



SEIDENADER
KÖRBER SOLUTIONS

SEMI-AUTOMATIC INSPECTION MACHINE

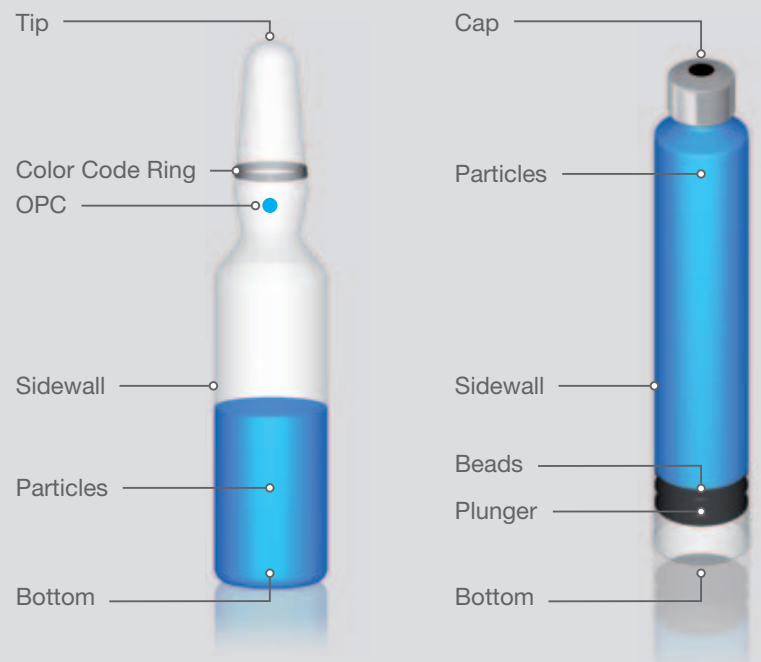
New generation of high-quality
visual inspection



SEMI-AUTOMATIC INSPECTION

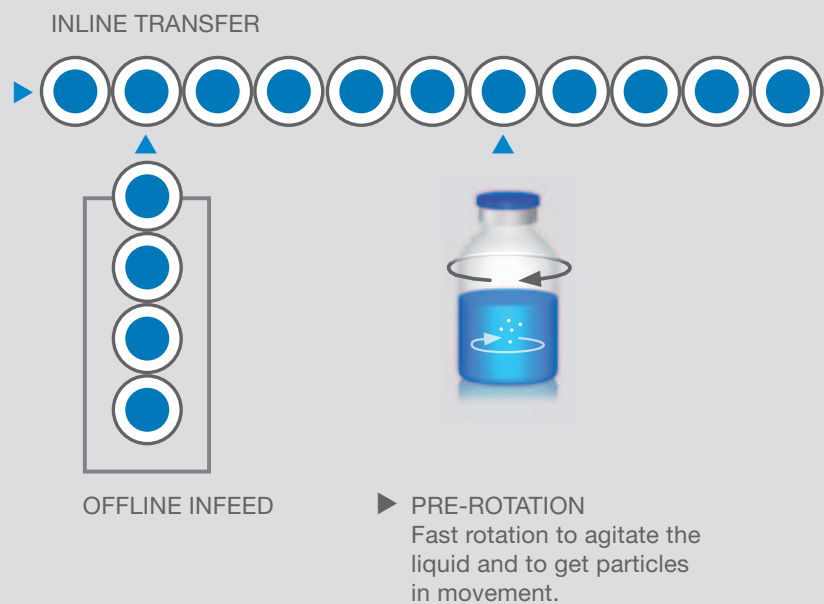
Inspection criteria

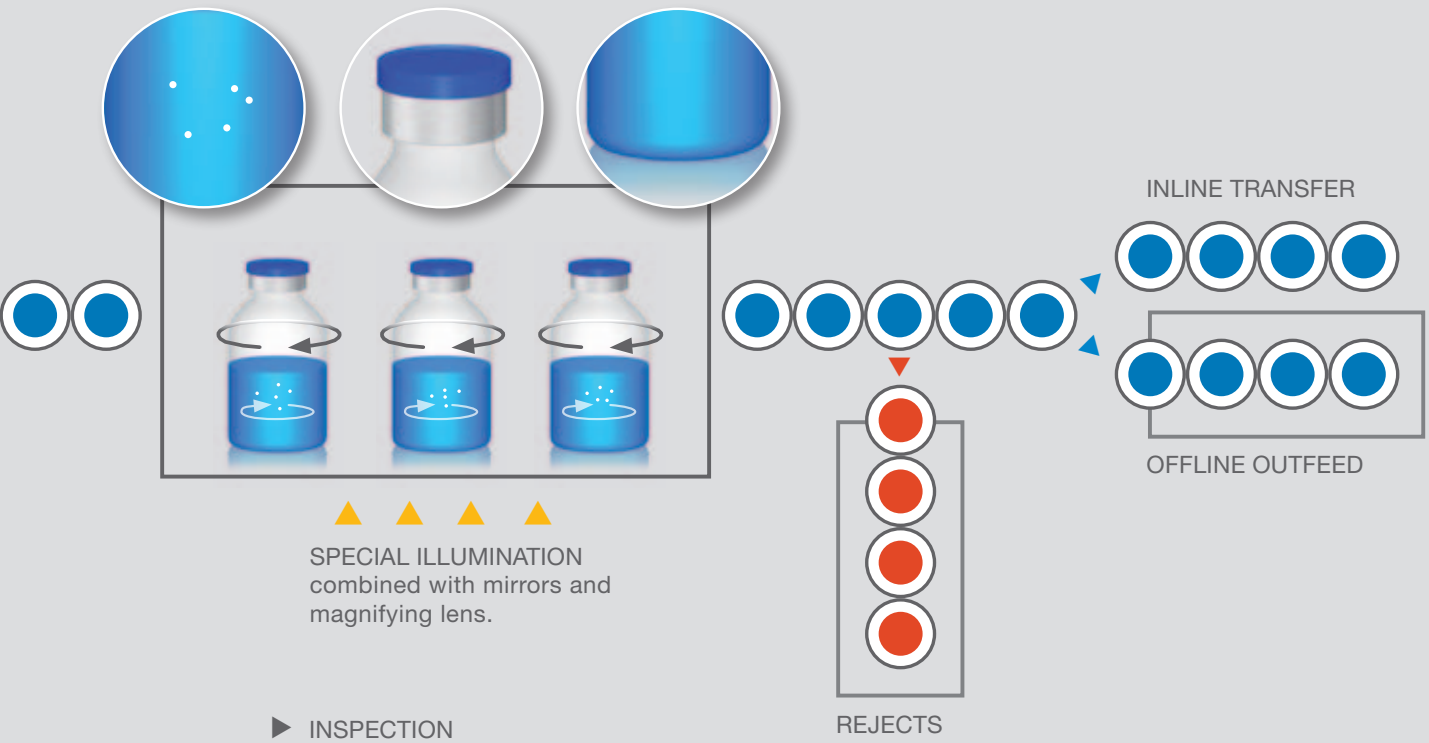
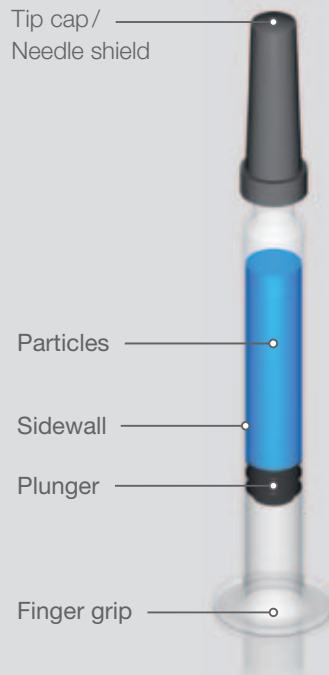
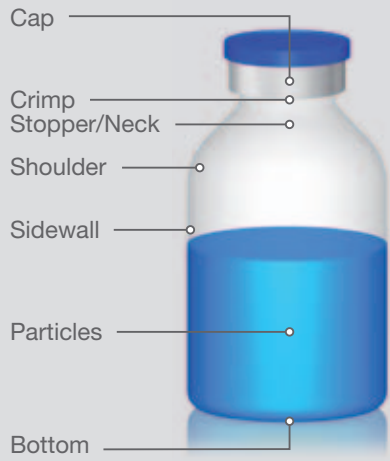
simultaneous inspection
of many different criteria
in one machine



Inspection process

detection of particles
and cosmetic defects



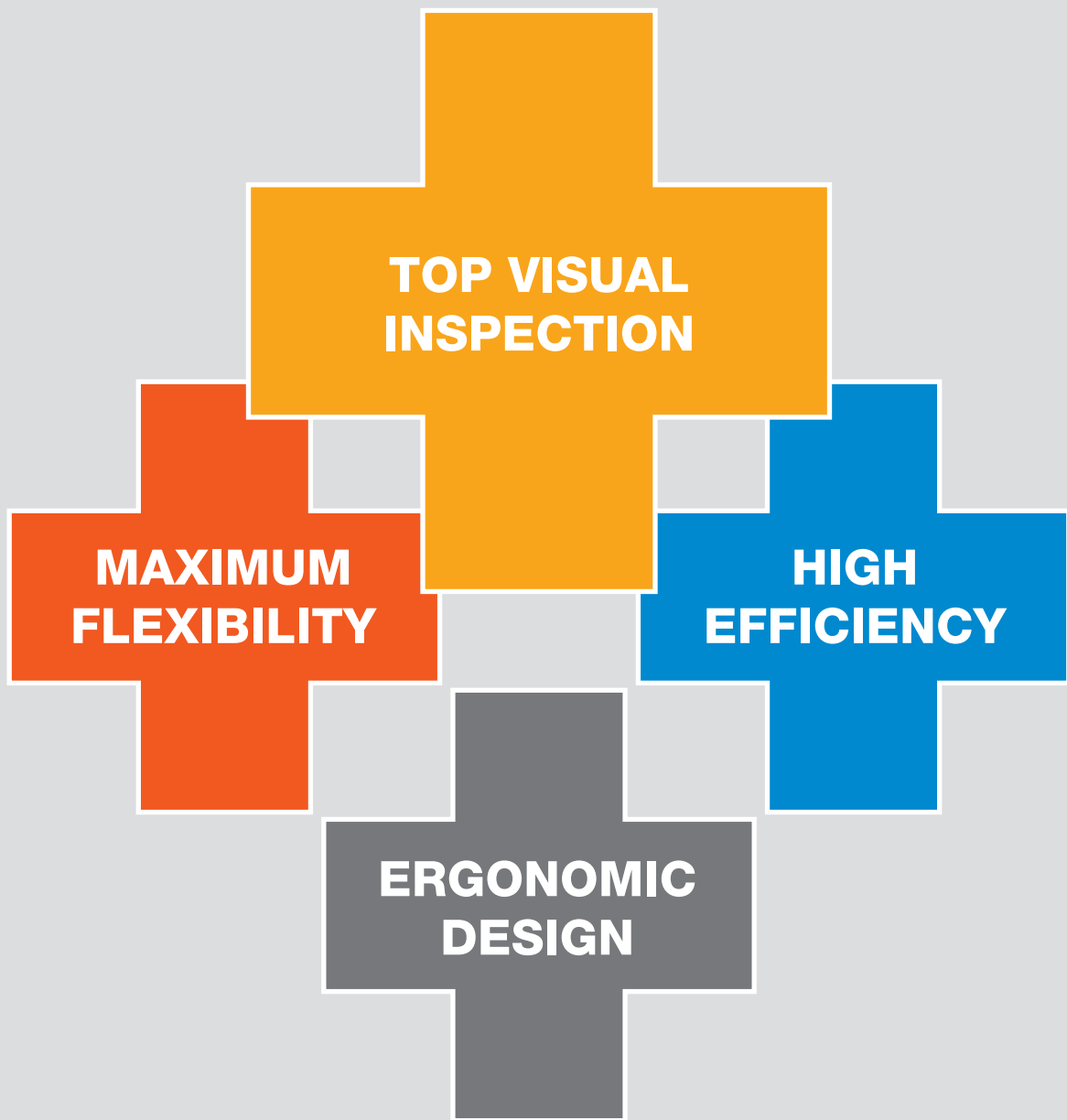


► INSPECTION
Slow rotation to allow the operator to scan full circumference of container and closure, and to see particles in movement.

INTELLIGENT INSPECTION SOLUTIONS – WITH EXPERTISE AND KNOW-HOW

When we develop our products we have the entire service life of the machine in view: repair costs, maintenance cycles, energy consumption and the expandability of our systems. Intelligent solutions offer great potential for savings on total operating costs. Rapid amortisation of procurement costs is ensured with our machines, thanks to e. g. their long service life, minimisation of wearing parts, optimisation of service intervals and spare part costs as well as reduced training costs for operators and maintenance personnel.

The flexibility of our machines reduces your capital outlay: an existing system can be reconfigured quickly and simply to suit any of your container formats and products. If your product line is expanded, a Seidenader inspection machine can be upgraded or retrofitted even after many years.



OPTIMISED PERFORMANCE WITH IMPROVED TECHNOLOGY.

HIGHEST INSPECTION QUALITY

A variable high-speed rotation system driven by servo motors whirls up any particles in the container. In the operator's field of vision the container rotates around its own axis for a 360° inspection at an individually selectable speed. Inspection of the seal area and the bottom of the container is also convenient using various mirrors. A magnifying glass and the Tyndall effect also make detection easier: diffuse light causes particles to shine, like dust in the beam from a projector.

OPTIMUM OVERVIEW

An LED feedback bar provides an optimal overview: the operator receives confirmation of the container's status in the form of coloured light markings – indicating whether it has been marked as defective or not.

ADJUSTABLE INSPECTION ANGLE

The machine can be optionally configured so that the inspection angle can be adjusted to 60° or 75° depending on the task to be performed. Products which require different angles for inspection purposes can be inspected in one machine.

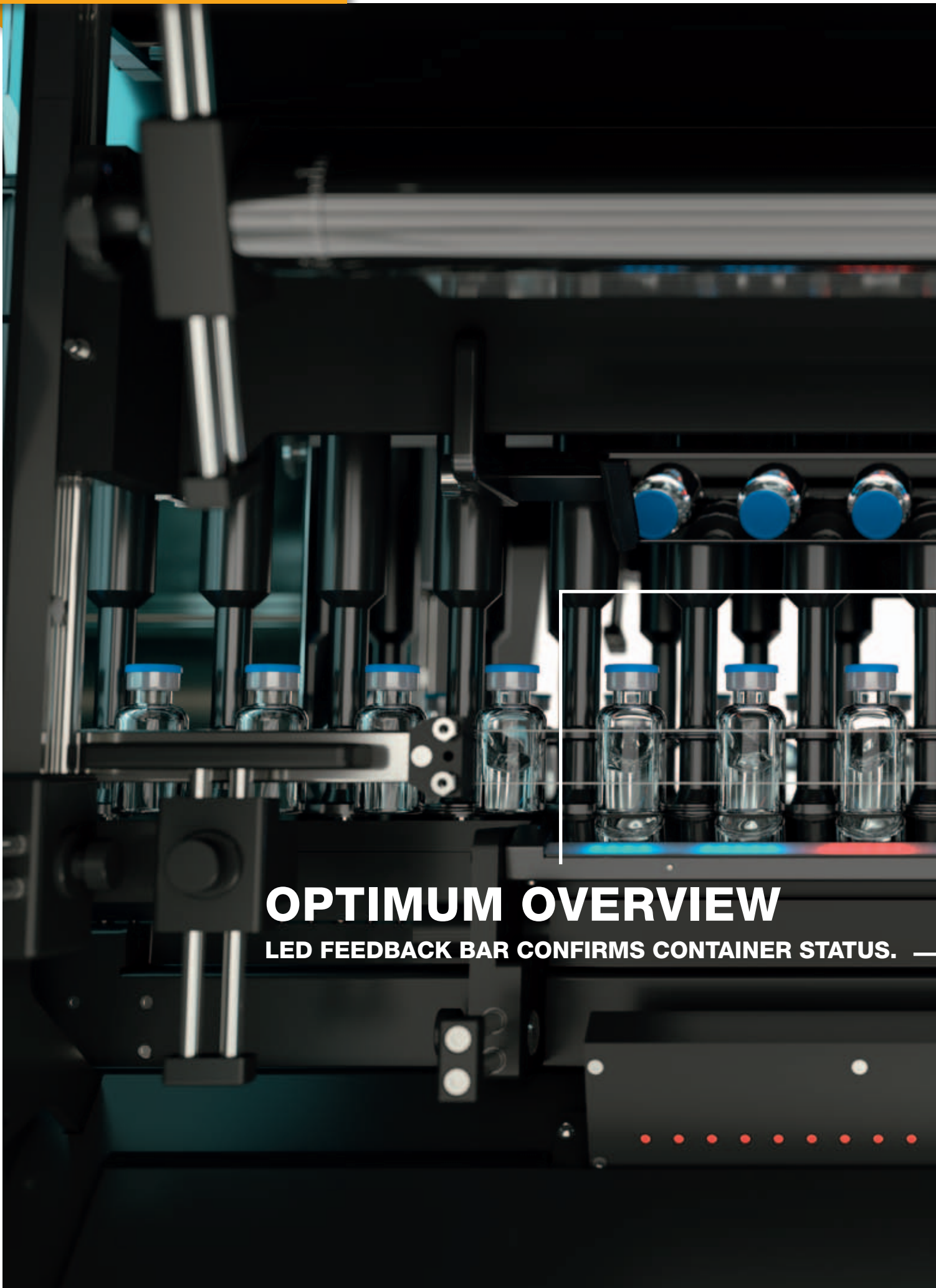
INDIVIDUAL SPEED

Depending on the product and the customer's requirements, containers can be fed through the inspection cabin continuously or intermittently. For optimal adaptation to the items, the roller diameter and the roller distances of the chain transport system are changed according to the shape and size of the container.



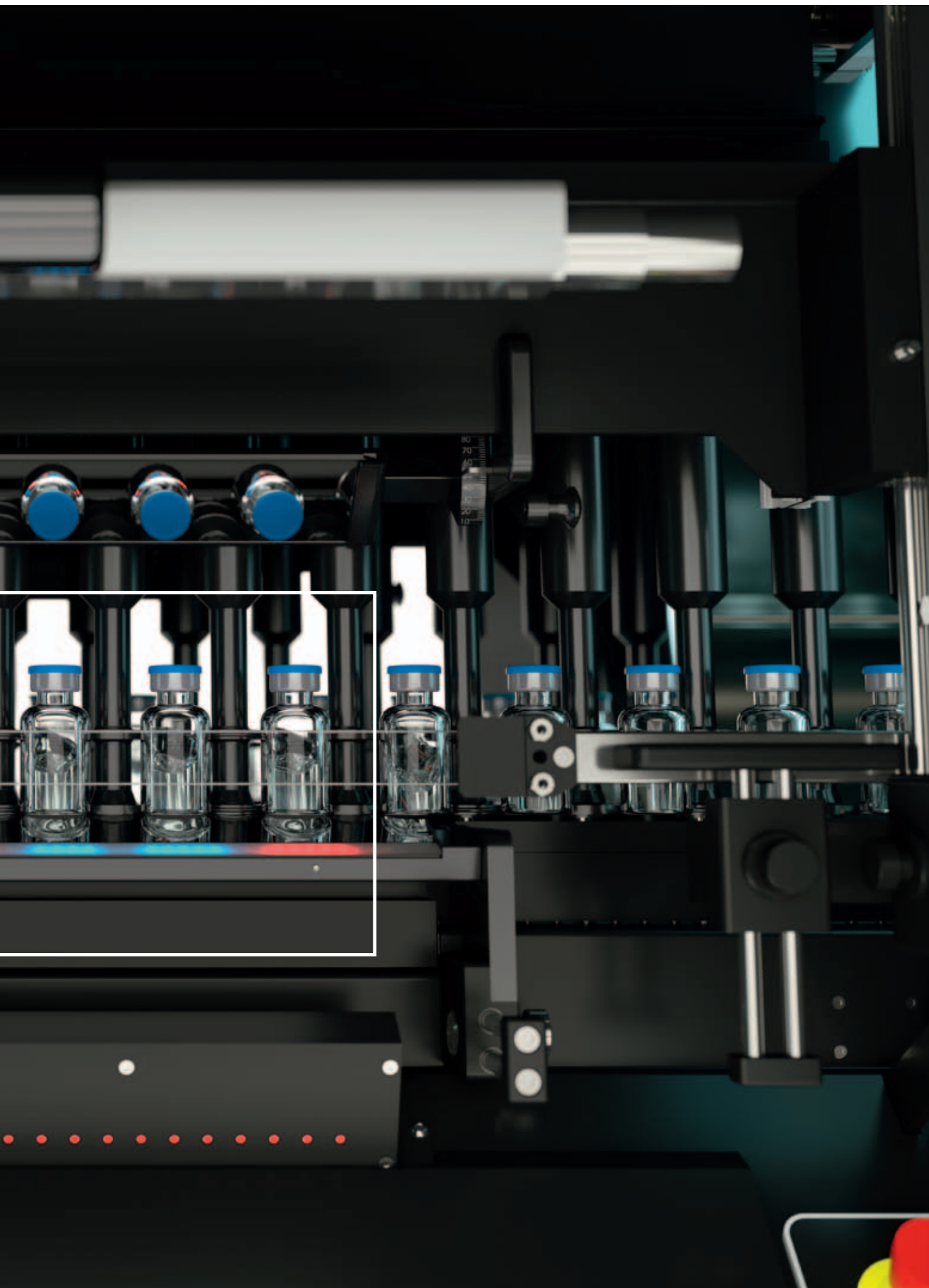
THE HIGHEST INSPECTION QUALITY

INDIVIDUAL ROTATION SPEED, SPECIAL
LIGHTING SYSTEMS, ADJUSTABLE MIRRORS.



OPTIMUM OVERVIEW

LED FEEDBACK BAR CONFIRMS CONTAINER STATUS. —



ADJUSTABLE INSPECTION ANGLE

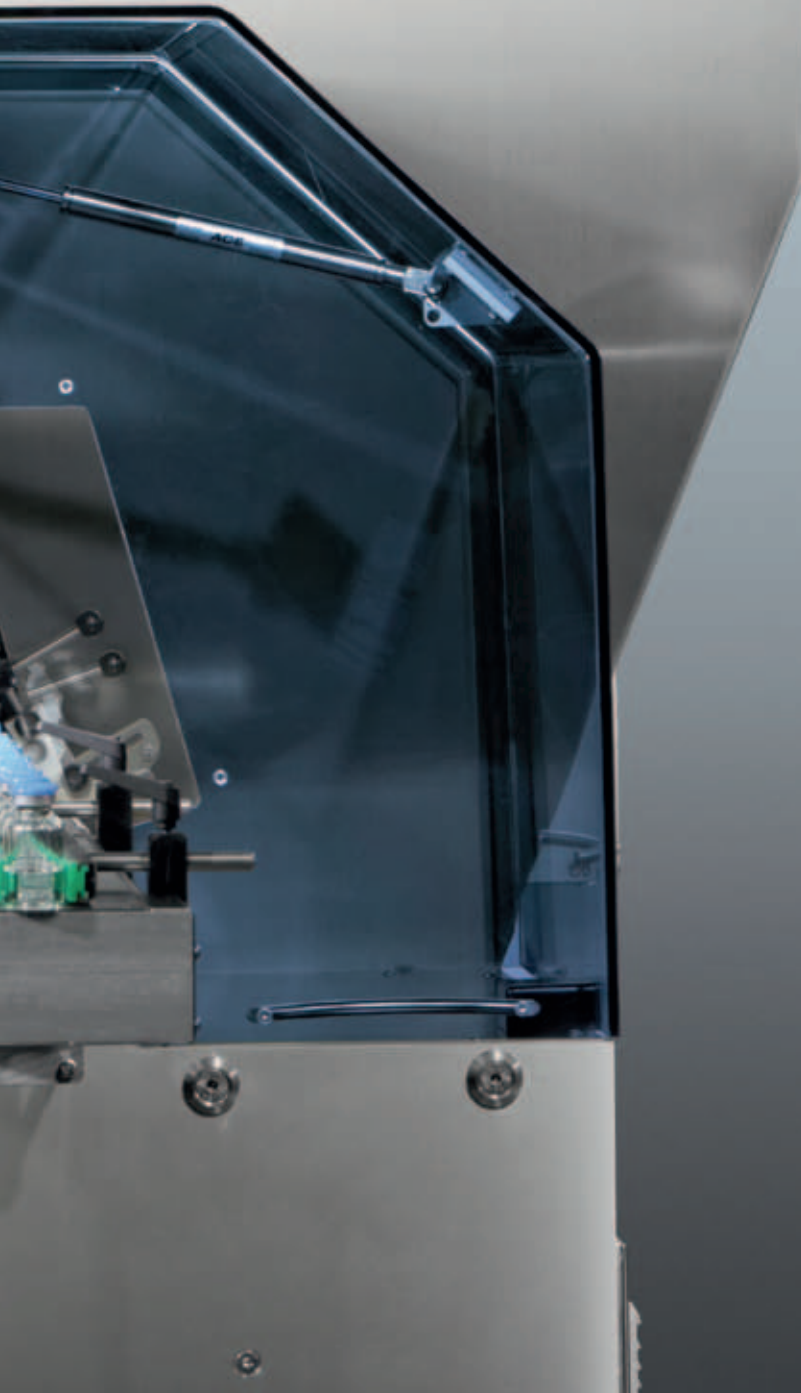
ONE MACHINE TO MEET MANY DIFFERENT REQUIREMENTS.



90+



SEIDENADER
KÖRBER SOLUTIONS







CLOSE-UP ON DETAILS.

A MAGNIFYING LENS HELPS TO
DETECT THE SMALLEST DEFECTS.

ECONOMICAL. SIMPLE. PROFICIENT.

BEST PERFORMANCE

Seidenader's semi-automatic inspection machines ensure the highest standards in the quality control of pharmaceutical products, at a speed of up to 9000 pharmaceutical containers per hour. In comparison with manual inspection, a visual inspection with automated product handling can be carried out more accurately, effortlessly and up to 5 times faster.

VERSATILE AND EFFICIENT

Maximum efficiency means: the simultaneous inspection of multiple criteria in one machine and by one person. The conditions required for this are created by various lighting and mirror systems. At a glance, the operator can therefore inspect containers for foreign particles in the product, contamination, cracks or glass damage to the bottom, shoulder and cap area.

GENTLE PRODUCT INFEED

Perfectly matched components at the infeed reduce the risk of glass breakages, so downtime is prevented. For example, a tilted container is detected immediately at the infeed star wheel and the product feed is automatically stopped.

INDIVIDUAL INSPECTION PROFILES

Inspection parameters such as rotation speed or light intensity are saved with the respective recipe. in the HMI and uploaded automatically. It is therefore a simple matter to implement a reproducible setting of inspection parameters for each batch.

SIMPLE FORMAT CHANGES

When changing to another product the machine is adapted by a quick and toolfree format change: All format parts are clearly marked and numbered. With the product recipe automatic settings are loaded. Instructions for manual changes can be saved in the HMI.

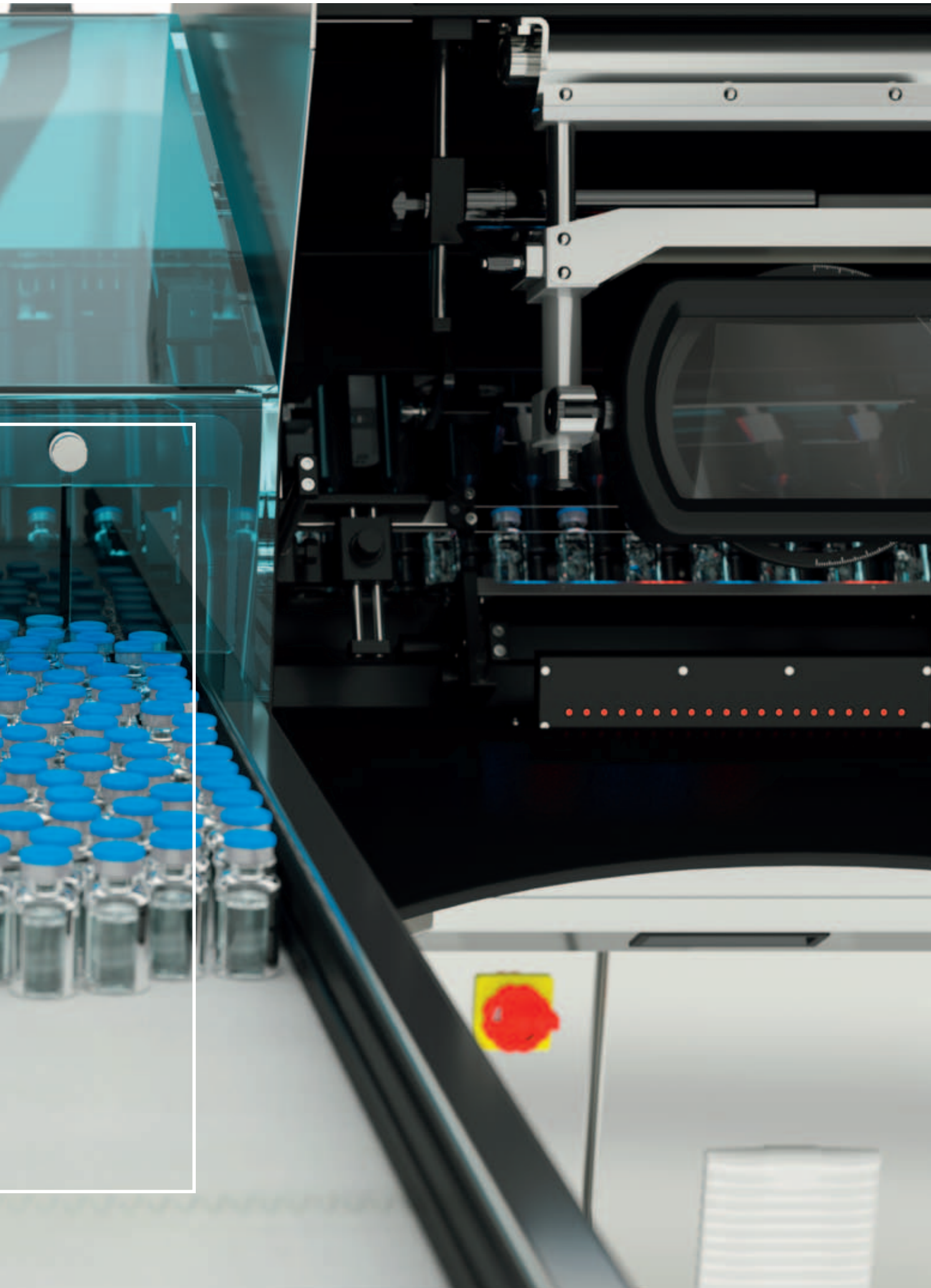


UP TO **9000**
CONTAINER/HOUR
BEST PERFORMANCE AT BEST QUALITY.

A blue-tinted photograph of a laboratory machine, likely a liquid handling robot, with a tray of vials. The machine has a transparent blue top with a silver handle. Inside, a tray holds many small vials with blue caps. A white rectangular box highlights a specific vial in the foreground. The background is a plain white surface.

GENTLE PRODUCT INFEEED

AVOIDS FRICTION, AIR BUBBLES
AND GLASS BREAKAGE.







**VERSATILE AND
HIGHLY EFFICIENT**

**SIMULTANEOUS INSPECTION OF CAP,
SIDEWALL, BOTTOM AND THE LIQUID
FOR PARTICLES.**

ONE SOLUTION FOR ALL REQUIREMENTS.

A WIDE RANGE OF CONTAINER TYPES AND SIZES

The semi-automatic inspection machines are suitable for many different container shapes and sizes, from 0.5 to 1000 millilitres in volume. Depending on the format set, ampules, cartridges, vials and bottles with liquid or freeze-dried contents can be inspected, as well as syringes. Diameters can be between 6.85 and 95 millimetres and height up to 240 millimetres.

VARIABLE PRODUCTION REQUIREMENTS

Container infeed can take place inline from an upstream system or offline from cassettes with or without a buffer. Defective products can be categorised, and good products either removed manually using cassettes or conveyed inline to the next machine in the line.

LATER RETROFITS

When your production requirements change – new containers, different sizes, different products or other inspection criteria, new technologies, inline instead of offline operation – the modular structure of Seidenader machines allows them to undergo many types of retrofit - even many years after commissioning.



**WIDE VARIETY
OF CONTAINER
SHAPES AND SIZES**

VOLUMES FROM 0.5 ML UP TO 1000 ML.

ERGONOMIC CONCEPT FOR BEST RESULTS.

FOCUSING ON THE OPERATOR

Maximum support and ease of use for the operator: the optimal ergonomic design of the machine effectively prevents premature fatigue and therefore provides a basis for the highest quality standards in visual inspection.

ERGONOMIC DESIGN

The cabin, widened to 80 centimetres, and a completely open leg area make for optimal working. Defective products are marked by a brief, effortless lifting of the index finger – the hand is continuously ergonomically supported. In addition, an LED feedback bar provides an optimal overview: a coloured light indicates if a container is marked.

EASY HANDLING, TOTAL COMFORT

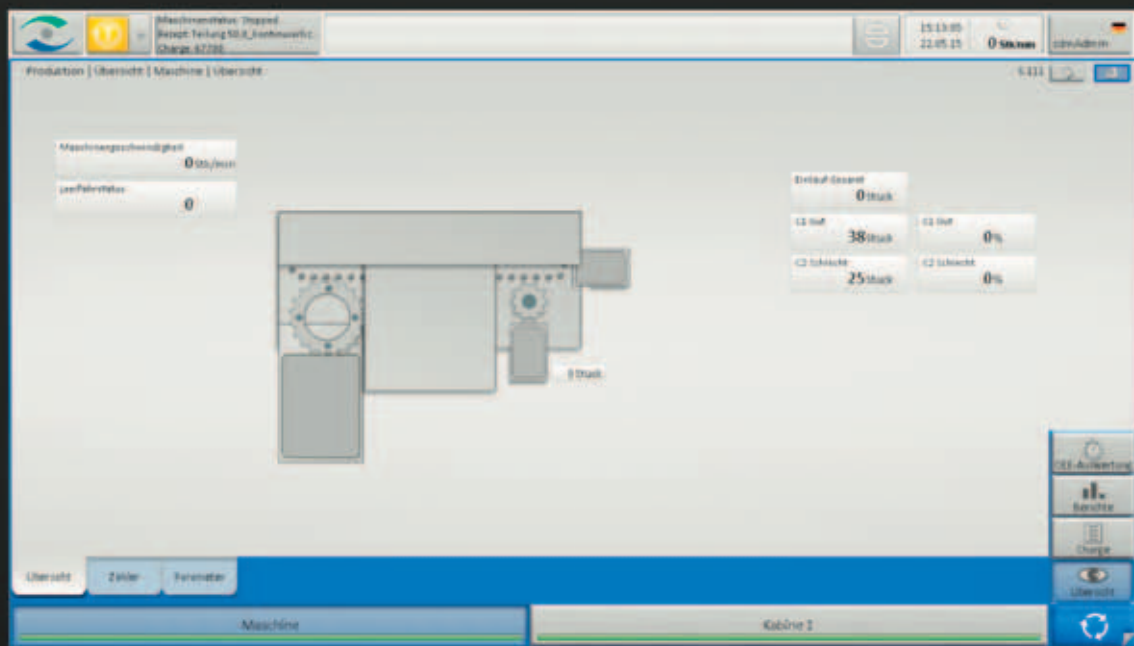
To facilitate visual inspection, a magnifying lens, adjustable mirrors and, depending on the container, product and inspection criteria, various lighting systems are available. The variable-speed transport system for the containers also considerably speeds up and facilitates inspection.

INTUITIVE OPERATION

The machine is operated intuitively via a user-friendly wide-screen touchpanel. The software and control panel (HMI) meet the high standards of Seidenader's fully automatic inspection machines.

INTUITIVE OPERATION

REPRODUCIBLE INSPECTION CRITERIA
BY UPLOADING AUTOMATIC SETTINGS.

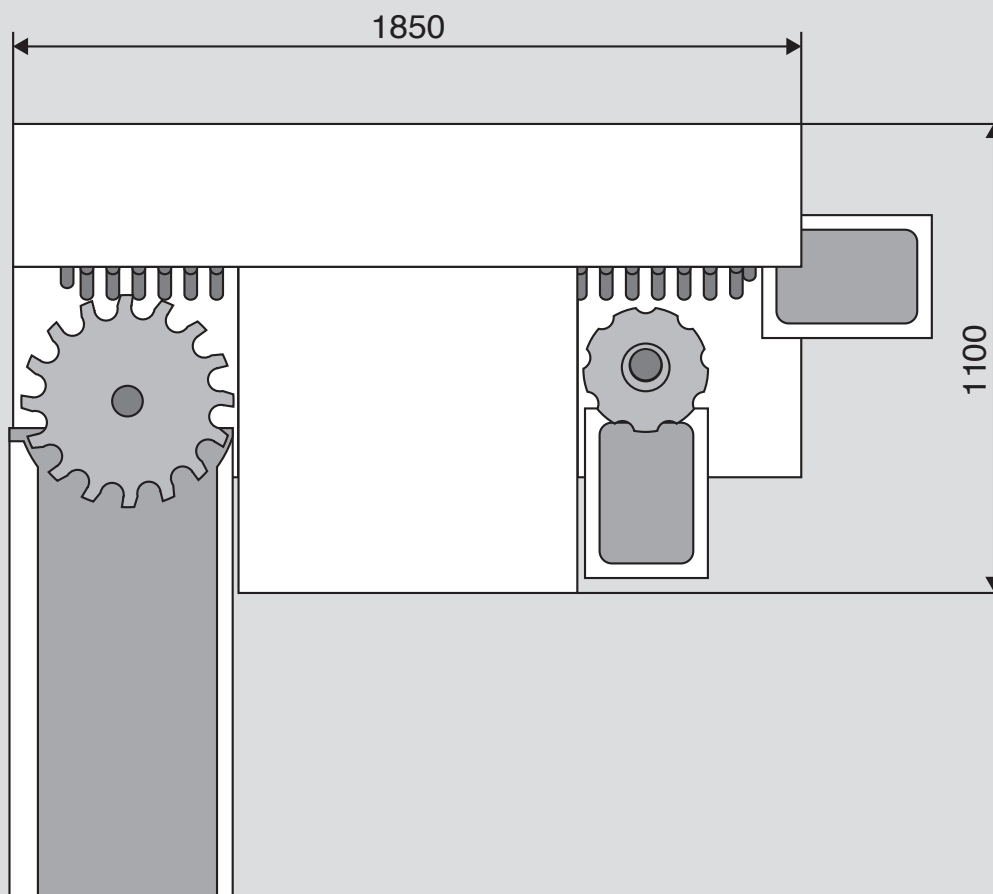


IN GOOD SHAPE FOR INSPECTION

AMPLE SPACE AND CONVENIENCE
SET NEW STANDARDS IN VISUAL CONTROL.



V90+



All units are in millimetres.
Footprint illustrated
is example only.

SEIDENADER LIFE CYCLE SERVICE



Seidenader Service Desk

The Service Desk is staffed by qualified experts. They can provide 24/7 service 365 days a year. The Service Desk combines maximum competence with short response and solution times.



Seidenader Academy

Our customized training and support programs impart theoretical and practical knowledge to enhance the productivity of your employees.



Seidenader Field Service

Our technicians have the expertise and understanding that comes from time, training, dedication to their craft and the determination to provide superior service to every customer.



Seidenader Original Spare Parts

We stock an extensive inventory of original spare parts at our locations worldwide to ensure speedy delivery. Machine-specific spare parts packages are also offered to give you in-house stock for immediate installation.



Seidenader Retrofit/Upgrades

Retrofit: For more flexibility and functionality take advantage of the modularity and expandability of your machines and profit from consistently modern equipment. Upgrades: Improve your installed equipment and software with upgrades.



Seidenader Process Optimization/OEE

Consulting and technical support to increase equipment performance, availability and reliability.

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