- Dos P Series (piston dispenser)
 - CNCell systems

Technical Data:

- W x H x D (1C) 900 x 1850 x 700 mm
- W x H x D (2C) 1500 x 1850 x 700 mm
- Weight: 230 kg (1C)
390 kg (2C)
- Power supply: 3~ 400 V, 50/60 Hz, CEE 16 A
- Drums:
 - Inner diameter 285 mm
 - Outer diameter (base) 305 mm
 - Maximum height 420 mm
- Feeding volume per stroke: 294 cm³



PREVENTION OF UNNECESSARY MATERIAL CONSUMPTION

No contamination with encrusted material residues from previously used drums or barrels (disposable product)

Minimal material waste per barrel change

Nearly complete emptying of drums and barrels

BUBBLE-FREE DOCKING

Ultimate process reliability

RAPID BARREL CHANGE-OVER

Fully automated docking

No mechanical removal of product residues needed

No manual evacuation necessary during barrel change-over

VACUUM BARREL FOLLOWER PLATE FOR A220/A280

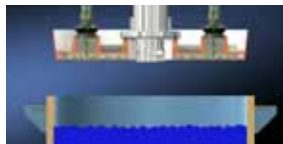


Intelligent Investment for Ongoing Production Cost-Effectiveness.

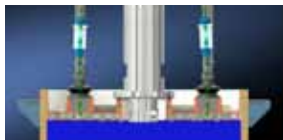
The patented vacuum barrel follower plate is used in the Scheugenpflug A220 and A280 systems. It was developed specifically for feeding highly viscous dispensing media directly from a hobcock or drum. Compared to conventional barrel follower plate systems the Scheugenpflug barrel follower plate prevents air from being absorbed during the docking procedure. At the same time, the material surface is smoothed, which further helps to stabilise the material flow. This way, flaws are prevented already at the beginning of the process chain.

The barrel follower plate is made of polyethylene (PE), which guarantees sliding and manufacturing characteristics that are convincingly supportive to the production process. In addition, PE shows superior surface compatibility with the most frequently used dispensing media.

The specially designed A220/A280 systems supply highly viscous media.



The vacuum barrel follower plate attaches itself perfectly to the material in the hobcock.



The air trapped between the plate and the surface of the dispensing material is removed through the plate by a vacuum pump. This way, air can no longer enter into the dispensing material and into the feeding process.

At the same time the material surface is levelled, which facilitates a constant flow of the dispensing mass. The dispensing material is pressed through the opening in the middle and into the supply lines. A controlled filling level measurement system ensures that the container is emptied completely.

	Conventional BFP	Scheugenpflug pat. Vacuum Barrel Follower Plate (A220 / A280)
Material waste during evacuation	0.50 kg (100%)	0.05 kg (10%)
Residual material in barrel	1.00 kg	0.10 kg
Total material waste per barrel change	1.50 kg	0.15 kg
Costs for material waste per barrel change (at a reasonable price of € 25/kg)	38.00 €	4.00 €
Costs for disposable vac. follower plate	0.00 €	7.33 €
Total waste costs per barrel change	38.00 €	11.33 €
1 barrel change per day, 221 days a year	8,398.00 €	2,503.93 €
Total potential savings with the vacuum barrel follower plate each year		5,894.07 €

Price reductions based on order volume available!

CONSISTENT MATERIAL QUALITY

Independent of the size of the production batch

Ultimate process reliability

MINIMAL MATERIAL WASTE

Using stored resins is possible without limitations thanks to degassing during the process

DEGASSING AND FEEDING UNIT A90 D



A90 D
Degassing
Stand-Alone



A90 D
Degassing
Backpack

Highest Requirements for the Manufactured Parts Need Absolutely Air-Free Dispensing Material.

Preventing air bubbles in the dispensing process increases production quality. Air bubbles trapped in the material during storage, transportation or filling by the manufacturer considerably increase the risk of faulty dispensing. Ideally, highly viscous dispensing materials must be bubble-free when they are extracted from the drum.

Optional:

Stand-Alone Degassing

In stand-alone operation, the degassing unit loads dispensing material from any sort of barrel, drum, tank, hose or cartridge. Then, the bubble-free material is fed into the metering and dispensing unit or filled in cartridges.

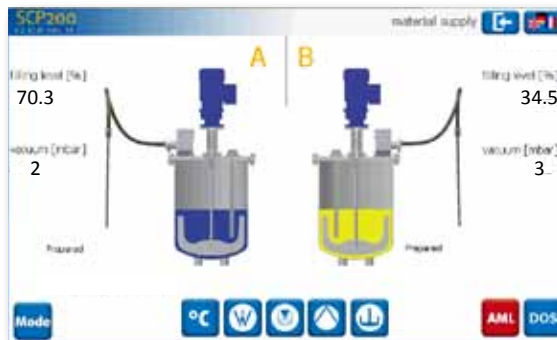
Backpack Degassing

When operated in backpack mode, the degassing unit is integrated in an A220 or A280 material preparation system. The vacuum barrel follower plate prevents air from being sucked in during feeding. The dispensing material is pumped from the hobcock, transported through the degassing unit and then processed further. This type of downstream degassing removes all residual air that was trapped in the material.

Air bubbles in the dispensing material adversely affect dispensing quality. They must be removed before the material is metered and dispensed. In a process commonly known as thin-film degassing air bubbles trapped in the material are removed using a piston pump and an applied vacuum.

CONTROL UNIT SCP200

Control Unit for Material Preparation and Feeding Units and for Manual Work Stations.



All material preparation and feeding systems as well as the manual work stations are equipped with the specially designed micro-computer controller SCP200. It monitors and controls all steps of the production process, from the docking of the follower plate, over the feeding of the dispensing material into the system, to the actual metering and dispensing itself. Operation is purely intuitive, i.e. a brief instruction of operators during the first equipment start-up is usually enough training. The SCP200 makes it easy to fulfil monitoring, maintenance and analysis tasks and thus helps the operator to perform all production processes quickly and flawlessly. All process relevant data are constantly displayed to the operator. If additional modules are added to the system, such as e.g. an agitator unit or a heater, the necessary interfaces are already included in the control unit. It is possible to switch between several languages during full operation.

The Benefits:

- Intuitive operation, plug&play
- Full-graphics display
- DIN ISO 9241 compliant 7" touch screen display
- Online language selection (DE, EN, FR, IT, NL, BG, PL, ES, CZ, HU, TR, SL, PT, RO, RU)
- USB interface
- Remote control
- Customisable user access rights

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