



SCHEUGENPFLUG AG  
METERING AND DISPENSING TECHNOLOGY

Material Preparation and Feeding 04 | 13

# MATERIAL PREPARATION AND FEEDING UNIT A310 | A310 TP

---



## BUBBLE-FREE MATERIAL SUPPLY

Ultimate dispensing quality

Degassing of the dispensing material by simultaneous evacuation and stirring

## HIGH PROCESS RELIABILITY

Self-calibrating filling level sensor, ultimate process monitoring and testing efficiency

Prevents the sedimentation of filler materials

## UNINTERRUPTED PRODUCTION

Standstill times have no adverse effects on the dispensing material quality. The dispensing media can be used immediately after production breaks

## CONTROL UNIT SCHEUGENPFLUG SCP200

Simple operation through self-explanatory controls on touch screen display



### Agitator:

Stirring and circulating the dispensing material, also during production breaks, prevents sedimentation of filler materials. This keeps the properties of the dispensing material components at a constant level. In addition, the stirring motion also helps to raise trapped air bubbles to the surface and accelerates the degassing of the material.

# MATERIAL PREPARATION AND FEEDING UNIT A310



Material preparation  
and feeding unit A310



## MATERIAL PREPARATION AND FEEDING UNIT A310

### Material Preparation and Feeding Unit for Self-Levelling Dispensing Media.

The all-round system A310 simultaneously prepares the dispensing material while loading it from the barrel. Temperature control also helps to optimise the viscosity of the dispensing medium. The applied vacuum evacuates air trapped in the material already during preparation. Degassed material is required for a bubble-free dispensing process. Circulating the dispensing material continuously prevents sedimentation of the contained filler materials and keeps the properties of the dispensing material components at a constant level. The stirring intensity is adjusted to the dispensing material being prepared.

#### Used for Materials:

- One and two component
- Liquid to medium viscous
- Non-abrasive to highly abrasive
- Non-filled to highly filled

Ideal for moisture-sensitive dispensing media or materials which need to be processed under vacuum. Also suitable for chemically ultra-pure casting resins.

#### Usage:

Material preparation and feeding as well as homogenisation and degassing for e.g. potting, saturating, dam&fill, filling and sealing of coiled products, sensors, PCBs and much more.

#### Equipment:

- SCP200 Control Unit
- Filling level monitoring
- Threshold value sensor
- Vacuum generated by an ejector pump
- Visual tank inspection thanks to long-life LED illumination ring
- Automatic absorption without production interruption

#### Optional:

- Vacuum generated by a rotary vane pump at a pressure range between 5 mbar and under 1 mbar final pressure
- Material circulation
- Correct heating of the material tank and of all machine parts that lead dispensing material
- Fast degassing
- Tank agitator
- Tank sizes 60, 20 and 5 litres

#### Possible Uses and Configurations:

Can be configured as manual work station with a tabletop stand, or it can be placed in a production cell or vacuum dispensing system and/or integrated in a full production line.

#### Technical Data:

- W x H x D (1C-60 l) 700 x 1950 x 1000 mm
- W x H x D (2C-60/60 l) 700 x 1950 x 1400 mm
- Weight: 240 kg (1C-60 l)  
400 kg (2C-60/60 l)
- Feeding volume: 250 ml/stroke
- Power supply: 3~ 400 V, 50/60 Hz, CEE 16 A
- Ejector evacuation power: 12 l/min (at 6 bar)
- Vacuum pump evac. power: 242 - 283 l/min
- Heating capacity: up to 80°C
- Peripheral speed of agitation blade: 39 rpm
- Tank heater power: (230 V) approx. 1000 W

## HIGH PROCESS RELIABILITY

Self-calibrating filling level sensor, advanced process monitoring and testing efficiency

## LOW MAINTENANCE

Optimised line routing and rugged pump system

Our maintenance concept is designed to make pump replacement as easy as possible

## CONTROL UNIT

SCHEUGENPFLUG SCP200

# MATERIAL PREPARATION AND FEEDING UNIT A310 TP

**Preparation and Feeding Unit for Processing Under Vacuum of Demanding Dispensing Material With Higher Viscosity but Still Self-Levelling.**

Usually, a barrel follower plate is used to draw highly viscous dispensing material from the supplied barrel. In this case, however, it is not possible to stir, i.e. prepare the material prior to dispensing. Therefore, the A310 TP (Top Pump) has been designed to prepare and feed demanding, highly viscous dispensing material in vacuum environments.

### Used for Materials:

- One and two component
- Medium to higher viscous
- Non-abrasive to highly abrasive
- Non-filled to highly filled

### Usage:

Applying of material beads and sealants; for sealing sensor arrays, PCBs, housings, control units, dam&fill applications and so on.

It is also capable of processing in a vacuum.

### Equipment:

Similar to A310

### Optional:

Similar to A310

- Tank sizes 20 and 5 litres

### Technical Data:

- W x H x D 800 x 1800 x 1050 mm
- Feeding volume: 58 ml/stroke
- Peripheral speed of agitation blade:
  - 20 litres 39 rpm
  - 5 litres 45 rpm (50 Hz) / 54 rpm (60 Hz)



A310 TP

The feed pump is integrated in the material tank. This configuration assists the pump in transporting the highly viscous dispensing material with its limited flowability into the dispenser after it has been evacuated or prepared.

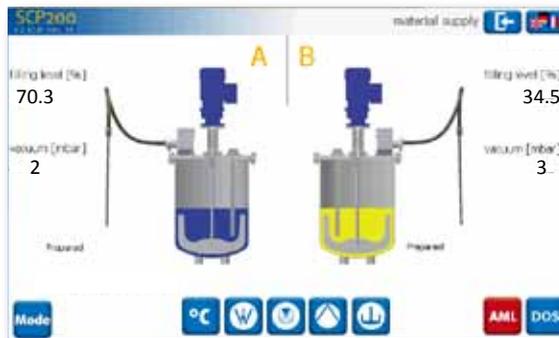


A310 TP-TT  
(Top-Tank-Model)

The A310 TP-TT model has a docking point at the top where the smaller of the available material containers with up to approx. 5 litres/8 kg can be mounted. The arrangement is called Top Tank Array and allows connecting the containers directly to the system. This method simply uses the material's weight to let gravity pull it into the material tank or preparation unit.

## 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

#### GERMANY

Scheugenpflug AG  
Gewerbepark 23  
93333 Neustadt a. d. Donau

Phone +49 9445 9564 0  
Fax +49 9445 9564 40

vertrieb.de@scheugenpflug.de  
www.scheugenpflug.de

#### CHINA

Scheugenpflug Resin Metering  
Technologies Co., Ltd.  
1st Floor, BLK 3  
No 35 Hong Feng Road  
Suzhou 215021

Phone +86 512 676 187 76  
Fax +86 512 628 828 18

info@scheugenpflug.com.cn  
www.scheugenpflug-china.com

#### USA

Scheugenpflug Inc.  
975 Cobb Place Boulevard,  
Suite 218  
Kennesaw, Georgia 30144

Phone +1 770 218 0835  
Fax +1 770 218 0931

sales.usa@scheugenpflug-usa.com  
www.scheugenpflug-usa.com

## SALES PARTNERS

#### BENELUX

Exmore Benelux bvba  
Ketelaarstraat 8  
2340 Beerse

Phone +32 14 618 666  
Fax +32 14 618 675

info@exmore.com  
www.exmore.com

#### ITALY

ATRA S.r.l  
Via Roveredo 1/A  
Z.I. Paradiso  
33170 Pordenone

Phone +39 434 550 882  
Fax +39 434 555 974

info@atra.it  
www.atra.it

#### RUSSIA

Ostec Enterprise Ltd.  
Moldavskaya str. 5/2  
121467 Moscow

Phone +7 495 788 44 44  
Fax +7 495 788 44 42

info@ostec-smt.ru  
www.ostec-smt.ru

#### CZECH REPUBLIC / SLOVAKIA

AMTECH spol. s r. o.  
Palackého třída 153b  
621 00 Brno

Phone +420 541 225 215  
Fax +420 541 228 285

amtech@amtech.cz  
www.amtech.cz

#### KOREA

ETC CO.,LTD.  
Daehyun Techno-World. # 1206  
174 Ohjeon-Dong, Uiwang-Si,  
Kyunggi-Do, Korea (437-753)

Phone +82 31 427 2530  
Fax +82 31 427 1781

wblee@etcco.kr  
www.etcco.kr

#### SPAIN

SINUTECH, S.A.  
Sistemas Industriales  
Votregà, 3  
08570 Torelló (Barcelona)

Phone +34 938 592 757  
Fax +34 938 592 654

dosificacion@sinutech.es  
www.sinutech.es

#### HUNGARY

ELAS Kft.  
Diófa u. 130  
1162 Budapest

Phone +36 1 222 6439  
Fax +36 1 220 9401

elas@elas.hu  
www.elas.hu

#### POLAND

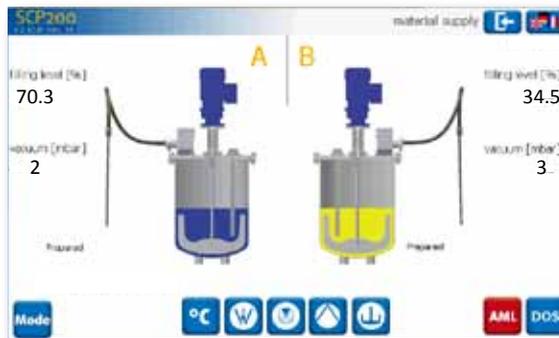
TechSpeed Bendkowski, Mazur Sp.j.  
ul. Stawowa 4  
PL41-214 Sosnowiec

Phone +48 32 263 19 68  
Mobile +48 695 330 363  
Fax +48 720 20 94

office@techspeed.pl  
www.techspeed.pl

## 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