



Automation & Robotics



Automation & Robotics

R X L A B S

PROMAPPER

PROMAPPER



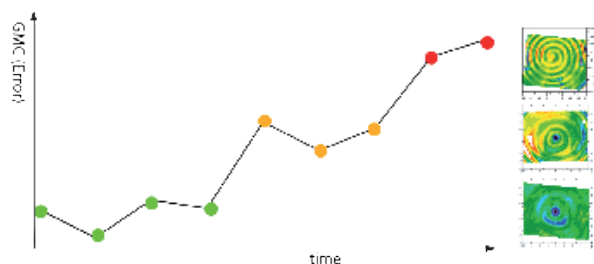
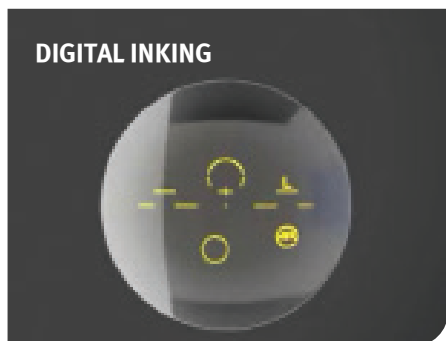
- Table-top inspection device for any lens type
- State-of-the-art optical inspection (ISO/ANSI Standards)
- Mapping inspection (based on the Error Map)
- Pertinent tool for Statistical Process Control (Global Mapping Criteria)
- Totally independent from the operator
- Cosmetic Inspection available



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B-4800 VERVIERS - Belgium
P. +32 (0)87 322 323



PROMAPPER



CAPACITY

72 jobs/hour



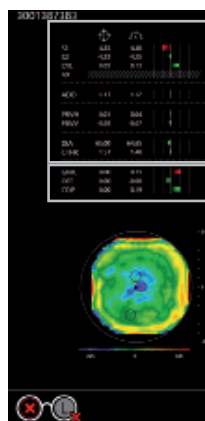
MAIN FEATURES

- > Automatic lens inspection (manual loading) with DLM+
 - Accurate automatic positioning (high recognition rate)
 - Check of geometrical properties (thickness, diameter, shape)
 - Optical power measurement in the FOA configuration (including power, prism, addition...), compliant with ISO/ANSI Standard
 - Measurement of polarization axis
 - Power Mapping over the entire lens surface (Error Map)
 - Cut-out check
 - Check of semi-finished lenses in RX labs
 - ‘Measure-only mode’ (measurement map without connection to data server)
 - Cosmetic inspection - option available
- > Upload of the measured values and surface quality features (e.g. GMC, Global Mapping Criterion), useful for preventive maintenance and troubleshooting of lens manufacturing process.



BENEFITS

- > Automatic inspection solution for any organic lens type with manual loading
- > Total operator independence
- > Contactless measurements
- > Detection of R/L inversion
- > Mapping inspection on the entire lens surface (incl. Error Maps with Go/No Go criteria like Global Mapping Criteria, center dot detection,...)
- > Process under control : valuable data for Statistical Process Control
- > Quick feedback on production combined with SPC App’s (positive impact on the lead time, no added value on rejects, ...)
- > Industrial and modern design
- > Small footprint, table-top inspection device
- > Easy to install and easy maintenance
- > User friendly:
 - easy to use, with minimal training for start-up
 - clear and functional graphic interface
- > Remote access for assistance
- > Off-line viewer with data analyses (for Error Maps and mapping criteria)



Accurate lens inspection
According to ISO/ANSI Standards
In Focus On Axis configuration

Mapping inspection, based on the Error Map



Automation & Robotics

R X L A B S

NEOMAPPER

NEOMAPPER



- Fully automatic inspection for any lens type
- Optimized footprint
- Pertinent tool for Statistical Process Control (Global Mapping Criteria)
- Cost savings : don't wait until reject !
- Cosmetic Inspection available



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NEOMAPPER



CAPACITY

75 Jobs/hour



MAIN FEATURES

- › Fully automatic lens inspection with DLM+
 - Accurate automatic positioning (high recognition rate)
 - Check of geometrical properties (thickness, diameter, shape)
 - Optical power measurement in the FOA configuration (including power, prism, addition...), compliant with ISO/ANSI Standard
 - Measurement of polarization axis
 - Power Mapping over the entire lens surface (Error Map)
 - Cut-out check
- › Upload of the measured values and surface quality features (e.g. GMC, Global Mapping Criterion), useful for preventive maintenance and troubleshooting of lens manufacturing process.



BENEFITS

- › Fully automatic solution for any organic lens type
- › Contactless measurements
- › Detection of R/L inversion and automatic reloading in the correct position
- › Mapping inspection on the entire lens surface (incl. Error Maps with Go/No Go criteria like Global Mapping Criteria, center dot detection,...)
- › Process under control : valuable data for Statistical Process Control
- › Quick feedback on production combined with SPC App's (positive impact on the lead time, no added value on rejects, ...)
- › Industrial and modern design
- › Small footprint, easy integration on existing conveyor
- › User friendly:
 - easy to use, with minimal training for start-up
 - clear and functional graphic interface
- › Easy maintenance
- › Remote access for assistance
- › Green Impact : low energy consumption
- › Off-line viewer with data analyses (for Error Maps and mapping criteria)





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MCVP4

AUTOMAPPER



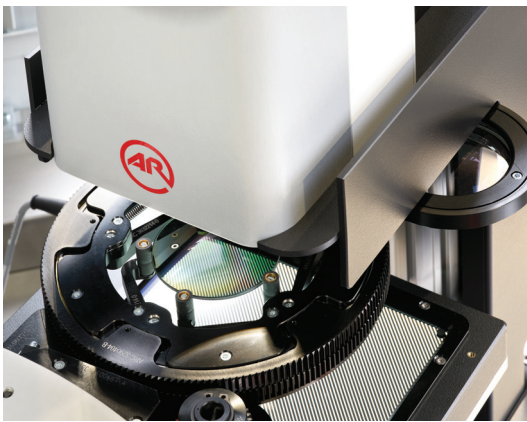
- Full automatic inspection for any lens type
- High capacity
- Pertinent tool for Statistical Process Control (Global Mapping Criteria)
- Cost savings : don't wait until reject !



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AUTOMAPPER



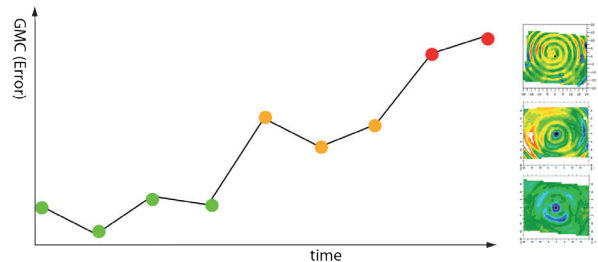
CAPACITY

150 jobs/hour



MAIN FEATURES

- › Accurate automatic positioning (high recognition rate)
- › Check of geometrical properties (thickness, diameter, shape)
- › Optical power measurement in the FOA configuration (including power, prism, addition...), compliant with ISO/ANSI Standard
- › Measurement of polarization axis
- › Power Mapping over the entire lens surface (Error Map)
- › Cut-out check
- › Upload of the measured values and surface quality features (e.g. GMC, Global Mapping Criterion), useful for preventive maintenance and troubleshooting of lens manufacturing process.



BENEFITS

- › Fully automatic solution for any organic lens type
- › Contactless measurements
- › Detection of R/L inversion and automatic reloading in the correct position
- › Mapping inspection on the entire lens surface (incl. Error Maps with Go/No Go criteria like Global Mapping Criteria, center dot detection,...)
- › Process under control : valuable data for Statistical Process Control (SPC)
- › Quick feedback on production combined with SPC App's (positive impact on the lead time, no added value on rejects, ...)
- › Cost savings : don't wait until reject!
- › Flexible tolerance tables
- › User friendly interface
- › Easy maintenance
- › Rapid payback
- › High capacity
- › Remote access for assistance
- › Off-line viewer with data analyses (for Error Maps and mapping criteria)



Automation & Robotics

R X L A B S

MCVP6

EVOMAPPER

- Fully automatic inspection for all RX lens types
- Multifunction machine for middle or final inspection
- Flexible - various possible options : Digital Inking, Dual Spectrometer, Focovision, Laser Engraving
- Cosmetic Inspection compatible



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EVOMAPPER



CAPACITY

120 jobs/hour



MAIN FEATURES

- › Automatic Positioning (PPOS+)
 - Diameter & shape measurement
 - Positioning according to engravings for progressive lenses and SV with engravings
 - Positioning according to the segment position for multifocal lenses
 - Polarization axis measurement
 - Gradual tinting axis measurement
 - Automatic Left/Right inversion detection
- › Contactless thickness measurement
- › DLM+ for freeform check (Error Map) and RX lens inspection (FV, NV & PRP)
- › Possible options :
 - Contactless mobile FOCOVISION : optical power measurement in reference points
 - Digital inking - Wax technology
 - Dual Spectrometer
 - Laser engraving
- › Insights on the inspection system's performance with the KPI dashboard



BENEFITS

- › Fully automatic inspection for all RX lens types including cut lenses
- › Contactless measurements
- › Mapping inspection on the entire lens surface (incl. Error Maps with Go/No Go criteria like Global Mapping Criteria, center dot detection,...)
- › Detection of R/L inversion and automatic reloading in the correct position
- › Process under control : valuable data for Statistical Process Control (SPC) - Cost savings: don't wait until reject!
- › Cosmetic inspection compatible
- › Cut-out check
- › Flexible Digital Inking (Wax technology)
- › Laser engraving
- › VCA-DCS compatible
- › Easy maintenance
- › Remote access for assistance
- › User friendly
- › High capacity
- › Rapid payback



Automation & Robotics

R X L A B S

MTVP4

AUTOINKER



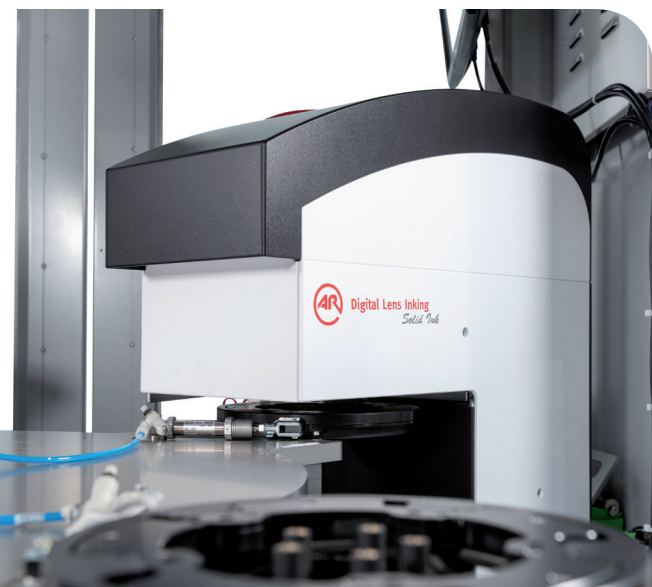
- Identification check for cut and uncut lenses
- 100% automatic and accurate inking
- Dual step printing (good adherence)
- Very high capacity



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AUTOINKER



CAPACITY

200 jobs/hour



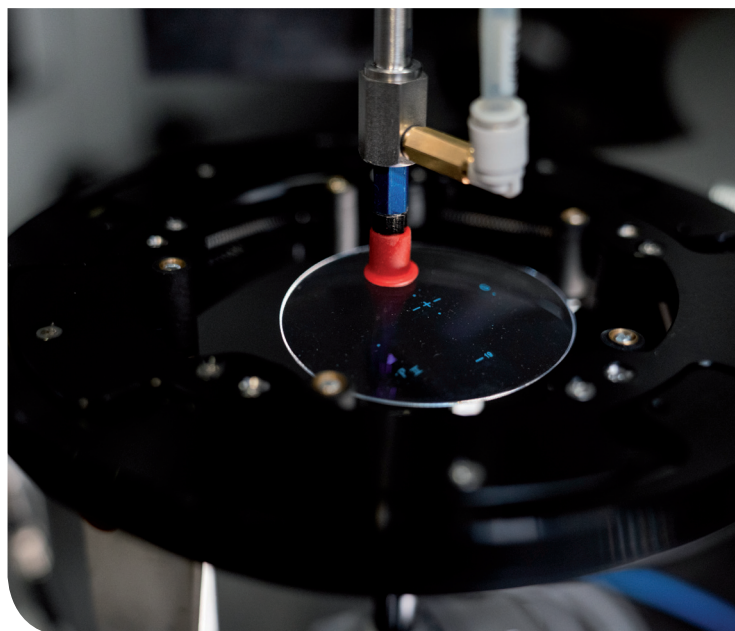
MAIN FEATURES

- › Automatic detection of the micro-engravings
- › Digital inking : WAX technology
- › For cut lenses:
 - Shape measurement and check (if data available)
 - Engraving alignment check according to the shape
 - Perimeter measurement
- › For uncut lenses:
 - Diameter measurement for round lenses
 - Shape measurement and check (if data available)
 - “Cut out check” (if data available)



BENEFITS

- › Fully automatic industrial solution
- › Very high capacity
- › WAX technology
- › Very flexible printing
- › Good adherence on hydrophobic lenses (double step printing)
- › Easy maintenance
- › User-friendly interface
- › Also suitable for cut lenses (no inking outside of the lens shape)
- › Check for lens ID and left and right inversion according to the engravings and optical power assessment for progressive and engraved single vision lenses
- › VC-DCS compatible
- › Remote maintenance





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R X L A B S

MEVP-V2

AUTOPACKER



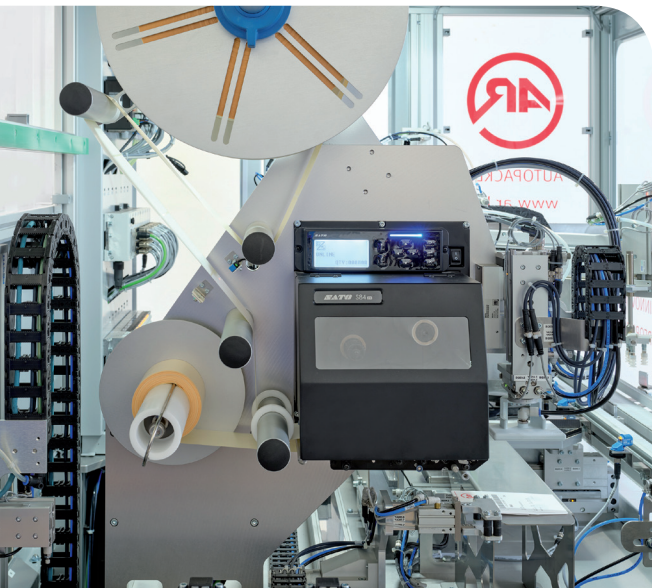
- No mispack
- High capacity and flexibility (up to 18 different envelope types)
- Verification that the lens is in the envelope
- Rapid payback



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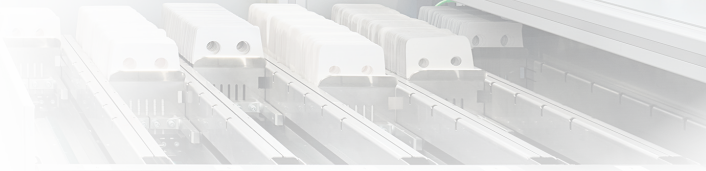


AUTOPACKER



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CAPACITY

300 jobs/hour



MAIN FEATURES

- › Selection of the envelope
- › Label printing and application on the envelope
- › Secured envelope closure
- › Verify that the lens is in the envelope



BENEFITS

- › Fully automatic solution
- › Good image / standardization
- › No mispack
- › Flexibility (up to 18 different envelope types)
- › High capacity
- › Rapid payback
- › Easy adjustment of the machine
- › Possibility to reload the magazines during production
- › Minimized footprint



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MSEVP

DISPATCH UNIT FOR RX LENSES



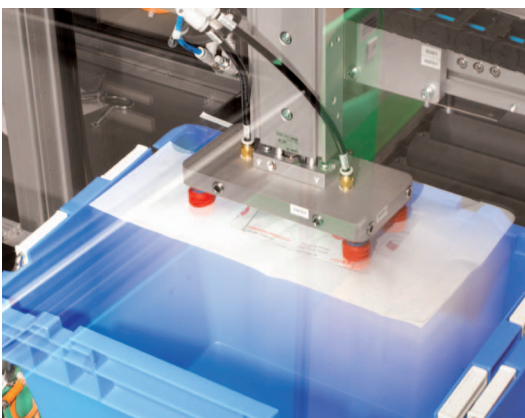
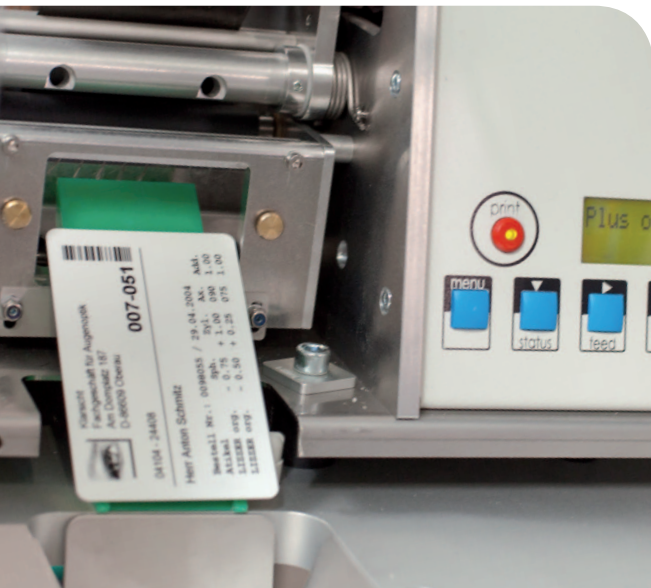
- No mispack
- Good image / standardization
- Flexibility (different configurations)



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DISPATCH UNIT FOR RX LENSES



CAPACITY

300 jobs/hour



MAIN FEATURES

- › Packaging of both envelopes in a dispatch envelope
- › Printing and folding of the delivery note or printing of a label
- › Printing of the ID card
- › Picking of the marking material (cleaning cloth, booklet, ...)
- › Securing of the dispatch envelope



BENEFITS

- › Fully automatic solution
- › Good image / standardization
- › No mispack
- › Flexibility (numerous configurations possible)
- › High capacity
- › Remote maintenance



Automation & Robotics

R X L A B S

SPV-3

FOCOVISION RX VERSION WITH POSITIONING ASSISTANCE

(VISUALIZATION OF THE MICRO-ENGRAVINGS)



- Complete lens inspection station with positioning assistance
- Repeatability - high accuracy
- Operator independent (Go/NoGo decision)
- Worldwide reference instrument



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FOCOVISION RX VERSION



LATEST DEVELOPMENT

- › The FOCOVISION SPV-3 software is based on Windows 10 Embedded OS.
- › A new light source provides an improved ring image. Effect of local defects (dusts,...) are detected and corrected using a proprietary technology. The new light source, based on the long-life LED technology can easily be exchanged (plug and play), leading to better accuracy in lab conditions.



MAIN FEATURES

- › Complete station for manual lens inspection, connected to a server (customer's tolerance tables)



BENEFITS

- › Operator independent (objective measurement procedure)
- › The most accurate measurement according to ISO/ANSI standards
- › Up to 99 tolerance tables
- › Connected to your host computer
- › Low maintenance
- › Industrial design (insensitive to dust)
- › Configurable checking procedures

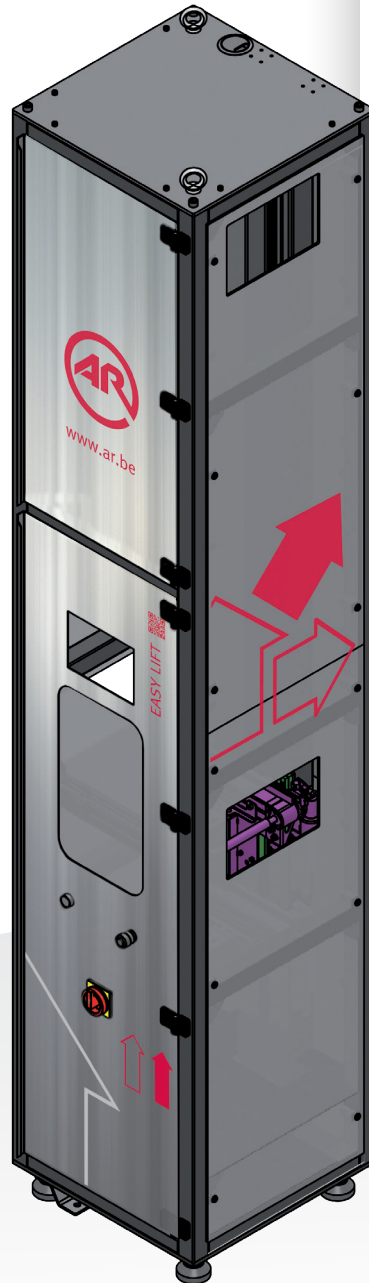


Automation & Robotics

R X L A B S

EASYLIFT

EASYLIFT



- Automatic lift for ophthalmic job-trays
- Compatible with all trays format (Surfacing, Rx, Finishing)
- User-friendly
- Compact and flexible

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EASYLIFT



CAPACITY

9 secs/job (If the max. distance between entrance and exit levels is 1.20m)



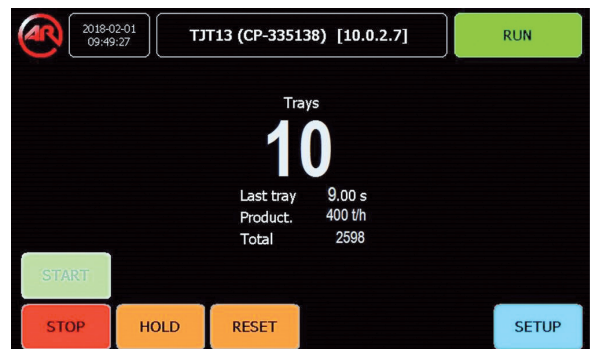
MAIN FEATURES

- > Lift for ophthalmic job-trays (Surfacing, Rx, Finishing)
- > Conveyor with double band for tray storage and transportation (conveyor layout not included)
- > Max. 4 input tracks and 4 output tracks with smart routing capability (when connected to intelligent conveying system)

Lowest conveyor level : 0.715 m

Highest conveyor level : 2.47 m

- > Max. height of the job-trays (incl. job-sheet)=0.155 m if the conveyor is at level 2.47 m high
- > User-friendly interface (touchscreen)



BENEFITS

- > Industrial design
- > Compact L 0.6m X w 0.6m X H 2.70m
- > Totally electrical
- > Easy to integrate in your production flow (numerous configurations)
- > Compatible with most job-trays
- > Quiet
- > Easy to install (configurable by the customer)



Automation & Robotics

R X L A B S

EASYSTACK

EASYSTACK



- Automatic stacker/destacker for ophthalmic job-trays
- Compatible with all trays format (Surfacing, Rx, Finishing)
- User-friendly
- Compact and flexible

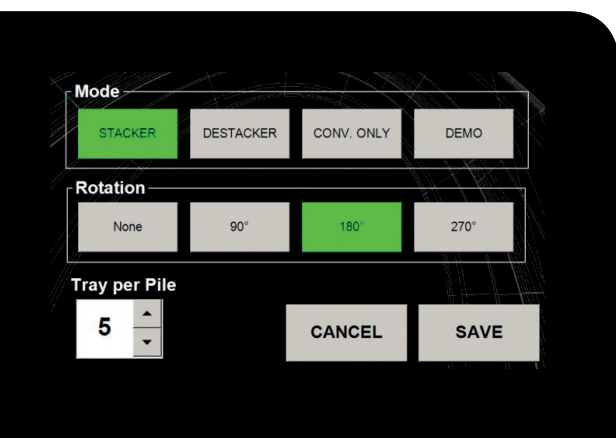


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EASYSTACK



CAPACITY

8 secs/job



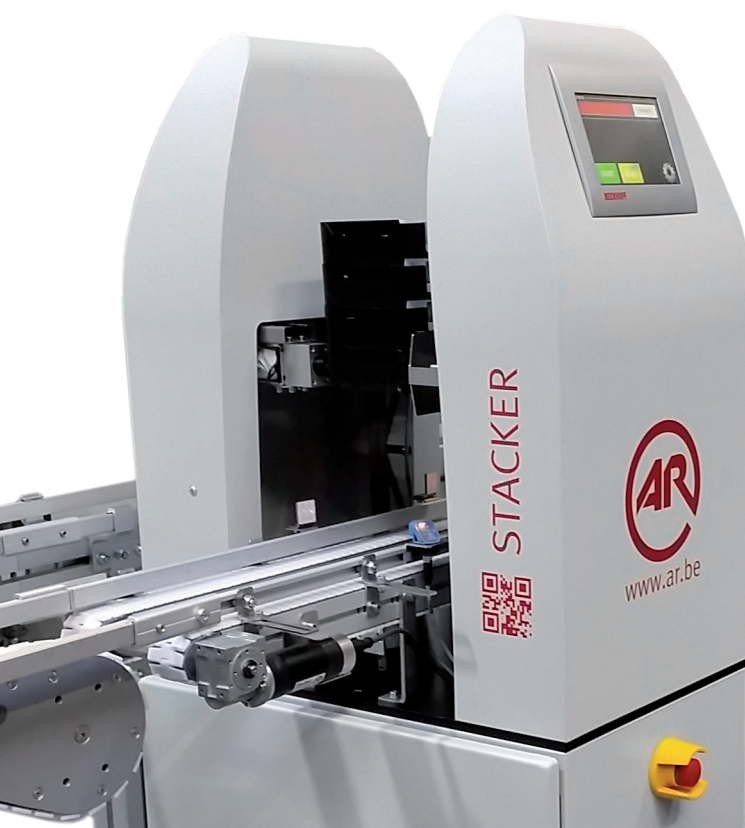
MAIN FEATURES

- › Stacker-destacker for ophthalmic job-trays (Surfacing, Rx, finishing)
- › Conveyor with double band for tray storage and transportation (1 meter included)
- › Stack from 2 to 10 job-trays
- › Different tray orientations after destacking
- › User-friendly interface (touchscreen)
- › Optional : tray rotation (90°/180° or 270°)



BENEFITS

- › Industrial design
- › Compact (L 600 X w 400 X H 1556 mm)
- › Easy to integrate in your production flow (numerous configurations)
- › Compatible with most job-trays
- › Quiet
- › Easy to install (by the customer)





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MASS PROD

MCEVS_V2

CONTROL & PACKAGING UNIT FOR STOCK LENSES



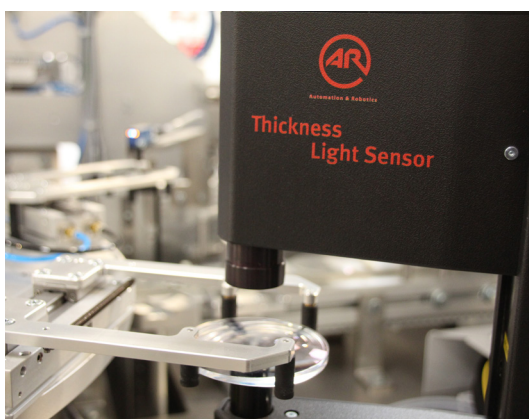
- No mispack
- Accurate lens inspection
- High capacity
- Verification of lens presence



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CONTROL & PACKAGING UNIT FOR STOCK LENSES



capacity

Up to 900 lenses/hour



main features

- > Diameter measurement
- > Thickness measurement
- > Power inspection (Focovision)
- > Label printing
- > Secured envelope closure
- > Sorting into up to 9 envelope magazines
- > Three possible options :
 - ° Cosmetic inspection
 - ° Dual Spectrometer
 - ° Laser engraving



benefits

- > Fully automatic solution
- > Accurate lens inspection
- > No mispack
- > Choice between 12 envelope designs
- > Flexible sorting at the exit
- > Possibility to reload the magazines during production
- > High capacity
- > Rapid payback
- > Easy adjustment of the machine
- > Remote maintenance
- > Enhanced ergonomoy



Automation & Robotics

MASS PROD

MESF - V2

PACKAGING UNIT FOR SEMI-FINISHED LENSES INTO BOXES



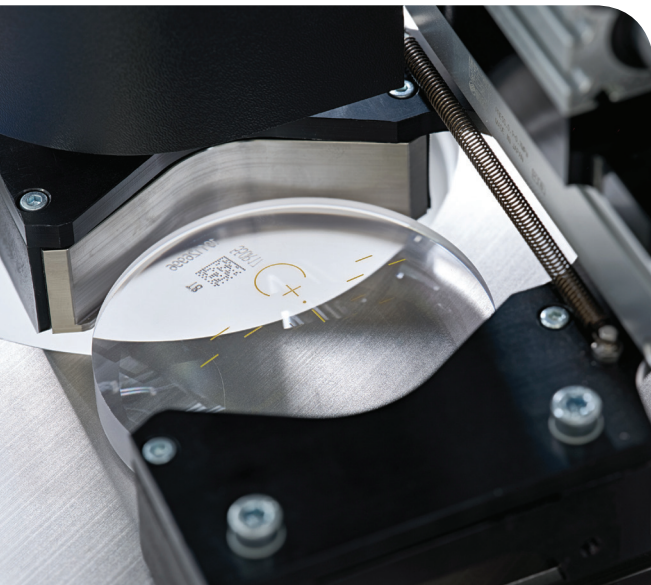
- No mispack
- High capacity
- Choice between 7 box types



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PACKAGING UNIT FOR SEMI-FINISHED LENSES INTO BOXES



CAPACITY

720 lenses/hour



MAIN FEATURES

- › Selection of the box
- › Labelling (printing + application)
- › Box forming + insertion of the lens
- › Unique Lens ID (ULID) reading (optional station)



BENEFITS

- › No mispack
- › Qualitative packaging
- › Choice among 7 box magazines
(-> 7 box types)
- › Pre-sorting among 12 double storage magazines
- › Remote maintenance
- › 100% automatic packaging



Automation & Robotics

MASS PROD

MITSF

IDENTIFICATION AND INKING UNIT FOR SEMI-FINISHED LENSES



- 100% automatic identification of semi-finished
- Flexible printing
- Printing quality check



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IDENTIFICATION AND INKING UNIT FOR SEMI-FINISHED LENSES



CAPACITY

700 lenses/hour



MAIN FEATURES

- › Lens identification (reading at the edge or under the μ -engravings)
- › Inspection of single vision blanks (by reflection)
- › Check polarized axis
- › Inking (10 cliché plates - 20 images max.)
- › Printing alignment check / printing quality check



BENEFITS

- › Accurate determination of lens position
- › Accurate inking
- › Inking quality check
- › Fully automatic
- › High capacity
- › Remote maintenance
- › Combined with the packaging unit = complete automated line



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MASS PROD

SR-3

FOCOVISION BY REFLECTION



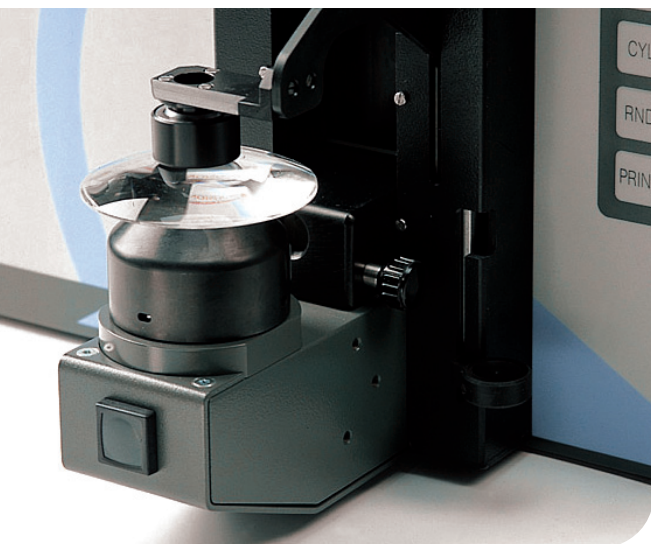
- Very accurate and instantaneous measurement
- Precise and reproducible lens positioning according to the reference points marked over the surface
- Objective Go/NoGo decision (incl. tolerance check)
- Worldwide reference instrument



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FOCOVISION BY REFLECTION



LATEST DEVELOPMENT

- › The FOCOVISION SR-3 software is based on Windows 10 Embedded OS.
- › The easy to exchange and long-life LED light source provides an accurate ring image. Effect of local defects (dusts,...) are detected and corrected using a proprietary technology leading to the best accuracy in lab conditions.



MAIN FEATURES

- › Local curvature measurement by reflection over polished surfaces (semi-finished lenses, glass and metal molds)



BENEFITS

- › Very accurate and instantaneous measurement
- › Precise and reproducible lens positioning according to the reference points marked over the surface
- › Objective Go/NoGo decision (incl. tolerance check)
- › Industrial design, no moving parts, insensitive to dust
- › Reliability (image quality control and correction of dust effect)
- › Unique for glass mold measurement
- › Useful tool for the labs : qualification of SF suppliers



Automation & Robotics

FINISHING

SPF-3

FOCOVISION RX VERSION WITH FRAME POSITIONING ASSISTANCE



- Lens always perfectly set on the Focovision lens holder for an optimal measurement quality (incl. sport frame positioning device)
- Interpupillary distance directly measured on the frame plane whatever the frame curvature
- Prism imbalance check (required by ISO standards)



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FOCOVISION RX VERSION WITH FRAME POSITIONING ASSISTANCE



LATEST DEVELOPMENT

- › The FOCOVISION SPV-3 software is based on Windows 10 Embedded OS.
- › A new light source provides an improved ring image. Effect of local defects (dusts,...) are detected and corrected using a proprietary technology. The new light source, based on the long-life LED technology can easily be exchanged (plug and play), leading to better accuracy in lab conditions



MAIN FEATURES

- › Complete inspection station to verify the proper lens mounting
- › The lens position within the frame is checked :
 - Multifocal lenses : in accordance with the μ -engravings or segment
 - Single vision : no tedious positioning required (recalculation) + horizontal and vertical imbalance
- › Optical power measurement according to configurable inspection procedures
- › Connection to the host computer :
 - Nominal data
 - Transmission of measured data
 - Go/no go decision
- › Worldwide reference instrument



BENEFITS

- › High accuracy, repeatability
- › Prism imbalance check
- › Objective power measurement and Go-No Go decision
- › Easy to handle frame positioning device
- › Lens always perfectly set on the Focovision lens holder for an optimal measurement quality
- › Interpupillary distance directly measured on the frame plane whatever the frame curvature
- › Easy calibration
- › Connected to your host computer
- › Low maintenance
- › Easy calibration
- › Industrial design (no dust sensitive)
- › Configurable checking procedures
- › User friendly interface
- › Little training required

