

Polishing – Grinding – Re-Coating – Decolorize

1. Surface polishing

Damaged surface coating can be perfectly restored. This damage may have been caused when cleaning the lenses. Polishing is performed with special tools for each particular radius.

# 29824 – polishing of spherical lens, diam. < 60mm	€ 120,00
# 29825 – polishing of spherical lens, diam. > 60mm	€ 200,00
# 32593 – polishing of spherical lens, diam. >100 mm	on request

2. Grinding of glass

Damages of the surface itself (scratches) cannot be restored by polishing only. The surface needs to be grinded before polishing. Most precise grinding heads are used. After grinding a polishing process will be performed.

# 32594 – grinding of spherical lens, at cost	on request
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3. Re-Coating

After the glass is polished it will get the original coating. Lenses manufactured before 1970 typically had a single layer coating. Lenses manufactured later have multi-layer coating. Of course the element can stay without coating (flare lens).

# 29826 – single/multi-layer coating for lens diam. < 60mm	€ 110,00
# 29827 – single/multi-layer coating for lens diam. > 60mm	€ 150,00
# 30189 - single/multi-layer coating for lens diam. >100mm	€ 400,00

4. Glass cementing

Cemented elements of optical systems get damaged as soon as the cement dissolves. This may be caused e.g. by fungal attack. The optical performance of such damaged lens groups is heavily affected. In such cases we have to disassemble the cemented element, remove the cement completely and re-glue the parts.

# 29828 – cemented elements cleaning, readjusting, re-gluing and painting in black of the borders	on request
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5. Decolorizing

Some glasses have been used since the 1950s and some of the lenses are getting yellow over the years. The yellow tone comes from Thorium glass. Cooke and other lens manufacturers were using it till the 1970s. If you have an old lens which has a strong yellow color shift, we can fix this problem in many cases, the color will be white again or the yellow tone is strongly reduced. This may not help for ever but certainly for some years - a minimum of 5 years before the lens starts getting yellow again. The price is for a single lens glass element. To decolorize e.g. a Cooke Panchro 75mm, this lens includes two doublets, each with an element to be decolorized. So two elements need the process. We can't guarantee a 100% positive result in all cases. The decolorizing process is performed with utmost care using a state-of-the-art technique. Possible damages or even the loss of a lens element are not covered by P+S Technik.

# 29889	Lens Decolorizing (per glass element, dis-/re-assembling of lens NOT included)	€ 300,00
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6. Spare glass and iris elements

If the a front or rear element is broken or can't be refurbished by grinding/polishing, we can offer spare glass elements for many vintage lenses. In many cases we can replace a broken iris. Options and prices on request.

IMPORTANT NOTE:

The prices mentioned above are to be understood per surface of the lens. In most cases only one side of your lens will need repair.

Disassembling and reassembling of the lens is not included in the above prices.