

SINGLE USE SUPPORT.

PIONEERING BIOPHARMA



RoSS.FILL CGT

Highest accuracy for the smallest volumes.

Highest accuracy

Down to 1 mL per bag

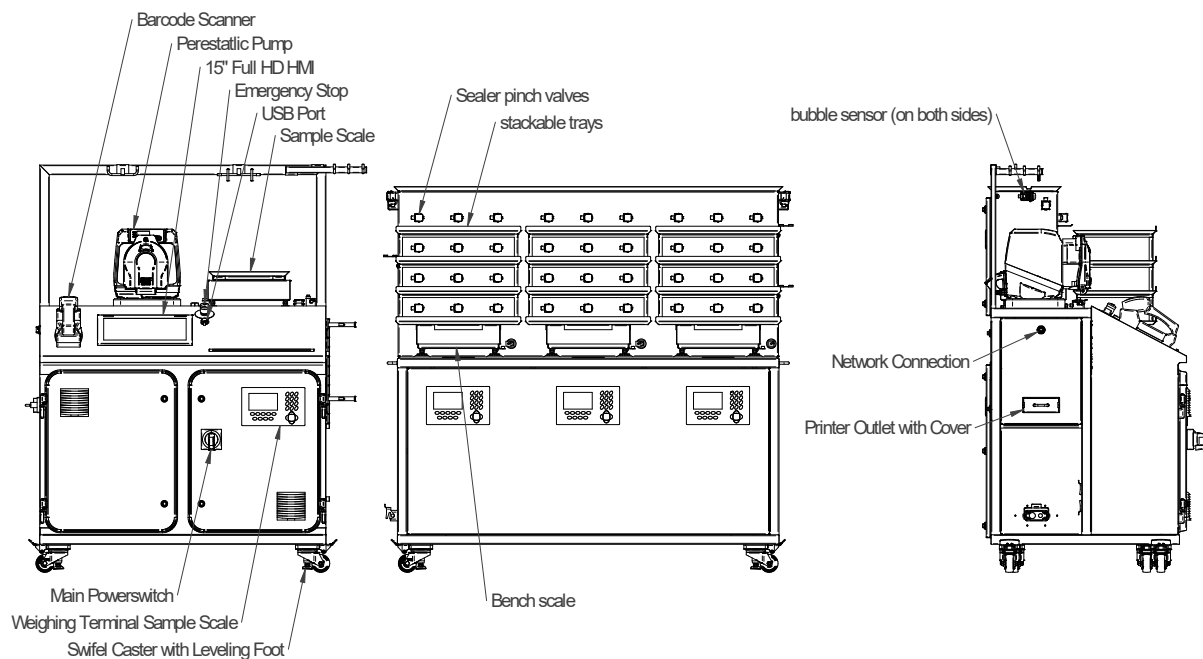
Integrated sealing & perforation

RoSS.FILL CGT

Accurate filling for small volumes.

RoSS.FILL CGT is a fully automated aseptic filling system that allows multiple small single-use bags to be filled simultaneously. The fluid path is designed to be fully disposable and can accommodate a variety of sterile connection and disconnection options.

The platform enables the filling of several small single-use bags from 1 mL up to 1000 mL and is therefore most suitable for filling small volumes in cell & gene therapies, low volume bulk drug substance or clinical studies. The option of attaching additional racks makes it possible to fill larger batches.



Standard configuration RoSS.FILL CGT with one rack (Technology type: gravimetric)

Facts:

- Highly accurate filling of small single-use bags
- Flexible set-up to optionally attach a second rack
- Integrated sealing pinch valves for fluid control and aseptic decoupling
- Parallel filling of up to 3 single-use bags
- Ease of use in operation / recipe driven processing
- Reliable platform with custom-made single-use assemblies
- Bag & connector agnostic set-up
- Suitable for cleanroom and based on international biopharmaceutical standards
- Option to take samples

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TECHNICAL SPECIFICATIONS*

GENERAL INFORMATION

Field of use	Clinical studies / cell & gene therapies / seed train intensification / low volume BDS
Primary packaging	2D single-use bags

VOLUMES SPEED QUANTITIES

RoSS.FILL CGT 36

RoSS.FILL CGT 64

Bags per rack	36	64
Max. number of racks	2	2
Max. bags total	72	128
Volume per bag	1 to 1000 mL	1 to 250 mL
Max. volume total (per system run)	72 L	32 L
Filling speed	36 x 1000 mL in 1 h (36 L/h)	64 x 250m L in 0.75 h (21 L/h)

ACCURACY

Accuracy gravimetric	± 2 g (10 - 500 mL) / ± 5 g (500 - 1000 mL)
Accuracy flow sensor	± 20 % (1 - 5 mL) / ± 10 % (6 - 20 mL)
Reading	1 g
Weighing class	OIML R60 class C3

VALVE SET UP

RoSS.FILL CGT 36

RoSS.FILL CGT 64

Valves per rack	36+2	64+2
Actuation type	Electric	
Pinch function	Included	
Stepper function	Included	
Sealing function	Included	
Perforation function	Included	
Bubble sensors per rack	2	

* The specified values refer to the standard version; customized changes are possible on request.

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MANIFOLD SET UP

Max. pump tubing OD	5/8"
Main manifold OD	3/8"
Bag branches OD	1/4"
Manifold supply	Single Use Support + all other vendors

DIMENSIONS & WEIGHT

RoSS.FILL CGT 36

RoSS.FILL CGT 64

Dimensions (LxWxH)	1717 x 770 x 1617 mm 67.598 x 30.315 x 63.661"	2317 x 770 x 1617 mm 91.220 x 30.315 x 63.661"
Weight	420 kg	690 kg

CU SPECIFICATIONS

Pump	Watson Marlow 630
Max. pump speeds	7200 mL/min (3/8" ID)
Flow sensor	upgrade
Sample scale	yes
Sample scale weight limit	6000 g
Sample scale readability	1 g
Pressure sensor sockets	2
Label printer	Included
Provision for filter	Included
Dimensions CU (LxWxH)	1294 x 902 x 1705 mm 50.945 x 35.512 x 67.126"
Weight of CU	250 kg

VARIOUS

Designed in accordance with	ASME / CE / UL /ASME-BPE / cGMP / 21 CFR Part 11
Electrical power supply	230V 50Hz / 115V 60Hz
Available as I/O	Yes
Control system manufacturer	Siemens S7 / Delta V / PCS 7
Communication	OPC UA interface available
Mobile system	Yes

Sealing Pinch Valves

Single Use Support's filling platforms are equipped with the next-gen, in-house developed pinch valves designed to accelerate the filling process and enable operator-free aseptic decoupling of single-use bags. These advanced valves are engineered to aseptically weld tubings immediately after filling and are compatible with various tubing sizes ranging from 1/4" OD to 5/8" OD.

The valve can work like a standard pinch valve but also offers additional benefits:

SEALING OF THE TUBING

Heat-sealing for TPE tubing

RF-sealing for PVC tubing

Operator-free aseptic decoupling

Fully aseptic closure – no risk of leakage

No risk of contamination



PARALLEL FILLING*

Thanks to the fully variable position of the valve multiple bags can be filled simultaneously

Enables increased filling speed

Pump can always be operated at the max. allowed speed

**only applicable with one bag/ bottle per scale*

TEAR-OFF FEATURE

The perforation created during welding allows easy disconnection of the tubing by hand

Easy separation of the bag from the rest of the manifold

Eliminates the need for post-processing of metal seals and removal of sharp edges

No external tools required

To ensure the highest standards, rigorous testing and validation procedures confirm that:

- The product temperature never exceeds 40°C throughout the entire process
- Microbial growth is prevented within the sealed tubing (<1 CFU/mL)
- Welds can withstand a constant internal pressure of 1.5 bar
- Seals are free of inclusions
- Welds can withstand multiple freeze-thaw cycles down to -85°C (32°F)
- Each sealing pinch valve allows sealing over a long period of time, resulting in cost-effectiveness in long-term operation
- Operator safety is ensured through the use of a safety cap and controlled surface temperature