



Automation & Robotics

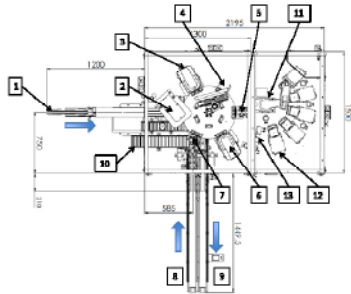
# Identification & Inking Unit for SF lenses

The new concept of MITSF machine is designed to identify and print progressive and multifocal semi-finished lenses.

The PPOS system, integrated in the unit, detects the  $\mu$ -engravings or the upper segment line and identifies the semi-finished by reading the identification code (check of product code, Addition, base, eye, logo at the edge or under the  $\mu$ -engravings) by Optical Character Recognition. The inspected lenses are then inked by a robot, permitting a large flexibility in image choice (10 plates – 20 images). The data of this machine can be transmitted to the automatic packaging unit, eliminating any product mispack.



# Main Features



1. Loading conveyor + ionisation system (option)
2. Centering and loading station + LENSMAPPER-R Mini (Option)
3. Detection of the micro-engravings OR upper segment line
4. Free (laser or thickness measurement: option)
5. Inking station
6. Inking alignment check + printing identification
7. Unloading into semi-finished single tray
8. Conveyor for empty trays - Unloading station
9. Exit conveyor for trays - Unloading station
10. Conveyor for rejected lenses
11. Robot for inking
12. Cliche plates (max 10)
13. Pad cleaning station

Dimensions : L = 220 cm

W = 150 cm

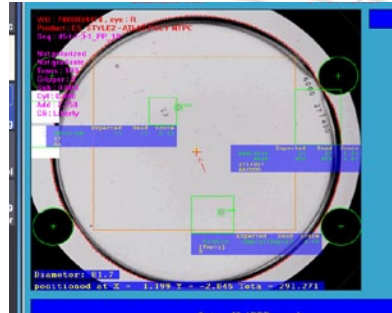
H = 192 cm (without laminar flow box)

Weight : +/- 1100kg

Type : MITSF

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# Technical Specifications



## Range

- Diameter : 65-85 mm
- Concave radius : 80 mm to infinity (flat lenses)
- Convex radius far view : 60 to 300 mm
- Overall thickness : 7 to 25 mm
- Max. overall height : 25 mm
- Add power : 0.75D to 3.75D

## Accuracy :

- Positioning of the inking image in accordance to the micro-engravings :
  - Concentricity : 0.5 mm
  - Parallelism : 1.5 mm
- Centering diameter : +/- 0.5 mm
- Stamping accuracy on polarized lenses : +/- 2°

## Pad Inking :

- 10x2 inking images
- Closed ink reservoirs

Pad cleaning : automatic with adhesive tape

Capacity : 5 seconds / lens

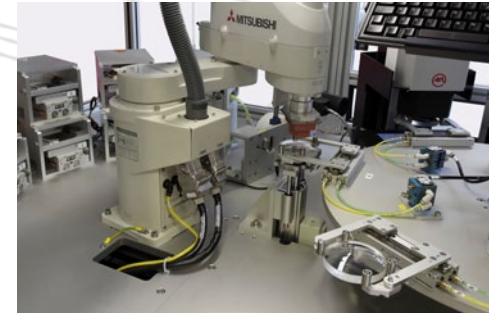
Controlled by industrial PC

Power supply: 3kVA - 1x230 VAC + N + PE (50/60 Hz)\*

Air supply: 6 bars - 60l/min

\*compatible for non-European power supply on request

# Benefits



- Lens identification
- Fully automatic
- High capacity
- High inking accuracy
- Alignment check of the printed image\*
- Overall control of the printed image
- Production data for reports (Access or SQL)\*
- Statistics of rejected lenses\*
- User friendly interface:
  - interactive dialog and diagnosis
  - multilingual menus
- Feedback on production\*
- Remote maintenance (Internet & Team Viewer)
- To be connected to a packaging unit
- Exchange of 2 cliche plates during production
- Polycarbonate / CR39

(\*Required for ISO 9000 certification)

# Options



- Measurement of the polarisation axis
- DUAL LENSMAPPER-R Mini (SV lenses and/OR polarized lenses)
- Improved visualization for polar lenses
- Alignment check of the polarization axis in accordance to the inked image for SV lenses
- Laminar flow box
- Ionization system at the entrance
- CO2 laser engraving
- Thickness measurement (with or without contact)
- Automatic dust check on LCD screen

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Parc industriel de Lambermont  
Rue des Ormes 111  
B-4800 Verviers - Belgium

Tél.: +32 (0)87 322 323  
Fax: +32 (0)87 310 406  
e-mail: aut-rob@ar.be

T.V.A.: BE 0423.637.107  
R.P.M.: Verviers  
[www.ar.be](http://www.ar.be)



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