

METAL INSERTS

for polycarbonate lens production



The extensive experience in lens mould manufacturing allows Crossbows Optical to offer a wide selection of precision metal inserts for polycarbonate lenses. Availability includes several progressive designs as well as spherical, aspheric and atoric single vision options.

All metal inserts are made with nickel-plated stainless steel and surface hardness Rockwell of C 50/52. The optical surface is precision diamond-turned.

PROGRESSIVE INSERTS

Pre-made Crossbows progressive designs for injection moulding of front side semi-finished or backside finished lenses. Base curves are designed to customer's specific requirements with add power range of 0.75 to 3.50D in .25 diopter steps. Available in concave front or convex back design.

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
PETITE PICO	For extremely small sizes with minimum fitting height of 13mm
PETITE	Soft aspheric design with low distortion and minimum fitting height of 15mm
MIDI	Aspheric design for mid-size frames with 17mm minimum fitting height
SELECT	Great value design with low distortion, minimum fitting height of 18mm with generous intermediate and reading areas
CONTOUR S	Good option for larger frames with a minimum fitting height of 21mm

SINGLE VISION INSERTS

METAL INSERTS	SPHERE POWER	CYLINDER POWER
SPHERICAL CONCAVE (FRONT A)	0.00 to 12.00D	N/A
SPHERE/CYLINDER CONVEX (BACK B)	0.00 to 12.00D	Up to -4.00D
ASPHERIC* CONCAVE (FRONT A)	0.00 to 12.00D	N/A
ASPHERIC* CONVEX (BACK B)	0.00 to 12.00D	N/A
ATORIC** CONVEX (BACK B)	0.00 to 12.00D	Up to -4.00D

** Includes EyeView™ Technology for enhanced optical performance in all directions.

CUSTOM INSERTS

Crossbows Optical can reproduce existing inserts based on customer's design drawings and sample provided using CMM technology. Custom made convex and concave progressive or single vision metal inserts can also be designed to given specifications with powers based on XYZ surface geometry.

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