

Engineering Specialists



System Manufacturers



Machine and Component Manufacturers



Engineering and Service



The Packaging Valley Guide The Packaging Machine Engineering Specialists – An Overview

Last updated: July 2017

Packaging Valley Germany e.V. - Stauffenbergstraße 35-37 74523 Schwäbisch Hall / Germany



Get to the heart.

Take Advantage of the Expertise in Packaging Valley

Packaging Valley offers you a diverse range of suppliers and service providers in packaging machine engineering. Be inspired by our cuttingedge technologies.

>> At Packaging Valley, we are committed to being one step ahead of the rest to present you with advanced technologies for your packaging needs. <<

Kurt Engel, Management of Packaging Valley Germany e.V.

Packaging Valley Germany e.V. Stauffenbergstraße 35-37 74523 Schwäbisch Hall Germany

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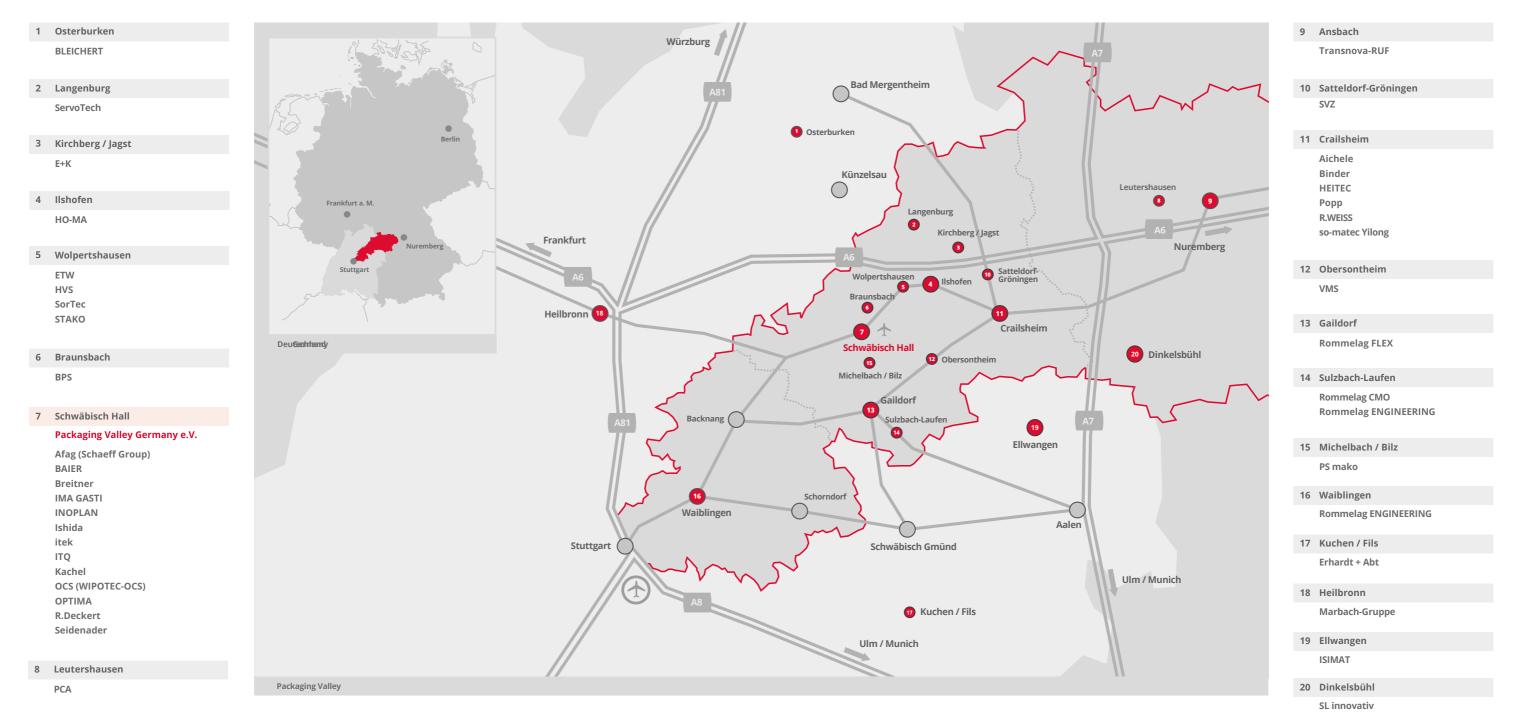
info@packaging-valley.com www.packaging-valley.com Make use of the Packaging Valley Guide and find the right partner for your packaging needs.

Get to the heart -Visit us in Packaging Valley

Packaging Valley is a network of 40 companies from the packaging industry. In the region between the metropolitan centers of Frankfurt, Stuttgart and Nuremberg, you will find inventors and producers of state-of-the-art packaging

technologies concentrated in and around the cities of Schwäbisch Hall and Crailsheim in particular. You can count on us to deliver outstanding quality that surpasses all standards, the best solutions for your needs and international service.

A workforce **7,000** is employed in the packaging machine engineering industry



in the Packaging Valley region.

Diversity of Technologies in Packaging Valley

You will find the right product to meet your needs, from individual custom modules and innovative components to optimized turnkey lines.

The following pages present the profiles and services of our member companies in the categories of system manufacturers, machine and component manufacturers as well as engineering and service.

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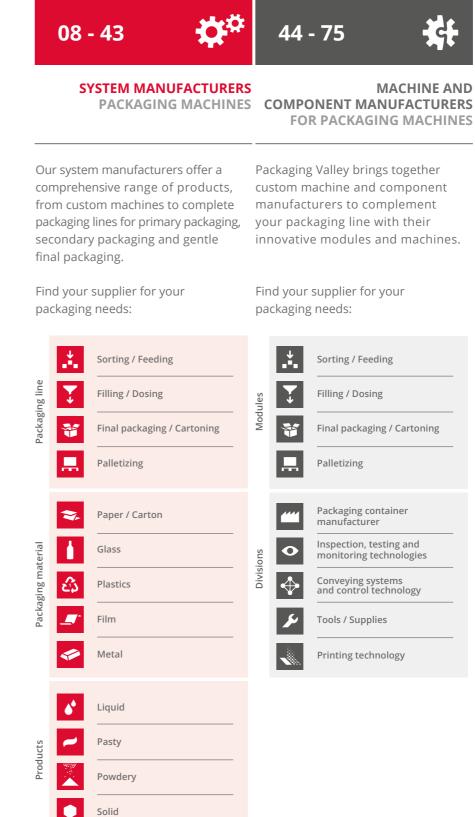
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MACHINE AND FOR PACKAGING MACHINES

ENGINEERING AND SERVICE

Find the ideal partner from our pool of suppliers of machine engineering services and other packaging tasks.

Final packaging / Cartoning

monitoring technologies

Find your supplier for your packaging needs:



Machine and process optimization

Automation and

software

Planning

Technical

Engineering /





Validation / Qualification

documentation

Contract manufacture



Erh

HVS

IMA

OP

PC/

Рор

PS

R.D

Ron

R.W SO-

SVZ

Trar

VMS



Our system manufacturers offer a comprehensive range of products, from custom machines to complete packaging lines for primary packaging, secondary packaging and gentle final packaging.



SYSTEM MANUFACTURERS **PACKAGING MACHINES**

| IER | 10 - 11 |
|--------------------|---------|
| EITNER | 12 - 13 |
| nardt + Abt | 14 - 15 |
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Area of Expertise: Individual Robot Solutions

Baier Engineering GmbH

BAIER ENGINEERING GmbH offers robot automation solutions customized exactly to your requirements both in the food branch and also in non-food sectors.

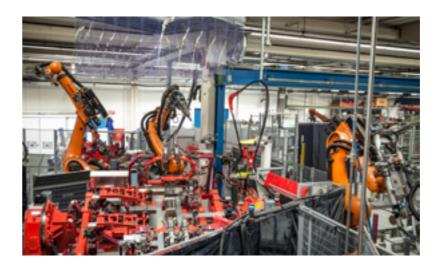
Using the latest technologies, we claim to provide the optimum solution for the automation challenges you are faced with, to reduce your costs and increase productivity.

As system integrator for robot applications we offer you partial integration or a complete solution from one

source – from project planning through to implementation and including CE certification and commissioning at your premises. Included are hardware and software engineering, production, simulations with feasibility studies, risk assessment, conveying and safety fencing.

Good to know: We use brand names such as Kuka, Fanuc, Kawasaki, Adept and ABB.



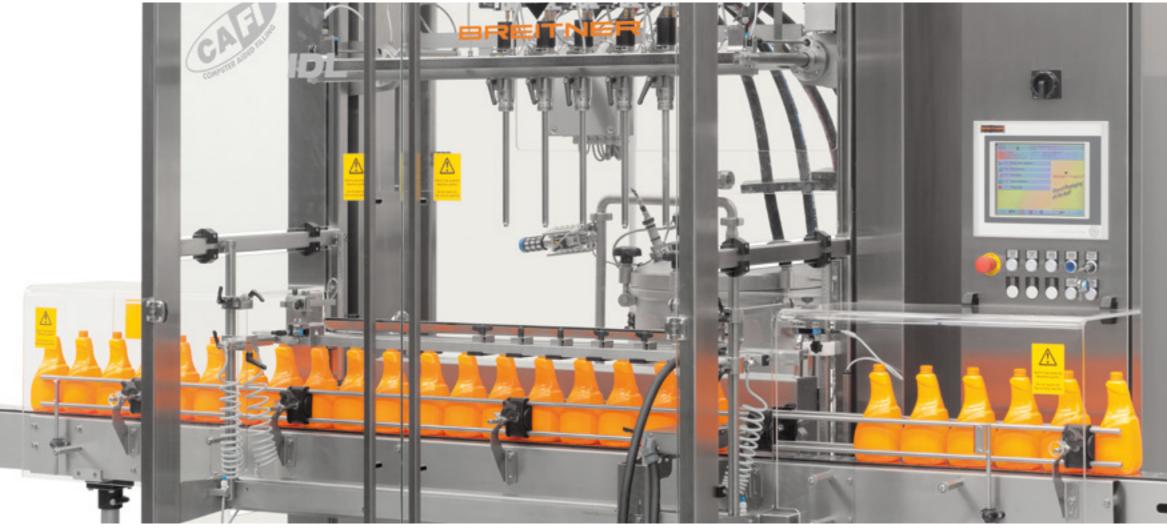




| | MANUFACTURERS AGING MACHINES |
|---|---|
| Primary packag | ing |
| Sorting Feeding | Filling Dosing |
| Secondary pack | aging |
| Palletizing 🔏 | Final packaging C- |
| Pack. Material | Products |
| , Paper Carton | > Liquid |
| > Glass | > Pasty |
| > Plastics | > Powdery |
| > Film | > Solid |
| > Metal | |
| Industries / Refer > Pharma > Cosmetics > Non-Food > Wood | Chemistry Food Automotive |
| Contact | |
| Founded in: | all / Germany 9890 9638 ring.de |
| Specialities | Scan Card |
| Individual turn-ke machine systems palettizing and depalettizing, han and sorting | for The for |

- > Robot simulation
- Energy efficiency gripper systems





Area of Expertise: **Filling Machines with Flow Measurement**

BREITNER Abfüllanlagen GmbH

As a manufacturer of filling and capping machines, BREITNER offers customized solutions for almost all liquid and viscous products. These may be products such as shampoo, honey, ketchup, hydrochloric acid, superglue or engine oil. Equipped with innovative flow measurement technology, our filling machines offer decisive advantages.

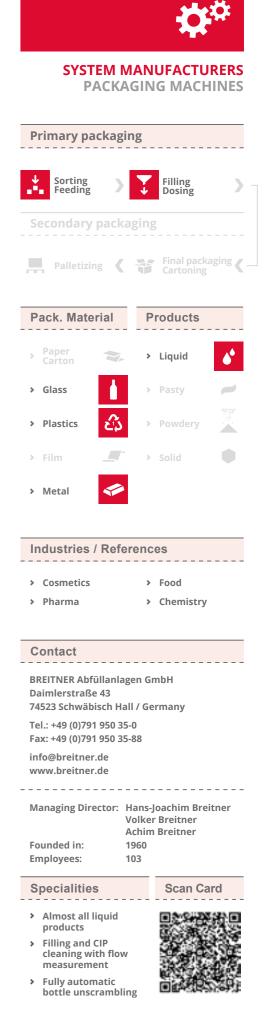
The capping machines are suitable for simple and complicated closures, and allow for high performance and dripfree capping. High performance bottle unscramblers for plastic bottles complete the fully automatic packaging line.

Our portfolio is also complemented by automated CIP cleaning systems, as well as filling and sealing in accordance with ATEX directives.

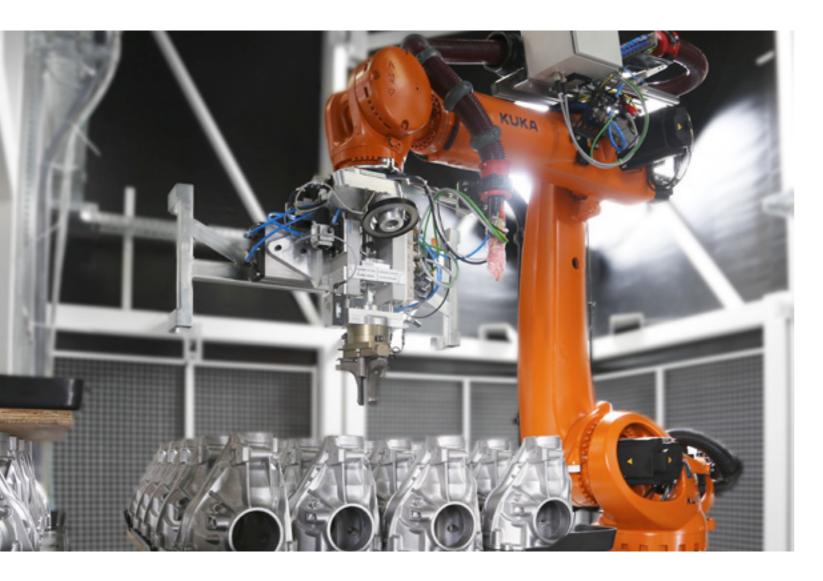
Good to know: specialized in the output range of 30 to 300 containers per minute, our systems are aimed at filling quantities from 20 ml to 30 litres, and meet the highest requirements of the food, chemical and cosmetic industries. High hygiene standard: powerful and universal In-Line Filler with up to 16 filling stations and fully automatic sealing machines for intricate closures with tubes.











Special field: Industrial X-ray technology, robot automation and programming services

Erhardt + Abt Automatisierungstechnik GmbH

Erhardt + Abt offers turnkey automation solutions from one source. Our expertise consists of the fields of industrial X-ray testing systems, robotics and automatization. Our service portfolio comprises consultation, planning and conception of industrial solutions.

With our know-how in virtual commissioning and X-ray technology, we offer ideal products for quality control, error minimisation and realisation of zero-defect concepts. By means of simulation model we check the system behviour in order to minimize production downtimes during the real start-up and to rectify faults at an early stage. By means of integrated industrial robots and the technology of industrial X-ray, we achieve a 100-percent inspection, and nonetheless we attain a very high throughput rate in in-line operation of mass production.

Good to know: As part of the HEITEC group of companies with more than 1,000 employees we ensure proximity to customers and comprehensive sector expertise all over the world.









Wheel inspection system Flexible x-ray inspection Inline x-ray inspection

Assembly system Packaging plants Linked systems

;





Services Simulations Virtual commissioning Software development







Area of Expertise: Upgraded Cartoning Solutions and **New Cartoning Machines**

HVS Hohenloher Verpackungssysteme GmbH

Specializing in cartoning packaging solutions including integrated product supply and control systems, HVS optimizes existing customer machines to current field requirements as well as providing tailor-made new cartoning machines. Starting from the development of complex packaging solutions or single sub-assemblies for the secondary packaging section, HVS delivers the complete project planning and is in responsibility for ensuring a smooth process until production. The systems in our machines includes Track & Trace, product handling, closure and supply systems as well as

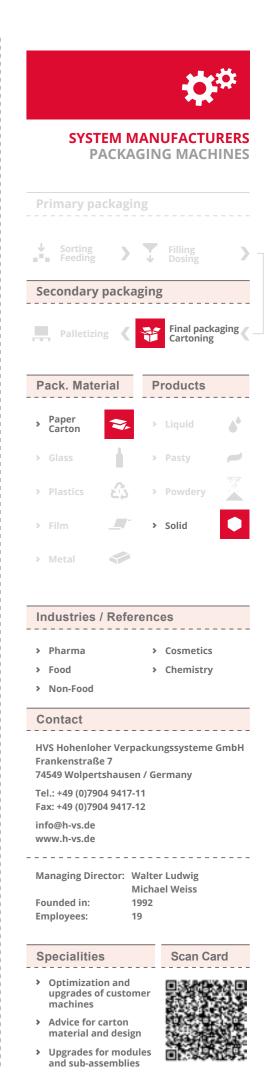
product transport units, which can be also upgraded and integrated in existing machines at the customer site. With our knowledge in the field of carton material and carton design, we support you in the development of innovative special cartons and we deliver your specific tailor-made supply systems for the cartoning machines.

Good to know: based on a large network with other packaging specialists from the region, we will find always the optimum solution for your individual needs.





For secondary packaging: tailor-made new cartoning machines and upgraded machines.









GASTI Verpackungsmaschinen GmbH

GASTI offers a comprehensive range of cup filling and closing lines in various hygiene levels for the dairy and food industries. With outputs up to 40,000 cups per hour our machines fulfill the highest requirements for a wide variety of cup profiles and materials.

Highest packaging and product flexibility, proven aseptic technology with a germ reduction rate of 10⁶ guaranteeing optimal results. Complementary and specially designed

end-of-line packaging components for your packaging lines ensuring a waste-free production process.

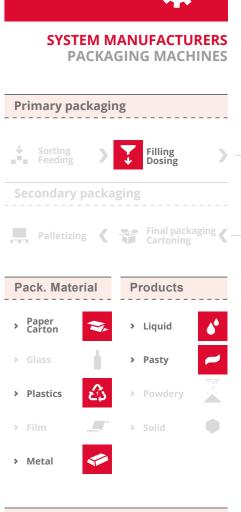
Good to know: being part of the IMA DAIRY & FOOD group we offer fast and global service. Additional benefits are access to international markets via a broad spectrum of technology and knowledge.





Filling maschines for various hygiene levels.





Industries / References

> Food

Contact

GASTI Verpackungsmaschinen GmbH Raiffeisenstraße 8 74523 Schwäbisch Hall / Germany

Tel.: +49 (0)791 402-0 Fax: +49 (0)791 402-100

info.dairyfood@ima.it www.imadairyfood.com - www.ima.it

Managing Director: Thomas Seyßler Founded in: 1900 Employees: 80

Specialities

- > Dairy and food industry
- Aseptic technology with germ reduction rate 10⁶
- > Turnkey lines

Scan Card



OPTIMA



Highest Requirements and Flexibility for Medical and Pharmaceutical Products

OPTIMA pharma

OPTIMA pharma develops and builds filling, closing and processing technologies for pharmaceutical products. Our automated systems are used to process blood plasma products, vaccines, oncology and biotech products in disposable syringes, vials, IV bags and carpules.

Additional functions and processing technologies such as washing machines, sterilization tunnels and containment systems are integrated as needed. Pharmaceutical freeze drying and robotic product handling complete the product portfolio.

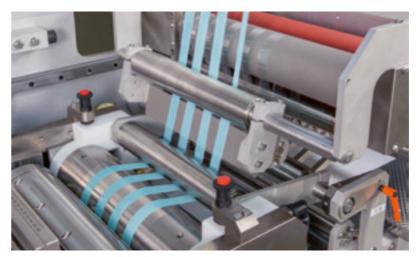
OPTIMA life science

OPTIMA life science offers flexible manufacturing and packaging processes for fields as diverse as wound dressings, transdermal and electrode patches as well as immunoassays (ELISA test kits). Our core areas of expertise include web processing technologies and liquid coatings.

We develop complete automated lines with integrated packaging functions. These modular machine systems offer unsurpassed plug-and-play flexibility.



Filling machines for disposable syringes. Further containers like carpules and vials can be processed by this flexible plant.



Oral and dispersible films quickly dissolve in the mouth and can be made to include active pharmaceutical ingredients.

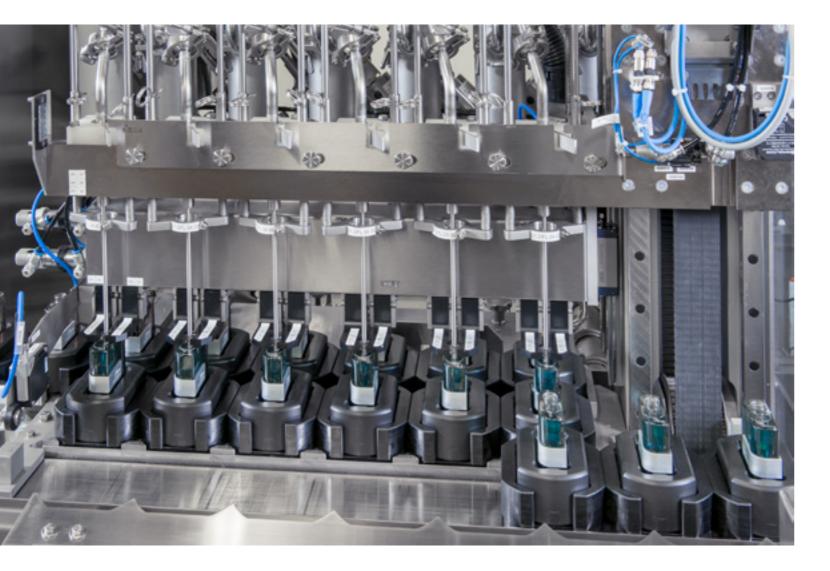
OPTIMA packaging group GmbH

Industry-oriented packaging machines and innovative custom solutions require strong specialization. To fulfill this requirement, we have organized our subsidiaries in the fields of Pharma, Life Science, Consumer and Nonwovens. We design and build equipment for use around the globe, from single standard machines to complete turnkey operations.

Good to know: with 13 international locations, we guarantee you rapid service around the world.

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| | ANUFACTURERS GING MACHINES |
| Primary packagin | g |
| Sorting Feeding | Filling Dosing |
| Secondary packag | ging |
| Palletizing 【 | Final packaging Cartoning |
| Pack. Material | Products |
| • Paper 🗢 | > Liquid |
| > Glass | > Pasty |
| > Plastics | > Powdery |
| > Film | > Solid |
| > Metal | |
| Industries / Refer | ences |
| > Pharma | > Diagnostics |
| > Biotechnology | > Life Science |
| Contact | |
| OPTIMA packaging gro Steinbeisweg 20 74523 Schwäbisch Hall Tel.: +49 (0)791 506-0 Fax: +49 (0)791 506-900 info@optima-packagin www.optima-packagin | / Germany 0 g.com |
| | ans Bühler 922 150, worldwide |
| Specialities | Scan Card |
| Turn-key lines | |
| Modular design | |
| > Robot systems | 90 C 49 |
| Different products and product sizes | |

OPTIMA



Cutting-Edge Technology for Food, Cosmetics, Chemicals and Sanitary Paper Products

OPTIMA consumer

Discover our range of intelligent packaging solutions for foods, cosmetics and chemistry. Packaging systems made by OPTIMA consumer are used to process a large variety of products from liquid to viscous, powdery or granulated, from portion packs to bulk containers, from coffee capsules to mascara tubes and oil canisters. In addition to stand-alone machines, we also supply high-performance filling and closing systems plus cartoners with robotic and hygienic features, depending on task. We also team with our customers to develop creative packaging ideas and technologies in the areas of single serve, functional closure and film bag domains.

OPTIMA nonwovens

OPTIMA nonwovens offers flagship packaging technologies for disposable paper articles such as diapers, sanitary napkins and tissue rolls. We guarantee that our packaging systems work synchronously with the machines in your manufacturing facility. Our flexible systems of machines with small/medium output to high-performance units cover the entire range of small to large packages. When combined with inspection functions and secondary packaging and palletizing units completely automated lines are being created.



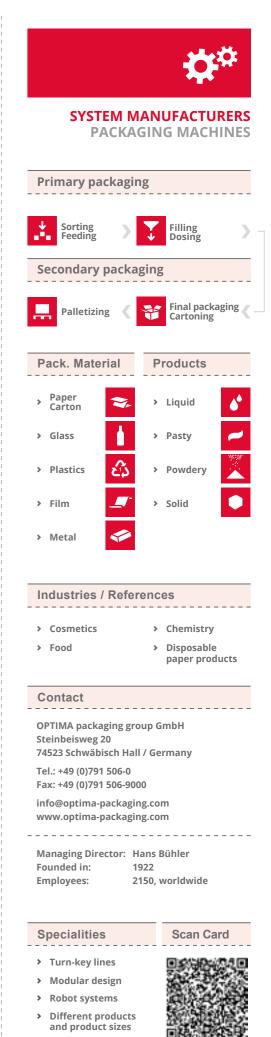
For decades: OPTIMA nonwovens is a technology leader in packaging of nonwovens.



OPTIMA consumer manufactures the fastest packaging machines for coffee capsules and soft pads including highest accuracy in filling.











Area of Expertise: Packaging and Palletizing Lines

PCA Roboter- und Verpackungstechnik GmbH

As specialists for packaging and palletizing lines, we offer everything from tailor-made stand-alone machines up to complete turnkey packaging lines. Even if space is limited, our palletizing robots and multi-axle portals are characterized by the production of large quantities as well as the adaptation to a variety of products and product sizes. Erectors, top loaders, lidding machines and case packers as well as handling systems for a wide range of product forms like tubes, bottles, rollers or plastic crates

and the corresponding transport systems complete our product range.

Good to know: as one of the leading medium-sized manufacturers of packaging machines, we perform all steps from the planning stage through to the realization stage on our site. We thus guarantee the protection of your technical know-how as well as the timely completion.





System solutions made in a single source: from the planning through to the individual implementation.









Area of Expertise: Integrating Packaging Machine Technology with Paper Handling

Popp Maschinenbau GmbH

Specialized on processing paper and paper products in connection with packaging technology, Popp Maschinenbau GmbH builds specialized machines and components for the packaging industry. Our production line goes from stand-alone machines, systems up to packaging lines for processing paper and paper products exactly to our customer's demands.

The machines are suited for separating, aligning, transporting, folding, collecting, cutting, gluing and labeling products. In addition we offer specialized systems around feeding products to your packaging lines.

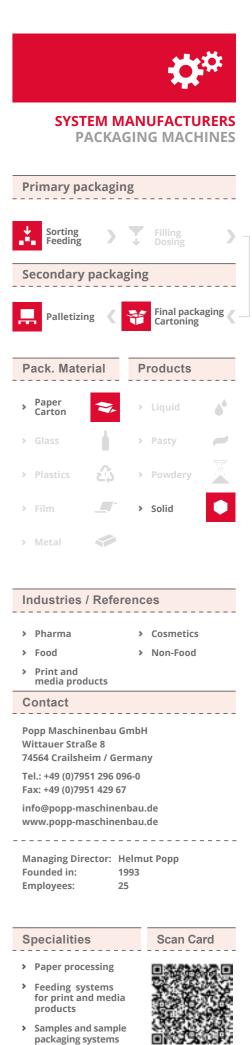
Good to know: our customers include printing offices, bookbinders, letter shops, photo labs, packaging companies, government agencies, banks, mechanical engineering firms, paper and packaging technology dealers, insurance companies, and the investment and consumer goods industries.







According to your demands: our machines for processing paper and paper products.







Area of Expertise: Semi- and Fully Automatic **Bag Filling and Closing Machines**

PS mako GmbH packaging systems & machines

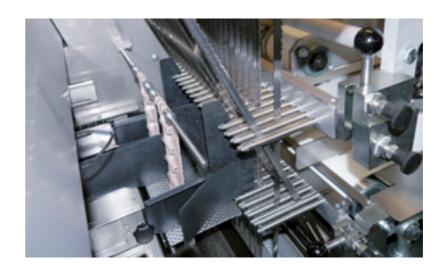
For 50 years the company PS mako GmbH has been successfully developing, producing and selling semi- and fully automatic bag filling and closing machines as well as clip closing machines in all performance classes to the food and consumer industries throughout the world.

The packaging machines are designed mainly for the processing of premade film and paper bags. They are frequently used in the bread and bakery industry in combination with industrial slicing machines of their own product portfolio.

As a specialist for clip closing machines for the processing of all types of bags, PS mako GmbH is the market leader in the production and distribution of a newly developed metal-free tamper-evident clip closure. The diversified product range includes also bag heat sealing machines as well as "up- and downstream" peripheral components.

Good to know: the constant technical development ensures a high innovative power, the highest level of quality, reliability in multishift operation and customized solutions also for special requirements.









Semi- and fully automatic bag filling and closing machines with appropriate clip closures.





| | \$ |
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| • | ANUFACTURERS GING MACHINES |
| Primary packagin | g |
| ↓ Sorting > ■■ Feeding > | Filling Dosing |
| Secondary packa | ging |
| Palletizing 【 | Final packaging Cartoning |
| Pack. Material | Products |
| > Paper Carton | > Liquid |
| > Glass | > Pasty |
| > Plastics | > Powdery |
| > Film | > Solid |
| > Metal | |
| Industries / Refer | ences |
| > Food | > Non-Food |
| | |
| Contact | |
| PS mako GmbH packag Industriestr. 5 74544 Michelbach/Bilz | ing systems & machines / Germany |
| Tel.: +49 (0)791 930 08- Fax: +49 (0)791 930 08-2 | D |
| info@psmako.de www.psmako.de | |
| Managing Director: A Founded in: 19 Employees: 42 | 964 |
| Specialities | Scan Card |

- > Bag filling and closing machine
- Specialist for clip closures
- > Slicers







Area of Expertise: Turn-Key Engineering for Pharmaceutical Solids and Liquids with Specialized Technology

R.Deckert GmbH & Co.KG

Our solutions for tablets and liquids present themselves in the form of modular filling and packaging equipment for liquids, tablets, capsules and dragées. Utilizing the newest technologies for controlled cleaning and qualified dosing, we set new standards in the pharmaceutical industry which guarantee you and your customers both accurate and repeatable results.

Equipped with stand-alone modules for cleaning, desiccant and cotton insertion, filling, weighing capping and labeling processes, our systems can be configured as required. We also develop customised solutions, tailored to perform complex tasks, and provide secondary packaging systems with appropriate serial coding solutions.

Good to know: our machines modular construction, designed for rigid plastic and glass primary packages, makes them compatible with various closure technologies.





Implementation of the EU falsification guideline with folding carton labeling and TRACK & TRACE STATION.



"Complex tasks - packaged solutions". With our Tablet & Liquid Solutions, we guarantee precise and repeatable results and set new standards in the pharmaceutical industry.

| | \$₽ |
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| SYSTEM MANU PACKAGINO | JFACTURERS G MACHINES |
| Primary packaging | |
| Sorting Feeding | Filling Dosing |
| Secondary packaging | Final packaging |
| | roducts |
| , Paper | Liquid |
| > Glass | Pasty |
| > Plastics | Powdery |
| > Film | Solid |
| > Metal | |
| Industries / Reference | |
| > Pharma > | Cosmetics |
| Contact | |
| R. Deckert GmbH & Co. KG Steinbeisweg 60 74523 Schwäbisch Hall / Ger | many |
| Tel.: +49 (0)791 951 51-0 info@rdeckert.com www.rdeckert.com | |
| Managing Director: Uwe De Founded in: 1972 Employees: 40 | eckert |
| Specialities | Scan Card |
| Filling of tablets and liquids Controlled cleaning and exact dosing Turn-key lines | |

Implementation of EU falsification guideline

ROMMELAG **ENGINEERING**



Area of Expertise: **BFS bottelpack® Technology for Aseptic Filling**

Rommelag Kunststoff-Maschinen Vertriebsgesellschaft mbH

Rommelag is the inventor of the Blow-Fill-Seal (BFS) process and the global market leader in the field of BFS packaging systems. Known by the brand name bottelpack[®], our BFS bottelpack[®] packaging systems are used all over the world.

Our customers benefit from a unique product and service portfolio that enables them to package products easily, safely and economically with BFS bottelpack®

systems. As an innovative and reliable partner, we offer our clients on-going support and effective guidance.

Good to know: the companies Rommelag, Kocher-Plastik and Maroplastic are grouped together under Rommelag ENGINEERING. Rommelag is the contact point for Service and Sales with locations in Switzerland, Germany, USA and China.

| | () ROMMELAG | | |
|--|--|--|---|
| | | | |
| For the consultation, production, and sale of bottelpack systems and testing machines. Kocher-Plastik Maroplastic Rommelag | Your specialists for the BFS contract manufacturing of liquids and semi- solid products. Holopack Maropack | The professionals for flexible packaging and containment solutions Thermo-Pack Flecotec | Care and support for all of our customers and partners. Kocher-Plastik Maroplastic Rommelag Rommelag Rommelag Borvice |

The Rommelag Group

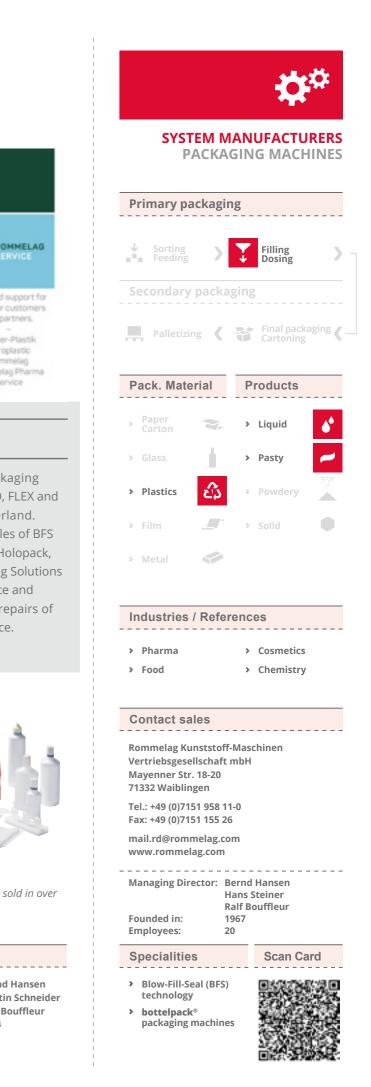
The brand Rommelag represents a strong union for packaging solutions in the four specialist areas of ENGINEERING, CMO, FLEX and SERVICE. Companies are located in Germany and Switzerland. Rommelag ENGINEERING deals with the Production and Sales of BFS systems. Rommelag CMO covers Contract Manufacturing (Holopack, P.76), while Rommelag FLEX specialises in Flexible Packaging Solutions (Thermo-Pack, P.68). Rommelag SERVICE offers maintenance and spare parts services, customer training, modification and repairs of bottelpack systems, as well as the Rommelag Pharma Service.



BFS bottelpack[®] packing systems, more than 1,800 of which have been sold in over 80 countries, are the flagship of our product and service portfolio.

| | Contact engineering | | |
|---|---|---|---|
| _ | Kocher-plastik Maschinenbau GmbH Talstraße 22-30 74429 Sulzbach-Laufen Tel.: +49 (0) 7976 80-0 Fax: +49 (0) 7976 80-100 | Managing Director: Founded in: Employees: | Bernd Hansen Martin Schneider Ralf Bouffleur 1964 650 |
| | mail.kp@rommelag.com | | |

www.rommelag.com







Area of Expertise: Packaging with Top-Loading Machines UNIROB

R.WEISS Verpackungstechnik GmbH & Co. KG

R.WEISS is synonymous with high-performance components and complete systems for packaging dry bulk products in primary and secondary packages. As one of the leading producers of complex packaging machines in Germany, we can supply a wide range of products and services for nearly any project.

From the erector to the top-loading machine UNI*ROB* we offer solutions according to the modular design principle. We are also qualified to provide machine planning,

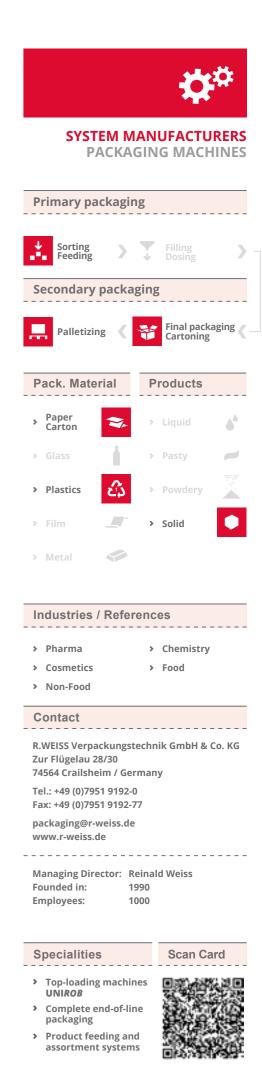
special-purpose solutions, and flexible installation services. Depending on the requirements, we can integrate printers, labelers, laser markers, and all the necessary inspection functions in our systems.

Good to know: our team has specialized in offering integrated solutions. Thus our credo is optimization and increased efficiency.





Fast, safe, and reliable, with high added value. Our modular solutions allows optimization and increased efficiency.







Area of Expertise: Vertical Cartoning Machines and **Components for Easy Format Changes**

so-matec Yilong GmbH

The company so-matec Yilong manufactures semi-automatic and fully automatic packaging machines, focussing cartoning solutions. We offer cardboard container errector as well as horizontal and vertical cartoning machines. From gable topped cartons to self unfolding base cartons, our machines can process the most varied shapes fully automatically, closing both the top and the bottom.

Depending on the need, ergonomically accessible manual processing stations can be combined with semi-automatic processes. In this way, we offer economical solutions for small batches. Made especially for your needs, our compact machines can be put to work in many different production areas. By integrating our own engineered STELLMAX products into the machines, we deliver fast and cost effective format changes.

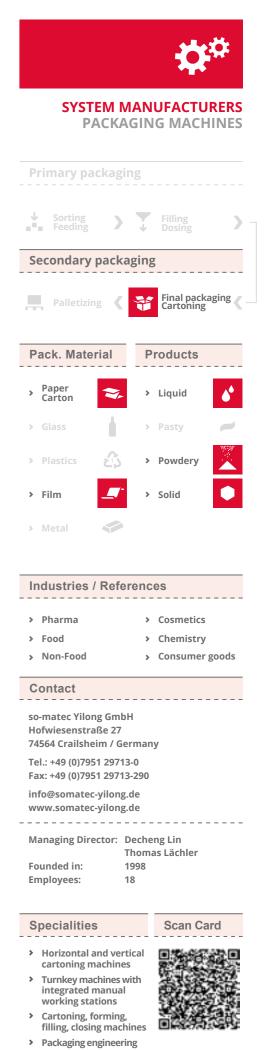
Good to know: we round out our portfolio of products with conveyor belts which can be adjusted in length and adapted to the production situation as required.







The cartoning machines are offered in various degrees of automation and in two sizes. Cartons with a width of 185 mm can be processed.







Area of Expertise: End-of-Line Packaging Machines

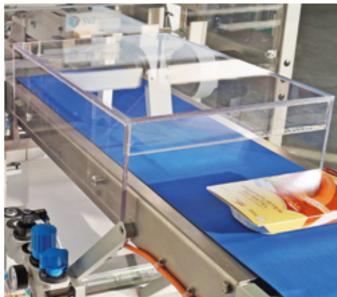
SVZ Maschinenbau GmbH

SVZ Maschinenbau GmbH engineers, builds and installs on site packaging machines for the end-of-line packaging process. The packaging systems are used in the food-, confectionary-, pharmaceutical-, cosmetic- and some other industries. We supply machines for the secondary packaging process which covers complete downstream applications such as feeding, arranging and packaging of various products and material up to palletizing of goods. Standard machines are case-erectors, top- and sideloader, closing and lidding machines as well as cardboard

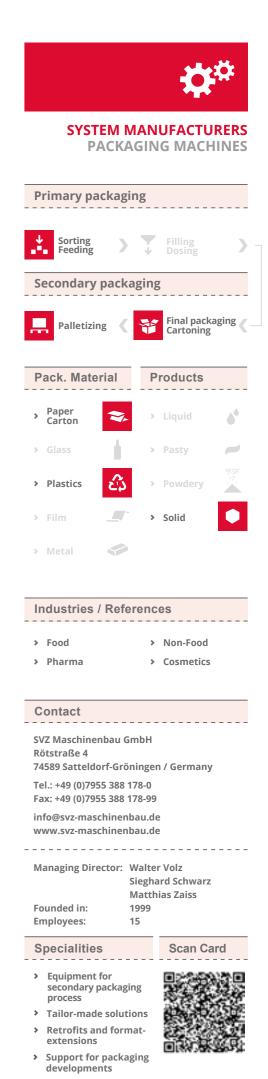
-sleever for convenience products. In addition we offer retrofits and tailor-made solutions.

Good to know: furthermore we provide our know-how for supporting the packaging development in cooperation with the preferred material suppliers. More than 15 years of experience in the packaging field and a high quality standard ensure you a high degree of reliability and productivity. SVZ-equipment is available for other European countries as well.





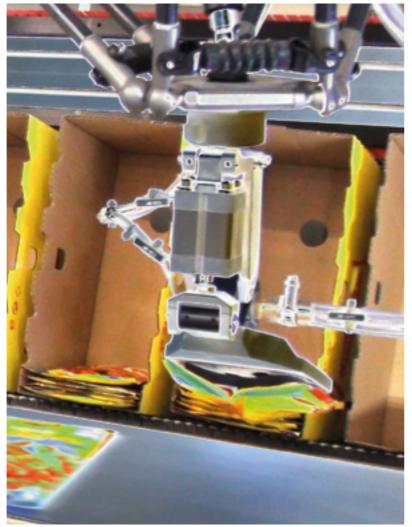
Innovative secondary packaging machines: from feeding and packaging of various products up to completed pallets.



www.packaging-valley.com 39









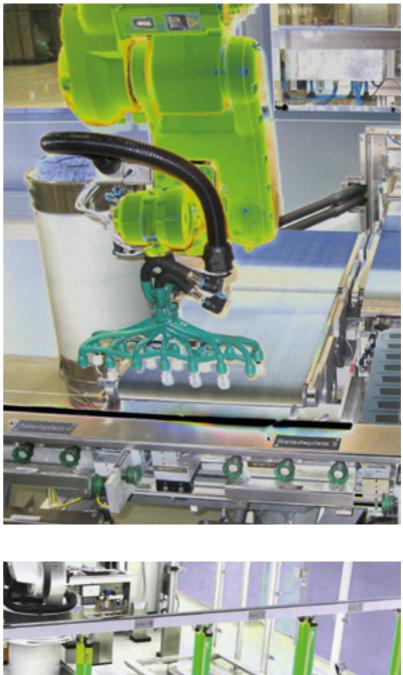
Transnova-RUF Verpackungs- und Palettiertechnik GmbH

Transnova-RUF GmbH stands for innovative solutions for end-of-line packaging and palletizing technology.

Our product portfolio includes single compact machines for top- and side-loading, picking robot systems for efficient pick & place applications, robot systems for picking, palletizing and depalletizing tasks and also complete integrated final packaging lines. The micro modular machine

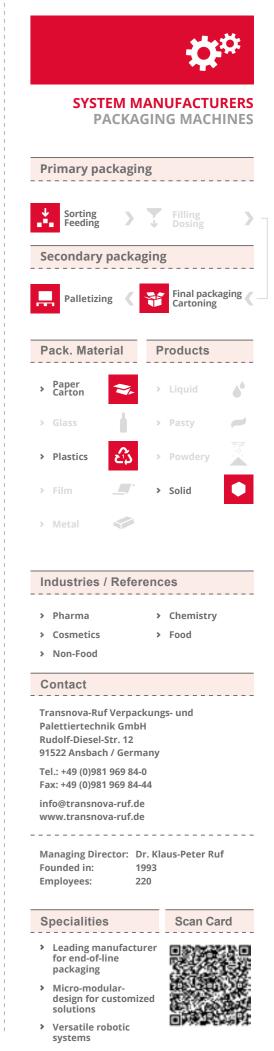
architecture allows us according to your requirements to combine individual modules and to develop customized solutions for you. We guarantee you an efficient and safe packaging process of the product.

Good to know: our versatile robotic systems, which are also suitable for a small footprint, making us the leading manufacturers in the final packaging.

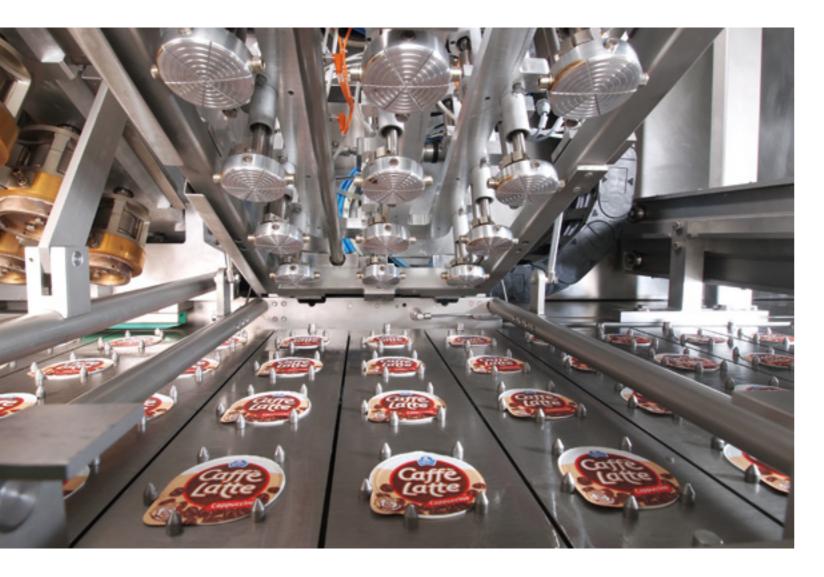




Customized solutions: modular modules can be combined in different ways.







Area of Expertise: Aseptic Filling & Sealing Machines 10⁶

VMS Maschinenbau GmbH

Our core competence is the manufacture of aseptic filling & sealing machines of the highest hygiene level of the food industry with a germ reduction of 10⁶. We design and manufacture aseptic filling & sealing machines, complete aseptic modules for packaging sterilization and aseptic fillers for retrofit on existing machines of other makes including service and spare part supply for this technology. We deliver the right solutions which match

your requirements and specifications where complex products, shelf life demands, packaging materials or space limitations cause problems.

Good to know: we guarantee a continuous cooperation with our customers combined with our highly specialized technology we are able to deliver fast and cost effective equipment.

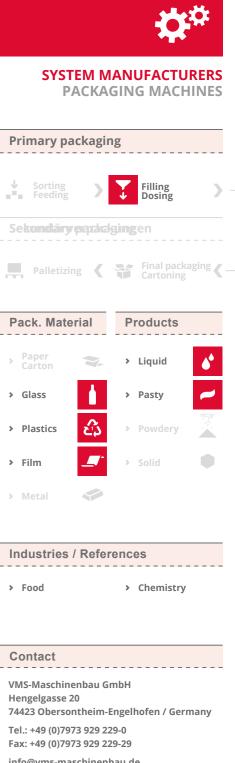






Precision is our passion: from the production of single modules and complete machines through to spare part supply for external brands.





info@vms-maschinenbau.de www.vms-maschinenbau.de

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ . Managing Director: Markus Köger

Roland Trittner 1994 60

Specialities

Founded in:

Employees:

- Aseptic packaging of food products
- > Single modules and completed machines
- > Spare part supply

Scan Card





Packaging Valley brings together custom machine and component manufacturers to complement your packaging line with their innovative modules and machines.

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MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES

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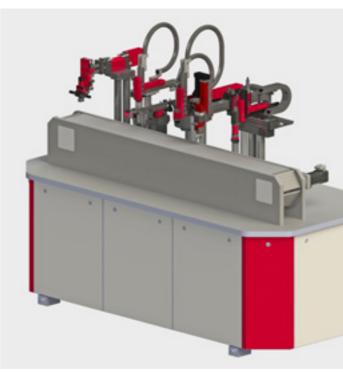


Afag GmbH (Schaeff Group)

As a leading industrial automation provider, the Afag Group has been developing and producing components in the areas of feeding, handling and transport for more than 60 years. It is our goal to use state-of-the-art technologies and innovative solutions to meet the high packing technology standards as well as those of the global automation industry.

We provide standardised handling, feeding and transport systems as well as individual solutions that we develop specifically for your application. We offer feeding systems for the packing industry and meet stringent requirements including those for cleanroom conditions. Reliability, quality and efficiency are of the utmost importance to us.

Good to know: We provide, amongst other things, feeds from pourers and closures for resealable bags, as well as linear conveyors for use in counting, metering and weighing processes. Our production facilities are located in Germany, Switzerland and the USA, as well as Asia (distribution) from autumn 2017.



Complete packages in the areas of feeding, handling and transport.



Handling systems – the right system for every application



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| A Ha 92 Te Fa | fag GmbH company of Sc all) (ernher-von-Bra 2224 Amberg / (el.: +49 9621 65(ax: +49 9621 65(alles@afag.com ww.afag.com | aun-Str Germai) 27-0 | asse 1y | - |
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Area of Expertise: Rotary Cutting Technology and Tools

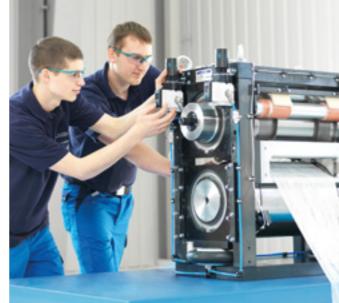
Aichele Werkzeuge GmbH

Aichele Werkzeuge is known as global leader in rotary cutting technology and in the manufacture of tungsten carbide and diamond special tools. We develop and manufacture patented and innovative precision cutting systems and tools for a wide variety of industrial sectors.

Our cutting technology is suitable for all levels of vertical integration in your packaging solutions, and enables an increase in productivity and reliability of the production process. Apart from that, we provide customized solu-

tions, from the rotary cutting unit for existing production lines up to complete cutting solutions with infeed and outfeed systems as well as the supplementary drive and control equipment.

Good to know: worldwide maintenance service ensures a long service life of our high-quality products.





Challenging projects require excellent tools. 75 years of experience in the manufacture of tungsten carbide tools and 30 years of experience in the field of rotary cutting guarantee highest quality and expert knowledge.



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| Zur Flü | e Werkzeu gelau 40 Crailsheim | | | | |
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| Suitable for all levels of vertical integration | | | | | |
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Binder GmbH

The company Binder is a specialist for apparatuses and containers made of stainless steel and special materials.

We manufacture fermenters, bio-reactors, stirring units and processing containers along with pressure and collection containers for the pharmaceutical, chemical, cosmetic and food industry as well as for mechanical engineering in the fluid filling-system sector. As your competent partner

with many years of experience, we implement your wishes and process engineering requirements for a wide range of purposes. Depending on the requirements, the containers are carefully tested and documented GMP-compliant.

Good to know: among others, the tests include positive material identification tests, roughness measurements or riboflavin tests.



For a wide range of purposes: fermenters, bio-reactors, stirring unit and processing containers, pressure and collection containers.



There are modern mechanical machines which can be used to manufacture exact finished processual plug-ins.



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| > | Cosmetics | > | Food |
| > | Non-Food | | |
| С | ontact | | |
| Ro 74 | nder GmbH Apparat oßfelder Straße 58 1564 Crailsheim / Ge el.: +49 (0)7951 9177-(| rman | |
| | ix: +49 (0)7951 9177-7 | | |
| | fo@bindergmbh.de ww.bindergmbh.de | | |
| Fo | anaging Director: R ounded in: 1 nployees: 4 | 976 | d Binder |
| S | pecialities | | Scan Card |
| > | Individual appara- tus and container construction made stainless steel and special materials | | |
| > | Careful monitoring using various test methods | | |





Area of Expertise: **Conveyor and Transport Systems**

BLEICHERT Automation GmbH & Co. KG

As one of the leading high-tech-specialists for automation, A high quality standard for the whole process chain is roller conveyance, assembly machinery and interlinking systems, BLEICHERT provides among others roller conveyors, gantry systems, round storages and automated guided vehicles (AGVs) for different industrial sectors.

Especially for packaging applications we interlink individual modules customized for general solutions.

guaranteed due to a long term VDANorm 6.4 certification and our work according to ISO 9001:2008.

Good to know: BLEICHERT Automation is present in China, United States, Mexico, Austria, Sweden and Benelux Countries.





Innovative solutions for conveyance systems and automation: roller conveyors, gantries, round storages and automated guided vehicles.



MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES

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Founded in: Employees:

Anton Schirle 1949 approx. 300

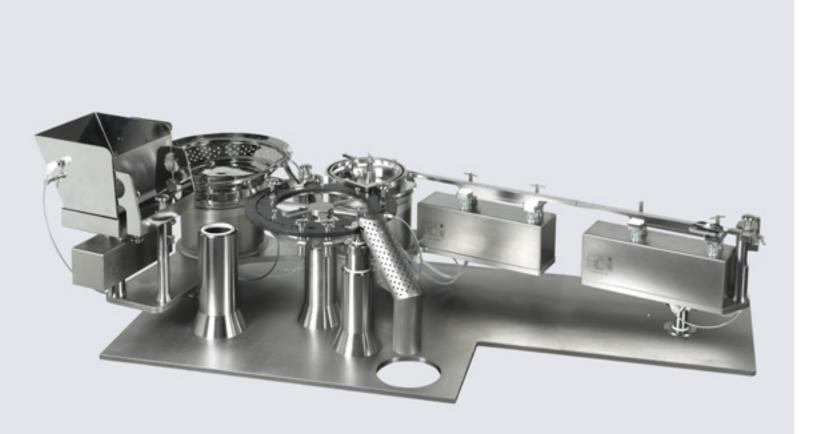
Specialities

- Conveyors technique
- > Transport equipme









Area of Expertise: Sorting Technology for the Pharmaceutical Industry

E+K Sortiersysteme GmbH

E+K Sortiersysteme GmbH is a specialist for sorting and bunker technology, as well as feeding systems, primarily for the pharmaceutical industry. Excellent quality, quality materials and traceable manufacturing processes make us an accepted world-renowned partner and quality leader in "Conveying of syringes and occlusion parts for the pharmaceutical industry".

Our products are designed and manufactured exactly to the customer's requirements at the maximum level and with maximum functionality.

This is guaranteed by the certification of the quality management system according to DIN EN ISO 9001 and our first class trained staff.

Good to know: our optimized workflows promise perfect quality of your results. This is the leap of faith, that E+K Sortiersysteme GmbH offers.







Our sorting technology fulfills highest standards of functionality and processing.



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| Secondary pag | kaging | 5 | | | |
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| Inspection, testing and monitoring technologies | | | | | |
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| > Tools / Supplies | | | s | | |
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| > Pharma | > | Cosmetics | | | |
| > Chemistry | > | Non-Food | | | |
| Food | | | | | |
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| E+K Sortiersystem Rudolf-Diesel-Stra 74592 Kirchberg/Ja Tel.: +49 (0)7904 97 Fax: +49 (0)7904 97 | ße 2 agst / Ger '98-0 | many | | | |
| info@ek-gmbh.de www.ek-gmbh.de | | | | | |
| Managing Director Founded in: Employees: | r: Uwe H 1991 69 | erold | | | |

Specialities

- Conveying of syringes and closing component
- > Track & Trace









Area of Expertise: **Controlling and Monitoring Technology**

ETW Wollmershäuser GmbH

The core business of ETW Wollmershäuser GmbH is the realization of economical solutions in the areas of controlling technology, image processing components, industrial electronics, safety, cable assembly and mechanics. In addition we manufacture entire filling and packaging plants, which are equipped with our flexible components and can be extended as you like. In close cooperation with these solutions we design, engineer and realize concepts that meet the individual requirements and the highest standards.

Leading companies from the mechanical engineering, the pharmaceutical industry, the automotive industry and the aerospace industry rely on our knowhow.

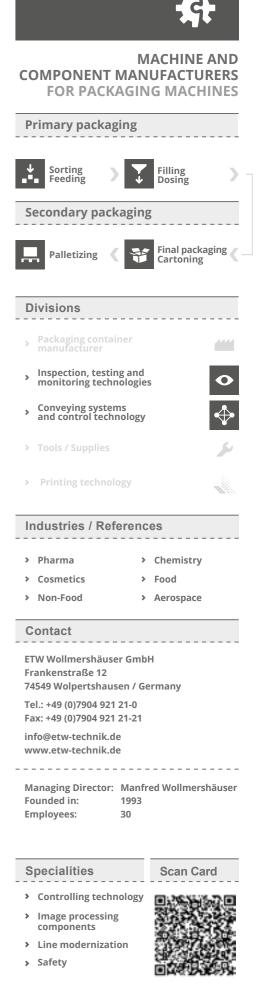
Good to know: we work according to the guidelines of ISO 9001:2008 and are one of the few providers that are certified for the aerospace industry according to DIN EN 9100:2003 / AS9100B.

Various possibilities to extend and combine: system solutions for filling and sealing of cosmetic jars for peeling, powder, creams and liquids.



Economical solutions supported by our components for control engineering.





HO-MA



Area of Expertise: Transport and Feeding Systems

HO-MA GmbH Hohenloher Maschinen- und Anlagenbau

HO-MAG GmbH is a transport and feeding system supplier. With us, you can choose from a wide portfolio of standard solutions, including sorting and storage systems. For individual tasks, we work out tailor-made special developments with you though to combined transport and feeding lines that meet your requirements and guidelines. Our manually refined materials meet the highest pharmaceutical standards. Our machine solutions are complemented by appropriate services. Our design team is available to you for contract work and in-house developments. We take on assembly work, extensions and conversions as well as pure procurement tasks.

Good to know: Whatever we do for you, you will benefit from premium and durable quality at fair prices as well as responsible after-sales service.



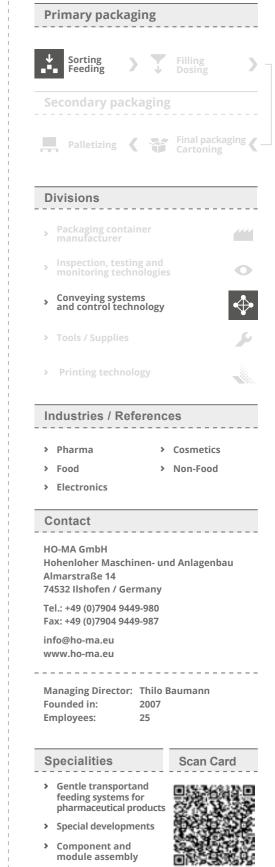




Innovative feeding and automation solutions for different products.

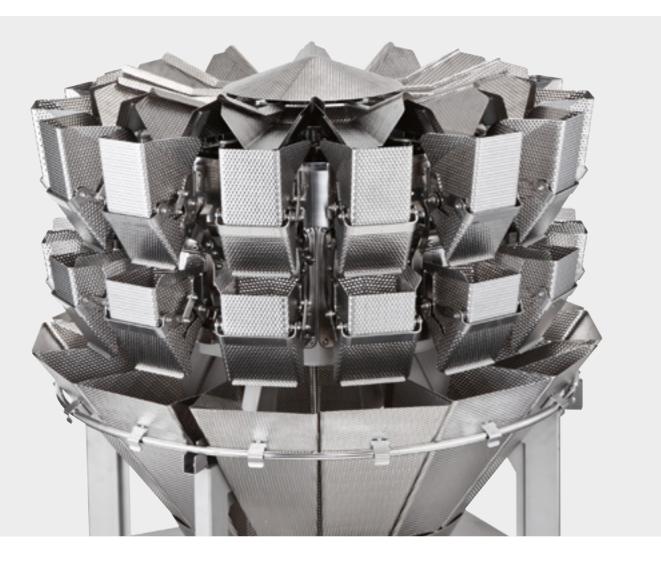


MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES



 Used machine conversions





Area of Expertise: Weighing and X-Ray Inspection Systems

Ishida GmbH

Ishida designs, produces and installs innovative packaging technologies for the food and non-food sectors. We offer efficient machinery for weighing, filling and packaging as well as quality control. Customers are supplied with complete line solutions and servicing from a single source. Our project management service ranges from initial analysis through individually tailored planning and installation to maintenance and optimization. The machines are designed to save both time and labour costs and to reduce product losses. Moreover, we supply flexible

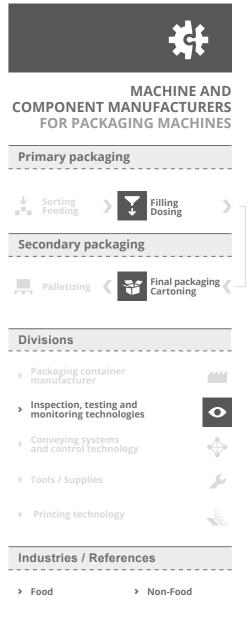
packaging solutions for the wide-ranging requirements involved in natural fresh and freshly processed foods, as well as kitchen-ready, frozen and dried products. The portfolio includes items such as multihead weighers, fresh food weighers, traysealers, checkweighers and x-ray inspection systems.

Good to know: Ishida GmbH based in Schwäbisch Hall is the branch of Ishida Europe (Birmingham, England) with responsibility for the German and Austrian markets.





From a single source: complete turn-key solutions in packaging for the food and non-food industry.



Contact

Ishida GmbH Max-Planck-Straße 2 74523 Schwäbisch Hall / Germany

Tel.: +49 (0)791 945-160

Fax: +49 (0)791 945-1699 info@ishida.de

www.ishida.de

Founded in: Employees:

Managing Director: Herbert Hahnenkamp 1893 (Japan), 2004 (D) 45 (D), 3200 worldwide

Specialities

- > Weighing systems
- X-Ray-inspection systems
- Turn-key-machines for food packaging and dosing









Area of Expertise: **Printing Machines with CNC Technology**

ISIMAT GmbH Siebdruckmaschinen

ISIMAT specialises in the design and manufacture of highperformance printers for packaging printing applications. Using direct and circumferential printing methods, our machines can be used to print to plastic tubes, glass jars, bottles and plastic items of any kind. A modern machine design with integrated CNC technology, excellent printing quality, and superior printing speed and reliability are the key features that define our products. In addition, our customers benefit from resource-friendly and efficient machines that are characterised by their energy-saving and low-waste operation. We want to do justice to our

ecological responsibility, which is why our customers can trust in the continuous and ongoing development of our products.

Good to know: Our machines are used across the globe. We export within Europe, as well as to Asia, Australia, and North and South America. Our customer service team is available 24/7. We support our customers on site or via remote maintenance, allowing us to maximise machine availability for our customers.







Excellent surface quality, high gloss finish, durability and low costs.



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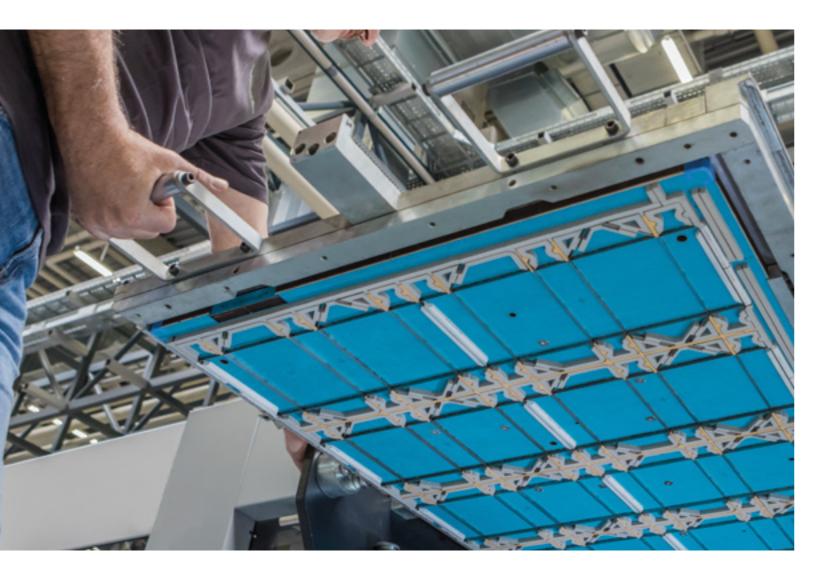




- multicolour decoration to glass, plastics and tubes
- > Seamless 360° circum ferential printing.







Area of Expertise: cutting dies and thermoforming molds for any requirement

Marbach Group

The Marbach Group supplies cutting dies and thermoforming molds to the packaging industry worldwide. Our "die cutting technology" sector produces flat and rotary cutting dies as well as stripping and blanking tools for every demand. As a technology leader we offer our customers demand-driven tooling packages – up to a fully equipped cutting die with integrated embossing. Technologies like reverse scoring or hot foil embossing are perfect for premium packaging. The tooling department provides innovative thermoforming molds as a match metal or steel rule version for cups, cover or meal trays for the international plastic packaging industry.

Good to know: Numerous packaging in supermarket shelves has been made with Marbach tools. Our customers include the international folding box, tobacco and corrugated board industry as well as the plastic packaging industry. We also deliver machineries and materials for diemakers.

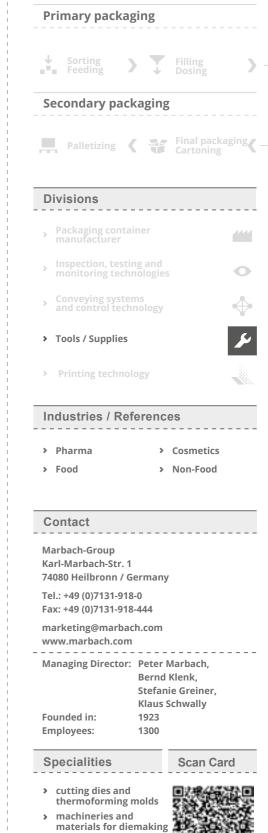








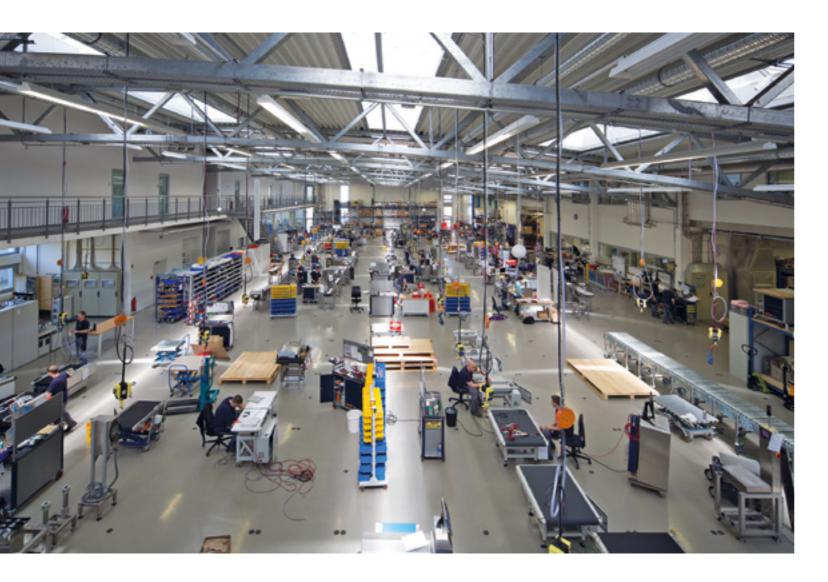
MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES



 service, consulting and training in packaging production 34420.045







Area of Expertise: Weighing and Inspection Solutions

WIPOTEC-OCS

WIPOTEC-OCS is your innovative, reliable partner for high performance, process and customer-orientated weighing and inspection solutions. As a subsidiary of Wipotec, one of the world's leading businesses for dynamic weighing technology and product control, WIPOTEC-OCS stands for outstanding manufacturing quality "Made in Germany". We deliver everything from a single source and convince with the highest degree of integration capability and profound industry competency. Whether part of our modular standard portfolio or tailor-made development, which corresponds to your task profile - you always get the best solution. Our products are market-defining: Checkweighers and metal detectors, X-ray and optical inspection machinery, Track & Trace solutions, catchweighers and DWS systems.

Good to know: Like our customers, we also benefit from long-standing business relationships. As a founder-managed, solid company partnerships are at the forefront of our activities.





WIPOTEC-OCS weighing and inspection technology stands for: Highly integrated and state-of-the-art. Perfectly coordinated.



MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES

| Primary packaging | |
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| Sorting | Filling > |
| Secondary packaging | g |
| Palletizing 🕻 🍟 | Final packaging C |
| Divisions | |
| Packaging container manufacturer | |
| Inspection, testing and monitoring technologie | s O |
| Conveying systems and control technology | $\mathbf{\Phi}$ |
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| Printing technology | |
| Industries / Reference | es |
| > Pharma > | Chemistry |
| Cosmetics > | Food |
| > Logistics > | Packaging |
| Contact | |
| WIPOTEC-OCS GmbH Max-Planck-Straße 7 74523 Schwäbisch Hall / Ge Tel.: +49 (0)791 9462-0 Fax: +49 (0)791 9462-100 info@wipotec-ocs.com | ermany |
| www.wipotec-ocs.com | |
| Managing Director: Theo Founded in: 1996 Employees: 85 | Düppre |
| Specialities | Scan Card |
| Weighing systems AVC technology compensates for external vibrations | |

- Complete in-house production
- Track & Trace solutions

www.packaging-valley.com 67





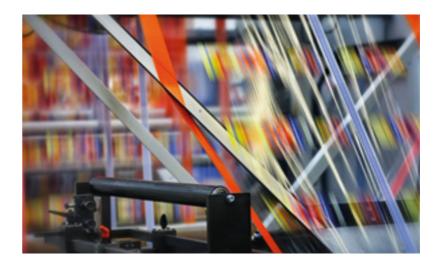
Area of Expertise: Film Manufacture and Packaging Materials Made from PE

Rommelag FLEX, works Thermo-Pack Kunststoff-Folien GmbH

Rommelag FLEX stands for flexible packaging solutions. Thermo-Pack covers the production of films and printed packaging made of PE film. As part of the Rommelag Group, which sets benchmarks in aseptic technologies, we offer films based on customised recipes made from environmentally friendly raw materials. Our products fulfil the most demanding requirements in the hygienic, pharmaceutical and food segments. With films optimised by the unique Perfotec-laser-technology, we secure longer shelf-life for fresh products. We deliver various pre-printed, made-to-order bags, shrink films, films for automation and customised embossed films for special surfaces. Our graphic design department will assist you from data handling, right up to final printed packaging of the highest print quality, guaranteeing you a perfect end product.

Good to know: a vast array of pouches, sleeves, sacks, carrier bags, and food, shrink and special films made of polyethylene, polypropylene and plastic blends are supplemented by special containment solutions for the pharma industry.



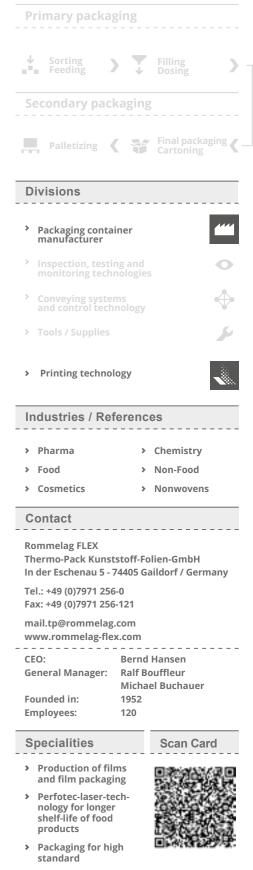




We operate according to the DIN EN ISO 9001:2008 certification, as well as BRC-IoP, the global standard for packaging and packaging materials, guaranteeing you high quality and hygienic standards.



MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES



 Highest print quality with flexoprint





Area of Expertise: Inspection Solutions for the Pharmaceutical Industry

Seidenader Maschinenbau GmbH

Seidenader offers stand-alone as well as integrated high-quality equipment and solutions to the pharmaceutical industry for the inspection of a vast variety of containers filled with liquid and dry sterile products. Our expertise combined with the experience and feedback of our customers has helped us to create a full line of semi and fully automatic inspection machines: from handy table top units forlaboratory applications to highperformance inspection machines for large production environment. Exterior washing machines for glass containers as well as inspection and sorting machines for tablets and capsules complete the Seidenader product range. We meet the increasing requirements of the pharmaceutical industry by developing complementary inspection technologies, automation solutions for the control of complex packaging lines as well as comprehensive serialization solutions for the pharmaceutical packaging process.

Good to know: Seidenader is part of the Körber Medipak Systems Group which offers solutions and technologies for the entire packaging process for pharmaceuticals.





Seidenader offers stand-alone as well as integrated high-quality equipment / solutions to the pharmaceutical industry for the inspection of a vast variety of containers filled with liquid and dry sterile products.



MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES

| Primary packaging | |
|--|---|
| Sorting | Filling Dosing |
| Secondary packagin | g |
| 📕 Palettieren 🕻 🏺 | Final packaging 《 — Cartoning |
| Divisions | |
| Packaging container manufacturer | |
| Inspection, testing and monitoring technologie | es O |
| Conveying systems and control technology | \bullet |
| > Tools / Supplies | J. |
| Printing technology | |
| Industries / Referen | ces |
| > Pharma | Chemistry |
| | |
| Contact | |
| Contact Seidenader Maschinenbau Stauffenbergstraße 35-37 74523 Schwäbisch Hall / G | ı GmbH |
| Seidenader Maschinenbau Stauffenbergstraße 35-37 | ı GmbH ermany ße 8 |
| Seidenader Maschinenbau Stauffenbergstraße 35-37 74523 Schwäbisch Hall / G Head-office: Lilienthalstra | ı GmbH ermany ße 8 |
| Seidenader Maschinenbau Stauffenbergstraße 35-37 74523 Schwäbisch Hall / G Head-office: Lilienthalstra 85570 Markt Schwaben / O Tel.: +49 (0)8121 802-0 | ı GmbH ermany ße 8 |
| Seidenader Maschinenbau Stauffenbergstraße 35-37 74523 Schwäbisch Hall / G Head-office: Lilienthalstra 85570 Markt Schwaben / O Tel.: +49 (0)8121 802-0 Fax: +49 (0)8121 802-100 info@seidenader.de www.seidenader.de Managing Director: Clem | a GmbH ermany ße 8 Germany |
| Seidenader Maschinenbau Stauffenbergstraße 35-37 74523 Schwäbisch Hall / G Head-office: Lilienthalstra 85570 Markt Schwaben / O Tel.: +49 (0)8121 802-0 Fax: +49 (0)8121 802-100 info@seidenader.de www.seidenader.de Managing Director: Clem | a GmbH ermany ße 8 Germany |
| Seidenader Maschinenbau Stauffenbergstraße 35-37 74523 Schwäbisch Hall / G Head-office: Lilienthalstra 85570 Markt Schwaben / G Tel.: +49 (0)8121 802-0 Fax: +49 (0)8121 802-100 info@seidenader.de www.seidenader.de Managing Director: Clem Jan R Founded in: 1895 | a GmbH ermany ße 8 Germany |
| Seidenader Maschinenbau Stauffenbergstraße 35-37 74523 Schwäbisch Hall / G Head-office: Lilienthalstra 85570 Markt Schwaben / O Tel.: +49 (0)8121 802-0 Fax: +49 (0)8121 802-100 info@seidenader.de www.seidenader.de Wanaging Director: Clem Jan R Founded in: 1895 Employees: 355 | u GmbH ermany ße 8 Germany ens Berger udolph |
| Seidenader Maschinenbau Stauffenbergstraße 35-37 74523 Schwäbisch Hall / G Head-office: Lilienthalstra 85570 Markt Schwaben / O Tel.: +49 (0)8121 802-0 Fax: +49 (0)8121 802-100 info@seidenader.de www.seidenader.de Managing Director: Clem Jan R Founded in: 1895 Employees: 355 Specialities > Inspection machines | u GmbH ermany ße 8 Germany ens Berger udolph |





Area of Expertise: Efficient Sorting Systems for Small and Large Batches

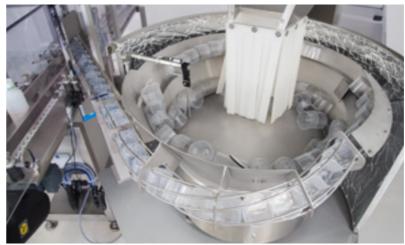
SorTec Pharma Sortiertechnik GmbH

The sorting and feeding systems from SorTec ensure efficient processing to complete your packaging line. We offer vibratory sorting units for small batches as well as our patented centrifugal sorting unit, which, with its high output, is ideally suited for larger batches. Sorting applications include plunger rods, syringe barrels and plastic bottles, and through fast, yet gentle processing, fulfill the most stringent requirements common in pharmaceutical manufacturing. Our own engineered

modules allow plastic bottles to be set upright, regardless of their orientation exiting the centrifuge, thereby alleviating the need for intermediate steps and having the containers ready for processing more quickly.

Good to know: to speed your processes, our vibratory sorting units are equipped with a tool-less clamping device. Sorting units are released at the press of a button for fast and easy changeovers.







Our vibratory and centrifugal sorting units: gentle and fast processing fulfilling the highest standard.



MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES

| P | rima | | | | - | | | |
|--|--|---|---|--|-------------------------|--|-------|---|
| _ ∎ | So Fee | rting eding | > | | | Filling Dosing | | |
| Se | econ | dary p | oack | agir | ıg | | | |
| | Pa | lletizing | s (| ŊŢ | | Final pa Carton | ing | |
| D | ivisio | ons | | | | | | |
| > | Packa manu | aging co ufactur | ontaiı er | ner | | | | |
| > | | ection, t toring t | | | | | | < |
| > | Conv and c | eying sy control | /stem techn | ıs iolog | y | | | 4 |
| > | Tools | / Supp | lies | | | | | |
| > | Print | ting tec | | gy | | | | |
| > | Phari Cosm | | Refe | | > | es Chemist Food | try | |
| > > | Pharı | ma netics | Refe | | > | Chemis | try | |
| > > C | Phari Cosm Non-I | ma netics Food Ct | | | » » | Chemist Food | | |
| > > So Fra 74 Te Fa inf wv | Pharn Cosm Non-l onta onta rTec F anken 549 W I.: +49 I.: +49 fo@so ww.so | ma netics Food Ct | | ertec en / (4-0 4-10 i.de i.de Ralf | > > Ger | Chemist Food iik Gmbl many | н | |
| > > Soo Fra 74 Te Fa inf ww Ma | Pharn Cosm Non-l onta onta rTec F anken 549 W I.: +49 I.: +49 fo@so ww.so | ma netics Food Ct Pharma Istraße Volperts (0)7904 (0)7904 (0)7904 (0)7904 rtec-ph rtec-ph rtec-ph g Direc d in: | | ertec en / (4-0 4-10 i.de i.de Ralf | > > Chri Ger | Chemist Food iik Gmbl many | н | |
| > > So Fra 74 Te Fa inf ww Ma Fo En | Pharn Cosm Non-l onta rTec F anken 549 W I.: +49 X: +49 fo@so ww.so anagir undec nploye | ma netics Food Ct Pharma Istraße Volperts (0)7904 (0)7904 (0)7904 (0)7904 rtec-ph rtec-ph rtec-ph g Direc d in: | | ertec en / (4-0 4-10 0.de 0.de 7 Ralf Günt 2000 | > > Chri Ger | Chemist Food iik Gmbl many | H | |
| > > C Soo Fra 74 Te Fa infi WW Ma Fo En | Pharn Cosm Non-l onta rTec F anken 549 W I.: +49 x: +49 fo@so ww.so anagir undec nploye | ma netics Food Ct Pharma Istraße Volperts Volperts (0)7904 (0)7704 (0)7704 (0)7704 (0)7704 (0)7704 (0) | Sorti 9 haus 1942 1942 arma arma ctor: | ertec en / (4-0 4-10 i.de Ralf Günt 2000 30 units a- s | > > Ger Brater | Chemist Food iik Gmbl many äuner Eisenm | H | |

STAKO



Area of Expertise: Conveyor and Feed Systems, Labeling, Orienter, Filling and Specialized Machines

STAKO GmbH Maschinenbau

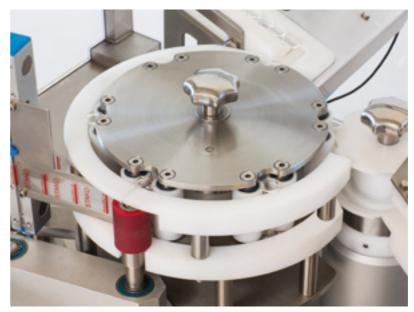
As a partner to the packaging industry and packaging machine manufacturers, STAKO constructs and develops conveyor and feed systems such as labelling, orienter and filling machines. Tailored to your technical requirements and wishes, we provide special-purpose machines right through to entire systems. Thanks to our programming know-how, we can provide you with machines equipped with freely programmable controls as a one-stop shop.

Due to our extensive specialist knowledge and our many years of experience, we will always find the right solutions for you. Our STAKO machines make these solutions reality, ensuring your production process is smooth.

Good to know: our machines are used primarily in the pharmaceutical, chemical, cosmetics and food industries.



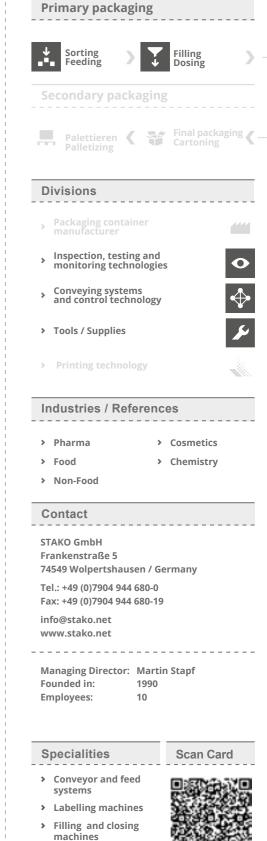




Customized production: special-purpose machines and entire systems such as conveyor, feed systems, labelling, orienter and filling machines.



MACHINE AND COMPONENT MANUFACTURERS FOR PACKAGING MACHINES





> Orienter machine





BPS INOPLAN Rommelag CMO



ENGINEERING AND SERVICE





Area of Expertise: Packaging Engineering and Customized Packaging Solutions

BPS – Packaging Solutions GmbH

We plan and sell filling and packaging machines for tailor-made applications. With our network, know-how and broad packaging expertise, we design economical concepts and innovative packaging solutions and provide key technologies for small to large production batches. During the whole project – from engineering through to commissioning – we will be at your side as a project manager. As part of our task, we manage logistics as well as material optimisation. Our specialist expertise is highlighted in the handling of food, non-food and

pharmaceutical products. Our broad experience in surface pre-treatment with atmospheric plasma for secure adhesion in printing and gluing of quality packaging materials makes us ideal partner for customers needs.

Good to know: As an independent and international operating company, we are developing individual and most suitable solutions for your requirements.

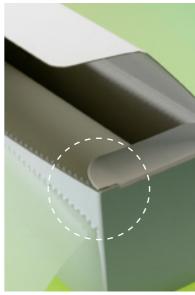




Individual economic solutions.

Filling and packaging plants for globules.





Product examples.

Foil box with cutting edge.

Selling and Supplying of Machines and Material:

- Filling and packaging machines
- Cartoning, loading and closing machines Ø
- Cutting edge material for household foils Ø and baking paper





ENGINEERING AND SERVICE

| Competencies | |
|---|------------|
| Machine and process optimization | N |
| • Automation / Software | |
| Packaging engineering / Planning | ′ i1 |
| Technical documentation | |
| Validation / Qualification | Ö |
| > Contract manufacturing | |
| | |
| Industries / Reference | es |
| > Pharma > | Cosmetics |
| > Non-Food > | Homeopathy |
| Contact | |
| BPS Packaging Solutions G | |
| Im Schönblick 4 74542 Braunsbach / Germa | iny |
| Tel.: +49 (0)7906 85 90 Mobil: +49 (0)171 734 32 51 | |
| info@bader-bps.de www.bader-bps.de | |
| Managing Director: Willy | Bader |
| Founded in: 1992 | |
| Employees: 4 | |
| Specialities | Scan Card |
| Project management | |
| > Independent concepts | |
| Secure bonding and printing by atmos- pheric plasma | |
| Selling of maschines und material | |
| Handling of globules | |



Engineering Competence visualisation automation development documentation **Software Mechanics Electronics** validation measurement **Consulting &** Manufacturing & **Commissioning &** Design & Service & Planning Development Test Training Maintenance **Solution Competence**

Area of Expertise: Engineering for the Filling and Packaging Industry

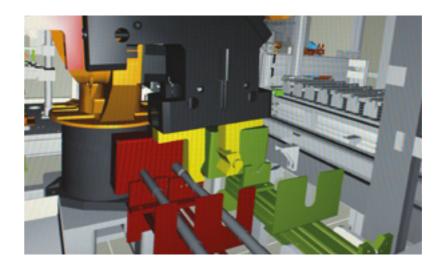
HEITEC AG

With its highly qualified engineers and technicians, the HEITEC AG has represented innovative solutions for the filling and packaging industry for 30 years. Our engineering competence ranges from automation technology to stateof-the-art user interfaces and line management systems to documentation and validation of plants. As an independent and one of the biggest system inte-

grators of the regulated environment, we connect the automation and IT world with the associated processes and documents.

From the early design phase to after sales support, we ensure the success of your projects with innovative engineering methods such as the virtual commissioning of plants or our own intelligent software solutions.

Good to know: as a complete provider, we offer everything from a single source – from design to consultation to services.







We ensure the success of your projects with innovative methods such as digital engineering or our HeiMAX - mobile maintenance and repair assistant.

ENGINEERING AND SERVICE

D

Competencies

- Machine and process optimization
- Automation / Software
- Packaging engineering / Planning
- Technical documentation
- Validation / Oualification

Industries / References

- > Pharma > Non-Food
- > Food
- > Engineering
- > Automotive industry > Electronics
- > Aerospace
- > Logistics

Contact

HEITEC AG Brunnenstraße 36 74564 Crailsheim / Germany

Tel.: +49 (0)7951 93 66-0 Fax: +49 (0)7951 93 66-66

info@cra-heitec.de www.heitec.de

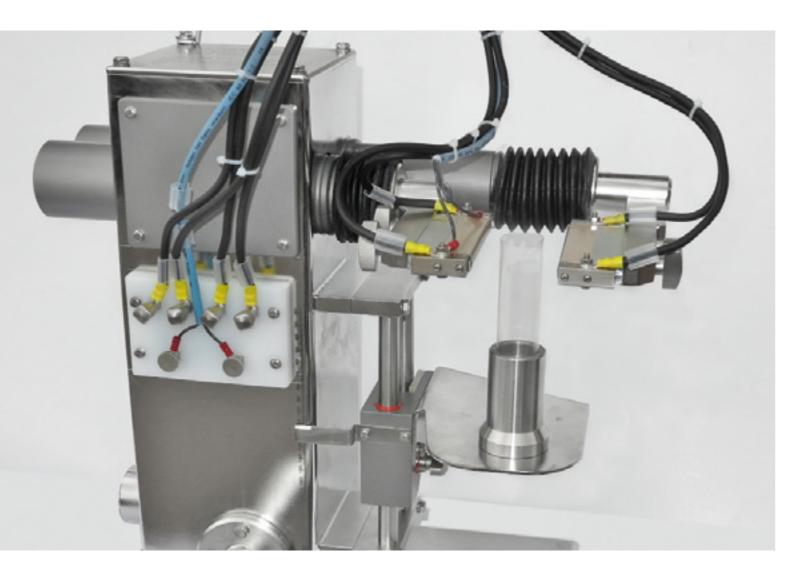
Managing Director: Richard Heindl Founded in: 1984 1000 Employees:

Specialities

- System provider and integrator
- > Independent of the system
- Certified partnerships
- > Remote service and IT solutions







Area of Expertise: Development and Implementation Solutions for Machine Builders and End-Users

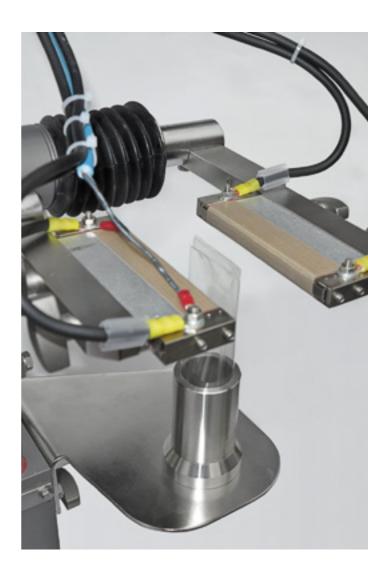
INOPLAN Engineering

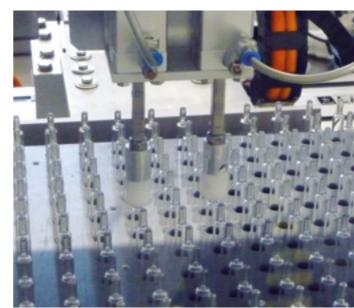
In cooperation with leading companies of the filling and packaging industry, INOPLAN is primarily focused on supplementary solutions optimizing your packaging lines in accordance with the specific requirements of the pharmaceutical, chemical, cosmetics and food industry. Those could be handling devices and connecting systems as well as customized equipment.

With innovative constructions and individual developments, specifically targeted on your needs, we guarantee optimal application in praxis.

We engineer and built for you special-purpose machines and prototypes, furthermore we improve your existing equipment to ensure efficient processes in later production.

Good to know: packaging machine manufacturers and users take advantage of the opportunities and benefits provided by a powerful, highly motivated and experienced service company like INOPLAN.





Practical and economical solutions: from the development of special-purpose machines, prototypes through to the optimization of your plant.



ENGINEERING AND SERVICE



Industries / References

- > Pharma
- > Cosmetics

Contact

INOPLAN Ingenieurbüro Otterbacherstr. 27 74523 Schwäbisch Hall / Germany

Tel.: +49 (0)7907 942 95-0 Fax: +49 (0)7907 942 95-55

info@inoplan.de www.inoplan.de

Managing Director: Manfred Ruchozki Founded in: 1997 Employees: 4

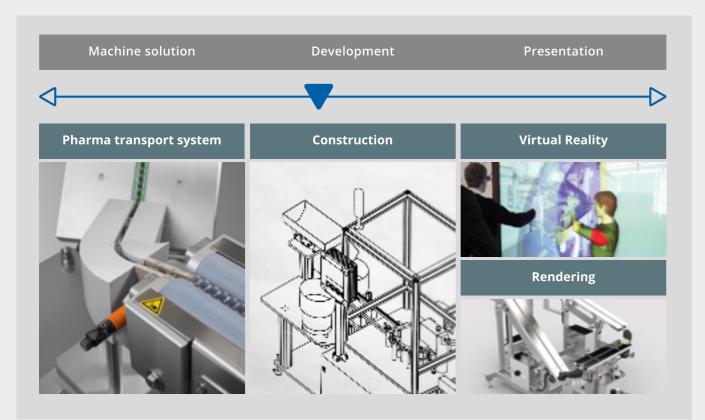
Specialities

- > Prototype production
- Siliconizing systems and sealing units tubes
- > Handling devices and automation systems
- Individual customer-specific solutions





Our service areas



Area of Expertise: Engineering in Special Machine Construction

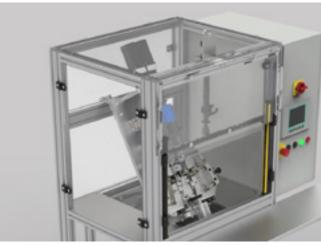
itek GmbH

Itek are your consulting engineers for the development, design and construction of customized machine solutions. For presentation purposes, we prepare your machine specifications - whether in-house or third-party developments - for virtual reality projects and generate photorealistic renderings.

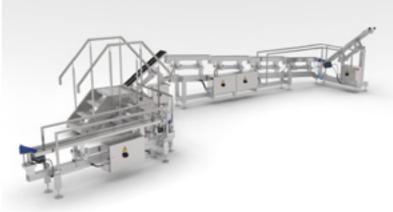
This way, we can offer you further possibilities for the efficient and cost-effective development and completion as well as the professional representation of your products.

Specially for the pharmaceutical industry, we have developed a machine solution for very gentle conveyance of syringes and glass containers. Our "Pharma Transport System" (PTS) can be custom-adapted to meet your requirements and expanded to include made-to-measure add-ons.

Good to know: With a workforce of 18 employees, we have the manpower to handle even large-scale projects - every step of the way from the planning phase to delivery of the finished machine. As a contact for the Virtual Reality Center at the Schwäbisch Hall Technology Center, we manage your virtual projects.







Design, development and construction of system solutions and prototypes with the lastest CAD programs (here: Rendering of a Pharma-Transport-System).



ENGINEERING AND SERVICE



| _ | С | ompetencies | |
|---|---|-------------------------------------|---|
| | > | Machine and process optimization | Ň |
| | > | Automation / Software | |
| | > | Packaging engineering / Planning | i |
| | > | Technical documentation | Ê |
| | > | Validation / Qualification | Õ |
| | > | Contract manufacturing | đ |
| | | | |

Industries / References

- > Pharma
- > Chemistry

VR-Center

contact partner:

Uwe Hertweck

- > Cosmetics
- > Food
- > Non-Food

Contact

itek GmbH In der Eich 10 74523 Schwäbisch Hall Germany

Tel.: +49 (0)791 946 094-1 +49 (0)791 946 094-0 Fax: +49 (0)791 946 094-9

info@itek-gmbh.de www.itek-gmbh.de

Managing Director: Norbert Wais

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ **Elevtherios Lemas** Wolfgang Jäger 2000 17

Specialities

Founded in:

Employees:

- Design and construction of special machines
- > Technical documentation
- > Photorealistic representation and animation
- Virtual product \$ presentation and development
- > Transport systems for pharmaceutical containers
- > CAD Training



ITQ



Area of Expertise: Software and Systems Engineering

ITQ GmbH

As an independent engineering and consulting firm, we focus on mechanical engineering and construction. Our special expertise lies in interdisciplinary problem solutions in the area of software and systems engineering. We counsel and support you during all phases of system and software development, such as analysis, design, implementation, testing, and commissioning.

Our expert team of mechanical and electrical engineers, computer scientists and physicists guarantees cooperation

across the disciplines of mechanics, electronics, and software development. Further advantages are our close collaboration with professional associations and our involvement in national and international research projects.

Good to know: together with universities, we develop pioneering education concepts for appropriate, practiceoriented advancement of junior staff.





We work closely with associations like Packaging Valley, German Engineering Association (VDMA), ASQF, Cluster of Mechatronics & Automation as well as the Competence Network Mechatronics BW.



lacksquare

ENGINEERING AND SERVICE

Competencies

- Automation / Software
- Packaging engineering / Planning
- Validation / Qualification

Industries / References

- > Engineering
- > Pharma
- > Cosmetics
- > Food
- > Chemistry
- > Non-Food

Contact

ITQ GmbH Stauffenbergstraße 37 74323 Schwäbisch Hall / Germany

Tel.: +49 (0)791 499 37-37 Fax: +49 (0)791 499 37-59

info@itq.de www.itq.de

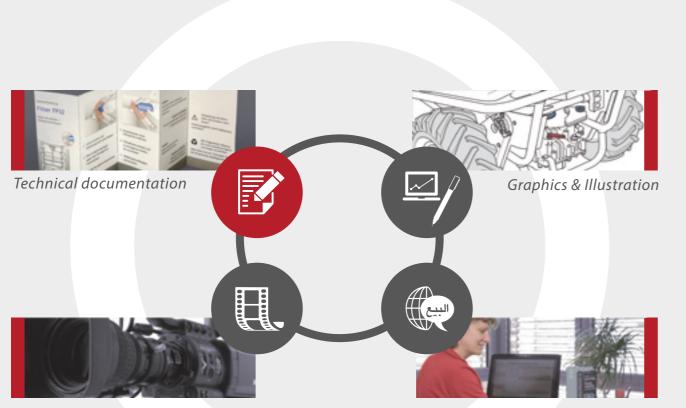
Managing Director: Dr. Rainer Stetter Founded in: 1998 Employees: 110

Specialities

- > Systems engineering
- > Quality management
- Project managemen and coaching







Utility film

Translation management

Area of Expertise: Technical Documentation and Communication

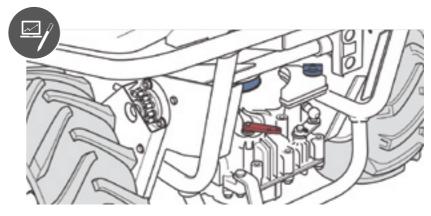
Kachel Technische Kommunikation

As a competent partner with many years of experience, we can offer you documentation for your machines and plants. Technical products continue to become more powerful and extensive. The required documentation must not only be prepared in accordance with the standards and laws but, above all, must be product-specific and easily comprehensible and ensure the safe use of the product.

We can support you with a qualified team from the conception to the translation to the finished manual. In print, on film, or as electronic publication.

Good to know: in addition to traditional documentation, we also work with new media and we create animations, utility films, data base solutions, and web applications.









We make technology comprehensible with the help of graphics, illustrations, presented as a utility-film and in the requested language.



ENGINEERING AND SERVICE

| Competencies | | | |
|--------------|-------------------------------------|---|--|
| > | Machine and process optimization | N | |
| > | Automation / Software | | |
| > | Packaging engineering / Planning | | |
| > | Technical documentation | Ê | |
| > | Validation / Qualification | Õ | |
| > | Contract manufacturing | | |

Industries / References

- > Pharma > Cosmetics
- > Chemistry
- > Non-Food
- > Food
- > Engineering

Contact

Kachel Technische Kommunikation Hauptstraße 60 74523 Schwäbisch Hall / Germany Tel.: +49 (0)7907 98 85-0

Fax: +49 (0)7907 98 85-55

info@kachel-tk.de www.kachel-tk.de

Managing Director: Gerald Kachel Founded in: 1991 Employees: 21

Specialities

- **Operating instructions** for complex machines and plants
- > Utility films
- > Database solutions and web applications







Area of Expertise: Contract Service Filling for Pharmaceuticals

Rommelag CMO, works Holopack Verpackungstechnik GmbH

As specialists in the field of blow-fill-seal technology Rommelag CMO receives recognition from some of the world's most renowned pharmaceutical organizations. Based on best-practice-solutions, we offer the highest quality and efficiency. We support our business partners at all stages: from a tailored process development, the trial fillings trough to assistance with product certification. We develop the ideal primary and secondary packaging design according to your specific requirements. As a member of the Rommelag Group, we exclusively use

bottelpack[®] BFS-Technology for our pharmaceutical filling, a technology which is exceptionally suitable even for sensitive liquid products.

Good to know: Customers who operate bottelpack® systems also use our Rommelag Pharma Service for efficient project planning, planning, qualification and validation of their systems and processes. Holopack covers the area of contract manufacturing under the auspices of Rommelag CMO.



Your success is our ultimate goal: featuring more than 30 bottelpack[®] machines for pharmaceutical filling according to cGMP and 12 machines for technical products, we are proud to offer an extensive portfolio of demanding and challenging products.



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ENGINEERING AND SERVICE



- > Trail filling
- > Own laboratories



<u>ServoȚech</u>



Area of Expertise: Safety for humans and machines – GMP compliance, CE conformity, HSE conformity

ServoTech GmbH

Laws, regulations, and guidelines define the daily business of ServoTech. We fulfil your safety requirements and possess knowledge on regulatory fields in various sensitive industries, especially the pharmaceutical and medical technology industry. Our team is comprised of specialists who will help you manage your tasks – whether it is in the area of HSE conformity or CE marking, or whether you are producing and validating machines, plants or other computer-based systems. We provide support during the development and implementation phase and give you advice on the current regulatory standards during the operation.

Good to know: For more than 20 years, we have been giving support in strategy and helped implement compliance requirements. Therefore, we have expertise in the areas of medical, pharmaceutical and food technology, as well as mechanical engineering.







Innovative services: documentation and IT solutions for pharmaceuticals, medical and mechanical technology.



ENGINEERING AND SERVICE







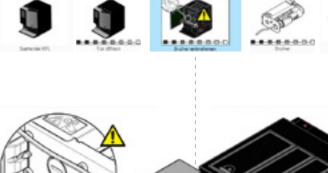
Area of Expertise: Technical Documents for the Global Market

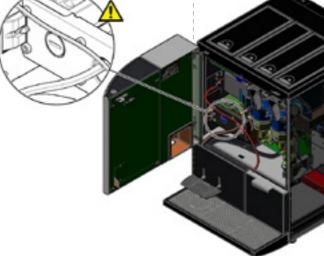
SL innovativ GmbH

SL innovativ GmbH — your provider of technical documents. We describe and outline machines, plants and other complex systems from a wide variety of industries. What you get: clear, user-oriented guides and manuals, compiled on the basis of national and international market requirements as well as current directives and laws. Such documents include operating manuals, instruction manuals, assembly manuals, operating instructions and O&M manuals, plus validation and qualification documents — in any language.

To get your documentation process off to a positive start, we provide an advice service in the initial phases and support for the conception and structuring of your technical documents.

Good to know: our team comprises engineers, technicians, technical editors, translators and software professionals. We are specialists with extensive experience who can help to guide your documentation project from start to finish.





OUR SERVICES





ENGINEERING AND SERVICE

Competencies Automation / Software \triangleright Technical documentation Validation / Oualification

Industries / References

- > Pharmaceuticals
- > Cosmetics
- > Chemicals
- > Non-food
- > Foodstuffs

- > Plant engineering

Contact

SL innovativ GmbH Innovativ-Ring 1 91550 Dinkelsbühl / Germany

Tel.: +49 (0)9851-58 258-10 Fax: +49 (0)9851-58 258-99 info@sl-i.de

www.sl-i.de _ _ _ _ _ _ _ _

Founded in:

Employees:

Managing Directors: Andreas Schott

Gerhard Lierheimer 2000 61

Specialities

- > Illustration
- > Risk assessment
- > Docu-check
- > Translations in 55 languages
- > Themed training
- > Consultancy (CE, Machinery Directive, ANSI, A TEX)



Cooperations

You are looking for additional information about the packaging industry? Packaging Valley cooperates with important associations and thereby offers access to an extended network of competencies and important sources of additional information.

VDC – Virtual Dimension Center

The Virtual Dimension Center (VDC) is Germany's leading competence network for Virtual Engineering. Technology and service providers, users, research institutions and multipliers work together in the VDC network along the entire value chain of Virtual Engineering- namely in 3D simulation, 3D visualization,



dvi – Deutsches Verpackungsinstitut e.V.

Deutsches Verpackungsinstitut e.V. is the only network in the packaging industry, whose affiliate companies cover the entire value chain of packaging. The network receives impetus from its environment and also continuously gives important impetus. In the complex, multifaceted world of the packaging industry, it is not possible anymore for individuals to represent all the conditions and processes themselves. This task is taken on by the dvi. It collects processes and distributes important information, which provides members of the network with significant insights and furthers innovation. Many initiatives constitute the dvi, for example the

"Deutscher Verpackungskongress" (German Packaging Congress) or the "Dresdner Verpackungstagung" (Dresden Packaging Conference). The "Deutscher Verpackungspreis" (German Packaging Award) and "PackVision" are also known as innovators in the industry. The modular training concept of the packaging Academy increases the competence of experts, managers and career changers. Their further-education training consists of three options for continuing education: Individual seminars, the overall training course Packaging Professional, and in-house training.



Deutsches Verpackungsinstitut e.V. Kunzendorfstr. 19 / 14165 Berlin Tel.: +(49) 30 80 49 858-0 info@verpackung.org

www.verpackung.org



Scan V-Card

ZLV - Zentrum für Lebensmittel- und Verpackungstechnologie e.V.

The ZLV is a joint Initiative of Leading Industrial Companies, Politicians, Institutions, Science and Research. ZLV is a cooperation network for all business partners in the entire value chain for factory made and packaged foodstuffs. All competencies across the value chain - from the raw materials for foodstuffs and packaging materials, to the rail trade - are connected in an ideal way. As an international cooperation platform, we promote new food processing and packaging technologies and provide a significant benefit for our



NETWORK

product lifecycle management (PLM), and Virtual Reality (VR). The VDC members gain improved innovation activity and a higher productivity by acquiring additional information and cost advantages.

members in the sectors of innovation, education and training, compliance, ecology and sustainability.

Networking and close cooperation with Universities, the Fraunhofer Society and relevant industry associations offer immediate added value to companies and scientific institutions. We invite you to join and benefit from our network and its impartation of interdisciplinary knowledge.

Zentrum für Lebensmittelund Verpackungstechnologie e.V. Ignaz-Kiechle-Str. 20-22 / 87437 Kempten Tel.: +49 (0) 831 / 5290-601



www.zlv.de



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Packaging Valley – Events & Services

1/ The Industry Event: Packaging Valley Days

The Packaging Valley Days take place in Schwäbisch Hall on a regular basis. Meet companies from the region and international experts from the packaging industry. It's worth attending – learn about future developments, industry challenges and industry

answers. The included expert peer presentations and factory tours at our member companies have fascinated each visitor.



Packaging Valley summarizes the most important national and international industry trade fairs at a glance. Our members exhibit at over 60 trade fairs in more than 25 countries. One click on the trade fair shows you the exhibiting member companies.







The next event and further information http://www.packaging-valley.com/en/packaging-valley-days/



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To the trade fair calendar http://www.packaging-valley.com/en/veranstaltungskalender/

EVENTS & SERVICES

2/ Meet Us Here: The Packaging Valley Trade Fair Calendar

Save the date: FachPack and Interpack.

Packaging Valley and many of our members will be here, in and around the Packaging Valley Lounge.



3/ For Students and Graduates: Students meet Entrepreneurs

Packaging Valley cooperates with companies, schools and technical colleges alike. Our member companies train and foster new talents. Every year the two-day event "Students meet Entrepreneurs" takes place, where students can learn about the companies and factories in Packaging Valley. Don't miss out on this unique chance to make direct contact.







The next event and further information http://www.packaging-valley.com/en/students-meet-entrepreneurs/













4/ Virtual Reality in Packaging Valley - Discover the 3rd Dimension

Virtual engineering is both key technology and future in the special engineering.

Benefit from virtual applications:

Life-size visualisation of your machines as well as 3D presentations enable efficient development and optimisation processes.

And that is how to convince: in virtual environments your data will turn into interactive and fascinating presentations.

Design Reviews Mock-ups Construction- and Assembly Planning Operator Trainings Trainings and Workshops Presentations and Video Conferences



Contact and further information http://www.packaging-valley.com/en/vr-center/

EVENTS & SERVICES







About Packaging Valley



Packaging Valley Executive Committee - from left to right: Uwe Herold (E+K), Bernd Hansen, President (ROMMELAG Gruppe), Hans Bühler, Founding President (OPTIMA), Elke Bader (BPS), Sabine Gauger, Vice President (OPTIMA), Kurt Engel (Packaging Valley).

Founded in 2007, the Packaging Valley Germany e.V. association pools the unparalleled packaging competence in the region to help you find the ideal solution provider for your needs.

With an export share of more than 80%, you are sure to encounter Packaging Valley technology anywhere you go in the world.

Get to the heart.

See you soon in Packaging Valley. We look forward to hearing from you. Scan Card





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