

# Rodenstock®

## enlarging lenses

### Resolution

Today's superior camera lenses demand enlarging lenses of equal resolving power. The resolution of the enlarging lens must remain constant over a wide range of magnifications if absolute sharpness is to be retained for all print sizes.

### Flatness of Field

In camera lenses, moderate curvature of field does not affect most photographs. It is effectively "hidden" by the depth-of-field inherent in photographs taken from normal working distances. In enlarging, however, no such tolerance can exist. The image on the easel must be equally sharp from edge to edge, with all light rays coming into focus at precisely the same plane.

### Contrast

The ability to record pure blacks and whites becomes especially important when using partial diffusion light sources (such as dichroic lamphouses) and single contrast color printing materials.

### Color Correction

Once considered minimal in importance for enlarging lenses, precise color correction — the ability to focus the three primary colors on exactly the same plane — becomes an essential requirement with modern color and variable contrast print materials.

Beyond these four basic criteria, there lies the great intangible: quality — in material, design, construction, and final inspection.

Painstaking quality controls throughout the lens making process assure the optimum performance of every Rodenstock lens. Since 1877, over nine million Rodenstock lenses have been acclaimed by critical owners throughout the world for the finest enlarging lenses available at any price.



A finished photograph is a blend of many things: the skill of the photographer, the quality of the camera and lens, chemical and emulsion type, enlarger design . . . and the enlarging lens used. The more critical the requirements, the more important it becomes to select enlarging lenses of quality commensurate with that of camera lenses.

Which enlarging lens is best? There are four basic criteria to be considered . . .

# BMC

RODENSTOCK DIVISION

## BERKEY MARKETING COMPANIES

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3400 East 70th Street, Long Beach, CA 90805



# Rodenstock®

## El-Omegar

The El-Omegar offers exceptional performance at moderate cost. The advanced three element optical construction is designed for optimum results at 3x-4x magnification. It provides high resolution and contrast with flatness of field.

### Key Features

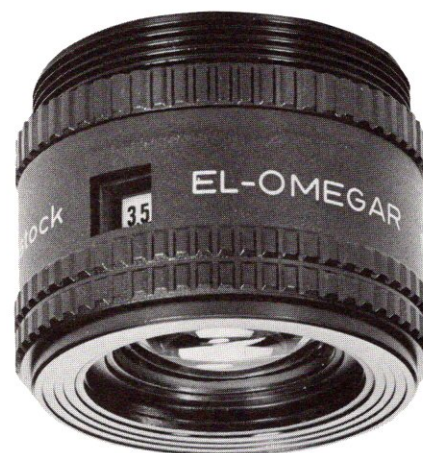
- Illuminated f/stop scale and click stops for fast, precise aperture setting
- All glass-to-air surfaces hard-coated for maximum light transmission and freedom from flare
- Lens barrel finished in non-reflective satin black
- Each lens is tested for optimum quality and performance
- Supplied in case with mounting ring and front lens cap
- Leica Thread (39mm) Mount

### Technical Specifications

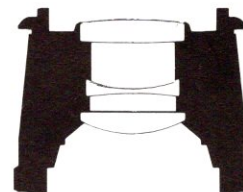
| Cat. No. | Focal Length | Aperture Range | Film Format   | Elements Groups | Mounting Thread |
|----------|--------------|----------------|---------------|-----------------|-----------------|
| 455-110  | 50mm         | f3.5 - f16     | 24x36mm       | 3 3             | 39mm            |
| 455-111  | 75mm         | f4.5 - f16     | 2 1/4"x2 1/4" | 3 3             | 39mm            |

Cat. No. 455-110 50mm f3.5

Cat. No. 455-111 75mm f4.5



Three  
Element  
Construction



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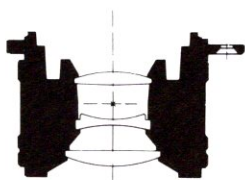
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Three  
Element  
Construction



# Rodenstock®

## Rogonar

The Rogonar 50mm f2.8 lens is an attractively priced lens that is excellent for those individuals who are just getting started in home enlarging. It offers traditional Rodenstock features such as illuminated aperture scale. This three element 50mm lens has an exceptionally fast maximum aperture.

### Key Features

- Fast maximum aperture allows for fast easy focusing even with dense negatives
- Illuminated f/stop scale for precise aperture setting
- All glass-to-air surfaces hard-coated for maximum light transmission and freedom from flare
- Lens barrel finished in non-reflective satin black
- Each lens is individually tested for optimum quality and performance
- Supplied in plastic case with mounting ring and front lens cap
- Leica Thread (39mm) Mount

### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Film Format | Elements Groups | Mounting Thread |
|----------|--------------|----------------|-------------|-----------------|-----------------|
| 452-220  | 50mm         | f2.8 - f16     | 24x36mm     | 3 3             | 39mm            |

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# Rodenstock®

## Rogonar-S

Using special rare earth glass and up-to-date computer technology developed by Rodenstock, the Rogonar-S series of lenses offers all the operating characteristics of the Rodagon range. These include a newly designed lens mount with disengageable click stops to allow for continuous aperture control, especially important with today's color analyzers.

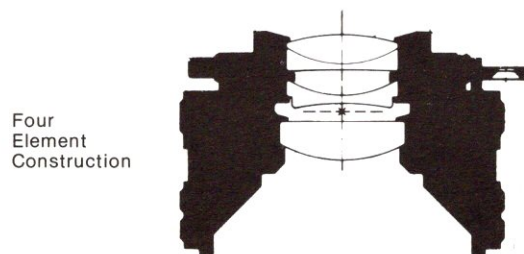
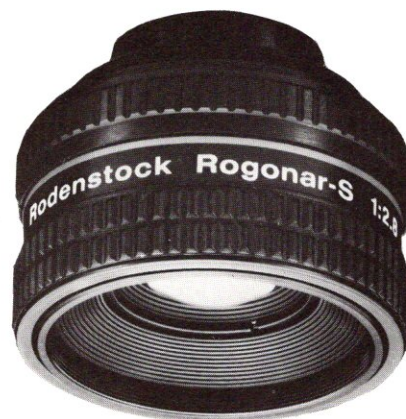
### Key Features

- Fast maximum aperture allows for fast easy focusing even with dense negatives
- Illuminated f/stop scale and rubberized aperture ring for smooth, precise aperture setting
- Disengageable click stops for continuous aperture control (50mm to 105mm)
- All glass-to-air surfaces hard-coated for maximum light transmission and freedom from flare
- Lens barrel finished in non-reflective satin black
- Supplied in plastic case with mounting ring and front lens cap (except 135mm and 150mm)
- Leica Thread (39mm) Mount except where indicated

### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Film Format     | Elements Groups | Mounting Thread |
|----------|--------------|----------------|-----------------|-----------------|-----------------|
| 452-201  | 25mm         | f - f16        | 12x17mm         | 4 3             | 32.5mm          |
| 452-202  | 35mm         | f4 - f16       | 18x24mm         | 4 3             | 32.5mm          |
| 452-203  | 50mm         | f2.8 - f16     | 24x36mm         | 4 3             | 39mm            |
| 452-205  | 75mm         | f4.5 - f22     | 2 1/4" x 2 1/4" | 4 3             | 39mm            |
| 452-206  | 90mm         | f4.5 - f22     | 2 1/4" x 2 3/4" | 4 3             | 39mm            |
| 452-207  | 105mm        | f4.5 - f22     | 60x90mm         | 4 3             | 39mm            |
| 452-208  | 135mm        | f4.5 - f32     | 4"x5"           | 4 3             | 50mm            |
| 452-209  | 150mm        | f4.5 - f32     | 3"x5"           | 4 3             | 50mm            |

|                  |            |
|------------------|------------|
| Cat. No. 452-201 | 25mm f4    |
| Cat. No. 452-202 | 35mm f4    |
| Cat. No. 452-203 | 50mm f2.8  |
| Cat. No. 452-205 | 75mm f4.5  |
| Cat. No. 452-206 | 90mm f4.5  |
| Cat. No. 452-207 | 105mm f4.5 |
| Cat. No. 452-208 | 135mm f4.5 |
| Cat. No. 452-209 | 150mm f4.5 |



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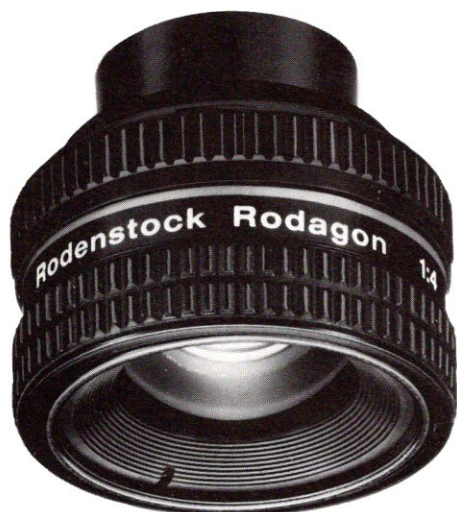
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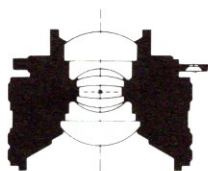
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|                  |            |                  |            |
|------------------|------------|------------------|------------|
| Cat. No. 452-314 | 28mm f4.0  | Cat. No. 452-303 | 135mm f5.6 |
| Cat. No. 452-315 | 35mm f4.0  | Cat. No. 452-305 | 150mm f5.6 |
| Cat. No. 452-316 | 50mm f2.8  | Cat. No. 452-307 | 180mm f5.6 |
| Cat. No. 452-324 | 50mm f4.0  | Cat. No. 452-309 | 210mm f5.6 |
| Cat. No. 452-318 | 60mm f4.0  | Cat. No. 452-310 | 240mm f5.6 |
| Cat. No. 452-306 | 80mm f5.6  | Cat. No. 452-311 | 300mm f5.6 |
| Cat. No. 452-317 | 80mm f4.0  | Cat. No. 452-312 | 360mm f6.8 |
| Cat. No. 452-301 | 105mm f5.6 |                  |            |



Six  
Element  
Construction



# Rodenstock®

## Rodagon

Considered the finest enlarging lenses in existence, the Rodagon series exceeds the most demanding professional requirements for critical color or black and white printing. Improved Rodenstock features, such as disengageable click stops and illuminated f/stop scale, allow for quick and easy operation. The computer designed six element formula utilizes special rare earth glass for outstanding color correction in a newly designed lens mount. Resolving power, contrast, flatness of field and evenness of illumination at all apertures is excellent. The Rodagon series is available from 28mm to 360mm focal lengths to cover all formats from Minox/110 to 8" x 10".

### Key Features

- Illuminated f/stop scale for precise aperture setting
- Disengageable click stops and rubberized aperture ring for smooth continuous aperture control (50mm to 135mm only)
- All glass-to-air surfaces hard-coated for maximum light transmission and freedom from flare
- Lens barrel finished in non-reflective satin black
- Each lens is individually tested for optimum quality and performance
- Supplied in plastic case (except 150mm and longer focal lengths)
- Supplied with mounting ring and front lens cap
- Leica Thread (39mm) Mount except where indicated

### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Film Format     | Elements Groups | Mounting Thread |
|----------|--------------|----------------|-----------------|-----------------|-----------------|
| 452-314  | 28mm         | f4.0 - f16     | 18x24mm         | 6 4             | 32.5mm*         |
| 453-315  | 35mm         | f4.0 - f16     | 18x24mm         | 6 4             | 32.5mm*         |
| 452-316  | 50mm         | f2.8 - f16     | 24x36mm         | 6 4             | 39mm            |
| 452-324  | 50mm         | f4.0 - f16     | 24x36mm         | 6 4             | 39mm            |
| 452-318  | 60mm         | f4.0 - f22     | 24x36mm         | 6 4             | 39mm            |
| 452-306  | 80mm         | f5.6 - f22     | 2 1/4" x 2 1/4" | 6 4             | 39mm            |
| 452-317  | 80mm         | f4.0 - f22     | 2 1/4" x 2 1/4" | 6 4             | 39mm            |
| 452-301  | 105mm        | f5.6 - f32     | 2 1/4" x 3 1/4" | 6 4             | 39mm            |
| 452-303  | 135mm        | f5.6 - f32     | 4" x 5"         | 6 4             | 39mm            |
| 452-305  | 150mm        | f5.6 - f45     | 4" x 5"         | 6 4             | 50mm            |
| 452-307  | 180mm        | f5.6 - f45     | 5" x 7"         | 6 4             | 50mm            |
| 452-309  | 210mm        | f5.6 - f45     | 5" x 7"         | 6 4             | Special**       |
| 452-310  | 240mm        | f5.6 - f45     | 5" x 7"         | 6 4             | Special**       |
| 452-311  | 300mm        | f5.6 - f45     | 8" x 10"        | 6 4             | Special**       |
| 452-312  | 360mm        | f6.8 - f45     | 8" x 10"        | 6 4             | Special**       |

\*Because of their small barrel, 28mm and 35mm lenses are without illuminated scales. Both lenses are supplied with Leica Thread (39mm) adapter.

\*\*Supplied with 4" mounting plate.

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# Rodenstock®

## Apo-Rodagon

The Apo-Rodagon 50mm f2.8 enlarging lens incorporates world famous Rodenstock optics in a process lens of the highest possible quality. Using advanced computer design techniques and new high performance glass, this fully apochromatic f2.8 enlarging lens can be used wide open for most purposes. The Apo-Rodagon is available in the newly designed Rodenstock lens mount with disengageable click stops for use with today's critical color analyzers, and is designed for the professional darkroom.

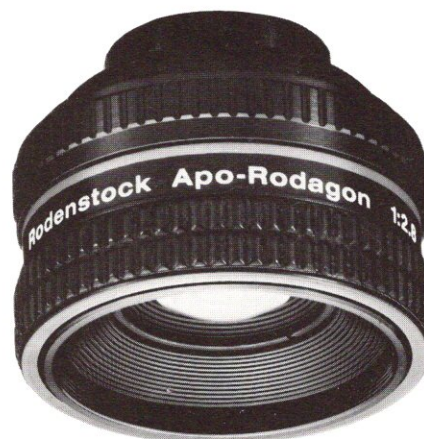
### Key Features

- Fully apochromatic design for superb image quality
- Illuminated f/stop scale for precise aperture setting
- All glass-to-air surfaces hard-coated for maximum light transmission and freedom from flare
- Lens barrel internally and externally finished in non-reflective satin black
- Each lens is individually tested for optimum quality and performance
- Supplied in plastic case with mounting ring and front lens cap
- Leica Thread (39mm) Mount

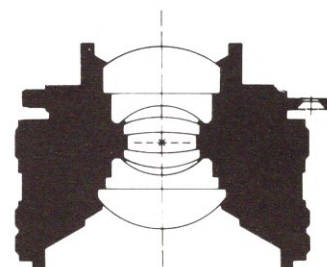
### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Film Format | Elements Groups | Mounting Thread |
|----------|--------------|----------------|-------------|-----------------|-----------------|
| 452-340  | 50mm         | f2.8 - f16     | 24x36mm     | 6 4             | 39mm            |
| 452-342  | 90mm         | f4 - f22       | 6x7cm       | 6 4             | 39mm            |

Cat. No. 452-340 50mm f2.8  
Cat. No. 452-342 90mm f4



Six  
Element  
Construction



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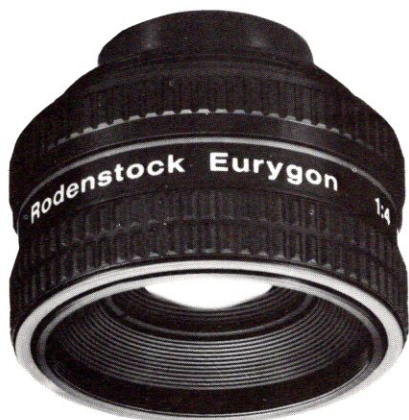
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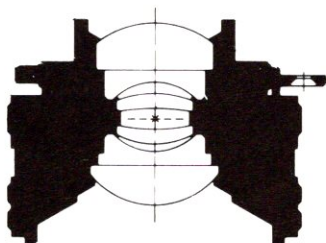
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Cat. No. 452-330 40mm f4  
 Cat. No. 452-331 60mm f4  
 Cat. No. 452-332 80mm f4  
 Cat. No. 454-333 120mm f5.6



Six  
 Element  
 Construction



# Rodenstock®

## Eurygon

The six element Eurygon is a highly corrected wide angle enlarging lens in the same class as the Rodenstock Rodagon series. Yielding 30% greater magnification than a comparable standard lens, the Eurygon series facilitates large format enlargements with the enlarger head at eye level, resulting in convenient operation. This series is recommended for use only on an enlarger with a diffusion lamphouse, as normal condenser systems do not provide uniform illumination to sufficiently cover a wide angle lens.

### Key Features

- Illuminated f/stop scale for precise aperture setting
- Disengageable click stops with rubberized aperture ring for continuous, smooth aperture control
- All glass-to-air surfaces hard-coated for maximum light transmission and freedom from flare
- Lens barrel internally and externally finished in non-reflective satin black
- Each lens is individually tested for optimum quality and performance
- Supplied in plastic case with mounting ring and front lens cap
- Leica Thread (39mm) Mount

### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Film Format | Elements Groups | Mounting Thread |
|----------|--------------|----------------|-------------|-----------------|-----------------|
| 452-330  | 40mm         | f4 - f22       | 24x36mm     | 6 4             | 39mm            |
| 452-331  | 60mm         | f4 - f22       | 6x6cm       | 6 4             | 39mm            |
| 452-332  | 80mm         | f4 - f22       | 6x9cm       | 6 4             | 39mm            |
| 452-333  | 120mm        | f5.6 - f32     | 4"x5"       | 6 4             | 39mm            |

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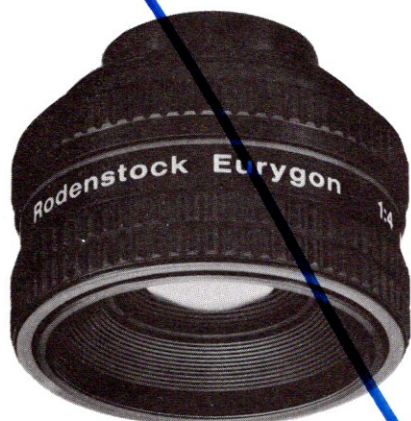
# RODENSTOCK

## Eurygon

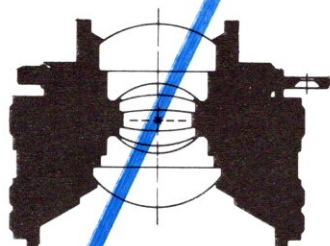
Cat. No. 452-330 40mm f4

Cat. No. 452-331 60mm f4

Cat. No. 452-332 80mm f4



Six  
Element  
Construction



# Rodenstock®

## enlarging lenses

The six element Eurygon is a highly corrected wide angle enlarging lens in the same class as the Rodenstock Rodagon series. Yielding 30% greater magnification than a comparable standard lens, the Eurygon series facilitates large format enlargements with the enlarger head at eye level, resulting in convenient operation. This series is recommended for use only on an enlarger with a diffusion lamphouse, as normal condenser systems do not provide uniform illumination to sufficiently cover a wide angle lens.

### Key Features

- Illuminated f/stop scale for precise aperture setting
- Disengageable click stops with rubberized aperture ring for continuous, smooth aperture control
- All glass-to-air surfaces hard-coated for maximum light transmission and freedom from flare
- Lens barrel internally and externally finished in non-reflective satin black
- Each lens is individually tested for optimum quality and performance
- Supplied in plastic case with mounting ring and front lens cap
- Leica Thread (39mm) Mount

### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Film Format | Elements Groups | Mounting Thread |
|----------|--------------|----------------|-------------|-----------------|-----------------|
| 452-330  | 40mm         | f4 - f22       | 24x36mm     | 6 4             | 39mm            |
| 452-331  | 60mm         | f4 - f22       | 6x 6cm      | 6 4             | 39mm            |
| 452-332  | 80mm         | f4 - f22       | 6x 9cm      | 6 4             | 39mm            |

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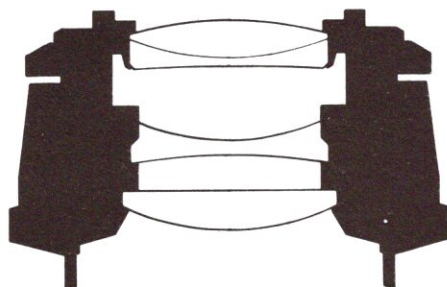
## Omegaron

Cat. No. 452-231 35mm f4.0

Cat. No. 452-062 105mm f4.5



Four  
Element  
Construction



# Rodenstock®

## enlarging lenses

The resolving power, contrast, flatness of field, and evenness of illumination meet professional requirements in this superb four-element design. The Omegaron is highly suitable for critical color printing. Rays outside the image path illuminate the f/stop scale for instant readout: red for f/stop in use, green for next larger and smaller f/stop. Available in 35mm and 105mm focal lengths.

### Key Features

- Illuminated f/stop scale for precise aperture setting
- All glass-to-air surfaces hard-coated for maximum light transmission and freedom from flare
- Lens barrel finished in non-reflective satin black
- Supplied in case with mounting ring and front lens cap

### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Film Format | Elements Groups | Mounting Thread |
|----------|--------------|----------------|-------------|-----------------|-----------------|
| 452-231  | 35mm         | f4.0 - f16     | 18x24mm     | 4 3             | 32.5mm*         |
| 452-062  | 105mm        | f4.5 - f22     | 2¼"x3¾"     | 4 3             | 39mm            |

\*Because of its small barrel size, the 35mm lens does not provide illuminated aperture.

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# Rodenstock®

## view camera lenses

usual way of determining the normal focal length for a given format is to measure the diagonal of the negative.

The choice of focal length is largely a matter of personal preference. One photographer may prefer a 210mm lens for a portrait, another photographer may use a 300mm lens for the same kind of photograph.

The choice of focal length can be determined by the desired photographic effect. For instance, there is no law that says a wide angle lens must be used for architecture only. Excellent still life photographs can be made with short focal length lenses to force perspective and give the illusion of extreme depth.

Longer focal length lenses require more bellows extension to focus than shorter focal length lenses. You will need a bellows extension the same as the focal length of the lens to focus at infinity (exception: telephoto formula lenses).

The lens should produce a large enough circle of usable illumination (image diameter) to permit camera movements (exceptions: extreme wide angle lenses - 65mm, 75mm). If camera movements are not necessary, the circle of usable illumination can be smaller, but should fully cover the negative area.

An excellent general purpose focal length for 4"x5" view cameras is 210mm, because it will allow complete camera movements and can be used for most portrait, commercial and still life applications.

A basic guide to 4"x5" view camera focal lengths:

|                                                   |                     |
|---------------------------------------------------|---------------------|
| General Purpose                                   | 180mm, 210mm, 240mm |
| Portraiture                                       | 240mm, 300mm        |
| Product and Still Life                            | 210mm, 240mm, 300mm |
| Architectural Interiors, Exteriors and Wide Angle | 90mm, 75mm, 65mm    |
| Short Focal Length                                |                     |
| Semi Wide Angle                                   | 150mm, 135mm        |

Rodenstock Optical Works, founded in 1877, is one of the largest and most respected lens manufacturers in the world. Today, 5,800 Rodenstock men and women carry on the tradition of highest manufacturing standards and conscientious quality controls which have been Rodenstock hallmarks for a century.

Persistent research and development by staff scientists, aided by the newest generation of computers and the most advanced optical glass technology, have enabled Rodenstock to produce innovative lens designs considered unattainable only a few years ago.

Painstaking quality control throughout the lens making process is continued to a comprehensive final test before shipment of each finished Rodenstock lens.

### Choosing View Camera Lenses

The term "normal lens" applies to all cameras and formats, and means that the lens is neither wide angle nor telephoto, but has a "normal angle of view". The

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# Rodenstock®

**Geronar®**  
**Geronar® WA\***

Cat. No. 160-204 210mm f6.8

Cat. No. 160-205 300mm f9

Cat. No. 160-203 150mm f6.8

Cat. No. 160-202 90mm f8\*

In its price class, the Geronar offers excellent sharpness combined with an angle of coverage that will allow the use of all camera movements on an 4 x 5 view camera. The 300mm Geronar is the ideal lens for photographers using the new Polaroid™ 8 x 10 portrait system where limited movements are required. The 90mm Geronar WA is for photographers who need wide angle coverage at a reasonable price.

## Key Features

- Multi-coated for improved color rendition and contrast
- Excellent price/performance ratio offering top optical quality with a Copal Shutter
- Designed for all general purpose large format applications
- Ideally suited for students, advanced amateurs, and the professional who requires occasional large format versatility

## Technical Specifications

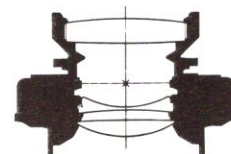
| Cat. No. | Focal Length | Aperture Range | Maximum Format | Elements Groups | Angle of View |       | Image Diameter |     |
|----------|--------------|----------------|----------------|-----------------|---------------|-------|----------------|-----|
|          |              |                |                |                 | f22           | f11   | f11            | f22 |
| 160-204  | 210mm        | f6.8-64        | 5"x7"          | 3 3             | 57.6°         | 210mm | 230mm          |     |
| 160-205  | 300mm        | f9 - 64        | 8"x10"         | 3 3             | 59.3°         | 300mm | 340mm          |     |
| 160-203  | 150mm        | f6.8-64        | 4"x5"          | 3 3             | 61.8°         | 165mm | 180mm          |     |
| 160-202  | *90mm        | f8 - 32        | 4"x5"          | 4 4             | 85°           | 155mm | 170mm          |     |

Polaroid is a registered trademark of Polaroid Corporation.



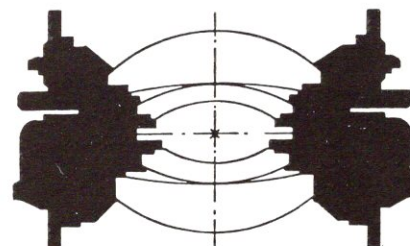
Geronar

Three  
Element  
Construction



Geronar WA\*

Four  
Element  
Construction



# BMC

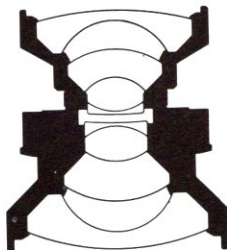
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Cat. No. 160-500 65mm f4.5  
 Cat. No. 160-501 75mm f6.8  
 Cat. No. 160-502 75mm f4.5  
 Cat. No. 160-503 90mm f6.8  
 Cat. No. 160-504 90mm f4.5  
 Cat. No. 160-505 115mm f6.8  
 Cat. No. 160-506 155mm f6.8



# Rodenstock®

## Grandagon

Grandagon extreme wide angle lenses are distinguished by their excellent sharpness, color correction and even illumination - important advantages particularly when extreme camera movements are used. These lenses offer superior flatness of field, contrast rendition, and freedom from distortion. Grandagons were awarded the 1976 "Seal of Quality and Highest Standard" by Europhot, the prestigious European Professional Photographers Association.

### Key Features

- Multi-coated for improved color rendition and contrast
- Exceptionally wide angle of view and large image diameter for maximum use of camera movements
- Even illumination over entire image area
- Superb flatness of field and freedom from distortion
- Large maximum aperture permits easy composition and focusing, even in dim interiors
- Designed specifically for all large format wide angle applications
- Supplied in Copal Shutter with flash synch, presc focus and full range of apertures and shutter speeds from which to choose

### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Maximum Format            | Elements Groups | Angle of View |      | Image Diameter |       |
|----------|--------------|----------------|---------------------------|-----------------|---------------|------|----------------|-------|
|          |              |                |                           |                 | Wide Open     | f22  | f11            | f22   |
| 160-500  | 65mm         | f4.5 - 45      | 2 1/4" x 3 1/4" / 4" x 5" | 8 4             | 100°          | 105° | 167mm          | 170mm |
| 160-501  | 75mm         | f6.8 - 45      | 4" x 5"                   | 6 4             | 98°           | 102° | 181mm          | 187mm |
| 160-502  | 75mm         | f4.5 - 45      | 4" x 5"                   | 8 4             | 100°          | 105° | 192mm          | 195mm |
| 160-503  | 90mm         | f6.8 - 45      | 5" x 7"                   | 6 4             | 98°           | 102° | 213mm          | 221mm |
| 160-504  | 90mm         | f4.5 - 45      | 5" x 7"                   | 8 4             | 100°          | 105° | 232mm          | 236mm |
| 160-505  | 115mm        | f6.8 - 45      | 5" x 7"                   | 6 4             | 98°           | 104° | 281mm          | 291mm |
| 160-506  | 155mm        | f6.8 - 45      | 8" x 10"                  | 6 4             | 98°           | 102° | 369mm          | 382mm |

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# Rodenstock®

## Sironar-N

The new multi-coated Sironar-N provides a unique combination of performance features. Its corner-to-corner resolution, superb contrast and freedom from distortion are unexcelled. Above all, the Sironar-N offers a degree of color fidelity normally found only in apochromatic lenses.

### Key Features

- Available in all popular focal lengths in a new compact design with multi-coating for improved color rendition, contrast and a maximum aperture of f5.6
- Exceptionally wide angle of view and large image diameter. The Sironar-N allows the creative photographer maximum use of camera movements
- Designed specifically for all general purpose large format applications
- Superb sharpness, evenness of illumination and optimum contrast in a compact easy-handling design
- Supplied in Copal Shutter with flash synch, press focus and full range of apertures and shutter speeds from which to choose

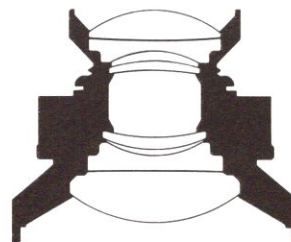
### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Maximum Format  | Elements Groups | Angle of View |     | Image Diameter |       |
|----------|--------------|----------------|-----------------|-----------------|---------------|-----|----------------|-------|
|          |              |                |                 |                 | Wide Open     | f22 | f11            | f22   |
| 160-400  | 100mm        | f5.6 - 45      | 2 1/4" x 3 1/4" | 6 4             | 65°           | 70° | 137mm          | 147mm |
| 160-401  | 135mm        | f5.6 - 45      | 4" x 5"         | 6 4             | 65°           | 72° | 185mm          | 200mm |
| 160-402  | 150mm        | f5.6 - 64      | 4" x 5"         | 6 4             | 65°           | 72° | 198mm          | 214mm |
| 160-403  | 180mm        | f5.6 - 64      | 4" x 5"         | 6 4             | 65°           | 72° | 244mm          | 262mm |
| 160-404  | 210mm        | f5.6 - 64      | 5" x 7"         | 6 4             | 65°           | 72° | 276mm          | 301mm |
| 160-405  | 240mm        | f5.6 - 64      | 8" x 10"        | 6 4             | 65°           | 72° | 325mm          | 350mm |
| 160-406  | 300mm        | f5.6 - 64      | 10" x 12"       | 6 4             | 65°           | 72° | 393mm          | 409mm |
| 160-407  | 360mm        | f6.8 - 64      | 10" x 12"       | 6 4             | 60°           | 64° | 415mm          | 435mm |

Cat. No. 160-400 100mm f5.6  
 Cat. No. 160-401 135mm f5.6  
 Cat. No. 160-402 150mm f5.6  
 Cat. No. 160-403 180mm f5.6  
 Cat. No. 160-404 210mm f5.6  
 Cat. No. 160-405 240mm f5.6  
 Cat. No. 160-406 300mm f5.6  
 Cat. No. 160-407 360mm f6.8



Six  
Element  
Construction



# BMC

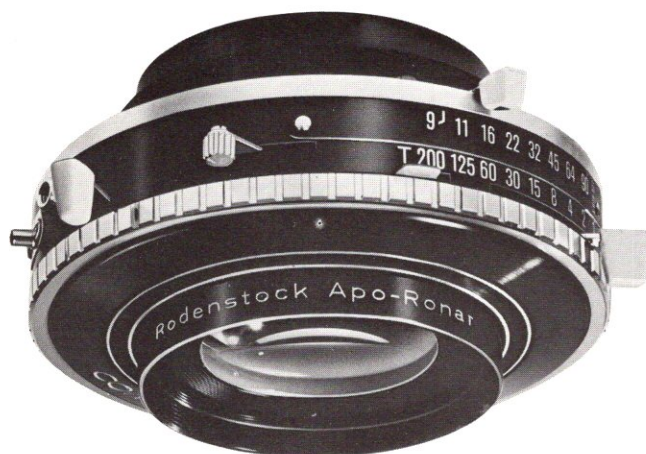
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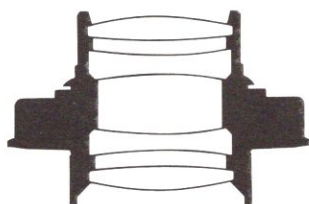
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Cat. No. 160-450 150mm f9  
 Cat. No. 160-451 240mm f9  
 Cat. No. 160-452 300mm f9  
 Cat. No. 160-453 360mm f9  
 Cat. No. 160-454 480mm f9



Four  
Element  
Construction



# Rodenstock®

## Apo-Ronar

Fully symmetrical, Apo-Ronars provide the painstaking photographer with all the superb qualities of an apochromatic lens designed for process work in graphic arts. Ultimate color fidelity and contrast, resolution and freedom from distortion are unexcelled. These qualities are fully maintained even when camera movements are employed.

### Key Features

- Fully symmetrical apochromatic lens
- Optimum color fidelity and contrast
- Unexcelled freedom from distortion with superb resolution
- Ideally suited for needle sharp close-ups in commercial and industrial applications
- Excellent for scientific criminological and medical photography
- Supplied in Copal Shutter with flash synch, press focus and full range of apertures and shutter speeds from which to choose

### Technical Specifications

| Cat. No. | Focal Length | Aperture Range | Maximum Format  | Elements Groups | Angle of View |     | Image Diameter |       |
|----------|--------------|----------------|-----------------|-----------------|---------------|-----|----------------|-------|
|          |              |                |                 |                 | f11           | f22 | f11            | f22   |
| 160-450  | 150mm        | f9 - 64        | 2 1/4" x 4 1/4" | 4 4             | 46°           | 48° | 130mm          | 135mm |
| 160-451  | 240mm        | f9 - 90        | 4" x 5"         | 4 4             | 46°           | 48° | 204mm          | 212mm |
| 160-452  | 300mm        | f9 - 90        | 5" x 7"         | 4 4             | 46°           | 48° | 256mm          | 264mm |
| 160-453  | 360mm        | f9 - 90        | 8" x 10"        | 4 4             | 46°           | 48° | 308mm          | 318mm |
| 160-454  | 480mm        | f9 - 90        | 10" x 10"       | 4 4             | 44°           | 46° | 382mm          | 396mm |

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# Rodenstock®

## Imagon

The Imagon is an exclusive Rodenstock lens design of extraordinary capabilities enabling the creative photographer to obtain exceptional soft focus effects. The Imagon produces a basic, sharp image which can be superimposed with a secondary image of any desired degree of softness. The secondary image is controlled by means of interchangeable front discs with a series of infinitely adjustable openings. With the smallest opening, the secondary image can be minimized to produce sharpness approaching that of an anastigmat lens.

### Key Features

- Exclusive Rodenstock design enables the creative photographer to obtain very unusual effects with precise control
- Ideally suited to introduce a distinctive quality in, cosmetic, fashion and glamour photography
- Unexcelled in portrait photography to produce optimum softness and reduce retouching
- Supplied in Copal Shutter or in Barrel with three adjustable soft focus discs, 4x neutral density filter and lens shade

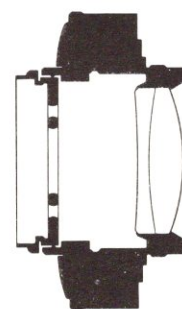
### Technical Specifications

| Cat. No. | Focal Length | Shutter   | Aperture Range | Maximum Format            | Image Diameter (mm-H11.5) |
|----------|--------------|-----------|----------------|---------------------------|---------------------------|
| 160-480  | 200mm        | Copal 3   | H5.8 - 11.5    | 2 1/4" x 3 1/4" / 4" x 5" | 150mm                     |
| 160-481  | 250mm        | Copal 3   | H5.8 - 11.5    | 4" x 5"                   | 180mm                     |
| 160-482  | 300mm        | Copal 3   | H6.8 - 11.5    | 5" x 7"                   | 220mm                     |
| 160-483  | 200mm        | in Barrel | H5.8 - 11.5    | 2 1/4" x 3 1/4" / 4" x 5" | 150mm                     |
| 160-484  | 250mm        | in Barrel | H5.8 - 11.5    | 4" x 5"                   | 180mm                     |
| 160-485  | 300mm        | in Barrel | H6.8 - 11.5    | 5" x 7"                   | 220mm                     |

Cat. No. 160-480 200mm H5.8  
 Cat. No. 160-481 250mm H5.8  
 Cat. No. 160-482 300mm H6.8  
 Cat. No. 160-483 200mm H5.8  
 Cat. No. 160-484 250mm H5.8  
 Cat. No. 160-485 300mm H6.8



Two  
Element  
Construction



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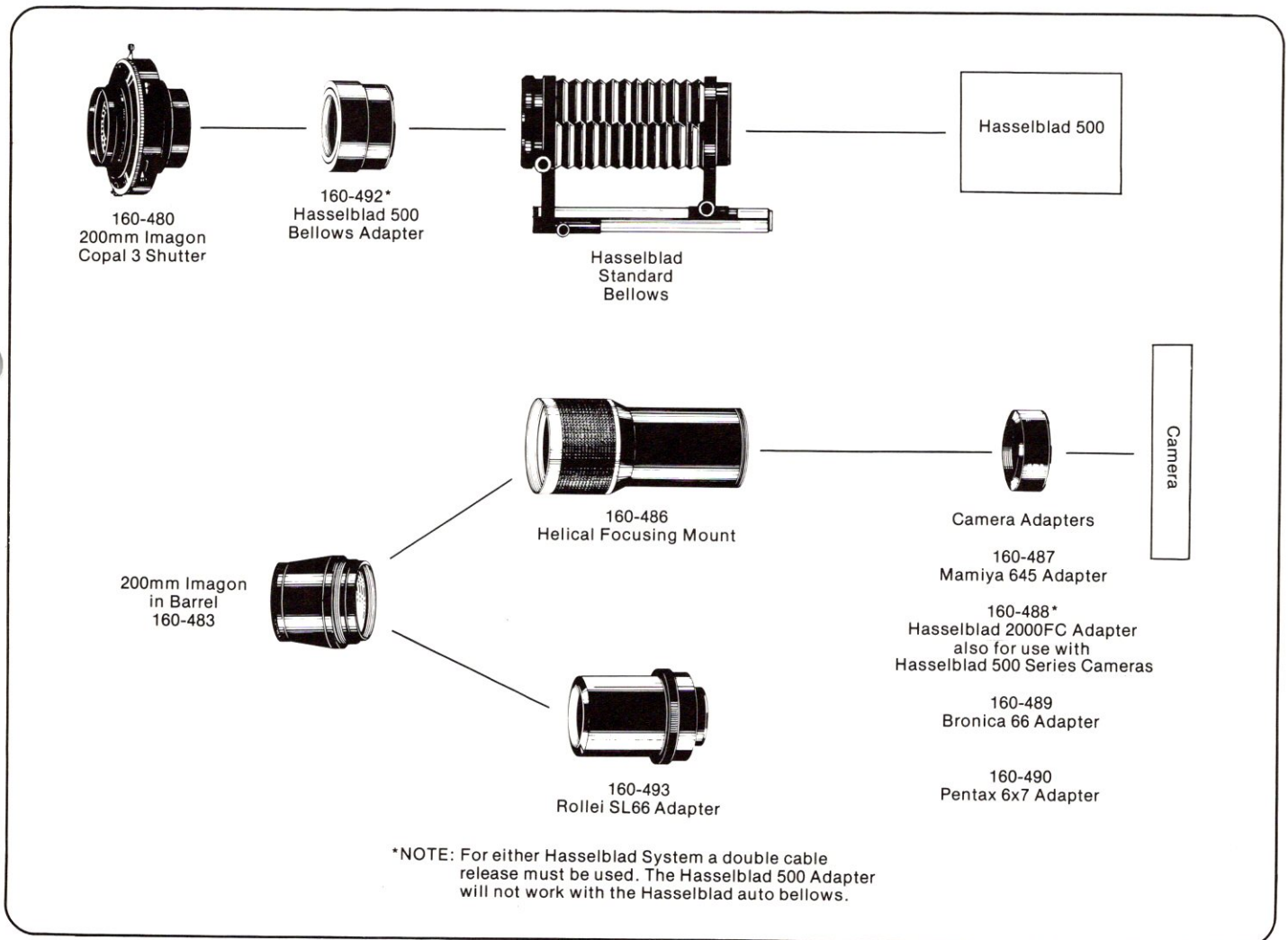
# Rodenstock®

## medium format systems

### Soft Focus Lens

The Imagon Medium Format Adapter System is the newest addition to the Imagon family and was designed to adapt the 200mm Imagon to the most popular medium format reflex cameras available today. An adapter in combination with a helical focusing mount is utilized to mount the 200mm Imagon in Copal Shutter or in Barrel to the following cameras: Mamiya 645, Zenza Bronica 6x6, Pentax 6x7, Hasselblad 2000FC, Mamiya RB67 and Hasselblad 500 Series.

The mounting diagram below shows in detail which components are used to assemble an Imagon Medium Format Soft Focus System. The 200mm Imagon in Copal Shutter or in Barrel is supplied with three adjustable soft focus aperture discs, 4x neutral density filter and lens shade.



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