



# Layoutblocker-PRA / -PLA Blocker-2000

High-production blocking  
with optical recognition

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and provide precise, fast, easy blocking.

**satisloh**

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## High-production blocking with optical recognition

Because quality lenses begin with accurate blocking, Satisloh perfected this important working step.

### **Fast. Easy. Precise.**

The PRA and PLA Layoutblockers provide a virtually automatic blocking process. Both models offer:

- **High productivity:** up to 120 lenses per hour (two blocking stations).
- **Optical Lens Recognition System** automatically verifies the lens position\* – eliminating lens marking and operator error.
- **Virtually error-free blocking.** A “Go/No Go” indicator alerts the operator when the lens is correctly positioned\*. Blocking can’t occur if lens isn’t properly positioned.
- **High-precision:** single-step blocking process eliminates errors due to mechanical transfer movements ensuring accurate blocking.
- **Easy to use Windows** displays the actual lens positioning (x/y coordinates and lens rotation); calibrations and process parameters are easily maintained with a computer control system.
- **Download RX data** from host computer via an optional barcode reader or enter manually.

### **CNC-controlled Alloy Blockers PRA (prismatic) & PLA – (plano)**

The system automatically adjusts prism angle, prism basis and the axis of the blocking chuck. The PRA & PLA can block up to 120 lenses per hour and are extremely efficient because of parallel operation and increase process consistency by:

- **Block ring recognition** – control software automatically checks for the correct blocking ring – only then can blocking occur.
- **Precise Auto-fill feature** creates a consistent alloy wafer on every lens – minimizing operator intervention.
- **Operator notification** for block ring change eliminates errors. Block ring recognition and auto-fill can be activated or deactivated as needed.

### **PRA – Prismatic Alloy Blocking**

The PRA processes prisms up to 5.5° (10.5° with an adapter ring). Blocking diameters from 36 – 68 mm as well as blocking heights from 7 – 13 mm are possible.

\*Applies to most lens types, list upon request. Other lenses are adjusted manually.

### PLA – Plano Alloy Blocking

The PLA blocks plano diameters between 36–68 mm and block heights from 7–13 mm. This accommodates the full-range of prescriptions, lens types and diameters; it also optimizes cribbing shapes, dimensions and production cycles.

**Flexible:** The PRA and PLA process all materials.

### Blocker-2000

This proven alloy blocker is suitable for small and medium-size laboratories. Different diameters and prisms up to 10° can be processed with prism rings.

**Alignment system:** Two optional microscopes, video cameras and monitors simplify lens alignment.

The benefits at a glance:

- An even support for the lens during fining and polishing ensures **high accuracy** in surface geometry (blocking on center). Lenses with prism or decentration are blocked on center using prism rings.
- **Minimum alloy quantity** and low thermal stress of the blocked lens by correctly graduating the diameter and height of blocking rings.
- When required, **bifocal lenses** can also be blocked **decentered**.
- Axis position can be set at blocker making multifocal lens blocking as easy as blocking single-vision lenses.

### Consumables:

Satisloh offers a full range of consumables – including different sorts of alloy as well as wax. Please ask your Satisloh representative.

### Options for Blocker-2000:

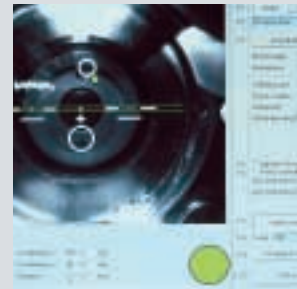
Microscopes, video cameras and monitors



Variable diameters, blocking heights and prisms



New block rings for PRA and PLA feature separate elements for auto-fill and block ring recognition – improving process consistency & productivity



Only after lens is properly positioned, green light appears



Complete solutions: a variety of blocking consumables are available



## Technical Information:

### Layoutblocker-PRA / -PLA

CNC-controlled prism / plano-alloy blocker with integrated layout system

- **Capacity:** up to 120 lenses/h
- **Blocking type:** prismatic / plano
- **Lens diameter:** 38 – 85 mm
- **Blocking diameter:** 36 – 68 mm
- **Blocking height:** 7 – 13 mm
- **Controls:** PC based controls with slot-CNC; integrated image processing for determining the position; operation via mouse, function keys or on blocker. OMA/VCA standard interface from V2.0 upwards as well as Satisloh protocol.
- **Axis position:**
  - PRA: automatically adjustable 0 – 180°
  - PLA: automatically adjustable 0 – 360°
- **Prism angle:** 5.5° resp. 10.5° (with adapter ring)
- **Front curve (radius):** min. 22.5 mm up to max. plano, depending on blocking ring, standard blocking chucks
- **Blocking material:** Alloy
- **Lens materials:** all plastics and glass
- **Energy requirements:**
  - Electrical power: 1.0 kVA
  - compressed air: min. 5 bar up to max. 8 bar, consumption: 1 l/min.
- **Cooled water:** 12° C, 2 – 3 l/min.
- **Dimensions (w x d x h):**
  - 1050 x 950 x 1000 mm /
  - 27.5 x 31.5 x 39 inches
- **Net weight:** 100 kg / 221 lb

### Blocker-2000

- **Capacity:** 80 – 90 lenses/h
- **Blocking type:** plano, with prism rings also prismatic
- **Lens diameter:** 38 – 85 mm, depending on blocking ring
- **Blocking diameter:** 48 – 73 mm, with adapter rings from 36 mm diameter on
- **Blocking height:** 4 – 13 mm
- **Axis position:** 0 – 360°
- **Prism angle:** up to 10° prism
- **Front curve (radius):**
  - min. 22.5 mm up to max. plano, depending on blocking ring, standard blocking chuck
- **Blocking material:** Alloy
- **Lens materials:** all plastics and glass
- **Blocking reception:**
  - Satisloh taper/V-groove chucks Flat-Back 2" (moulds) Adaption to other blocking systems available upon request
- **Energy requirements:**
  - Electric: 2.4 kVA
  - Compressed air: 4 bar (with pneumatic clamping), consumption: approx. 1 l/min.
- **Cooled water:** 12° C
- **Dimensions (w x d x h):**
  - 500 x 400 x 400 mm / 20 x 16 x 16 inches
- **Net weight:** approx. 40 kg / 88 lb

### Accessories:

- **Blocking rings:**
  - additional blocking rings allow higher block diameters and heights. Satisloh offers a huge selection of plano and prism rings with different diameters and heights, measured in degrees or in diopters.
- **Blocking chucks:**
  - combination blocking chucks available for use with non-cylinder machines.
- **Scanner**
- **Cooling devices**
- **Deblocking devices**

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