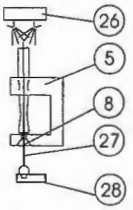
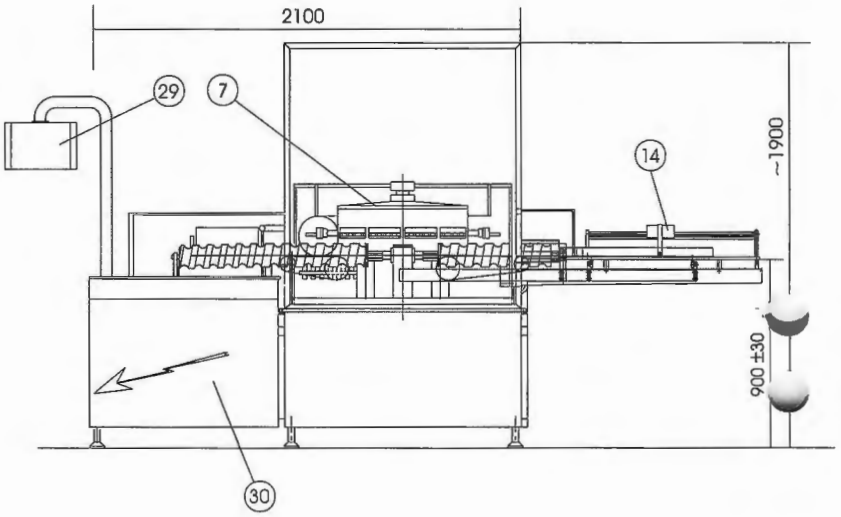
Model RW 50-300

Standard Features:

- Infeed magazine or turntable
- Interlocking safety cabinet
- PLC (Siemens S7) with operator interface and display
- Outfeed magazine
- 7 washing stations
- Washing circuits with filter housings
- Air blowing circuit with filter housing
- Filter integrity
- All pipework electro polished
- Tri-clamp pipe connections
- All wetted parts self-draining and made of stainless steel 316L
- Design in compliance with GMP/GAMP and FDA requirements





Notation

1	Infeed magazine or turntable
2	Infeed screw
3	Pusher plate
4	Intermediate star wheel at infeed
5	Transportation pincers
6	Pincer holder
7	Turret
8	Needle centering device for ampoules
9	Intermediate star wheel at outfeed
10	Outfeed screw
11	Outfeed channel
12	Outfeed magazine
13	Discharge tray
14	Pusher plate outfeed
15	Outfeed to sterilisation tunnel
16	Vessel for recycling water
17	Pump

Notation

18	Filter housing
19	Vessel for silicone emulsion
20	Pump
21	Filter housing
22	Plate
23	Supply connection for e.g. WFI
24	Supply connection for air
25	Supply connection for e.g. demi-water
26	Holder for jets for outside washing
27	Needles for inside washing
28	Needle holder for inside washing
29	Operator interface
30	Electric cabinet
31	Filling from above
32	Ultra sonic generator
33	Transfer system with pincers

(Some of the details are not shown on the drawing, but can be found later in the machine description).

Technical Data

1. Standard Equipment:

Infeed magazine with metal belt made from1.4301 stainless steel or a turntable (recommended only when stable containers are processed).

Outfeed magazine made to fit the tray size of the customer.

7 washing stations for inside and outside washing and air blowing, adapted to the cleaning process requirements of the customer.

One set of change parts for one container size is included with the basic machine.

Universal pincers on the turret to transport the containers, suitable for neck sizes 4 - 21 mm.

Motorised needle stroke adjustment.

Motorised needle working height adjustment.

Motorised adjustment of the pincer height (turret).

PLC Siemens S7 with operator interface OP 7.

Self-diagnosis system.

Container counter.

Interlocking safety cabinet.

Designed according to GMP, GAMP, and FDA requirements.

IQ/OQ compatible.

2. Materials:

Machine frame made from stainless steel profiles with special painting.

Machine plate made from aluminium with lining from 316L stainless steel.

Panels made from 1.4301 stainless steel.

All parts above the machine plate are made from 1.4571 stainless steel or anodised aluminium.

The frame of the safety cabinet made from 1.4571 stainless steel, the doors are acrylic glass and have an interlocking safety system.

Change parts are made from Delrin.

All cleaning water/solution contact pipework is made from 316L stainless steel, mirror polished inside and outside.

All pipework is self-draining.

Pipework for blowing the air supply is made from Teflon.

3. Application / Dimensions:

Electricity: 400 V/50 Hz/3-phases.

Infeed magazine:
Width max. 310 mm
Length 490 mm.

Ultrasonic generator:
2 kW/22 KHz
Max. 180 sec.

Outfeed magazine adjusted to the process trays.

Machine dimensions:
3240 x 2370 x 1900 mm.

Crate dimensions:
3500 x 2000 x 2200 mm.

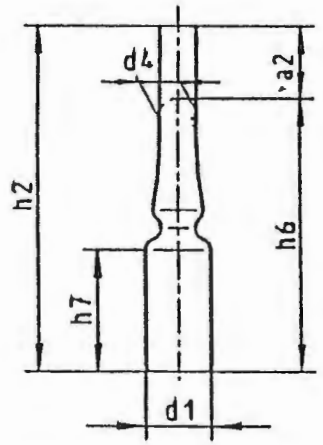
Weight (Land/Sea):
1 800 kgs, net weigth,
2900 kgs, gross weight.

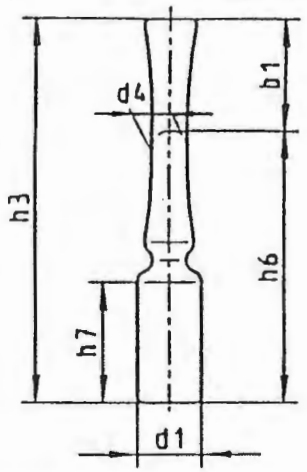
Technical Data

Model RW		**50**	**100**	**180**	**240**	**300**
Pincer holders/pincers		12/12	12/24	12/36	12/48	12/60
Mechanical output/min.	Standard	60	120	180	240	300
Real outpout up to	ø32	60	100	150	200	260
	ø45	40	80	120	160	-
	ø52	30	60	90	-	-
	ø62	30	60	-	-	-
Container ø	Standard	9-66	9-62	9-52	9-45	9-32
Container height	Standard	30-150	30-150	30-95	30-95	30-100
Int. mouth ø mm		4	4	4	4	4
Ext. mouth ø mm	Standard	4-21	4-21	4-21	4-21	4-21
	Spezial	21-36	21-36	21-36	21-36	21-36
Electrical connection		400 V / 50 Hz, threephase current				
Power consumption	KW	0,75				
Fresh water heating	KW	6,0-12,0				
Recycle pump	KW	1,6				
Recycled water heating	KW	6,0				
Gas connection		3/8"				
Liquid		1" Tri-clamp				
Compressed air – pressure min./max.	MPa	0,3-0,8				
Connection	m^3/H	40	60	70	80	90
Water – pressure min./max.	MPa	0,3-0,4				
Water consumption	ca. 4h	180	300	380	500	600
Temperature	°C	70-80				
Filter housing		Pall				
Silicone pump	KW	1,6				
Silicon pressure min./max.	MPa	0,05-0,2				
Temperature	°C	20-40				
Exhaust air	ca. m^3/h	100	160	240	320	400
Ultrasonic generator	Power	2 kW / 22 KHz				
	Reaction time	max. 180 sec.				

Technical data are subject to change due to further developments.

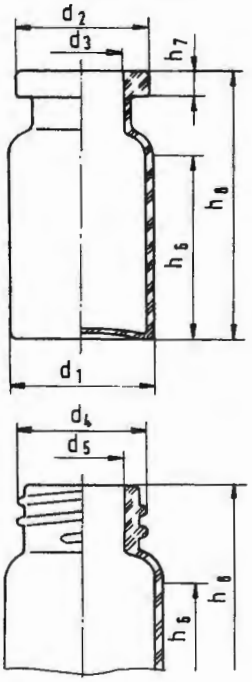
Dimensions of ampoules



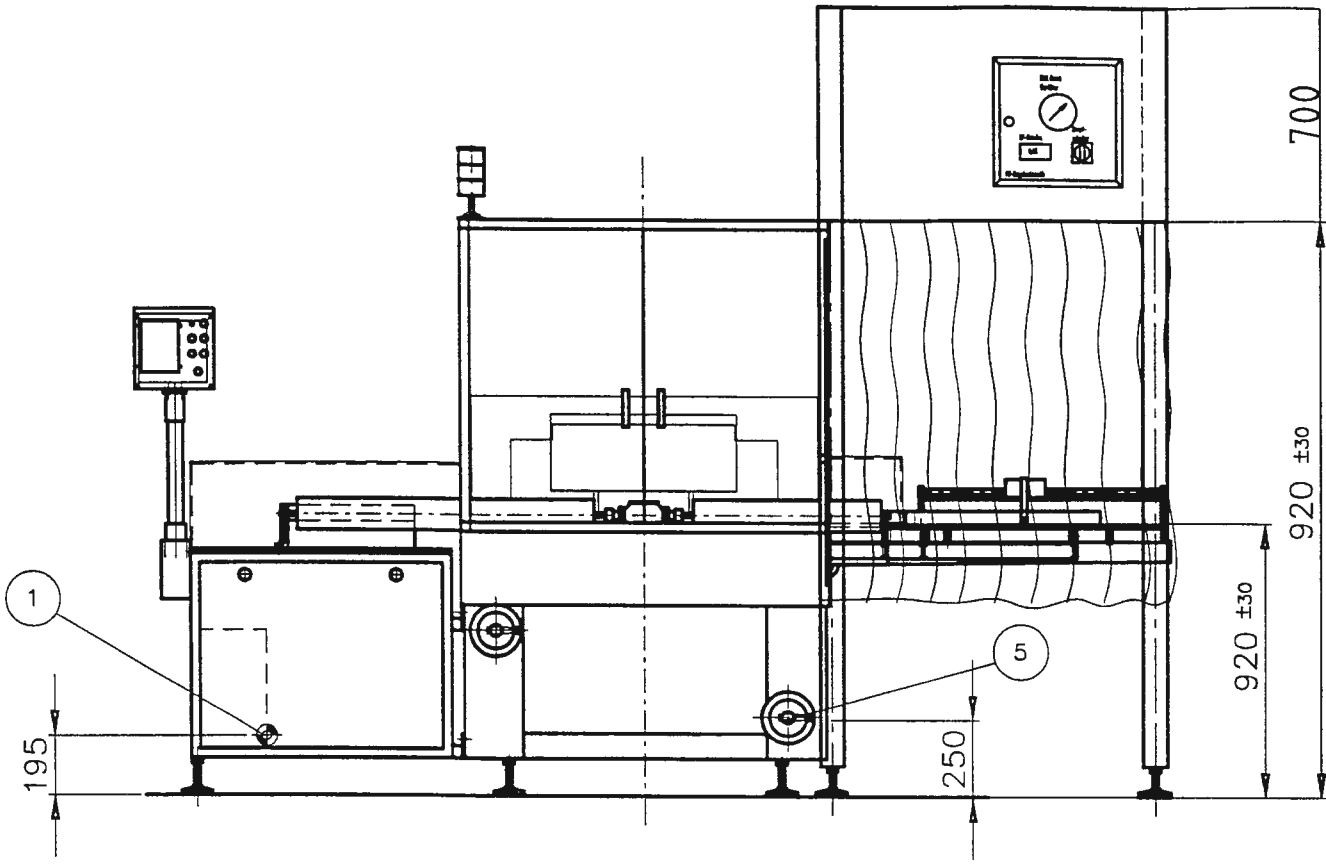


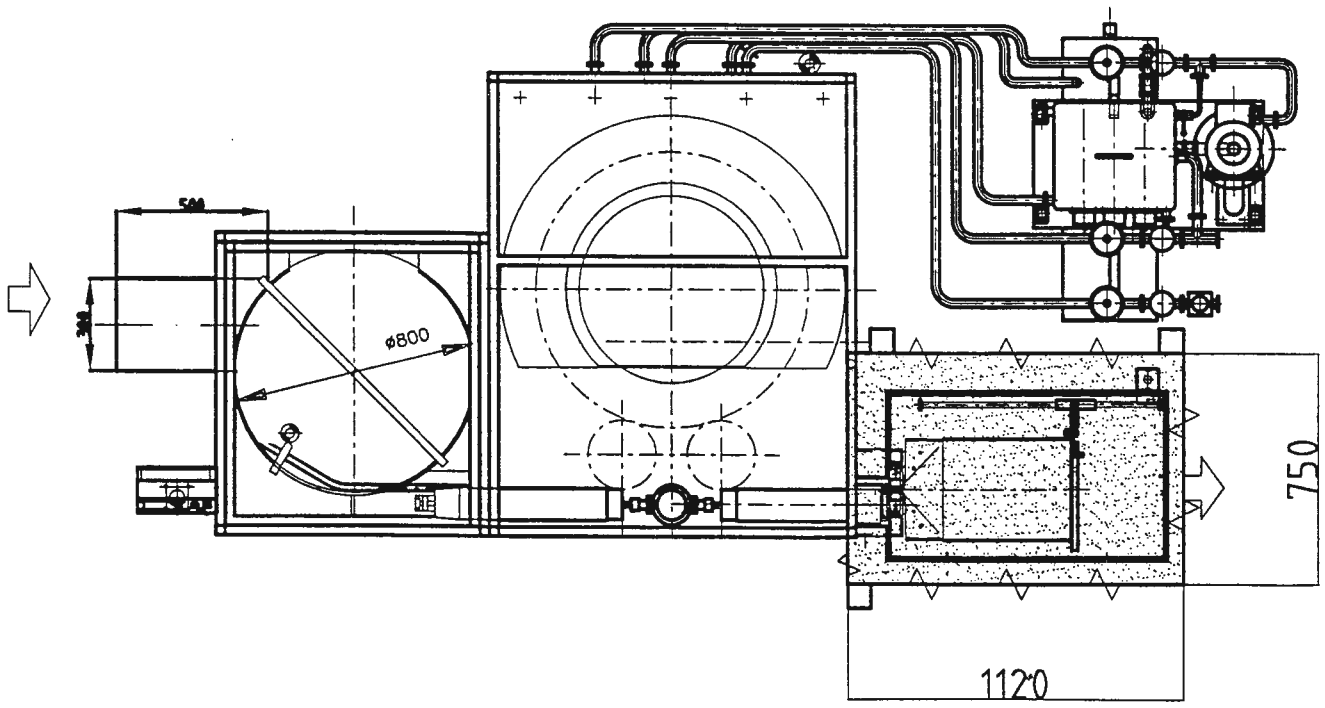
	d_1 max. min.	h_2	h_7	h_6	d_4 max. min.	d_1 max. min.	h_3	h_7	h_6	d_4 max. min.
1 ml										
2 ml										
3 ml										
5 ml										
10 ml										
20 ml										
25 ml										

Dimensions of vials



ml	d_1	d_2	d_3	d_4	d_5	h_6	h_7	h_8


700
920 ±30
920 ±30
1
5
195
250


ø800
750
1120