

HEALTHCARE



Go for the world's leading
filling and sealing solution.

THE WAY TO SUCCESS STARTS WITH FUNCTIONAL SEALING SOLUTIONS

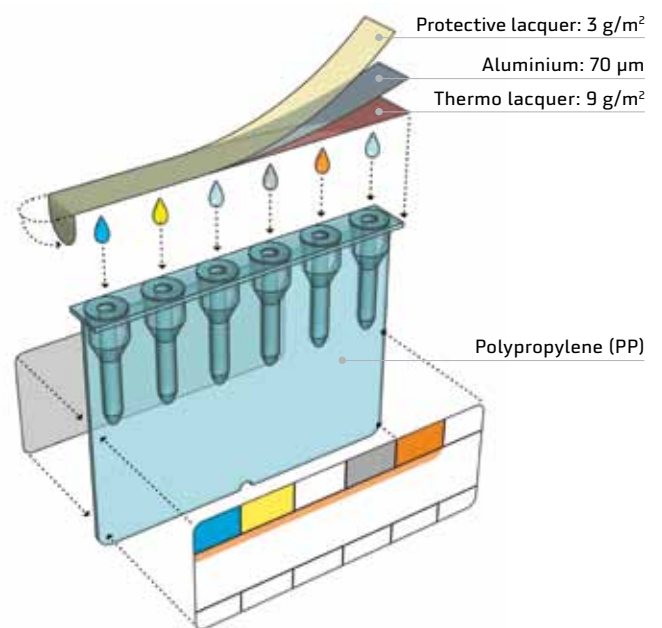
Rychiger AG, based in Switzerland, has distinguished itself as an international supplier of customer-specific solutions for packaging machines in the diagnostic and medical technology industries. Our installations are functional sealing solutions with ultra-precise dosing systems that are based on decades of experience and state-of-the-art technology. As a certified company all of our processing stages are based on ISO 9001:2008 standards. We also provide you with comprehensive qualification documentation according to GMP/cGMP.

FOCUS ON SEALING KNOW-HOW

Seal integrity is arguably the most important criteria for packaging that must meet the highest safety standards and offer the best product protection. The optimal synergy of sealing time, pressure and temperature produce the highest possible seal integrity.

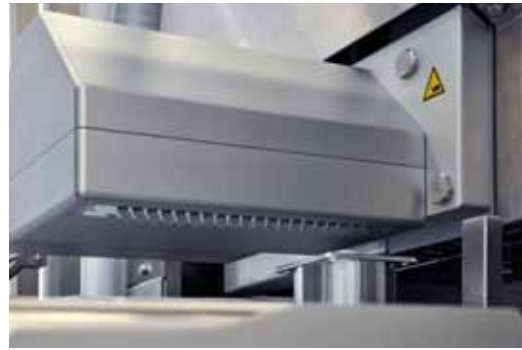
Thanks to special barrier materials (a choice of materials with low permeability) and a high barrier property you can guarantee a product shelf-life from 12 to 24 months.

With our conductive sealing process we securely join thermo-plastics or alkene (olefine) with an aluminium-coated, laminated or co-extruded substrate.



Micro-Dosing technology

Our state-of-the-art micro-dosing technology enables ultra-precise, drip-free filling of liquids while an integrated CIP function facilitates quick product changes. The valves can be placed at defined intervals according to your needs. A remarkable tolerance of +/- 1% is maintained even with fill volumes as small as 100 µl.



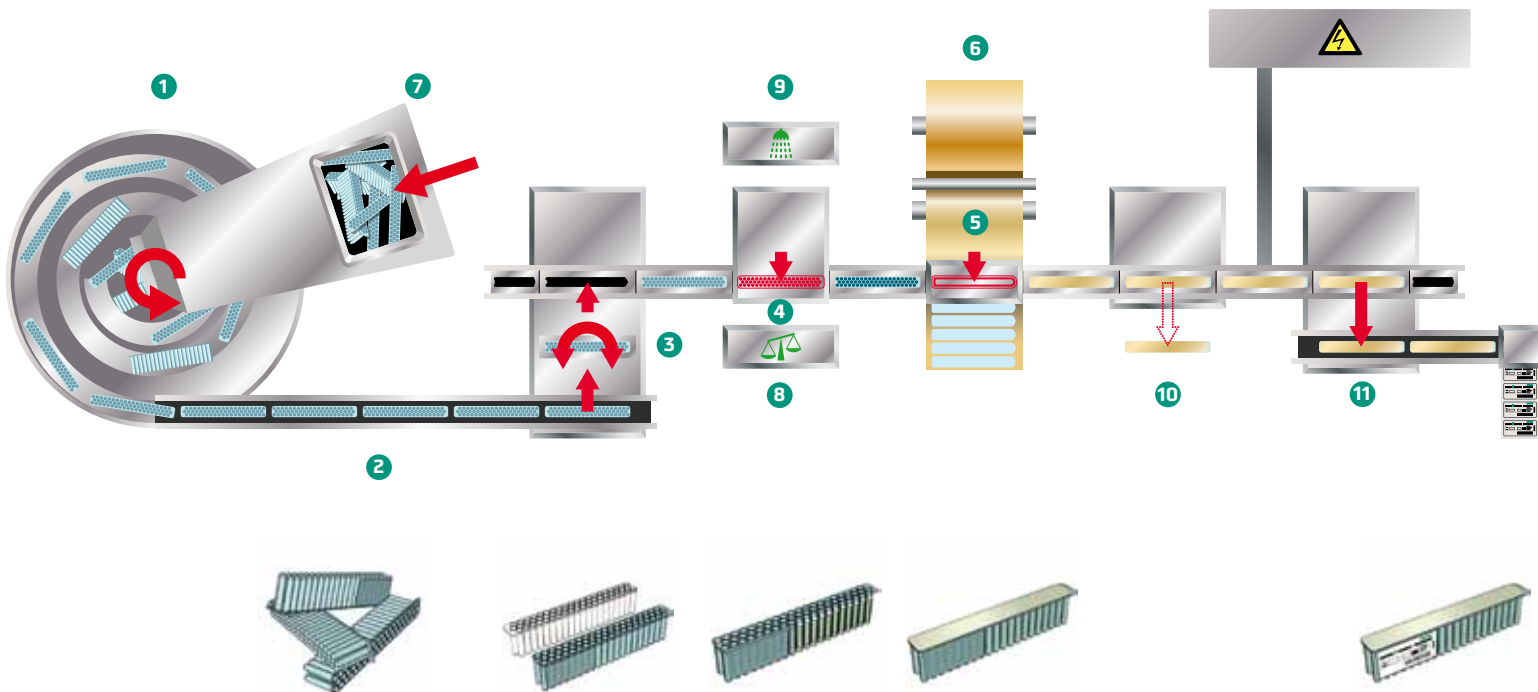
Micro-dosing filler

One-stroke punching and sealing technology

Thanks to our unique «one-stroke» technology, punching and sealing take place in a single step.



One-stroke technology



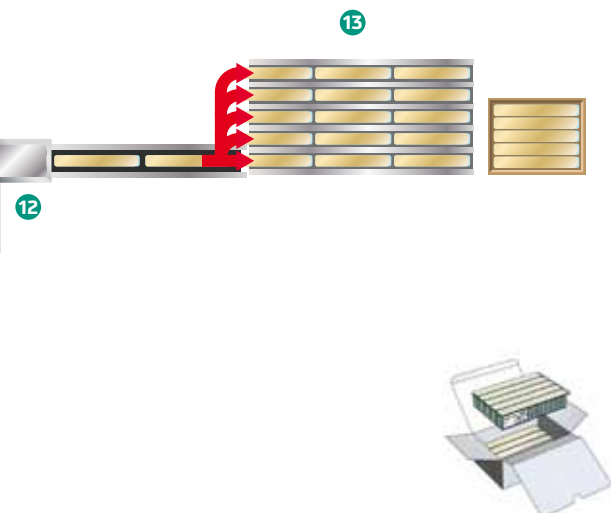
PACKAGING DESIGN & TECHNOLOGICAL DEVELOPMENT

Our experience has shown that trusting your packaging ideas to Rychiger's competence in technology and solutions early in the development phase leads to the most efficient production processes possible in the industry.

- Optimization of capsule design with regard to industry capabilities
- Material recommendations
- Punching and Sealing trials / ultrasonic welding trails
- Filling and Dosing trials
- Customer-specific technology development
- Prototype and pilot line construction

RYCHIGER SERVICES

Rychiger is highly valued for its specially tailored services and rapid on-site support. Our focus is on continually optimizing production processes and machine technology in step with any changes in packaging materials. Our motivated and qualified team of service engineers will ensure you get the best performance from your machine for many years.



PROCESS (EXAMPLE)

- | | |
|---|---|
| 1 Oscillating conveyor | 8 Adjustment |
| 2 Infeed conveyor | 9 Clean in Place (CIP) |
| 3 Pick-and-Place System incl. orientation | 10 Defective parts rejector/Sampling |
| 4 Micro-dosing filler | 11 Pick-and-Place System exit |
| 5 Punching and sealing tool incl. cover foil handling | 12 Labelling system with discharge conveyor |
| 6 Spooler | 13 Final packaging |
| 7 Refill hopper | |

QUALIFICATION / VALIDATION

In order to assist you in ensuring patient safety of your products that are subject to stringent statutory requirements, we offer you qualification documents that are compatible with GMP / cGMP.

Our qualification documentation provides written proof that our installations:

- are designed according to your individual specifications
- are properly installed
- operate according to established standards and deliver the expected performance

Our qualification documentation comprises the following three phases:

Design Qualification (DQ)

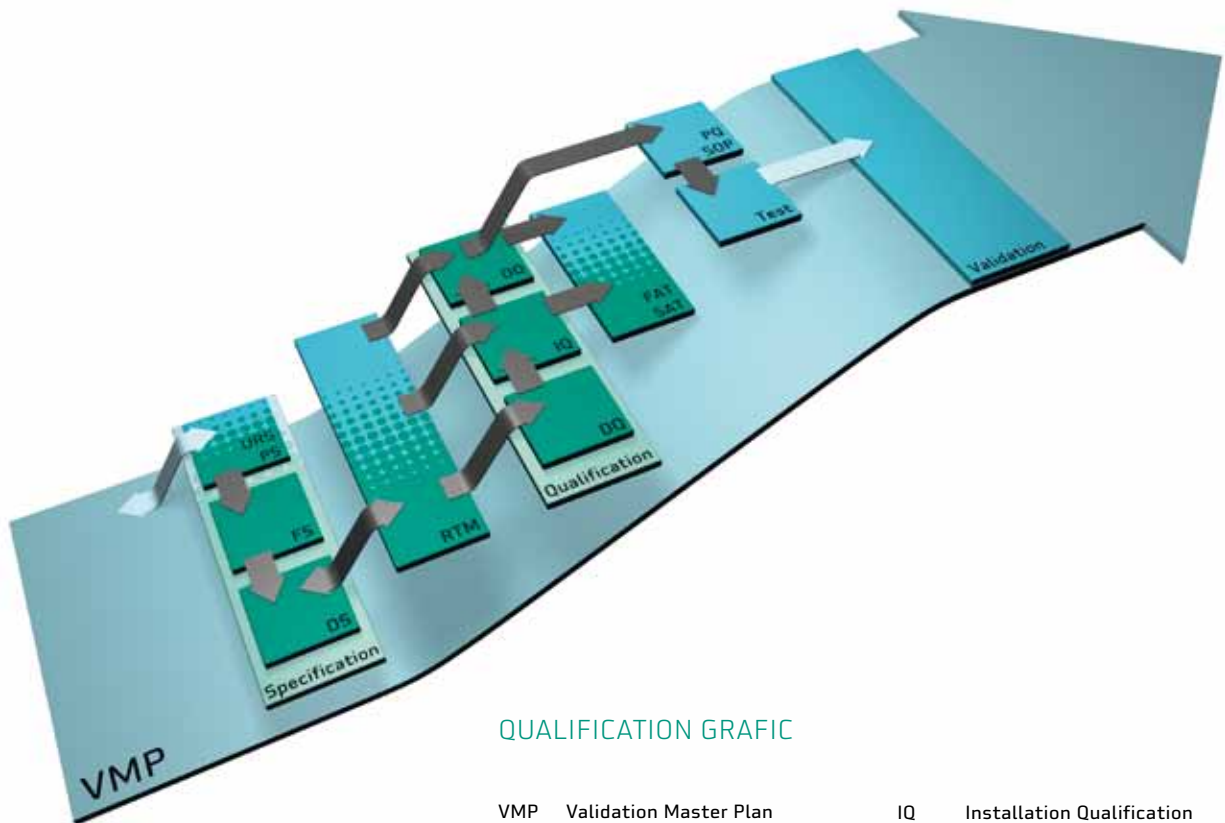
Review of project plans (design documentation) for conformity with customer specifications as well as compliance with GMP standards.

Installation Qualification (IQ)

Inspection of installation for consistency with planning documentation.

Operational Qualification (OQ)

Checking of operational aspects of installation by means of qualifying system tests.



QUALIFICATION GRAFIC

VMP	Validation Master Plan	IQ	Installation Qualification
URS	User Requirement Specification	OQ	Operational Qualification
PS	Project Specification	FAT	Factory Acceptance Test
FS	Functional Specification	SAT	Site Acceptance Test
DS	Design Specification	PQ	Performance Qualification
RTM	Risk Traceability Matrix	SOP	Standard Operating Procedure
DQ	Design Qualification		

SWISS QUALITY AND KNOW-HOW

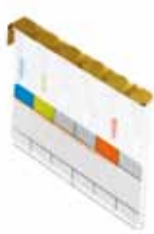
Highly motivated employees, decades of experience in the development of top-class filling and sealing machines, the continuous development of new and

existing technologies, and our comprehensive services make Rychiger the ideal partner for companies in the healthcare industry.

CUSTOMIZED SOLUTIONS



PACKAGING SOLUTIONS



THE DECISIVE ADVANTAGES

Precise Filling

The installations handle filling of smallest volumes with highest precision possible.

Rychiger's Leading Sealing Technology

Thanks to Rychiger's unique «One-Stroke» technology the punching and sealing are performed in a single step.

Ergonomic Construction

Easy operation and cleanability.

Cleanroom Class

ISO 7 and ISO 8 (nach ISO 14644-1)

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