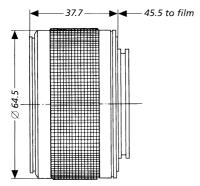
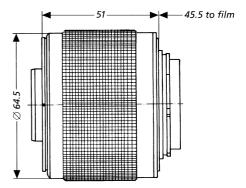
Mutar[®] I

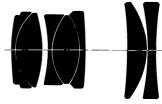


Mutar[®] II

2x T*



CONTAX[®]/YASHICA[®] mount





The **Mutar**® 2x converters from Carl Zeiss for the lens range for **Contax**® SLR cameras are inserted between the camera and the lens and double the focal length of the lens. This reduces the relative aperture set on the lens by two f-stops. Hence exposure time is quadrupled.

The use of **Mutar** converters considerably increases the range of usable focal lengths. When used in combination with the lenses recommended, their very good image quality and low weight make them an extremely useful addition to the lens range for **Contax** SLR cameras.

Cat. No. of lens:10 43 3110 43 30Number of elements:67Number of groups:54Relative aperture:Reduction of lens aperture set by a factor of 2Increase in focal length:2x2xNegative format:24 x 36 mm24 x 36 mmMount:Bayenet mount:The metering at full aperture or in stopper

Mount: Bayonet mount, TTL metering at full aperture or in stopped-down position.

Spectral range: Visible spectrum Visible spectrum

Focusing range: Visible spectrum Visible spectrum Focusing range: No major chages. See lens used. No major chages. See lens used.

Distance between first and last lens vertex: 33.6 mm 51.8 mm Weight: approx. 250 g approx. 300 g



Possibilities of combining Carl Zeiss lenses with **Mutar**® converters for use with the **Contax**® SLR camera system

Lens	Mutar® I , 2x, T* no. 10 43 31	Mutar ® II, 2x, T* no. 10 43 30
15 mm Distagon ® f/3.5	2	3
16 mm F-Distagon® f/2.8	2	3
18 mm Distagon® f/4	2	3
21 mm Distagon® f/2.8	2	3
25 mm Distagon® f/2.8	2	3
28 mm Distagon® f/2	2	3
28 mm Distagon® f/2.8	2	3
35 mm Distagon ® f/1.4	2	3
35 mm Distagon® f/2.8	2	3
35 mm PC-Distagon® f/2.8	2	3
45 mm Tessar® f/2.8	1	3
50 mm Planar® f/1.4	1	3
50 mm Planar ® f/1.7	1	3
60 mm Makro-Planar® f/2.8	1*	3
60 mm Makro-Planar® C f/2.8	1*	3
85 mm Planar® f/1.2	1	3
85 mm Planar® f/1.4	1	3
85 mm Sonnar® f/2.8	1	3
100 mm Planar® f/2	1	2
100 mm Sonnar ® f/3.5	1	3
100 mm Makro-Planar® f/2.8	1*	3
100 mm S-Planar® f/4	3	3
135 mm Planar® f/2	1	2
135 mm Sonnar® f/2.8	2	1
180 mm Sonnar® f/2.8	2	1
200 mm Aposonnar® f/2	2*	1
200 mm Tele-Tessar® f/3.5	1	3
200 mm Tele-Tessar® f/4	2*	1
300 mm Tele-Apotessar® f/2.8	2	1
300 mm Tele-Tessar® f/4	2*	1
28-85 mm Vario-Sonnar ® f/3.3-4	1	3
35- 70 mm Vario-Sonnar® f/3.4	1	3
35-135 mm Vario-Sonnar ® f/3.3-4.5	2**	3
40-80 mm Vario-Sonnar® f/3.5	1	3
70-210 mm Vario-Sonnar® f/3.5	2	3
80-200 mm Vario-Sonnar® f/4	2	3
500 mm Mirotar® f/4.5	2	1
1000 mm Mirotar® f/5.6	2	1

- 1. Recommended combination
- Possible combination but with optical limitations
- 3. Combination not possible for mechanical reasons
- * When used for extreme close-up photography or macrophotography, minor vignetting can occur.
- ** Not to be recommended because of vignetting



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Subject to change.