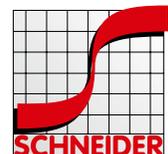


Modulo Line

Blocking

CCB modulo

Automated alloy-free blocking, intelligently combined



Fascination for Innovation



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 with its unique combination of high level intelligence and plug-and-play simplicity. Following a new self-organizing philosophy, the cognitive machines manage the production flow all by themselves – fully self-sufficient and with the highest level of equipment utilization. With this, the Modulo Line guarantees easy lab planning and expansion as well as significant cost and time savings.

Introducing the CCB modulo

With the development of the alloy-free and high-performance thin film blocker, CCB Modulo, SCHNEIDER demonstrates its investment in green sustainable technologies. The groundbreaking innovation meets the rising requests of an economical, sustainable and environmentally-friendly production.

Parallel processing steps combined with an intelligent block piece concept and highly accurate positioning of the lens ensure lowest costs as well as high quality and stability. Even high prisms can be processed with the brand new and powerful Eco-Fuse Technology (EFT).

Another highlight is the full freedom to use any blank type on the market which makes the CCB Modulo the perfect solution to satisfy all blocking requirements.

As an integral part of the Modulo concept, the CCB Modulo perfectly fits into the Modulo Line as well as into any other industry-proven Rx and freeform installation.



Perfect task coordination

Several independent handling systems enable the CCB Modulo to run multiple activities simultaneously. Lens pick up, lens measurement, block piece supply and media application are placed in a parallel and easy accessible configuration. After the lenses are picked up from the tray, a high-resolution optical lens recognition and alignment system guarantees perfect positioning of the lens and the block piece. The process flow is managed by independent handling systems for lens and block piece pick up, lens alignment and feeding of the block stations. While the first pair of lenses is processed, the next lenses are already loaded and precisely aligned before they meet their block piece counterparts.

High prism capability

SCHNEIDER's unique CNC controlled prism and axis adjustment together with a very high mechanical medium stability enable lens positioning with maximum accuracy. Another highlight is the intelligent block piece concept consisting of a highly robust metal piece and a pre-shaped plastic part which can be exchanged. The stable and reusable block pieces guarantee cost reductions and blocking material savings.

No matter how complex the requirements, the EFT system ensures high precision blocking and consistency.

Economical blocking without block rings

Compared to other blocking systems using different block ring sizes, the CCB Modulo features a new and flexible CNC blocking concept without the need for block rings. While block ring based machines suffer from the need for continuous block ring changes leading to high production losses, the CCB modulo ensures continuous machine utilization.

Sustainable alloy-free blocking

Years of experience helped SCHNEIDER to create a new and patented formulation. The environmentally friendly

thermoplast guarantees optimal performance by uniting all important requirements like stability, adhesion, temperature behavior and deblocking on demand.

An intelligent algorithm calculates the required material amount for the thin film blocking which is applied on the block piece.

The Modulo advantage

CCB Modulo comes with an on-board global interface philosophy that allows connection to the Modulo system.

Once connected to the Modulo system, the machine works as an integral part of this one-of-a-kind solution and is subject to the centralized monitoring Modulo 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.

Features

- Fully automated Eco-Fuse Technology (EFT) blocking
- Intelligent block piece concept
- Blocking without block rings
- Parallel lens handling, blocking and loading processes
- Camera-based lens recognition and alignment

Benefits

- Consistent precision blocking
- Fully automated operation
- Sustainable production – no toxic waste
- Highest yield
- High performance patented thermoplast
- Very little material consumption
- Works for single-vision, multi-focal and progressive lenses
- Low cost of ownership compared to other non-alloy solutions
- Supports the new cognitive Modulo machine philosophy



Double station blocking system for highest productivity.



Intelligent application for lowest material consumption.



Precise lens recognition of progressive and multifocal lenses.



High precision lens positioning without the need for block rings.





technical data	
lens diameter	up to \varnothing 85 mm
lens material	all organic lens materials
blocking material	EFT
clamping system	block \varnothing 43 mm
prism angle	up to 6°
power consumption	2 kVA avg.
air requirement	6 bar (87 psi)
weight machine	approx. 1000 kg (2205 lb.)
dimensions without control panel (width x depth x height)	approx. 2220 x 1340 x 1915 mm (88 x 53 x 75 inches)

All data subject to change without notice. Please verify details with SCHNEIDER.



SCHNEIDER

We are one of the world's leading suppliers of processing solutions to the ophthalmic and (ultra-)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.

SCHNEIDER GmbH & Co. KG

Biegenstrasse 8–12
35112 Fronhausen
Germany
Phone: +49 (64 26) 96 96-0
Fax: +49 (64 26) 96 96-100
www.schneider-om.com
info@schneider-om.com

SCHNEIDER Optical Machines Inc.

6644 All Stars Avenue, Suite 100
Frisco, TX 75033, USA
Phone: +1 (972) 247-4000
Fax: +1 (972) 247-4060
info-us@schneider-om.com

SCHNEIDER Optical Machines

do Brasil Ltda.
Avenida Eid Mansur, 621
Parque São George
CEP: 06708-070, Cotia – SP
Brazil
Phone/Fax: +55 (11) 4777-1717
info-brasil@schneider-om.com

SCHNEIDER Optical Machines Ltd.

Room 202, 2/F, APEC Plaza
49 Hoi Yuen Road
Kwun Tong, Hong Kong
Phone: +852 3563-5238
Fax: +852 3563-5240
info-hk@schneider-om.com

SCHNEIDER Optical Machines

(Shanghai) Co., Ltd.
Room 202, 2nd Floor, Building 16
481 Guiping Road
200233 Shanghai – Xuhui District
Phone: +86 (21) 61 48 00 61-120
Fax: +86 (21) 61 48 00 65
info-cn@schneider-om.com

SCHNEIDER Optical Machines

Asia-Pacific Co., Ltd.
Piya Place Lungsuan Building
29/1, Tower B, 9th Floor, Unit 9B
Soi Lungsuan Ploenchit Road
Lumpini, Pathumwan
Bangkok 10330, Thailand
Phone: +66 (0) 2014-4690-2
Fax: +66 (0) 2014-4693
info-asia@schneider-om.com

For a complete list of SCHNEIDER agencies, please visit www.schneider-om.com



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