

Versatile Filling Technology



For the pharmaceutical, chemical, cosmetic, diagnostic and food industries – since 1971



Commitment to detail



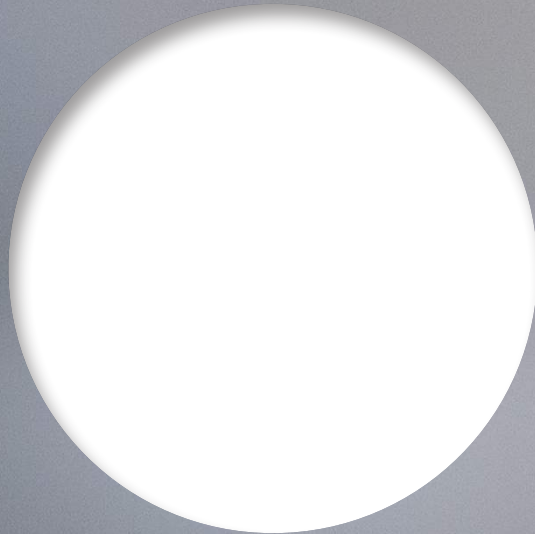
Andreas Wick CEO

»WICK machinery is your choice supplier for closing and filling technology, meeting customer needs at the highest technical level.«

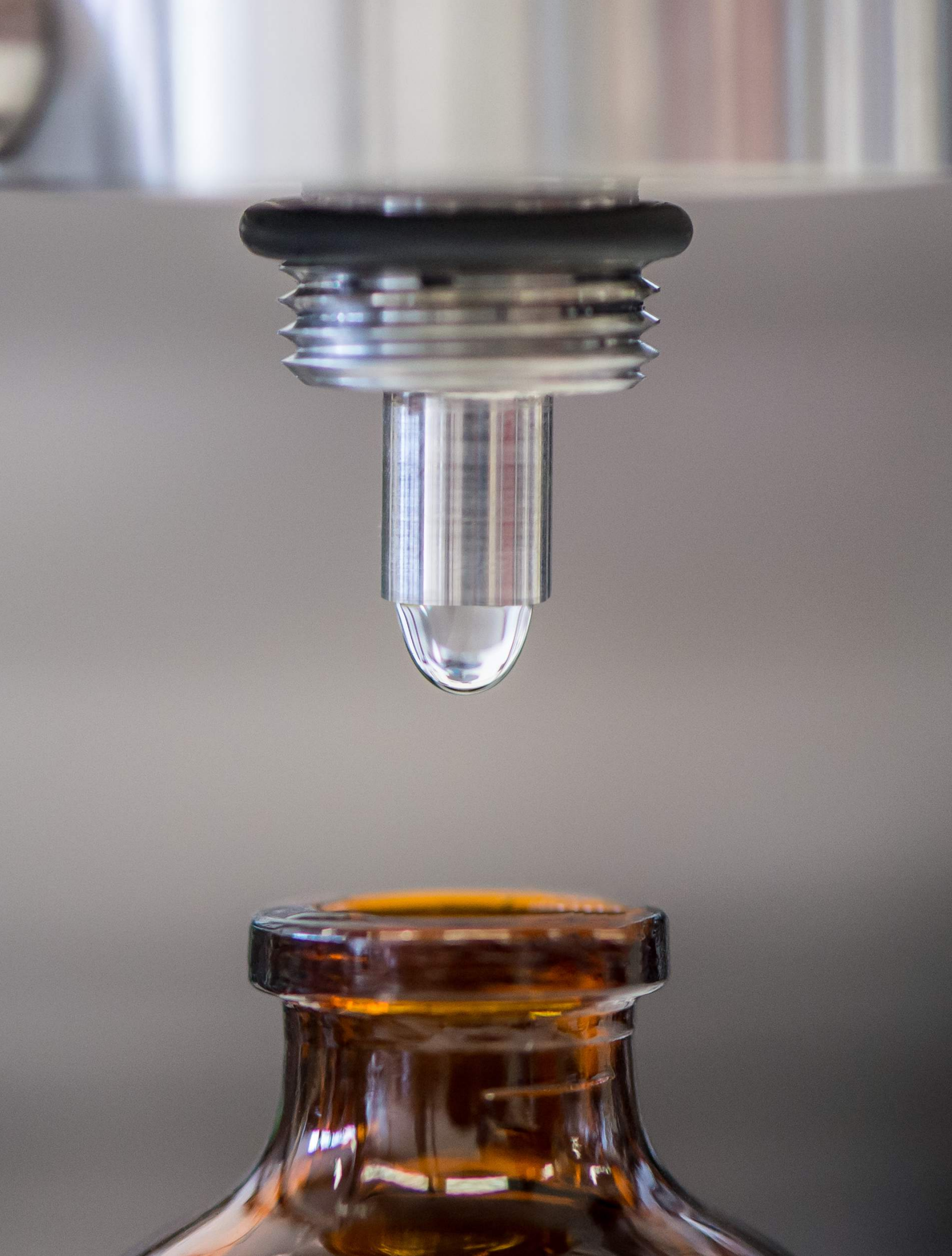
Customization is our specialty and we work closely with you to develop targeted technical solutions to your specific requirements. All *WICK machinery* equipment is manufactured in-house and geared to low-maintenance operation, meeting the highest technical industry standards and can be quickly and easily adapted to changing production processes. As your reliable partner we are always at your disposal. Whether your business entails one-off production, small batches or the adaptation of existing modules. Utilizing exclusively the highest-quality components, we will enable you to make smart choices leading to the most

cost-effective solutions for your manufacturing needs. You can trust WICK expertise. From concept and process design, to implementation of filling and closing manufacturing solutions. We know how it works.

Commitment to **detail**



As a family business, we've been serving our clients for over forty years while accumulating a wealth of experience in our business. Having developed a keen eye for detail, our aim is to provide total customer satisfaction and we constantly strive for technical perfection. We combine our expertise in filling technology with a passion for what we do, always striving to perform at the highest level.



We know *how it works*



At first glance, all equipment seems the same. Yet the difference lies in the detail. We at WICK machinery offer you the best service thanks to our long experience. We work passionately to provide you with the best and most precise solutions!



Always
at the
cutting
edge

State-of-the-art precision-technology

When you purchase *WICK machinery* equipment, you don't just buy a machine. You acquire filling and closing technology, which is constantly at the cutting edge and that has been especially customized to your requirements. The difference lies in the detail. *WICK Know-how* guarantees precision and reliable service. Intelligent design, ergonomic structure and meticulous adaptation to the essential pro-

cesses all lead to optimal results: total customer satisfaction. Thanks to our long-standing experience, we know how to optimize processes and create custom manufacturing solutions for our clients. Trust us and benefit from our decades-long experience!



Solid
quality
service

Excellent customer service and support

WICK machinery is based on precision technology and a high level of accuracy. We take the necessary time to consult with our customers beforehand, conducting joint planning sessions and providing after sales support. We cater to large and smaller clients alike. *WICK Service* means we are there whenever you need us. Our service includes plant installation, commissioning and on-site staff train-

ing. We handle your questions and requirements promptly and professionally. Your satisfaction is of utmost importance to us. *WICK* machines are highly robust, low-maintenance and easy to operate. Whenever there is a problem to be solved, you can count on us and we are there to solve it. *Wick quality service* reflects our added value for our clients.

The key to our continuing success

Wick staff attends to
customer requests

Each one of us has a task to perform and together we work towards achieving a single goal. The WICK machinery team is like a family and the machines are our children. From start to finish, we provide you with the benefit of our best skills and experience.



3 reasons for choosing **WICK machinery**

1

Partnership through efficient service ...

When a new client approaches us, we must know his needs and familiarize ourselves with his type of business. We pay careful attention to be able to pinpoint his needs. We analyze the existing processes in operation before proceeding towards optimization. We map the processes and interfaces before developing improved solutions in cooperation with our clients. Throughout, we remain at your side, providing professional consultancy and technical support!

2

... in-house manufacturing ...


Planning and production are closely related and must be carefully adapted to customer requirements even down to the smallest details. The outcome must be the highest quality product manufactured under optimal conditions. *WICK machinery* provides complete customized solutions. We specialize in one-off and batch production, planning and manufacturing with all the necessary flexibility. With our over forty years of experience, we have developed a range of well-proven options while also applying innovative solutions targeted at specific problems.

3

... and years of experience.

Like father, like son! At *WICK machinery*, tradition remains our mainstay and is something we value highly. Established in 1971, the family business represents high-level competence and a passionate approach to equipment manufacturing. In over forty years, we have accumulated a wide range of experiences and innovation underlining our motto: "To listen, to understand and to implement". Andreas Wick builds on his father's long experience, which is the key to our *WICK know-how*. This expertise is built into all *WICK* equipment, for the benefit and satisfaction of *WICK machinery* customers.

When **accuracy** is essential



The standards are extremely high and everything has to work perfectly. Total safety is achieved through transparent production at every stage.



Assembly of an infusion bag filling and closing machine in the Royal Free Hospital, London, UK

Everything must work perfectly.

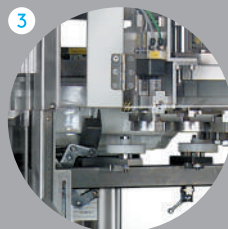
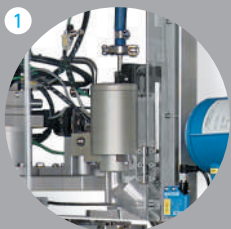
The pharmaceutical industry has strict regulations. *WICK machinery* operates according to precise specifications, meeting the highest accuracy, cleanliness and sterile filling standards. Manufacturing through to filling is transparent and manageable to the operator. This is accomplished through a set of well-organized procedures. Every stage is documented and the entire system is GMP (or FDA)

compliant. Our success speaks for itself: *WICK machinery* fills and closes products for leading international brands, well known companies as well as local businesses. All rely on WICK equipment. So can you!



For maximum filling precision

The filling of infusion bags is subject to the highest precision, as provided by the BTA. The internal controls must comply with the stringent prescriptions of the external quality guidelines such as those laid down by the GMP. This means end-user safety and each bag is subjected to individual pressure testing. Filling occurs via a mass-flow meter with automatic recalibration after each cycle in closed circuits. The 100% in-process control ensures that only properly filled, leak-tested infusion bags are dispatched from the plant.



- 1 Pressure testing of the infusion bags and optional pre-processing with inert gas.
- 2 Counter-pressure filling with automatic calibration after each fill cycle.
- 3 Flexible pack material, gentle crimping tool, versatility for different kinds of capping.

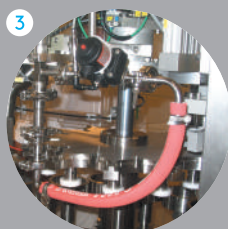
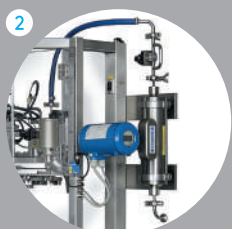
As Strong as Goliath

*Volatile substances? Corrosive liquids?
No problem – WICK machinery can handle it
all! WICK machines continue working normally
regardless of adverse conditions or problematic
substances. The units can be operated without
difficulty both by newly qualified as well as by
seasoned operators.*

Optimized solutions for every customer

The *Multifill Servo* remains stable and can stand up to extreme conditions. This unit is ideal for handling acids, bases and solvents with off-centered pH values. The unit can be configured to comply with ATEX specifications and may also be utilized for filling explosive liquids. A process-specific zone-concept is developed beforehand and implemented together with the appropriate inspection authorities.

Multifill Servo



- 1 The large, robust welded base is durable and resistant to extreme conditions.
- 2 Measuring is via mass flow meter or piston.
- 3 In-line cleaning and memory formatting, ensuring quick conversion and utmost flexibility.

Right to the *point*

The production process must remain precise from start to finish and production safety is paramount. WICK machinery scores on all points with perfect results and clear recordings of the processes.

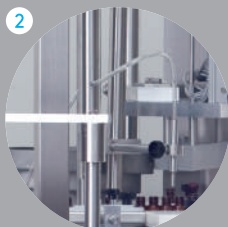
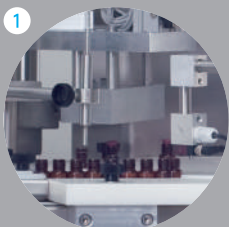


Minican Universal



Total Versatility

The *Minican* represents precision in filling, quick cleaning and maximum versatility. This system is capable of handling different shaped containers and is compatible with for different dosage systems. Capping, labeling and marking systems are seamlessly integrated into the unit, which may also be adapted to small batch quantities. The *Minican* adapts quickly and efficiently to all customer needs.



1 Rotary indexing table (optional Puck inlays) allows the flexible processing of different types of containers (including non-standard shapes).

2 Precise measuring utilizing rotary pistons or peristaltic pumps.

3 Various closing systems with actual data acquisition, are available for obtaining an ideal and secure closure.

Clean and aesthetic

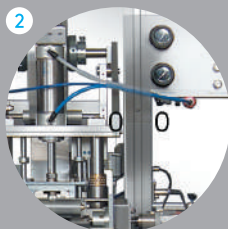
Radiant beauty has strict demands. We at WICK machinery create versatile systems that reflect perfection both in appearance and material. Quick, clean and gentle. We provide first-rate, flexible solutions.

DFB-T



The optimal process for each design

The *DFB-T* is capable of handling any type of container with maximum safety. This is the premium system for expensive cosmetics in costly packaging. The machine handles the product with just about the same delicacy as the product itself works on the skin. The well-conceived design allows a time-efficient dosage system for aseptic filling and is ideal for preservative-free cosmetic products. There are wide range of capping and safety options, including aluminium and screw caps.



1 The filling system with CIP cleaning (optional) is also suitable for small batches and frequent product changes.

2 Punch for pre-cut foil discs with conductive or inductive sealing device.

3 Integrated sealing station quickly adapts to different types of capping.

Fully effective

This is a vibrant market: fast and innovative. WICK machinery stays abreast of developments ensuring successful production. Versatile systems that are easily cleaned and capable of handling products with care.

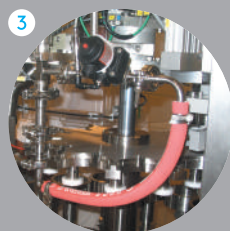
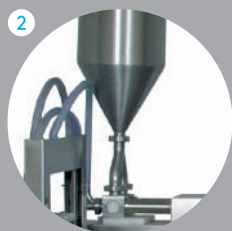
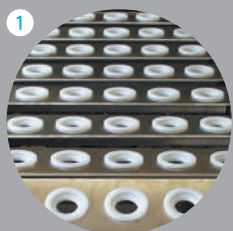


DFB-C



Choice of equipment for different applications

The DFB-C is capable of keeping pace with the latest requirements and always completes the job on time. Filling is performed at the desired intervals thanks to the sequencing system with a wide range of process options. The linear design is straightforward and permits manual operations at predetermined stages. Thanks to the semi-modular structure, the unit can also be interfaced with external subsystems, thus further enhancing its versatility. Filling is safe and compliant with HACCP specifications. That's the DFB-C!



- 1 Maximum of 12-channel, linear clock allows more gentle container transport.
- 2 Piston measuring or flowmeter filling system adaptable for larger units.
- 3 Inline cleaning and memory formant guarantees quick conversion and versatility.

WICK. Small Business

WICK machinery at your side



We are always there for you! As a family business, we pay special attention to the needs of our Small Business customers – providing professional assistance on your journey to success – bringing our special WICK expertise to bear.



Small Businesses growing with the market

We work to increase the competitive advantage of small businesses. We do it out of conviction since professionalism is a company's hallmark of quality, both internally and in relation to its customers. It also provides the basis for market conquest and we at *WICK machinery* are with you all the way! Your needs are our goals and your requirements are the basis for our support.

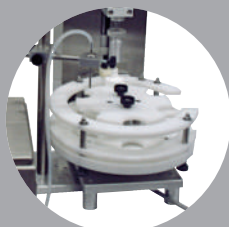
By analyzing your project at all levels, we seek to find the best technical options for you. By partnering with *WICK machinery*, you'll find you have made the right choice for effective consulting, decision-making support, commissioning and operator guidance as well as after sales support.

WF1



The right kind of machine

Simple, compact and self-explanatory: the WF1 is your choice unit. Its small size, compact design and ease of use make it the unit of choice for many WICK customers. The only contact points with the product are the fill hose and filling needle, thus preventing possible contamination. The WF1's stainless steel parts are easy to clean and are versatile, thanks to the clear instructions shown on the operator displays. If required, the contact parts may also be supplied as single use components.



- 1 Clean, multilingual operator display for maximum comfort during use.
- 2 Product path limited to the filling hose for quick conversion and easy cleaning.
- 3 Suited to a variety of applications allowing combination with different capping machines.

Filling and closing: fully-automatic (1)

1 Minican T

Filling and closing of jars, tins and glasses.

Filling range: 1-300 ml

Output: 40, 65 or 120 containers/minute

Equipment: jar in-feed via conveyor, rotary table or automatic unscramble, container cleaning with sterile air, jar coding, product-specific filling, treatment of jar edge, film die and foil cutters, sealing station and much more.

2 Minican Universal

The most universal and most flexible in its class.

Filling range: 1-1000 ml

Output: 25, 40 or 60 containers/minute

Equipment: supply of empty containers via conveyor, rotary table or unscramble, product-specific filling station, various dosage systems, capping station and much more.

3 DFB-T

The flexible specialist for jars, tins and glasses.

Filling range: 1-300 ml

Output: 65, 120 or 400 containers/minute

Equipment: jar in-feed via conveyor, rotary table or automatic unscramble, container air-cleaning, jar coding, product-specific filling, treatment of jar edge, film die and foil cutters, sealing station and much more.

4 Minican Pharma

Ideal for clean room applications.

Filling range: 0.1-1000 ml

Output: 40, 60 and 80 bottles/minute

Features: supply of empty bottles via conveyor, rotary table or unscramble, removal of protective cap, bottle cleaning, treatment with inert gas, product-specific filling, rubber stopper insertion, sealing with crimp cap or closing with screw-cap, labeling machine, validation packages in compliance with GMP and FDA.

5 Minitube / Multitube

Aluminum and/or plastic tubes.

Filling range: 1-300 ml

Output: 30, 40, 65 or 120 tubes/minute

Equipment: alignment of tube fed via slide or cassette, air-cleaned tubes, product-specific filling, sealing, coding station, tube edge crimping, data interface and much more.

6 FMS-T VRmp

The specialist unit for filling and capping bottles.

Filling range: 1-1000 ml

Output: 20, 40 and 60 bottles/minute

Features: product contacting parts made either from stainless steel or on demand from hastelloy, titanium, plastics or ceramics, bottle sorters, labeling machine, sterile filling option available.

- Dosage over piston pump, peristaltic, servo drive or flowmeter.
- Suitable for various types of closure.



DFB-T

This machine is very flexible. Thanks to the linear step chain drive, it is particularly suitable for cans, jars and glasses. It has different dosage systems and can be converted quickly and rapidly.



Florian Hanslauer
Brenntag CEE GmbH

»We bottle inflammable liquids for the automotive industry, where safety and perfection are our priority. When we were looking for suitable equipment among international suppliers, WICK machinery emerged as the clear winner.«

1 Minican T



tins / glasses / jars

2 Minican Universal



tins / bottles / glasses / jars / vials

4 Minican Pharma



bottles / infusion bottles / vials

5 Minitube/Multitube



tubes

3 DFB-T



tins/glasses/jars

6 FMS-T VRmp



bottles

Filling and closing: fully-automatic (2)

7 DFB-C

Cups and associated requirements.

Filling range: 1-1000 ml

Output: 65, 120 or 400 cups/minute

Features: cup magazine with cup dispenser, cup coding, various application-specific dosage systems, product-specific filling, film die and foil cutters, heat-sealing station, sealing station for pressed caps, snap-on lids, screw stations for special cups, labeling machine.

- Also suitable for multi-component filling.

8 Minican-C

Cups and associated requirements.

Filling range: 1-1000 ml

Power range: 40, 60 or 80 cups/minute

Features: cup magazine with cup dispenser, coding, various application-specific dosage systems, product-specific filling, film die and foil cutters, heat-sealing station sealing station for pressed caps, snap-on lids, screw stations for special cups, labeling machine.

9 BTA

Sealing and filling of bags, infusion bottles and vials.

Filling range: 1-3000 ml

Output: 500, 900, 1500 or 3000 bags/hour

Features: manual bag uptake, protective cap removal, bag inspection, treatment with inert gas, product-specific filling, pressing of rubber stopper or luer-lock closure, sealing station for crimp caps, interface for further data processing, interchangeable unit for bottles and vial filling, special versions for infusion bottles with screw cap, validation packages in compliance with GMP and FDA.

10 Multifill

The adjustable specialist unit for filling and closing of bottles.

Filling range: 1-1000 ml

Output: 20, 40 and 60 bottles/minute

Features: product contacting parts made of stainless steel, Hastelloy, titanium, plastic or ceramic, dosage over piston pump, peristaltic, servo drive or flowmeter, capping machine for various types of closures, bottle sorter, labeling machine.

- Optionally available for sterile filling.

11 Minican 100

This is a modern, compact and fully versatile automatic filling machine.

Basic equipment: supply rotary table for empty containers, rotary indexing table, filling station, adaptable for various dosage systems, capper, sorter, closing station for screw-caps, seal caps and crimp caps, collecting tray for filled bottles.

12 SPF-100

The machine for the fully automated filling and capping of syringes.

Output: 10, 25, 40 or 60 syringes/minute

Equipment: rotary indexing table, syringe-feed via rail system, automatic cap removal, filling via direct suction or peristaltic pump, capping via luer-slip or luer-lock closures, in compliance with GMP and FDA.



BTA

This high-precision machine is safe, capable of filling between 500 and 3000 bags per hour. Thanks to the 100% in-process control only properly filled and leak-tested infusion bags are dispatched from the facility.



Hanspeter Kranabitl
LKH Pharmacy Bad Ischl

»We produce infusion solutions in small batches and fill utilizing WICK system. While Mr. Wick (Snr.) impressed me with his enthusiasm, Andreas Wick convinced me with his idea of service. Operation and maintenance of the equipment are really straightforward.«

7 DFB-C



cups

8 Minican-C



cups

10 Multifill



bottles

11 Minican 100



bottles/glasses/vials

9 BTA



bags/infusion bottles/vials

12 SPF-100



injections

Filling and closing: semi-automatic

1 Minican 50

This ideal entry-level model in automated filling technology compatible with standard pumps.

Filling range: from 0.5 to 1000 ml (depending on the pump)

Features: automatic rotary indexing table, filling, capping station, compatible with our dosing systems.

Special equipment: conveyor belt, automatic cap supply, labeling machine, etc.

2 Minican 200

Ideal for filling and sealing of cups.

Features: automatic rotary indexing table, filling, foil dispenser, heat sealing station, cup ejection mechanism.

Optional accessories: automatic cup dispenser, coding station, lidding station.

3 BT1

For semi-automatic filling and sealing of infusion bags.

Feature: manual bag in-feed, manual placement of plugs and crimp caps, changeable format settings for a variety of bag systems, vials and infusion bottle option, automatic filling and crimping.



Ralf Nowak
Hot Danas GmbH

»The WICK team finds solutions for us based on our specific needs. Our Minican runs smoothly and is suitable for our company size. Thanks to their personal contact, informal support and quick communication, WICK machinery has gained my absolute confidence.«

1 Minican 50



tins/bottles/glasses/jars

2 BT1



infusion bottles/vials

3 Minican 200



cups

Closing: semi- and fully-automatic

1 EKS/PKS

For sealing screw caps.

Features: adjustable torque clutch, quick-change chuck for all cap forms.

Power source: electric or pneumatic.

2 PKS-R

For sealing screw caps.

Features: screwing mechanism, lifting and lowering device, stepless adjustable torque, integrated filling station, optional for crimp caps.

Features: manual rotary table.

3 PKS-H

For sealing screw caps.

Features: equipped with lifting and lowering devices, adjustable torque clutch and quick change chuck, for all cap shapes.

4 Psi

For sealing of aluminum foil.

Features: variable sealing temperature, infinitely adjustable pressure sealing, conversion to automation possible.

5 Psi-R

For sealing of aluminum foil.

Features: manual rotary table, heat-sealing station, automatic foil dispenser.

Functions: variable sealing pressure.

6 SD1

For sealing aluminum tubes.

Features: hand crank, with optional encoder facility.

7 SD1m

For sealing aluminum tubes.

Equipment: electric motor, with optional encoder.

8 TS1

For welding of plastic tubes.

Features: continuously variable height tubes, adjustable sealing time and cooling time.

9 VR-mp

For automatic closing of screw and press cap, and spray pumps, triggers and special seals.

Features: mechanical rotary table (optional: servo table), mechanical closing station, electric or servo motor.

Functions: automatic cap feeding on vibration- or disc-sorter.



VR-mp

This highly robust unit is capable of being quickly converted. It is especially suitable for the automatic closing with a variety of caps, thanks to the mechanical rotary indexing table.



Antje Enders
ACQ Science GmbH

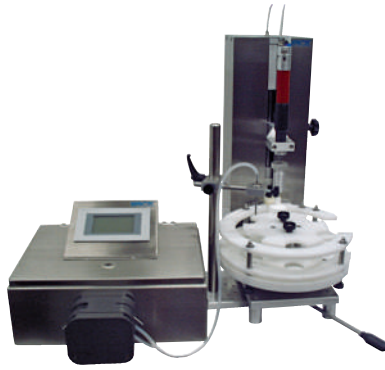
»WICK machinery has an innovative, dynamic and solution-oriented approach. As far as support is concerned, we knew we could rely on them as solid contacts since right from the start. With us, their company philosophy was fulfilled.«

1 EKS/PKS



tins / bottles / glasses / jars

2 PKS-R



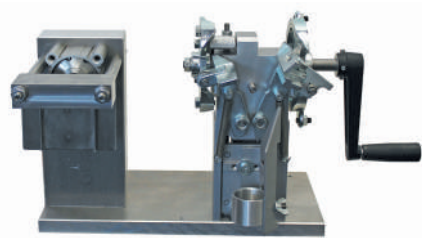
tins / bottles / glasses / jars / vials

3 PKS-H



tins / bottles / glasses / jars

6 SD1



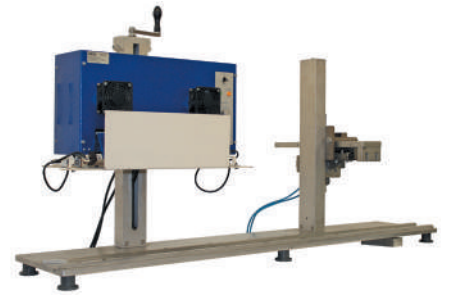
tubes

7 SD1m



tubes

8 TS1



tubes

4 Psi



cups / bottles / glasses / jars

5 Psi-R



tins / bottles / glasses / jars

9 VR-mp



tins / bottles / glasses / jars / vials

Filling: semi- and fully-automatic

1 FG series

Universal filling machine for liquids and viscous products.

Filling range: 3–1200 ml

Output: 5–25 cycles/minute*

Drive: hand lever, pneumatic, electric motor, servo motor

Optional accessories: heating funnels, rotating agitators, automatization conversion package, etc.

Features: may be automated, integrable with fully automatic filling machines.

2 WF-series

Peristaltic Filling Machine.

Filling range: 0.5 to 5000 ml

Output: 5–25 cycles/minute *

Drive: 230 V, 50 Hz

Functions: peristaltic filling principle for easy cleaning, rapid product change, automatable, compatible with fully automatic filling machines.

3 PD-series

The universal filling machine.

Filling range: 1–5000 ml

Output: 3–20 cycles/minute *

Drive: pneumatic or servo motor.

Special accessories: heating funnels, rotating agitators, automatization package, etc.

Features: automatable, compatible with fully automatic filling machines.

* Depending on filling quantity and operator.



Bettina Fink
Fink-Haberl KG

»WICK machinery impressed us with its high quality. They inspected the machines on site, discussing production processes and we were thrilled by Andreas Wick's personal and clear-cut advice.«

1 FG-Serie



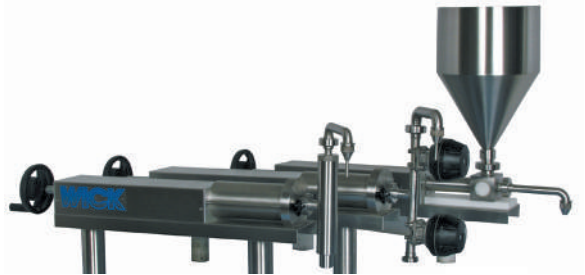
cups / tins / bottles / glasses / jars / tubes

2 WF-Serie



bags / bottles / glasses / infusion bottles / injections / vials

3 PD-Serie



cups / tins / bottles / glasses / injections / jars / tubes



Dosing Systems

Do you really want to risk all in a one size fits all solution? Some are happy with a systemic solution. We at WICK machinery are not, because we want you to have the best. That's why we offer all current standard dosing systems to find the optimal solution for each application.

1 Piston filler

- Optionally with mechanic, pneumatic or servo drive
- High precision repeating mechanism
- For variable viscosity

2 Slide valve filler

- Alternatively with mechanical, pneumatic or servo drive
- Ideal for products with variable viscosity

3 Continuous dosing

- Peristaltic dosing system, for simple cleaning
- Gearwheel pump, for basic filling tasks
- Mono pump, ideal for larger batch

4 Flow metering

- Alternatively, with magnetic inductive or mass flow meter
- Highly flexible operation
- Ideal for linear fillers and mono-blocks

5 Rotary piston filler

- Alternatively, with mechanical or servo drive
- High precision repeating mechanism
- Ideal for highly viscous products and for small dosages

Tablet press

Suitable for production and testing purposes

Max. tablet diameter: 18 mm

Max. filling dept: 17 mm

Pressure: 2000 kg

Output: 45-90 strokes/min.

1 Piston filler



2 Slide valve filler



3 Continuous dosing



4 Flow metering



5 Rotary piston filler



Tablet press



A summary of our services



Project development

- Initial consultation, counseling
- Individual technical and operations planning
- Optimization consultation
- Ongoing project management
- CAD prototyping, 3D model



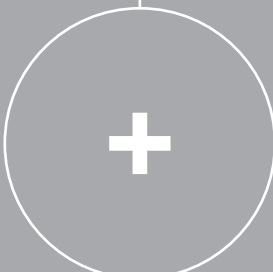
Delivery / Installation

- Delivery and assembly
- Machine commissioning
- Introductory on-site operational support



After-sales service

- Full service documentation (available online)
- Maintenance and repairs
- Service hotline during office hours: technical support with rapid response by phone and e-mail
- Repairs (including third-party products)
- Replacement and mould supply on demand
- Additional machine customizing (upgrade option)



Additional and Special Services

- Optimization of third-party machinery
- Machine validation acc. GMP
- Consulting/Advice
- Regular inspection
- Testing service and set-ups



Rely on us!

Our units can fill a variety of different containers from 16 microliters to 10 liters: bottles, pots, jars, tubes, cans, bags, mugs, infusion bottles and vials. We supply global market leaders and well-known companies, global players and regional enterprises in the pharmaceutical, chemical, cosmetic, diagnostic and food industries.

We at WICK machinery look forward to helping you and to the success of your products!

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