



SEIDENADER
KÖRBER SOLUTIONS

V90+

Semi-automatic inspection for
pharmaceutical containers



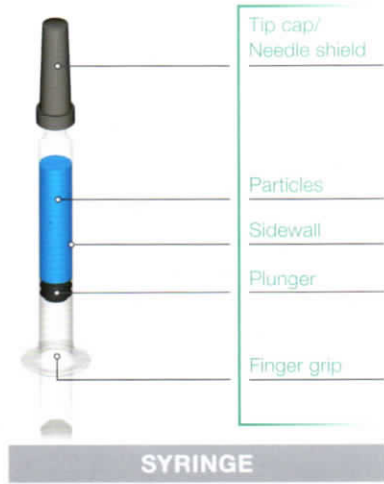
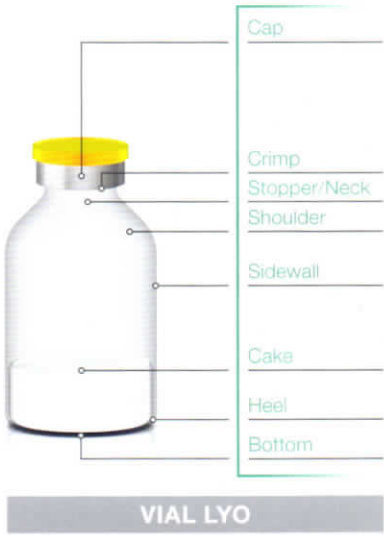
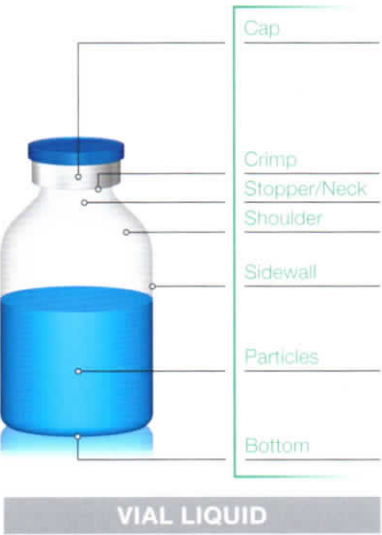
**SOMETIMES VISUAL INSPECTION
IS THE PREFERRED OPTION**



In the pharmaceutical industry, quality standards are becoming more and more stringent. Besides sustaining their own quality standards, drug manufacturers have to make sure that their products follow the standards set by the respective government pharmacopeia or the USP. General requirements are that each final container of all parenteral preparations shall be inspected to the extent possible for the presence of observable foreign and particulate matter. Products also have to be inspected for

other critical defects, such as cracked or defective containers or seals.

In a large-scale production environment this control is usually performed by high-speed inspection machines. But for smaller production lines, special products or for other reasons, visual inspection is sometimes the preferred option.

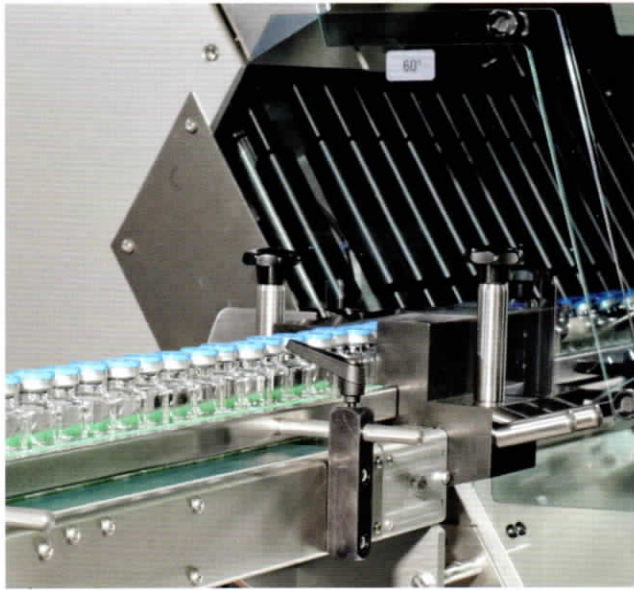


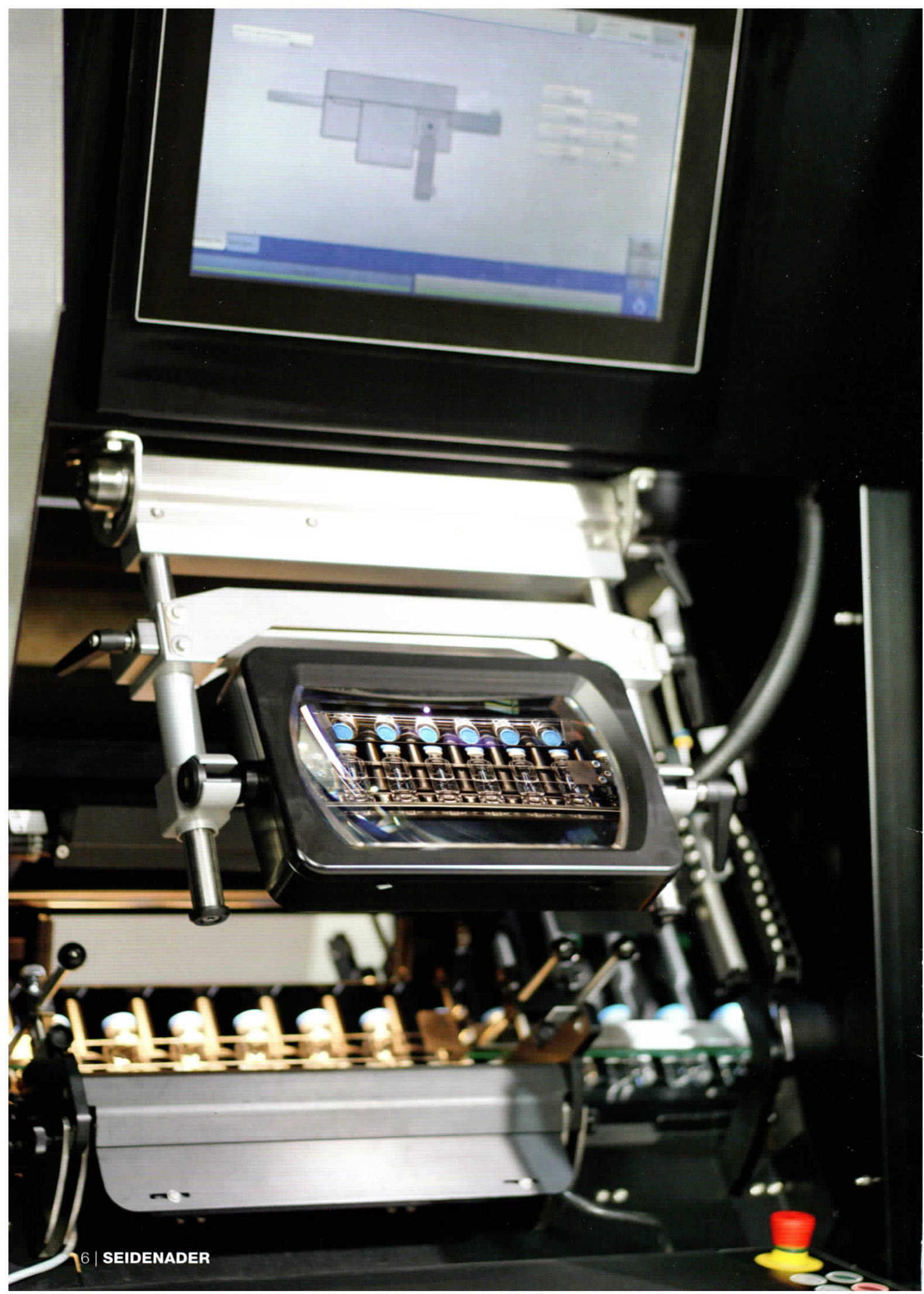
AUTOMATIC PRODUCT HANDLING – FAST, ACCURATE, CONSISTENT

Visual inspection combined with automatic handling of the containers enable operators to inspect four to five times faster, more accurately and more consistently. The V90+ semi-automatic inspection machine provides great assistance in helping the operator to do the best possible job with the least amount of fatigue.

YOUR BENEFITS

- Technical throughput up to 9,000 containers per hour
- Range of sizes between 0.5 ml and 1,000 ml
- Simultaneous inspection for several criteria: particulate matter, glass defects, bottom, shoulder and cap area, cracks, dirt
- Tyndall effect: particles glow like dust particles in front of a film projector and can be detected very easily
- A range of light systems (LED) and magnifying lens, enhance the ability to detect defects.
- Variable high-speed rotation of the objects with servo drives to agitate particles
- Variable slow rotation allows 360° inspection of the container by parameter setting
- Number of containers rotating in the inspection area can be individually chosen (cyclic operation)

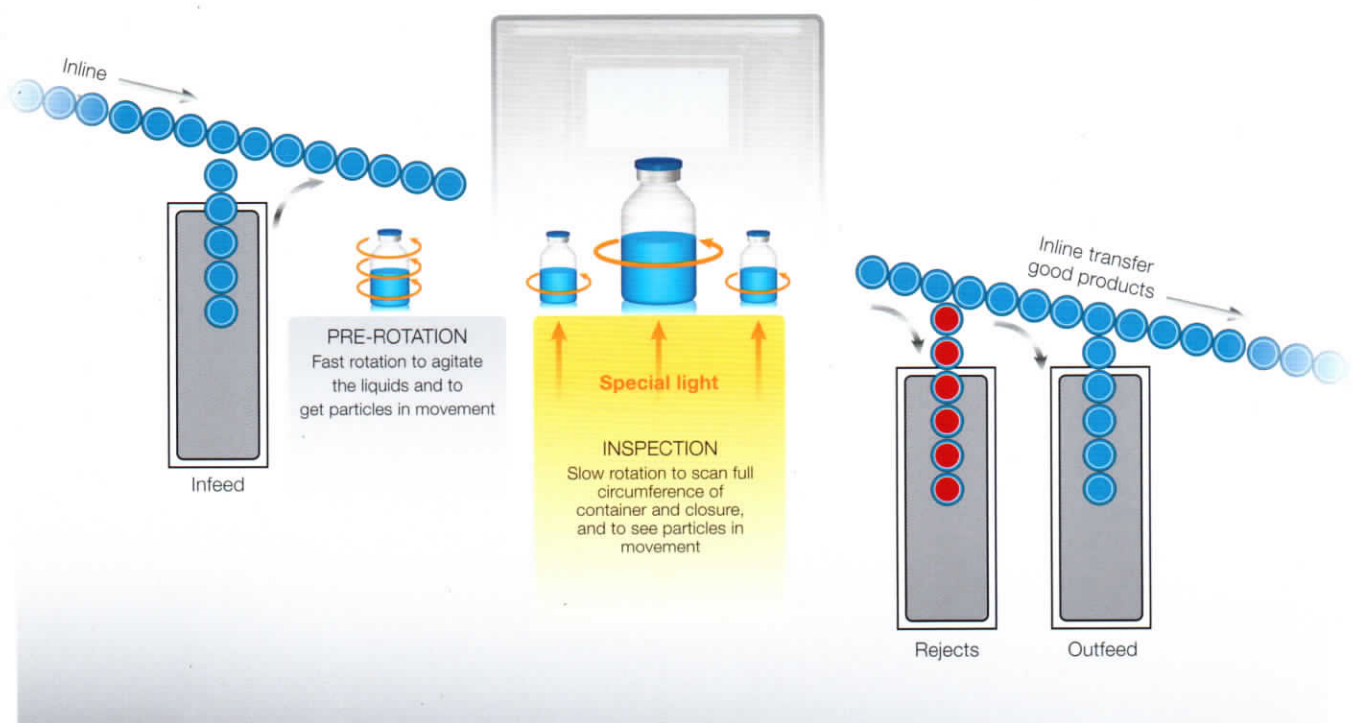






From the infeed system, the product is conveyed through the inspection cabin on a continuously or intermittently moving transport system, consisting of a dual chain system fitted with rollers. Each roller has telescoping shafts which allow easy removal and repositioning on different pin positions to accommodate a wide range of containers of various sizes. In addition to different lighting systems, top and

bottom mirrors, a magnifying lens and polarization filters are available to optimize inspection and to support the operator. The product passes through the inspection cabin in front of the operator. This permits the inspection of the entire surface of the container, including the bottom of containers, as well as closures such as cap, crimp and ampule tip.



Variable inspection angle

V90+



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75°

60°



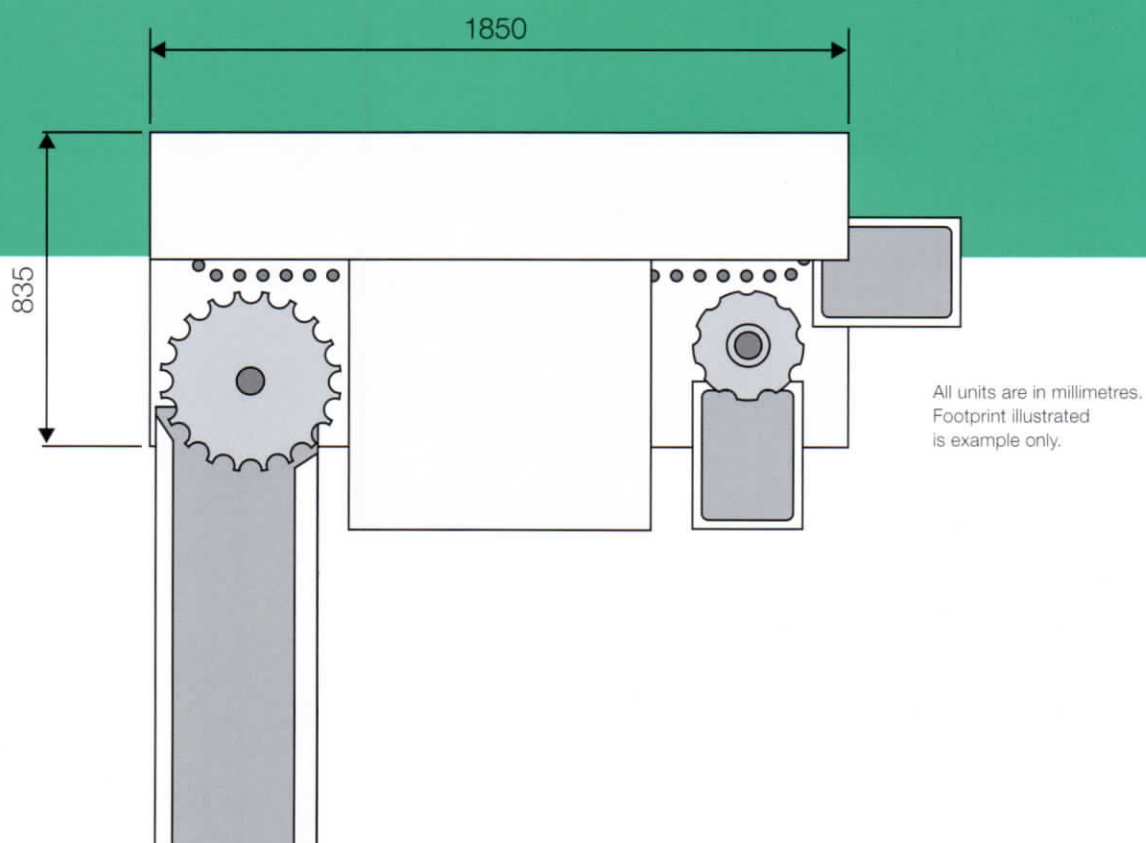
Depending on the machine configuration, the V90+ supports the inspection of various criteria in different kind of containers.

DESIGN FEATURES

- GAMP 5 compliant
- Light set-up is stored with the configuration; adjustable via HMI
- HMI with 15.6" display
- Variable inspection angle (60° and 75°)
- Easy and reproducible adjustment of mirrors, magnifying lens and side guidance
- Mirrors for bottom and cap inspection
- LED marking for rejecting containers available
- Automatic reject system by vacuum starwheel for containers up to Ø 68 mm (250 ml)
- Double outfeed tray with exact counting (optionally)
- Products are counted through optical sensors
- Ergonomic operator's position (space for the knees, arm support and footrest)
- Width of light cabin enlarged to 800 mm
- Electrical cabinet integrated into machine frame



TECHNICAL DETAILS



Seidenader V90+

Technical throughput	max. 9,000 units/h (actual output depends on operator's performance)
Range of containers	ampules, vials, bottles, cartridges and pre-filled syringes
Range of sizes	0.5 ml – 1,000 ml
Inclination of objects	60°, 75°, depending on application
Light systems	Tyndall, background (black, white, illuminated, polarized)
Dimensions of machine	1,850 x 835 mm
Working height – standard	900 mm ± 50 mm
Electrical cabinet – standard layout	integrated into machine frame

SEIDENADER SERVICES TAILORED TO YOUR NEEDS



Seidenader Customer Support

Our Customer Support Team is available during business hours to help you with urgent questions you may have about your Seidenader machine or any other technical issues. 24/7 support is also available as an additional option.



Seidenader After Sales Services

Maintenance, spare part orders or retrofit requests – your direct contact is a designated customer support team to coordinate all your inquiries regarding our comprehensive range of after sales services.



Seidenader Academy

Reduce your installation time to a minimum by taking advantage of customized training sessions for integrators and users of our products – from the basics to the tips & tricks to run your machine in the most efficient way.



Seidenader Qualification Support

Profit from our validation support package and minimize validation and start-up time. Our specialists develop test plans and qualification protocols and provide support during execution.

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