

## CUSTOM MOULDS

Crossbows Optical can reproduce existing moulds based on customer's design drawings and sample provided. Made-to-order convex and concave progressive or single vision glass moulds can also be designed by our highly trained in-house R&D team to delivered specifications. Very accurate measuring equipment from Rotlex, Visionix and Automation & Robotics is employed in the inspection and testing of all moulds produced to ensure high performance product.

Atoric moulds may be matched with spherical fronts or specially optimized aspheric front moulds for the ultimate in clear vision for astigmatic prescriptions.



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## GLASS MOULDS

for plastic lens  
production



Crossbows Optical has been manufacturing ophthalmic glass moulds since the 1980s and developed their own state of the art design technology using precision glass grinding and polishing machines. Progressive, aspheric and atoric moulds are sold worldwide for semi-finished and finished lens production.

All moulds are available for lens material index range from 1.498 to 1.740 and diameters between 70-87mm based on request. Multifocal moulds are produced with individual left and right eye designs for optimal visual performance.

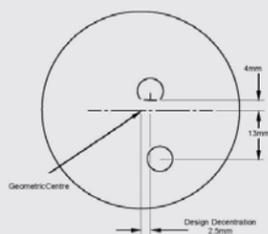


## PROGRESSIVE MOULDS

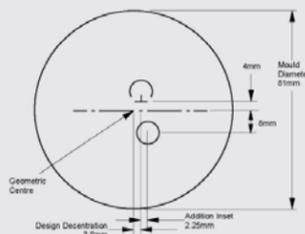
Progressive moulds in Premium, Everyday and Lifestyle designs are available to mix and match according to your needs.

|           |               |  |
|-----------|---------------|--|
| PREMIUM   | PREVIEW       | Premium design developed using Smooth Optics™ Technology to minimize swim effects, provide comfortable viewing and ease patient adaptation   |
|           | PREVIEW SHORT | Short corridor version of Preview designed for smaller frames  |
| EVERYDAY  | PETITE PICO   | For extremely small sizes  |
|           | PETITE        | Soft aspheric design with low distortion for small frames  |
|           | MIDI          | Aspheric design for mid-size frames  |
|           | SELECT        | Great value design with low distortion. Generous intermediate and reading areas  |
|           | CONTOUR S     | Good option for larger frames  |
| LIFESTYLE | COMPUTEREYES  | Designed for office-type environments with ample intermediate and reading fields. Reduces eye and neck strain associated with extended computer viewing. 4 dynamic powers allow reading additions up to 3.00D  |
|           | PETITE JUNIOR | A short corridor progressive specially created to help slow the progression of myopia in young people between the ages of 8 and 16 years.  |
|           | RELAX I & II  | A progressive-based design for non-presbyopes. Especially beneficial for individuals focusing on near or intermediate distances for most of the day. Relax I has an addition of 0.66D and Relax II, an addition of 1.00D to help avoid eyes becoming tired and strained. |

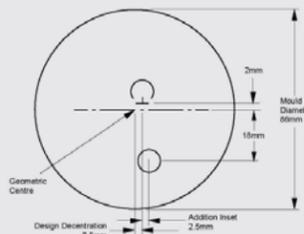
## SAMPLE MOULD DESIGNS



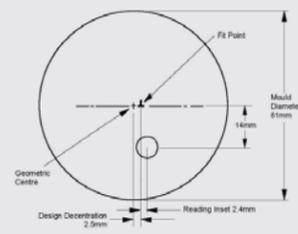
PREVIEW



PETITE PICO



CONTOUR S



COMPUTEREYES

## AVAILABILITY

Soft progressive designs in a variety of corridor lengths to suit specific prescriptions and specialty designs to provide the best optics for specific tasks.

|               | SMOOTH OPTICS | CORRIDOR LENGTH TO FULL POWER | STANDARD* DECENTRATION | STANDARD** BASE CURVES | ADDITION RANGE                            |
|---------------|---------------|-------------------------------|------------------------|------------------------|---|
| PREVIEW       | X             | 17mm                          | 3.0mm                  | 1.50, 3.50, 5.75, 7.75 | 0.75 to 3.50D                             |
| PREVIEW SHORT | X             | 13mm                          | 3.0mm                  | 1.50, 3.50, 5.75, 7.75 | 0.75 to 3.50D                             |
| PETITE PICO   |               | 12mm                          | 3.0mm                  | 1.50, 3.50, 5.75, 7.75 | 0.75 to 3.50D                             |
| PETITE        |               | 14mm                          | 3.0mm                  | 1.50, 3.50, 5.75, 7.75 | 0.75 to 3.50D                             |
| MIDI          |               | 16mm                          | 3.0mm                  | 1.50, 3.50, 5.75, 7.75 | 0.75 to 3.50D                             |
| SELECT        |               | 17mm                          | 2.5mm                  | 2.25, 4.25, 5.50, 7.50 | 0.75 to 3.50D                             |
| CONTOUR S     |               | 20mm                          | 2.5mm                  | 2.25, 4.25, 5.50, 7.50 | 0.75 to 3.50D                             |
| COMPUTEREYES  |               | 14mm                          | 2.5mm                  | 2.50, 5.25, 8.00       | Dynamic power: -0.75, -1.25, -1.75, -2.25 |
| PETITE JUNIOR |               | 13mm                          | 3.0mm                  | 2.00, 4.00             | 0.50 to 1.75D                             |
| RELAX I       |               | 14mm                          | 2.5mm                  | 2.25, 4.25, 5.50, 7.50 | 0.66D                                     |
| RELAX II      |               | 14mm                          | 2.5mm                  | 2.25, 4.25, 5.50, 7.50 | 1.00D                                     |

\*Centred moulds for Finished Progressive Lenses available for an additional charge

\*\*Additional base curves available by request and subject to an additional charge

## ASPHERIC AND ATORIC MOULDS

Glass moulds manufactured with CNC equipment for superior optical performance in semi-finished lens production. Include Crossbows Optical's EyeView™ Technology to correct astigmatic errors along every meridian of the lens. Lenses are up to 10% thinner with greatly improved peripheral vision. Wider fields of view and flatter lenses for plus powers.

ASPHERIC Standard base curves from 0.75 to 9.75 in 1.00D steps

ATORIC Available in sphere powers from plano to -10.00D out to -4.00D cylinder. Other powers available made-to-order