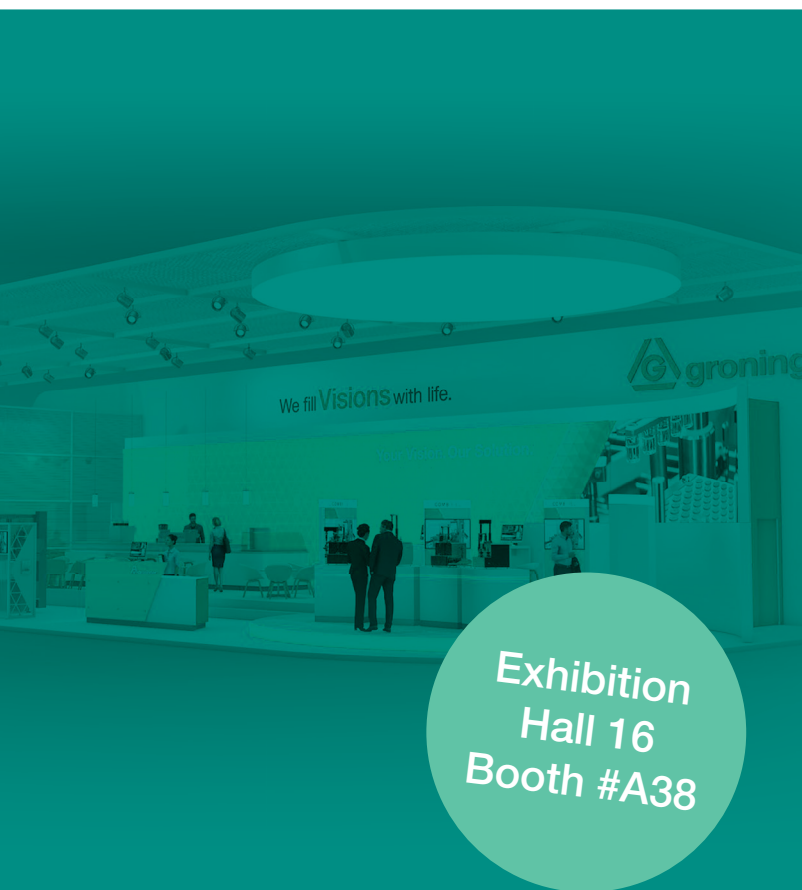


# Your vision. Our solution.

groninger at interpack • 05/04/2023 - 05/10/2023



We fill **Visions** with life.

# Filling & Closing

## Innovation is our daily business

groninger is one of the world's leading manufacturers of filling and closing machines for the pharmaceutical, consumer healthcare and cosmetics industries. The slogan **"We fill visions with life"** aptly describes what groninger stands for: excellent know-how, innovative solutions and partnership-based cooperation in custom machine build sector.

Since it was founded by Horst Groninger in 1980, the company has become a hidden champion and innovation leader in the industry. Today groninger, managed by the family's second generation, employs around 1,370 people at its sites in Crailsheim, Schnelldorf and Charlotte (USA). The company headquarters is in Crailsheim, Germany.



pharma

consumer healthcare

cosmetics

<b>Established</b>	1980 by Horst Groninger
<b>Headquarters</b>	Crailsheim (Baden-Wuerttemberg)
<b>Sites</b>	Schnelldorf (Bavaria) Charlotte (North Carolina, USA)
<b>Managing Directors</b>	Horst Groninger, Jens Groninger, Volker Groninger, Philipp Hauser, Dr.-Ing. Frieder Kanitz, Josef Veile
<b>Industry</b>	Filling and closing systems
<b>Business units</b>	Pharma, Consumer Healthcare and Cosmetics
<b>Employees</b>	1,370 worldwide
<b>Export rate</b>	90 %



We fill **Visions** with life.

# This is us

## And this is what we stand for

### **We are family.**

At groninger, “family” isn’t just what we are, it’s who we are. And this is not just because we are a family-run and independent company. It is all possible because of the people behind the scenes who make us special. They are the heart and mind of groninger. Every day they prove that when you work together as a team, you can achieve great things.

### **Trusting cooperation.**

Would you like to feel understood and not just heard? For this, you will not only need the best provider on the market, but a partner you can trust and who will support you. Hence, close cooperation with customers is our top priority. As a competent partner, we are at your side to advise and accompany you on the way to achieving your goals and visions.

### **Over 40 years of know-how.**

Our experience is your success and has been for 43 years. groninger stands for quality work that you can rely on. Decades of expertise have gone into our technology, which is reflected in smart machine concepts. Through the years, we have been able to gain experience in a wide variety of application areas, which is why we are able to find the right solution for you.

### **Quality made in Germany.**

Those who prefer to play it safe when it comes to quality are left with only one option: in-house production. And that is exactly our goal. Components critical to the process, e. g. due to direct product contact, are manufactured in-house by German quality standards. You can rest assured that you are manufacturing the highest quality products because where health and life are at stake, perfection is a must.





**Your vision.  
Our solution.**

## Cutting-edge technology made in Germany

Filling and closing is not only our competence, but our greatest passion! We are committed to supporting you from start to finish to help you find and successfully implement the best method for processing your products.

Our experience and technical expertise enables us to develop our technologies continuously, staying at the forefront of current trends such as robotics, GMP-compliant production and other relevant topics.

Take your production to the next level with groninger's intelligent machine solutions - built to fill visions with life.

pharma

We accompany you through the whole life cycle of your product, from upstream processing to filling and closing to downstream processing. Whether you are looking for a compact tabletop machine to fill small batches or a flexible high-speed line, from processing ready-to-use containers to vials in bulk, groninger offers you smart machine concepts with different containment solutions. The key features that all of them provide: maximum reliability, safety and quality.

consumer healthcare

cosmetics

The consumer healthcare and cosmetics markets have one big thing in common: the packaging possibilities are almost endless! From processing non-sterile pharma products like OTCs, nutritional supplements or diagnostics, to beauty products like cremes, fragrances or color cosmetics - flexibility is key. All our machine concepts are developed with this key feature in mind - from intelligent robotic sorting systems to quick changeover of format parts.

# labworx

The latest upgrade of the groningen benchtop machine portfolio **labworx** consists of four standardized modules – filling with peristaltic pump or rotary piston pump, stoppering and crimping. A very short lead time on these „off-the-shelf“ machines minimizes the time-to-market and the **quick-connect** technology enables for fast turnaround times and the highest flexibility in day-to-day activities.

R&D, clinical trials processing, small batch filling and process development for higher speed groningen lines are just some applications for this portfolio. The **labworx** machines are designed with servo motors and can be controlled via any capable HTML5 device. The design allows to fit the modules in industry standard isolators and other containment systems of several brands.

The groningen **labworx** series is equipped with the most sophisticated control technology available on the market.

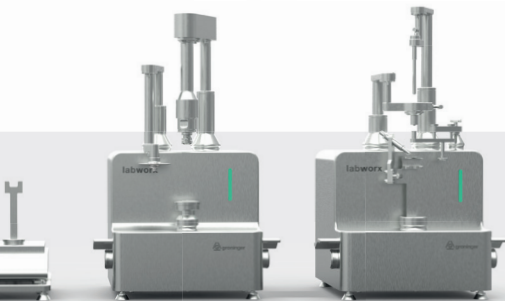
**i** Find out more  
about our  
**labworx** series





- Filling, stoppering and closing of all common glass and polymer containers
- All common filling systems, vacuum and gassing features available
- Scalable processes for groninger high speed lines
- Wireless control via any capable HTML5 device (e.g. tablet or smartphone) for intuitive operation
- Designed for isolators, biosafety cabinets and LF hoods
- Combined electronical batch reporting of several modules as pdf for 21 CFR part 11 compliance

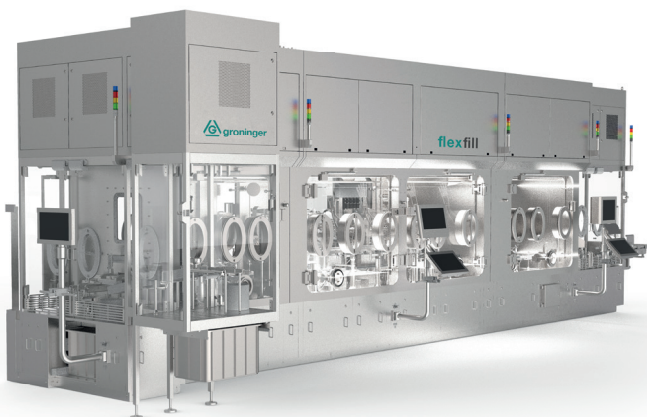
*Benchtop filling machine in an isolator*



# flexfill

## Proven groningen technology, fully automated & ready-to-fill

Our latest machine portfolio is perfectly adapted to current market needs. These pre-configured filling lines offer you unrivalled delivery times with proven technology for pharmaceutical fill-finish solutions. The standardization and modularization of industry-leading groningen technology enables shortened times to production start-up while meeting the highest standards of safety and flexibility.



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Fair exhibit: **flexfill** line with SKAN isolator. Find out about our long-standing partnership.



 **groningen** + **skan**

## Line options

- Processing of RTU syringes, cartridges and vials
- Processing of traditional stoppers and caps as well as snap-on caps
- RABS or isolator configuration
- Peristaltic pump, rotary piston pump or the combination of both
- All common gassing functions
- All common vacuum functions
- Siemens controls in CE or UL execution

## Highlights

- Line speed of up to 12,000 objects per hour
- Proven and reliable no-touch transfer (NTT) of pre-sterilized primary packaging containers into the aseptic zone as part of groninger's **safetransfer** technology
- 3 in 1: processing of nested syringes, vials and cartridges on one machine platform by changing the format parts with groninger's **combifill** technology
- Fastest, toolless changeover of the complete line with groninger's **quickconnect** technology

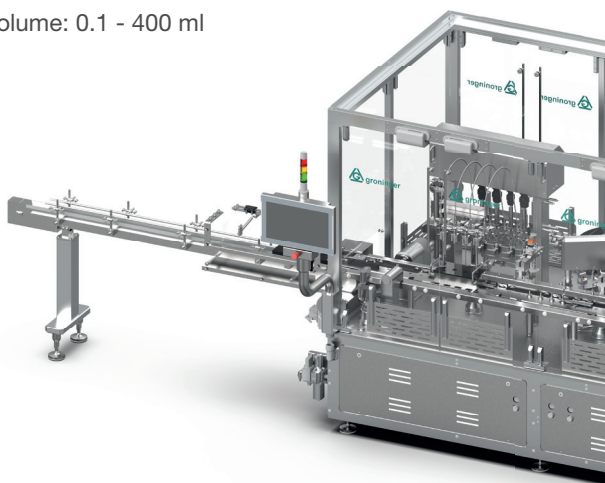
# flexcare 10

## Compact filling and closing system for lower outputs

This compact and flexible machine is ideal for the reliable processing of glass and plastic bottles. Customized to your requirements, a wide variety of machine functions can be added, including pre- and post-gassing, dropper and spray pump insertion, closing with servo-controlled pre- and post-torquing. Batch and audit trail logs can be implemented flexibly and easily. With the compact design of the line, format parts can be changed quickly and without any tools, achieving a high degree of flexibility and equipment efficiency.

### Technical data:

- Output: adjustable up to 4,200 objects/h
- Nominal processing range: Ø 14 - 60 mm
- Filling volume: 0.1 - 400 ml



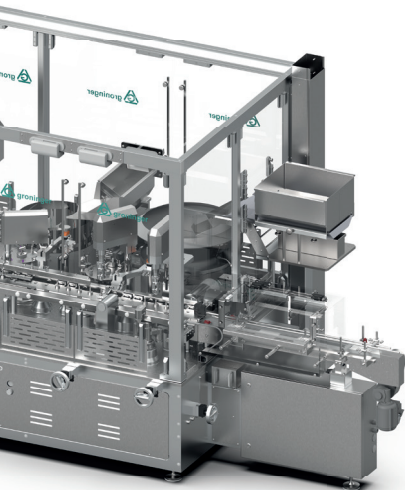
## Your benefits:

- All common filling systems possible
- 100 % In-Process-Control of weight possible
- Multifunctional closing units for a variety of options
- GMP-friendly design

## Machine functions:

- Filling systems: rotary piston pump or peristaltic pump
- Pre- and post-gassing
- Closing with up to 2 components
- Test systems

**i** Find out more  
about our  
**flexcare** series



# robotic sorting

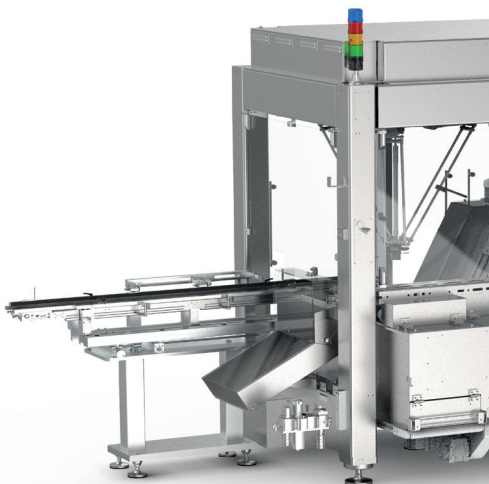
## Smart infeed and robotic sorting system

Each line is situated in a unique environment. We are happy to advise you on how your containers and closures can be stockpiled and fed. On this basis, we will develop an individual concept that is precisely tailored to your situation, the objects and their delivery.

We use different technologies to feed the items (bulk goods or trays), e.g.:

- Vibration bunkers, sorters and turntables
- Robotic applications

Robotic arms insert the supplied items into transport systems, transport pucks or directly into a downstream machine in an extremely product-friendly manner.

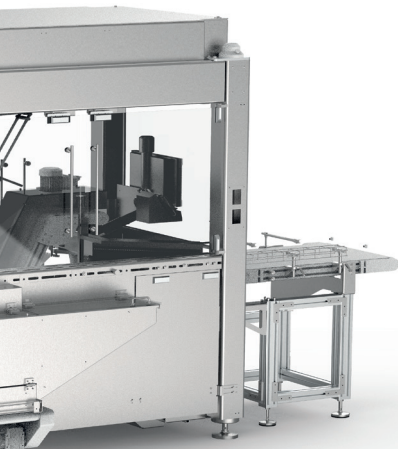


## Your benefits:

- Flexible processing of bulk goods as well as trays
- Less format parts
- Product-friendly, soft handling of the items
- Reduced changeover times
- Maximized machine availability

## Technical data:

- Output bulk goods: adjustable up to 100 objects/h
- Processing range bulk goods: Ø 12 - 60 mm
- Output trays: adjustable up to 70 objects/h
- Processing range trays: Ø 12 - 100 mm
- Max. tray size: 600 x 400 x 100 mm (L x W x H)



**We thank our packaging suppliers and partners  
at interpack 2023:**



Stevanato Group

Get more  
information  
here:



gerresheimer

Get more  
information  
here:



**DATWYLER**

Get more  
information  
here:



### **Next trade fairs:**

#### **PackExpo**

Las Vegas, USA

09/11/2023 - 09/13/2023

**Booth 6614**

#### **CPHI**

Barcelona, Spain

10/24/2023 - 10/26/2023

**Booth 3T50**

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