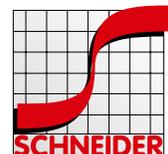


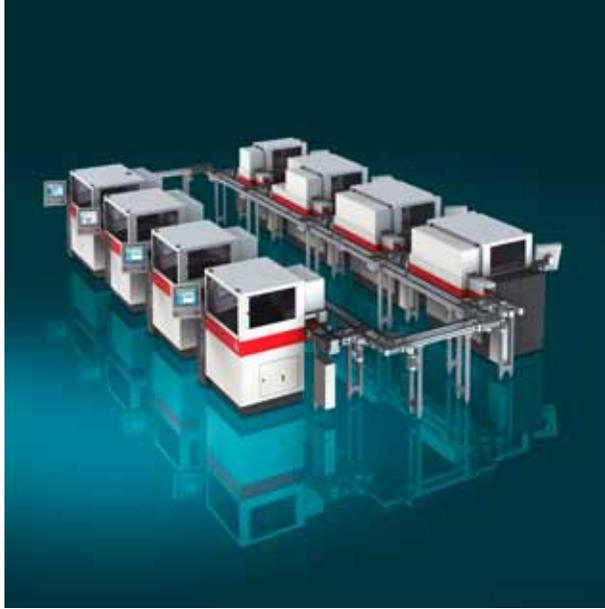


HSE modulo

Automated edging, intelligently combined

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Introducing the HSE **mod**ulo

The first high speed double spindle edger for fully independent edging of the left and the right lens – on-the-block or blockless. The two separate multi-axis systems enable truly independent simultaneous processing of the lenses – no matter how diverse the job requirements.

The edger's high rigidity and precise tool clamping allow for highest rpm processes. Working with exceptional speed, HSE Modulo sets new standards in performance and throughput.

The intuitive and easy to use shape editor opens up a broad range of finishing options to process even the latest complex styles, specialties included. The result: virtually unrestricted lens finishing. And with the SCHNEIDER blockless edging option costs can be reduced significantly.

Modulo Line

SCHNEIDER had the vision to manufacture individual lenses based on freely definable mathematical descriptions. The HSC generators and CCP polishers have become the tools used to develop the freeform idea in the ophthalmic industry. Individual freeform lenses are now the top product in the market, and SCHNEIDER has grown to be the premier manufacturer of freeform equipment worldwide. The innovative machines have also made their way into standard Rx production, leading to higher productivity and quality of virtually all lenses surfaced today.

The next logical step is a highly integrated system solution: SCHNEIDER's Modulo Line. Following an entirely new organizing philosophy, the production flow is managed by the system and its intelligent modules. The result is an unprecedented level of equipment utilization in lens production and unmatched throughput. Designed for utmost flexibility, the arrangement and connection possibilities allow for the addition of new modules with minimal disruption.



Highest speed for massive throughput

The HSE Modulo fulfills all the criteria for accurate high-speed edging: Built on an extra solid machine base the double spindle edger features the high rigidity to produce the smoothest surfaces. Perfectly centered tool holders guarantee more balance and accuracy during edging. Together these features form the ideal conditions for very precise edging even with highest rpm processes, making HSE Modulo a real speedster. Extremely efficient, the edger processes two lenses simultaneously and incorporates time saving parallel handling processes. While the fast handling system unloads the finished job, the next job is transferred to the working chamber, minimizing non-productive time. The result: a new standard in throughput.

Unrestricted lens finishing for flawless first fit

Its 2x4-axis design makes HSE Modulo the first double spindle edger that allows for truly independent simultaneous processing of the left and the right lens. This eliminates the compromises in quality associated with the structural limitations so far given. Instead, the Modulo edger achieves highest feature accuracy and delivers a flawless and unmatched first fit-rate even with extreme curves. Whether angled rimless drilling, V-beveling, T-grooving or polishing – HSE Modulo does it all with its set of 24 tools. The high-frequency milling spindles enable fast cut out of the rough shape. Afterwards the fine work is done with precision – including front and back safety bevels. For delicate lenses such as super-hydrophobics, the chucking pressure and rotation speed are automatically adjusted to prevent slippage.

Fashion's best friend

The HSE Modulo is prepared to keep up with the constantly changing requirements of fashion – today and tomorrow. The advanced Shape Editor offers simple programming of virtually any shape in fashion, even the most complex. The elaborate software performs all optimizations fully automated to grant the best results without specific operator expertise. The HSE Modulo is designed to work with existing tracers on the market linked via the VCA/OMA protocol.

Excellent aesthetics

The right bevel positioning is the result of a sophisticated and skilled combination of several – sometimes divergent – factors and conditions. It depends on the lens edge thickness, lens and frame curvature, feature geometry, frame type, etc. The sophisticated set of SCHNEIDER beveling rules and options automatically produce better aesthetics with all common and complex jobs using a new algorithm based auto beveling function. Together with the automated size adjustment, best fit with superb aesthetics is guaranteed.

SCHNEIDER blockless option

The HSE Modulo is able to work with blocked lenses or it can be fitted with the SCHNEIDER blockless option. The fast non-tactile measurement technology determines the right lens position based on measurements or marks and printings. Working blockless, the HSE Modulo reduces costs and eliminates handling errors. No need for time consuming manual blocking. No costs for consumables.

The Modulo advantage

HSE Modulo comes with an on-board global interface philosophy that allows connection to the Modulo system. Once connected to the LMS Modulo and management cockpit, the generator works as an integral part of this one-of-a-kind system solution and is subject to the centralized monitoring and control center. The lab manager is fully informed about the current status of the machine. Therefore critical situations and downtime can be avoided before they arise. Higher uptimes and increased yields are guaranteed.

Benefits

- Best first-fit rate and highest throughput
- Robust machine design
- Intuitive, simple to use shape editor
- Broad range of finishing options
- Premium polished edges
- Automated front and backside safety beveling
- On-the-block or blockless
- Supports the new cognitive Modulo machine philosophy



Complex lenses

The HSE Modulo is fit to interpret even highly complex lenses and features the high degrees of freedom and options to finish them with ease.



Tool changer

The industrial tool changer handles multi-purpose and special tools covering the broadest range of processing options.



SCHNEIDER blockless option

The blockless option reduces costs and eliminates handling errors.



Advanced shape editor

The integrated shape editor comes with virtually unlimited options.



Rimless diversity

Accurate hole positioning, slots and notches are accomplished within one processing cycle.





technical data	
lens diameter	up to \varnothing 85 mm
lens material	CR39, Hi-index, polycarbonate, Trivex®
blocking chucks blockless option	all common types no blocks needed
power requirement	6 kW
air requirement	6 bar (87 psi)
weight machine	1250 kg (2756 lb.)
dimensions without control panel (width x depth x height)	2110 x 1610 x 2110 mm (83 x 63 x 83 inches)

All data subject to change without notice.



SCHNEIDER

We are one of the world's leading suppliers of processing solutions to the ophthalmic and precision-optical industry. Founded in 1986 our company is known as the pioneer of freeform and setting the pace. We are distinctive for our development of new technologies and swift translation of technological concepts into customer-oriented innovations. Our success stems from the creativity, commitment and enthusiasm of our highly qualified team. With our locations in Germany, the US, Brazil, Hong Kong, China and Thailand we support our customers at any time – worldwide, with fascination for innovation.

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