

A310 More than just preparation

All-rounder

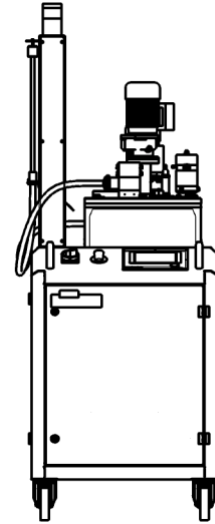
The A310 stands for optimised preparation and delivery of different materials, like silicone, epoxy or polyurethane resins.

Protection against outside influences

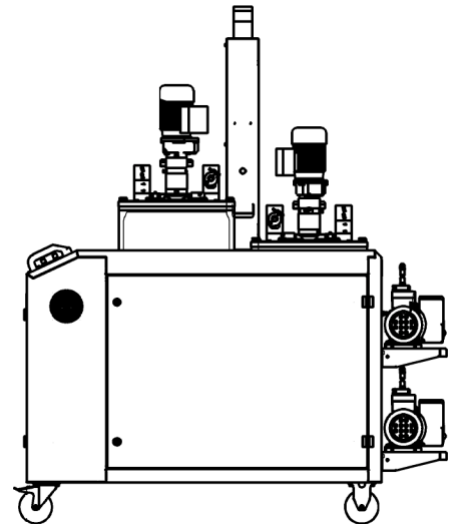
By vacuum the A310 protects the material hermetically against air or humidity and furnishes thus the ideal condition for bubble free casting.

No failures by accumulation

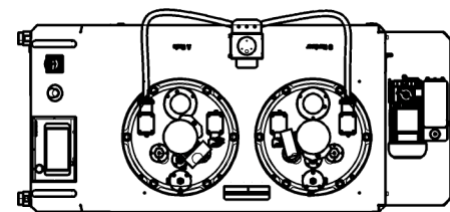
Due to the circulation of the material, also when the production is stopped, sedimentation of particulate material can be reliably avoided.



Side view



Front view



Bird's eye view



A310

Basic equipment and options

60 / 60	I
60 / 45	II
45 / 45	III
60 / 20	IV
45 / 20	V
20 / 20	VI

basic configuration - complete system	I	II	III	IV	V	VI
frame, powder coated RAL 9002	•	•	•	•	•	•
- 2 sideways, single-wing doors	•	•	•	•	•	•
- integrated frontside cabinet with single-wing door	•	•	•	•	•	•
- cabletower with signal lamp, single coloured, red	•	•	•	•	•	•
- 2 handles, black	•	•	•	•	•	•
- 2 front wheels, steerable, with parking brake	•	•	•	•	•	•
- 2 back wheels, fixed	•	•	•	•	•	•
main pneumatics unit consisting of filter unit, main pressure controller, and pressure controlling unit	•	•	•	•	•	•
main switch	•	•	•	•	•	•
quick stop button	•	•	•	•	•	•

basic configuration - components A and B	I	II	III	IV	V	VI
acid-resistant aspiration hose with aspiration lance including holder, end cap and automatic aspiration valve	•	•	•	•	•	•
material tank, stainless steel	•	•	•	•	•	•
- material outlet below	•	•	•	•	•	•
- 1x dummy plug	•	•	•	•	•	•
- 1x bellow and butterfly valve with a small flange connection	•	•	•	•	•	•
tank cover, anodized aluminium	•	•	•	•	•	•
- inspection glass, including LED- ring shaped illumination	•	•	•	•	•	•
- auto calibration level Sensor	•	•	•	•	•	•
- digital overflow protection, limit value sensor	•	•	•	•	•	•
- vacuum valve and ventilation valve	•	•	•	•	•	•
- vacuum sensor	•	•	•	•	•	•
material piston pump (single), including P- / E- Box and washing fluid reservoir	•	•	•	•	•	•

agitator, components A and B (homogenisation)	I	II	III	IV	V	VI
agitator component A (resin)	○	○	○	○	○	○
agitator component B (hardener)	○	○	○	○	○	○

Material Preparation and Feeding Unit A310 2C

temperature control unit	I	II	III	IV	V	VI
material tank component A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
material tank component B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
material piston pump (single) component A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
material piston pump (single) component B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
material piston pump (double) component A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
material piston pump (double) component B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
double - hose with fabric plies (heatable) for circulation mode, component A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
double - hose with fabric plies (heatable) for circulation mode, component B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
aspiration hose component A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
aspiration hose component B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

vacuum device for components A and B	I	II	III	IV	V	VI
air ejector component A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
air ejector component B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
rotary vane vacuum pump component A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
rotary vane vacuum pump component B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

material feeding	I	II	III	IV	V	VI
material piston pump (double) component A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
material piston pump (double) component B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

material supply and delivery, component A	I	II	III	IV	V	VI
material combination pipe, material - circulation mode, pump internal	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
steel mesh hose, up to metering device	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
stop valve for material tube	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
double - steel mesh hose for circulation mode	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
double - hose with fabric plies (heatable) for circulation mode	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
circulation valve on the tank cover (only if material piston pump (single) is installed)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
200 litre barrel (longer aspiration lance)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
200 litre barrel agitator station	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

material supply and delivery, component B	I	II	III	IV	V	VI
material combination pipe, material - circulation mode, pump internal	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
steel mesh hose, up to metering device	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
stop valve for material tube	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
double - steel mesh hose for circulation mode	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
double - hose with fabric plies (heatable) for circulation mode	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
circulation valve on the tank cover (only if material piston pump (single) is installed)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
200 litre barrel (longer aspiration lance)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
200 litre barrel agitator station	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Material Preparation and Feeding Unit A310 2C

main pneumatic unit	I	II	III	IV	V	VI
service unit	•	•	•	•	•	•
- filter with automatic condensate separator	•	•	•	•	•	•
- main pressure reducing valve with pressure switch and digital pressure reading	•	•	•	•	•	•
- pressure reducing valve, material feeding pressure component A	•	•	•	•	•	•
- pressure reducing valve, material feeding pressure component B	•	•	•	•	•	•
- pressure reducing valve, material feeding pressure external	•	•	•	•	•	•

control unit	I	II	III	IV	V	VI
Scheugenpflug microcontroller with full graphics touch display and integrated USB-port	•	•	•	•	•	•
power control module 1 for 2 material container agitators	(1)	(1)	(1)	(1)	(1)	(1)
power control module 2 for 2 rotary vane vacuum pumps	(1)	(1)	(1)	(1)	(1)	(1)
power regulator module 1 for 2 material container heating	(1)	(1)	(1)	(1)	(1)	(1)
power regulator module 2 for 4 hoses with fabric plies heating	(1)	(1)	(1)	(1)	(1)	(1)
power regulator module 3 for 2 x 2 heating	(1)	(1)	(1)	(1)	(1)	(1)

user language	I	II	III	IV	V	VI
German, English, French, Italian	•	•	•	•	•	•
Spanish, Hungarian	○	○	○	○	○	○
Chinese	○	○	○	○	○	○

documentation operators / maintenance manual, spare / wear parts list	I	II	III	IV	V	VI
German	•	•	•	•	•	•
English	○	○	○	○	○	○
French, Italian, Spanish, Hungarian, Chinese	◼	◼	◼	◼	◼	◼

caption

- = not available
- basic equipment
- alternative equipment
- ◼ on request
- (1) in combination with options
subject to engineering changes

Technical data

dimension data 2c	model						
		60/60	60/45	45/45	60/20	45/20	20/20
length	mm	1400	1400	1400	1400	1400	1400
length with vacuum assembly	mm	1600	1600	1600	1600	1600	1600
width	mm	700	700	700	700	700	700
height	mm	1950	1950	1950	1950	1950	1950
height control cabinet	mm	1030	1030	1030	1030	1030	1030
height vacuum assembly	mm	900	900	900	900	900	900
wheel diameter	mm	125	125	125	125	125	125
ground clearance	mm	150	150	150	150	150	150
length of side doors	mm	985	985	985	985	985	985
length of cabinet door	mm	600	600	600	600	600	600
weight (basic equipment)	kg	400	390	385	385	380	375

connecting data		2c
compressed air	bar	6
maximum compressed air consumption ⁽¹⁾	l/min	20
maximum compressed air consumption ⁽¹⁾	NI/min	140
maximum compressed air consumption ⁽²⁾	l/min	27
maximum compressed air consumption ⁽²⁾	NI/min	185
power supply		400V 3PE AC 50-60Hz
connection load	kVA	max. 7,5

container - vacuum (degassing)		
rotary vane vacuum pump I		
evacuation power	m ³ /h	14,5 - 17
vacuum - final pressure	mbar	2
air ejector		
evacuation power at 6 bar	l/min	12
recommended final pressure	mbar	250

container - agitator (homogenisation)		
motor power	W	180
gearing		33, 69:1
agitator rotational speed	1/min	39

container - aspiration hose with aspiration lance		NW13	NW20	NW25
inner diameter	mm	11	17	21
hose length	mm	1000	1000	1000
lance length	mm	500	500	500
heatable up to	°C	80	80	80
heating power 230V~	W	160	260	330

Material Preparation and Feeding Unit A310 2C

material - container		20	45	60
container total volume	l	26,5	50	65
container inner diameter	mm	294	362	362
heatable up to	°C	80	80	80
heating power 230V~	W	1000	1000	1000
container lighting	V / W	24/8	24/8	24/8
viewing glass - diameter	mm	75	75	75

material tube length ⁽³⁾ (not heatable)	mm	3000	4000	5000	6000
steel mesh hose inner - Ø	mm	10	10	10	10
steel mesh hose inner - Ø	mm	16	16	16	16

material tube length ⁽³⁾ (heatable)	mm	3000	4000	6000
hose with fabric plies (heatable) inner - Ø	mm	13	13	-
heating power 230V~	W	480	640	-
hose with fabric plies (heatable) inner - Ø	mm	-	16	16
heating power 230V~	W	-	800	1200
heatable up to	°C	80	80	80

material feeding - double piston pump		
cubic capacity per cylinder	cm ³	294
stroke / drilling	mm	104/60
material feeding pressure at 2 bar pneumatic working pressure	bar	3,55
material feeding pressure at 4 bar pneumatic working pressure	bar	7,1
material feeding pressure at 6 bar pneumatic working pressure	bar	10,7
needed washing fluid	ml	500
heatable up to	°C	80
heating power 230V~	W	250
weight	kg	16

caption

= not available

- ⁽¹⁾ with vacuum pump; Equipment: two material pumps per component (8 sec. / stroke)
- ⁽²⁾ with ejector pump; Equipment: two material pumps per component (8 sec. / stroke)
- ⁽³⁾ length and diameter depending on dispensing material / viscosity

subject to engineering changes