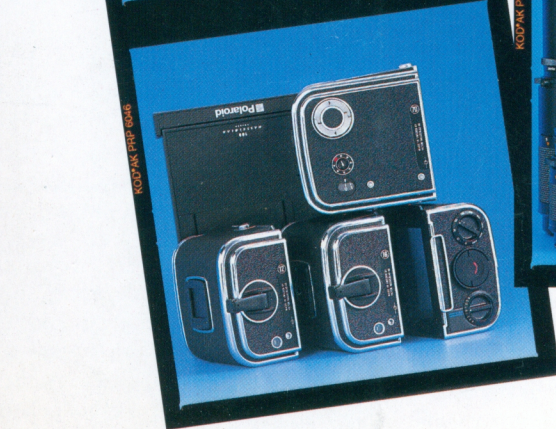
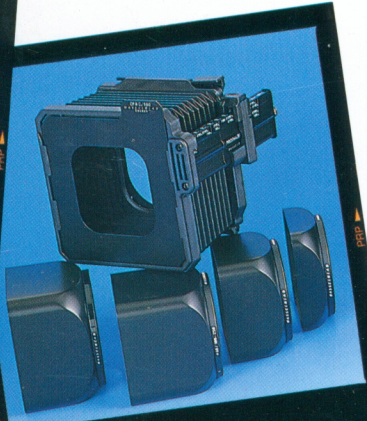
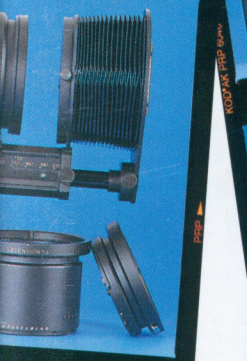
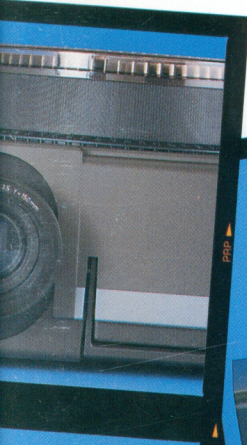
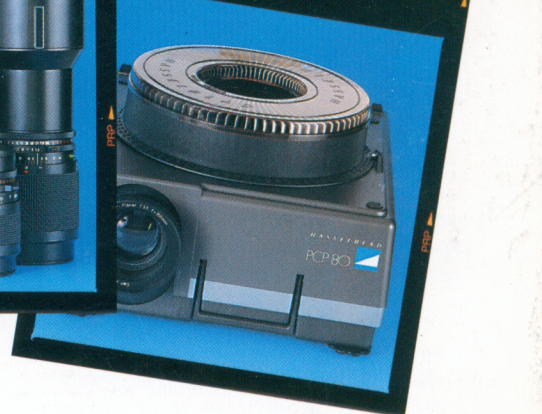
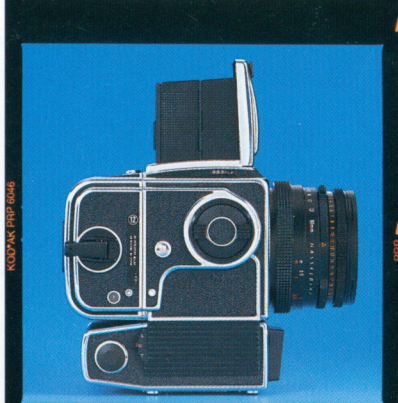


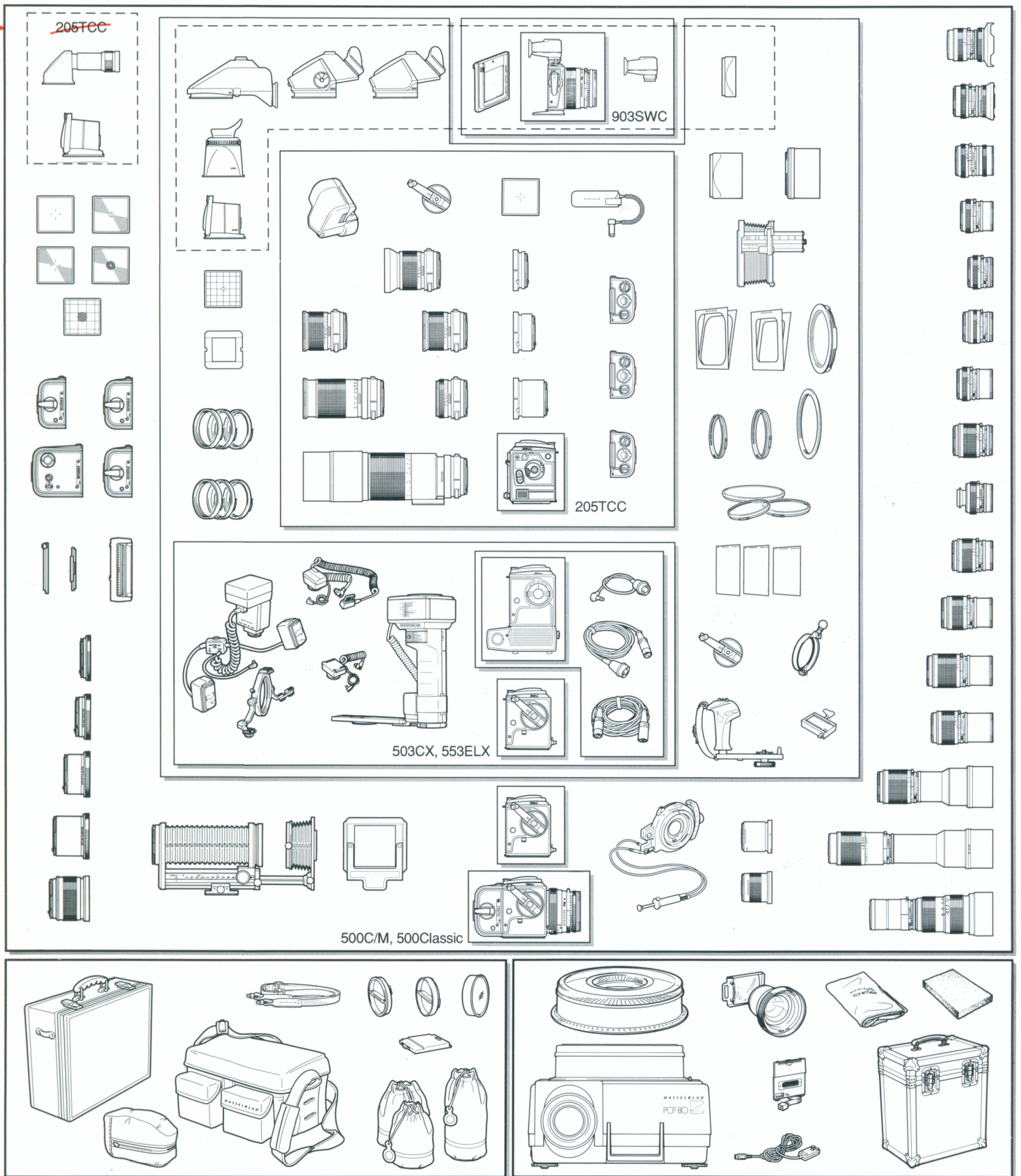
# H A S S E L B L A D



PRODUCT  
CATALOG  
1994







## HASSELBLAD – the largest medium format camera system

The system overview places the top model in the center. 205TCC in the central box is a "system in the system" but still stays within the total Hasselblad system.

The FE (former TCC) lenses and the TCC magazines are active parts of the 205TCC metering system, but can still be used on all Hasselblad SLR models without restrictions.

Most of the accessories within the Hasselblad system can be used on the 205TCC with only a few limitations to the TCC-functions. 205TCC and its accessories are marked with a double blue line and the model designation "TCC", "FE" or "E".



# *The most versatile*

*The unsurpassed span of the Hasselblad system is based on the five camera models 500 Classic, 503CX, 553ELX, 205TCC and 903SWC, the 22 interchangeable lenses, the complete range of film magazines and the elaborated line of other accessories such as the shift converter PC-Mutar 1.4x, the flash unit Proflash 4504, the meter prism viewfinder PME5, the perspective control projector PCP80 etc., etc.*

**500 Classic** – *a complete Hasselblad with all you need – the economy alternativ; foundation of and budget entrance to the Hasselblad system. Fully mechanical – independent of batteries and always ready. For you, who prefer to make all the settings from beginning to end. 500C/M camera body, Zeiss Planar CF 2.8/80mm lens and A12 film magazine.*

**503CX** – *complete flash control at all shutter speeds with TTL/OTF flash metering system, which meters off the film. Electronic, yet fully mechanical and battery free thanks to power supply from the flash unit. Acute-Matte\* focusing screen for the brightest possible viewfinder image.*

**553ELX** – *motorized for rapid sequences (1.2 frames/sec), full flash control and remote release operation. Chiefly for your studio, but also when you can not or will not stay by the camera. Flash control independent of motor batteries thanks to separate power supply from the flash unit. Motor power from standard size AA batteries; twin-level battery check. Large mirror and Acute-Matte\* focusing screen for brightest full size viewfinder image with all CF-lenses.*

**205TCC** – *total exposure control with aperture priority, spotmeter, four selectable operating modes, automatic flash mode and programming mode. Viewfinder display with complete information. First medium format camera with built-in automatic zone exposure compensation but also full manual control. Sequence operation (1.3 frames/sec) with attacheable winder.*

**903SWC** – *uncompromizing wide angle designed for the famous Zeiss Biogon 4.5/38mm lens. Angle of view 90° diagonally, undistorted full 6 × 6 cm image size, remarkable detail definition and depth-of-field from 0.3m to ifinity – hence you have to give up lens interchangeability.*

*Then there is the new eye-level prism viewfinder PM 90 for “straight-on” viewing and the Converter 2XE teleconverter that doubles the range of focal lengths, also for FE lenses.*



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The Hasselblad 205TCC is the most advanced model in the Hasselblad system. It combines a traditional construction with an exclusive exposure metering system. A precision spot metering system supported by modern digital computer technology controls the operation of the focal plane shutter at speeds of between 16 s and 1/2000 s. The metering zone of the spot meter represents 1% of the image area and the metering cell is completely protected from interference from extraneous light. The metering system has a range of 20 EV steps.

The Hasselblad 205TCC offers the user a choice of modes, some of which can be individually pre-programmed. Three modes – Automatic, Differential and Zone – work with aperture preselection and automatic shutter speed. A fourth mode, Manual, is connected directly to the meter. Data concerning the exposure and mode being used is conveniently presented as a Liquid Crystal Display (LCD) in the viewfinder without interfering with the image itself. The Acute-Matte\* focusing screen shows the spot meter's metering zone and gives a viewfinder image of unsurpassed brilliance and definition. Replace the winding crank with a winder and the 205TCC is transformed into a motorized camera for shooting sequences of up to 1.3 frames/s.

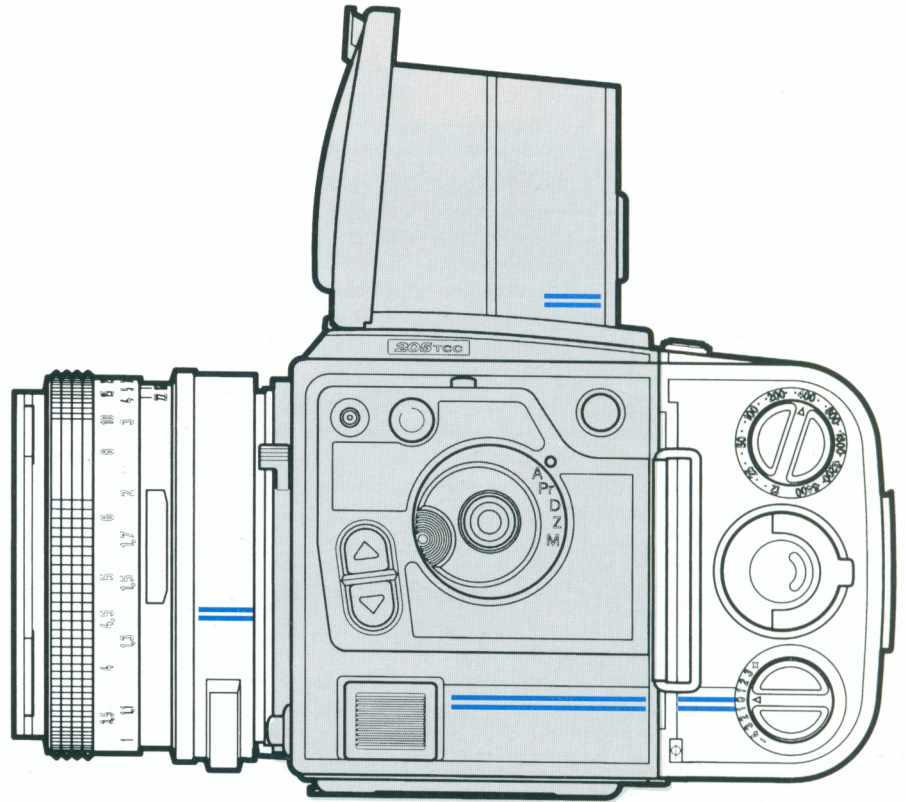
The Hasselblad 205TCC also gives full control of flash units adapted to SCA 300 or SCA 500 flash systems, such as the Hasselblad Proflash 4504. It meters the light reflected from the film plane (TTL/OTF) when using a flash and interrupts the flash when the right exposure level has been reached. The camera body is marked with a double blue line on the left-hand side. All accessories similarly marked may be combined with the 205TCC making full use of all the camera's automatic functions. Most of the other accessories in the system can also be used with the 205TCC, but they may not allow full use of the camera's automatic functions.

The metering system operates on a 6 V PX28 battery in a battery cassette built into the camera body. An external battery cassette for four 1.5 V AA-type (LR6) alkaline batteries is available for use when working in particularly difficult conditions.

The camera body, lenses and film magazines are delivered separately.

The Hasselblad 205TCC camera body with automatic spot meter exposure and choice of operating modes. Automatic or manual focal plane shutter with manual setting of shutter speeds B, 1 s– 1/2000 s with half-stops and C mode; automatic, continuously variable shutter speeds 16 s– 1/2000 s, interchangeable viewfinders and focusing screens, interchangeable winding crank. Tripod plate with 1/4" tripod thread.

\* Acute-Matte designed by MINOLTA



10405  
10413

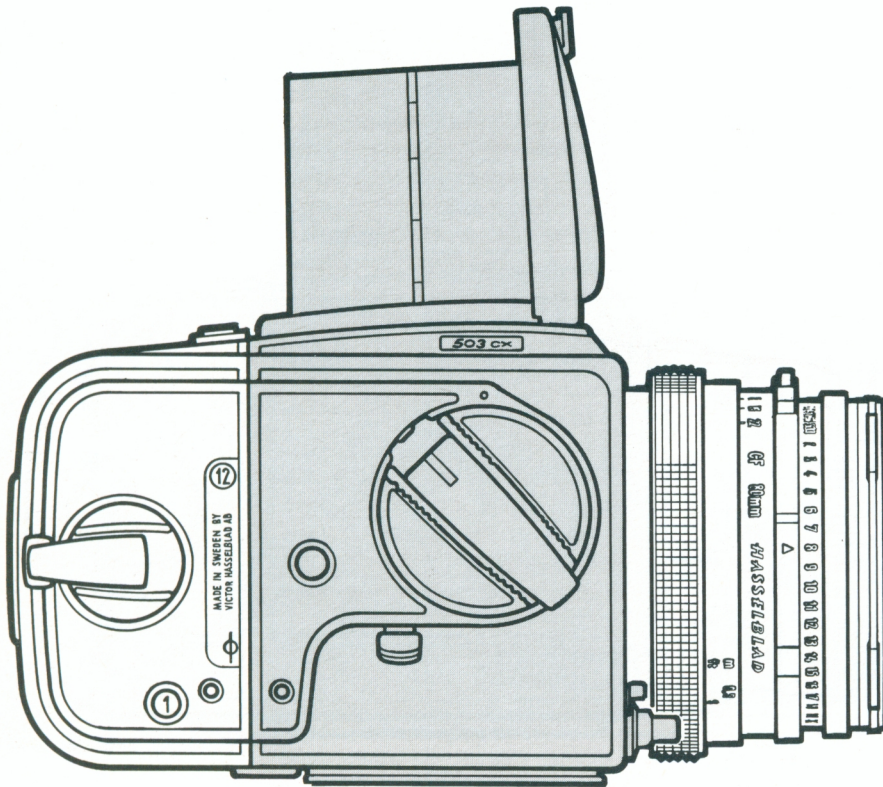
## HASSELBLAD 205TCC CAMERA BODY

The camera body is available with chrome or black trim, and comes without lens or film magazine. Weight: 1 lb 10 oz (750 g). (Battery not included)

- |  |   |
|--|---|
| <p><b>10405</b> 205TCC camera body, chrome, supplied with the following equipment:</p> <ul style="list-style-type: none"> <li>44083 Winding crank E</li> <li>42317 Focusing hood E</li> <li>42167 Acute-Matte* Focusing screen TCC</li> <li>59110 Standard strap</li> <li>51438 Front protective cover</li> <li>51063 Rear protective cover</li> </ul> | <p><b>10413</b> 205TCC camera body, black, supplied with the same equipment as the 10405, but with the black-trim focusing hood E, 42325.</p> |
|--|---|



## 2 Hasselblad 503CX



10026  
10172

The Hasselblad 503CX single-lens reflex camera is a further step in the development of the basic 500C camera around which the Hasselblad system has been built.

The Hasselblad 503CX is a mechanical camera, with one exception – a dedicated flash sensor system (TTL/OTF) which automatically controls the flash by measuring the light reflected from the film plane. The result is perfect flash pictures regardless of the lens, filter, extension tube or bellows combination used. The sensor system is powered by the flash batteries and requires no internal battery. The working range of the sensor is ISO 16 through ISO 1000. The Hasselblad Pro-flash (see page 19) has been developed for the camera's flash metering system. Other flash units can be dedicated to the camera using an adapter for either the SCA 300 or SCA 500 flash system.

The camera body is coated internally with light-absorbing Palpas, which effectively prevents extraneous light from reaching the negative and reducing its contrast values.

The viewfinder and focusing screens are interchangeable. The Acute-Matte focusing screen is standard equipment and provides a superbly sharp and bright image.

The camera body, lenses and film magazines are delivered separately.

The Hasselblad 503CX camera body has interchangeable viewfinders and focusing screens and an interchangeable winding crank for film advance and shutter cocking. It incorporates a system to prevent unintentional double exposure. It also has a pre-release mode, a rail for accessories such as the spirit level, and a quick-coupling plate with a 1/4" tripod thread for attachment of the camera to a tripod.

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### HASSELBLAD 503CX CAMERA BODY

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The camera body is available with chrome or black trim and is supplied without a lens or film magazine. Weight: 1 lb 5 oz (610 g)

**10026 503CX camera body, chrome,** supplied with the following equipment:

- 44040 Winding crank 1
- 42315 Focusing hood, chrome
- 42165 Acute-Matte focusing screen
- 59110 Standard strap
- 51438 Front protective cover
- 51063 Rear protective cover

**10172 503CX camera body, black,** supplied with the same equipment as the 10026, but with a black-trim focusing hood, 42323.



The Hasselblad 553ELX is a single-lens reflex camera. Its built-in motor advances the film automatically and cocks the shutter after each exposure, making it possible to take as many as 1.2 pictures/s. The camera can be fitted with release cords in different designs and lengths. The camera operates on five AA type (LR6) 1.5 V alkaline batteries for up to 4,000 exposures before replacement is necessary, or nickel-cadmium batteries for approx. 1,000 exposures per charge. There is a built-in, two-level battery power indicator for the alkaline batteries.

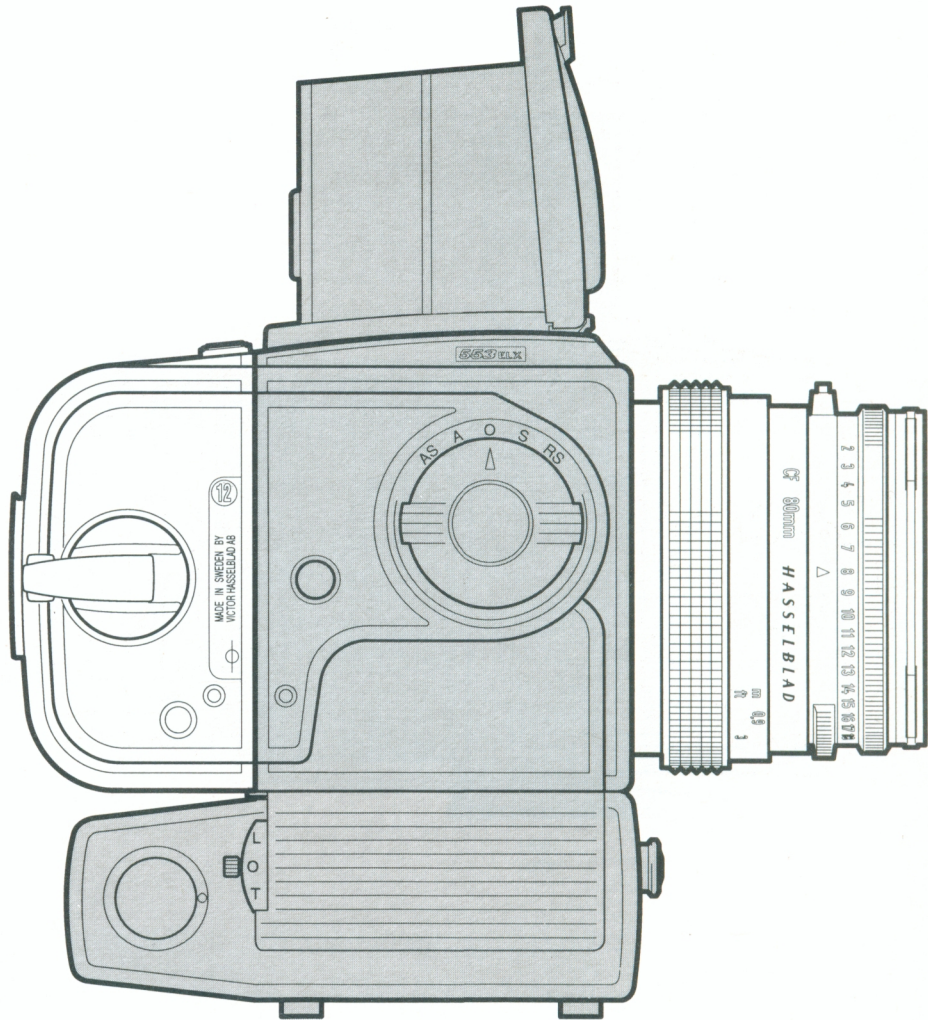
The Hasselblad 553ELX has a built-in dedicated flash sensor system (TTL/OTF) which automatically controls the flash by measuring the light reflected from the film plane. The result is perfect flash pictures regardless of the lens, filter, extension tube or bellows used. The working range of the sensor is ISO 16 through ISO 1000.

The flash unit connection is the same as for the 503CX.

The camera's mirror is entirely non-vignetting with all lenses. The Acute-Matte focusing screen is standard equipment and provides an especially bright viewfinder image with high resolution.

The camera body, interchangeable lenses and film magazines are delivered separately.

The Hasselblad 553ELX camera body has interchangeable viewfinders and focusing screens. There is an accessory rail and release sockets for attachment of special accessories to the camera body. A quick-coupling plate with a 1/4" tripod thread for attachment of the camera to a tripod.



## HASSELBLAD 553ELX CAMERA BODY

The camera body is available with chrome or black trim, and is supplied without a lens or film magazine. Weight (incl. 5 batteries): 2 lbs 12 oz (1240 g). (Camera supplied without batteries)

10067  
10221

**10067 553ELX camera body, chrome,** supplied with the following equipment:

- 42315 Focusing hood, chrome
- 42165 Acute-Matte focusing screen
- 51438 Front protective cover
- 51063 Rear protective cover
- 46140 Carrying strap
- 56111 Fuses (2)
- 46175 Socket cap
- 46116 Release button
- 46043 Release cord FK 30

**10221 553ELX camera body, black,** supplied with the same equipment as the 10067 but with a black-trim focusing hood, 42323.



## 4 Hasselblad 903SWC

The Hasselblad 903SWC, a specialized camera, differs from the other cameras in the Hasselblad system in that the lens is a permanently attached, wide-angle 38 mm f/4.5 Zeiss Biogon CF with a 90° diagonal angle of view.

Characteristic of the Biogon lens is its high resolution and the possibility of practically distortion free enlargements.

The uncompromising design, with a comparatively short distance between the lens and the film plane, calls for an optical viewfinder attached to the top of the camera body. A spirit level, visible in the viewfinder screen, is invaluable for wide-angle photography.

The spirit level is also visible from the exterior. The lens scales can be read in an enlarged section of the viewfinder image. The camera body, and film magazines are sold separately.

The Hasselblad 903SWC camera body with permanently attached lens has an optical viewfinder with a spirit level, a shutter release on top of the camera body, and a crank for film advance and shutter cocking. A quick-coupling plate with a 1/4" tripod thread facilitates attachment of the camera to a tripod.

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### HASSELBLAD 903SWC CAMERA BODY

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The camera body is supplied with a fixed lens and a viewfinder, but without a film magazine. Available with chrome or black trim.  
Weight: 2 lb 2 oz (970 g).

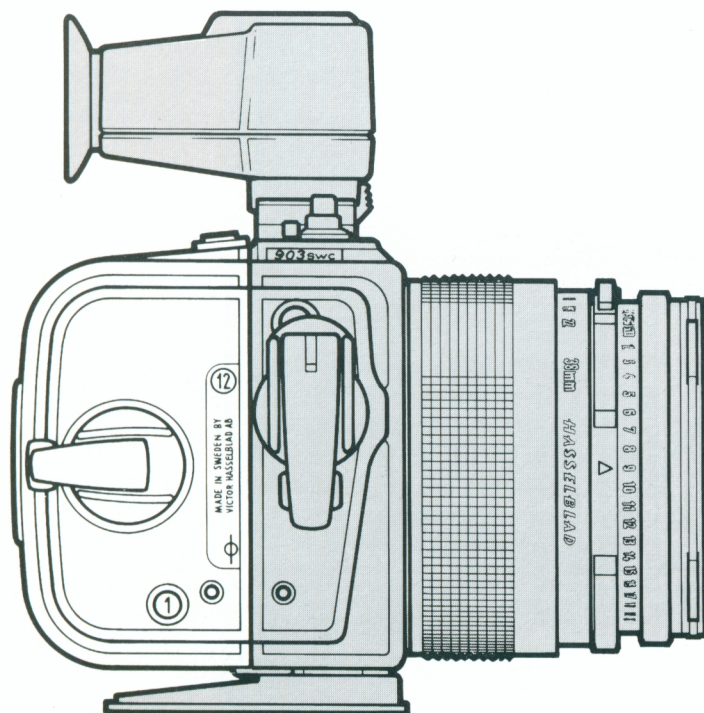
**10052 903SWC camera body, chrome**, supplied with the following equipment:

- 52036 Viewfinder SWC
- 59110 Standard strap
- 51643 Front lens cap Ø 60
- 51063 Rear protective cover

**10201 903SWC camera body, black**, supplied with the same equipment as the 10052.

#### Zeiss 38 mm Biogon CF f/4.5

Max. aperture	f/1:4.5
Focal length	38 mm
Diaphragm	f/4.5-22
Angle of view diagonal	90°
horizontal	72°
No. of elements	8 T*
Focusing range	11 3/4" (0.3 m) -∞



10052  
10201

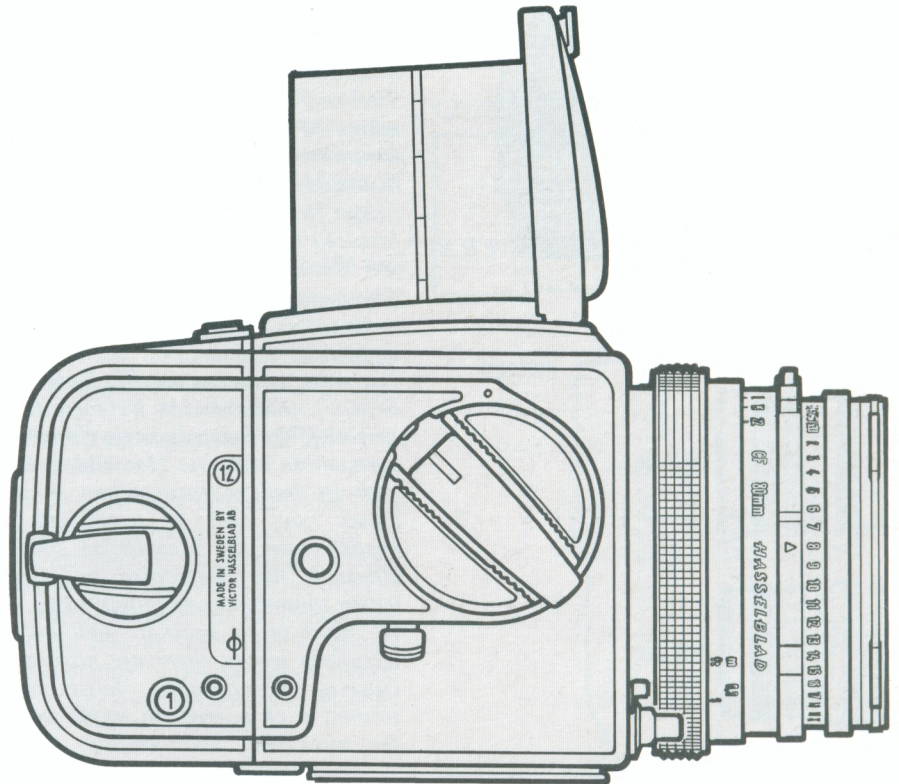


The Hasselblad 500 Classic is a single-lens reflex camera which, in its basic form, consists of the 500C/M camera body, a Planar CF 80 normal lens and an A12 2 1/4 x 2 1/4" (6 x 6 cm) format film magazine. The camera is supplied complete.

The 500 Classic incorporates a focusing screen with grid and microprism, and a collapsible focusing hood with a fine-focus magnifier which enlarges the image 5 times. Other features are an interchangeable winding crank which advances the film and cocks the shutter simultaneously, a warning system to prevent unintentional double exposure, a pre-release mode and an accessory rail. A quick-coupling plate with a 3/8" tripod thread facilitates attachment of the camera to a tripod.

Most of the accessories in the comprehensive Hasselblad system may be used with the Hasselblad 500 Classic.

This is a rugged and durable, fully mechanical camera. Reliable, easy to use and with the Hasselblad system guarantee of non-obsolence, it is the ideal introduction to the entire Hasselblad system.



## HASSELBLAD 500 Classic

The Hasselblad 500 Classic is available with chrome or black trim, and is supplied complete with a lens and film magazine.

Weight: 3lbs 5 oz (1494 g).

**10022 500C/M camera body, chrome,** incl. 42315 focusing hood, chrome, 42250 focusing screen with grid and microprism, 44040 winding crank, and 59110 standard strap.

**20029 Zeiss Planar CF f/2.8 80 mm**

**30074 Film magazine A12, chrome**

51643 Front lens cap

**10170 500C/M camera body, black,** incl. 42323 focusing hood, black, 42250 focusing screen with grid and microprism, 44040 winding crank, and 59110 standard strap.

**20029 Zeiss Planar CF f/2.8 80 mm**

**30147 Film magazine A12, black**

51643 Front lens cap

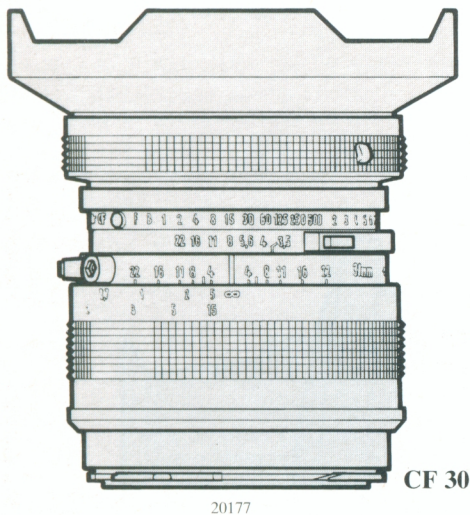
## HASSELBLAD 500C/M CAMERA BODY

**10022 500C/M camera body, chrome,** incl. 42315 focusing hood, chrome; 42161 ground glass focusing screen; 44040 winding crank and 59110 standard strap.

**10170 500C/M camera body, black,** incl. 42323 focusing hood, black; 42161 ground glass focusing screen; 44040 winding crank and 59110 standard strap.

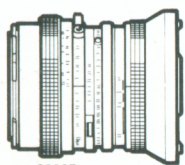


## 6 CF Lenses



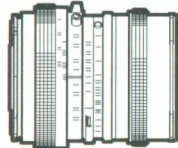
20177

CF 30



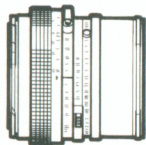
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CF 40



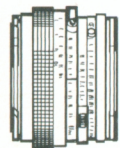
20046

CF 50



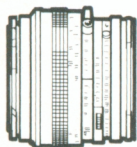
20207

CF 60



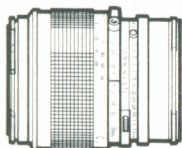
20029

CF 80



20126

CF 100



20061

CF 150

A basic camera is often fitted with a normal 80 mm f/2.8 Planar lens. However, the Hasselblad photographer has a choice of 16 different focal lengths from 30 to 500 mm. By using the Hasselblad teleconverter, which doubles the focal length of the lens, the range is increased to 1000 mm. The newly developed Hasselblad shift converter can adjust the lens perspective  $\pm 16$  mm, to avoid vertical distortion. With the exception of the zoom lens, Hasselblad lenses are made exclusively by Carl Zeiss of Germany.

All Hasselblad lenses are quality controlled and scrutinized by state-of-the-art testing equipment. Lens data sheets are available from Hasselblad distributors. The test results report on the measurements of three vital factors for lens performance: resolution (MTF diagram), distortion, and light fall-off across the image field. Hasselblad lenses are manufactured with a precision usually reserved for scientific instruments.

There are two Hasselblad lens series. The main series, the CF lenses, incorporates integral leaf shutters.

The other series is the FE lenses (former F/TCC) characterized by their high lens speeds. These lenses have no shutter and are compatible with the Hasselblad 205TCC, with its built-in focal plane shutter. FE lenses may also be used with earlier models from the Hasselblad 2000 series, although the electronics built into the lenses cannot be used in that case.

In addition to normal, wide-angle, and telephoto lenses, there are also lenses for close-up photography, lenses with extremely high correction levels, and a lens for ultraviolet photography.

**Hasselblad CF lenses** have comfortable, ergonomically designed grip rings and controls. The lenses are treated with up to six layers of T\* anti-reflex coating. The built-in leaf shutters in this series are synchronized for electronic flash at all shutter speeds, 1–1/500 s. The CF lens also features a manual and automatic diaphragm stop down, a distance scale in feet and meters, a depth-of-field scale and an exposure value scale. The shutter speed and aperture rings operate independently but can be cross-coupled with a button.

### CF 30-60mm Wide-angle lenses

Distagon lenses with angles of view ranging from the extreme 180° "fish-eye" lens to a lens with a 66° diagonal angle of view, which possesses many of the characteristics of a standard lens.

#### 20177 Zeiss Distagon CF f/3.5 30 mm

This Hasselblad "fish-eye" lens covers the entire  $2\frac{1}{4} \times 2\frac{1}{4}$ " field with corner-to-corner sharpness, even with the lens wide open. Supplied in a leather case with four filters, a yellow 50636, an orange 50644, a conversion filter for using daylight-type film in artificial light 50652 and a neutral glass 50660.

#### 20037 Zeiss Distagon CF f/4 40 mm

This optic has an extreme wide-angle effect with an 88° diagonal angle of view. It has a compact design and a floating lens element (FLE) for optimum quality in the close-up focusing range. The  $\varnothing 93$  lens shade also serves as a filter holder.

#### 20046 Zeiss Distagon CF f/4 50 mm

A modern wide-angle lens with a floating lens element (FLE) for superbly sharp images even in close-up work. The 75° diagonal angle of view gives a moderate wide-angle effect.

	Distagon CF 30	Distagon CF 40	Distagon CF 50	Distagon CF 60	Planar CF 80
Max.aperture	3,5	4	4	3,5	2,8
Focal length	30 mm	40 mm	50 mm	60 mm	80 mm
Diaphragm	3.5–22	4–22	4–32	3.5–22	2.8–22
Angle of view, diag./horizontal	180°/112°	88°/67°	75°/57°	66°/50°	52°/38°
No. of elements	9 T*	11 T*	9 T*	7 T*	7 T*
Focusing range	1 ft–∞ (0.3 m)	1 ft 7 in–∞ (0.5 m)	1 ft 7 in–∞ (0.5 m)	2 ft–∞ (0.6 m)	3 ft–∞ (0.9 m)
Weight	3 lbs 14 oz (1365 g)	2 lbs 1/4 oz (915 g)	1 lb 12 oz (800 g)	1 lb 8 oz (680 g)	1 lb 2 oz (510 g)
Length	4 5/8 in (117.5 mm)	4 in (102 mm)	3 3/4 in (95 mm)	3 1/4 in (83 mm)	2 9/16 in (65 mm)
Accessories included	<sup>1)</sup>	<sup>2)</sup>			
Front lens cap	51659	51654	51643	51643	51643
Rear lens cap	50377	50377	50377	50377	50377
Lens pouch		58432	58408	58416	58408
Filters	$\varnothing 26^1)$	$\varnothing 93$	$\varnothing 60$	$\varnothing 60$	$\varnothing 60$
Close-up lenses (Proxars)			$\varnothing 60$	$\varnothing 60$	$\varnothing 60$
Lens shades		40693 <sup>2)</sup>	40668	40668	40670
Professional lens shades		40738/40726	40738/40676	40738/40676	40738/40676

<sup>1)</sup>Supplied in case 58157 and with all  $\varnothing 26$  filters. <sup>2)</sup> Supplied with lens shade  $\varnothing 93/40 40693$



**20207 Zeiss Distagon CF f/3.5 60 mm**

This optic has the advantages of the wide-angle lens – short lens-to-subject distance and wide depth of field, without its 66° diagonal angle of view yielding a marked wide-angle effect.

**CF 80 and 100 mm Normal lenses**

*All-purpose lenses with normal focal lengths. The Planar lenses combine relatively large apertures and high resolution with compact design and low weight.*

**20029 Zeiss Planar CF f/2.8 80 mm**

The normal Hasselblad lens. A classic lens design yielding outstanding performance. The f/2.8 facilitates photography in poor light and ensures a bright viewfinder image.

**20126 Zeiss Planar CF f/3.5 100 mm**

This lens, specially designed for Hasselblad, provides an optimum relationship between lens speed and focal length in a top-performance lens.

Superb distortion correction makes this lens ideal for architectural, copying and similar applications.

**CF 150-500 mm Telephoto lenses**

*The Sonnar and Tessar lenses combine long focal length with compact design. Superbly balanced lenses, light enough to be used hand-held at fast shutter speeds.*

**20061 Zeiss Sonnar CF f/4 150 mm**

A lens with a moderate but still unmistakable telephoto effect – shallow depth of field and compressed perspective. A popular lens for portraits and much more.

**20072 Zeiss Sonnar CF f/4 180 mm**

A lens with a focal length suitable for demanding portrait work or commercial photography. The compact lens with its relatively long focal length, has remarkable qualities over the entire focusing range – even at maximum aperture.

**20080 Zeiss Sonnar CF f/5.6 250 mm**

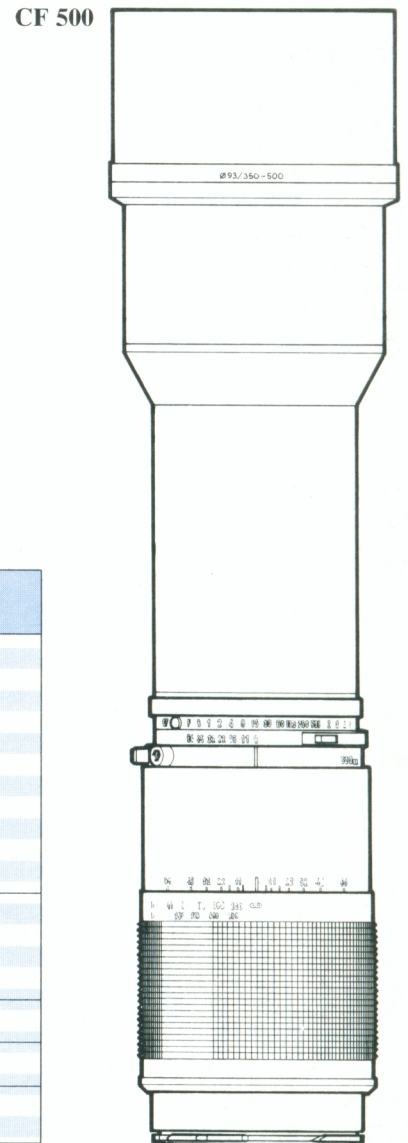
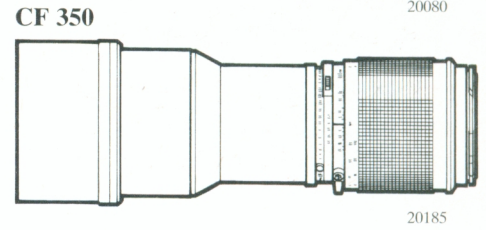
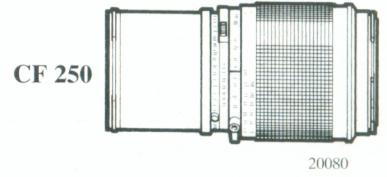
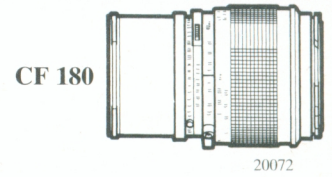
True telephoto effect combined with compact design for ease of handling. Excellent for tightly framed shots without crowding the subject. Its shallow depth of field can be used to throw an extraneous background out of focus.

**20185 Zeiss Tele-Tessar CF f/5.6 350 mm**

In relation to its focal length, a light weight, compact telephoto lens. The nature photographer's favorite lens for hand-held work. Supplied in a leather case with a shoulder strap.

**20088 Zeiss Tele-Apotessar CF f/8 500 mm**

The ideal lens for long distance work. The Tele-Apotessar has superior correction for chromatic aberrations. Its internal focusing system allows the lens to focus to the shortest lens-to-subject distance (5 m) without the length of the lens or the center of gravity changing. It features a rail for tripod connection. Supplied in a leather case with a shoulder strap.



Planar CF 100	Sonnar CF 150	Sonnar CF 180	Sonnar CF 250	Tele-Tessar CF 350	Tele-Apotessar CF 500
3.5	4	4	5.6	5.6	8
100 mm	150 mm	180 mm	250 mm	350 mm	500 mm
3.5–22	4–32	4–32	5.6–45	5.6–45	8–64
42°/30°	30°/21°	24°/17°	17°/12°	12.8°/9.0°	9.0°/6.4°
5 T*	5 T*	5 T*	4 T*	4 T*	5 T*
3 ft–∞	4 ft 6 in–∞	5 ft–∞	8 ft 6 in–∞	15 ft–∞	16 ft 5 in–∞
(0.9 m)	(1.4 m)	(1.55 m)	(2.5 m)	(4.5 m)	(5 m)
1 lb 5 1/4 oz	1 lb 11 1/4 oz	2 lbs 5 3/4 oz	2 lbs 3 1/4 oz	2 lbs 15 1/2 oz	3 lbs 15 3/4 oz
(605 g)	(785 g)	(1075 g)	(1000 g)	(1350 g)	(1810 g)
2 15/16 in	4 in	5 1/16 in	6 3/16 in	8 15/16 in	12 15/16 in
(75 mm)	(101 mm)	(128 mm)	(164 mm)	(227 mm)	(329 mm)
				1)	2)
51643	51643	51643	51643	51654	51654
50377	50377	50377	50377	50377	50377
58408	58416	58424	58424		
Ø 60	Ø 60	Ø 60	Ø 60	Ø 93	Ø 93
Ø 60	Ø 60	Ø 60	Ø 60		
40673	40673	40673	40673	40703 <sup>1)</sup>	40703 <sup>2)</sup>
40738/40676	40738/40676	40738/40676	40738/40676	40738/40726	40738/40726

<sup>1)</sup> Supplied with case 58378 and with lens shade Ø 93/350–500 40703 <sup>2)</sup> Supplied with case 58351 and with lens shade Ø 93/350–500 40703



## 8 CF Lenses

### CF Special-purpose lenses

The special-purpose Makro-Planar lenses are designed for optimum performance during close-up photography. The UV-Sonnar lens is designed for photography in the ultraviolet part of the spectrum.

#### 20134 Zeiss UV-Sonnar CF f/4.3 105 mm

A special-purpose lens for photography within the ultraviolet part of the spectrum. It is sensitive to radiation from 215 nm to 700 nm (2150-7000 Å) – from short-wave ultraviolet through visible light to the initial part of the infrared range. The lens can be pre-focused for ultraviolet in normal light without requiring refocusing for use in the UV-range.

#### 20053 Zeiss Makro-Planar CF f/4 120 mm

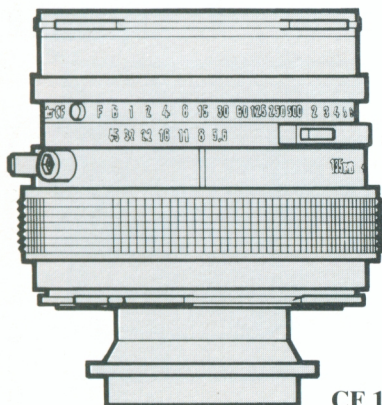
A special-purpose lens for close-up photography. Its relatively large maximum aperture is important when the lens is used at long extensions, where light fall-off would otherwise make it difficult to focus the lens.

#### 20118 Zeiss Makro-Planar CF f/5.6 135 mm

A special-purpose lens used in conjunction with a Hasselblad automatic bellows or a variable extension tube. It cannot be attached directly to any camera. Primarily a close-up lens, it also has many other applications. At the longest bellows extension of 8" (202 mm) the lens gives a 1:1 scale of reproduction. The shortest extension of 2.5" (63.5 mm) focuses to infinity.

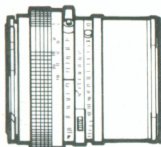
#### 20193 Zeiss Sonnar CF Superachromat (Sa) f/5.6 250 mm

A special purpose lens with unique design gives perfect chromatic correction without sacrificing correction for distortion or other aberrations. An ideal lens for scientific applications, especially multi-spectral photography, it is also useful in many other fields. Spectral range of 400 nm to 1000 nm.



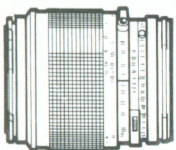
20118

CF 135



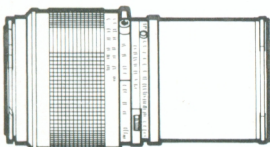
20134

CF 105



20053

CF 120



20193

CF 250

	UV-Sonnar CF 105	Makro-Planar CF 120	Makro-Planar CF 135	Sonnar CF 250 Sa
Max.aperture	4.3	4	5.6	5.6
Focal length	105 mm	120 mm	135 mm	250 mm
Diaphragm	4.3-32	4-32	5.6-45	5.6-45
Angle of view, diag./horizontal	40°/29°	37°/25°	32°/23°	17°/12°
No. of elements	7	6 T*	7 T*	6
Focusing range	6 ft-∞ (1.8 m)	2 ft 7 in-∞ (0.8 m)	-	10 ft-∞ (3 m)
Weight	1 lb 10 1/2 oz (750 g)	1 lb 8 1/2 oz (695 g)	1 lb 6 oz (625 g)	2 lbs 2 1/4 oz (985 g)
Length	3 9/16 in (91 mm)	3 7/8 in (99 mm)	3 7/16 in (87 mm)	6 1/4 in (158 mm)
<i>Accessories included</i>				
Front lens cap	51643	51643	51643	51643
Rear lens cap	50377	50377	50571	50377
Lens pouch	58416	58416	58416	58424
Filters	Ø 60	Ø 60	Ø 60	Ø 60
Close-up lenses (Proxars)	Ø 60	Ø 60	Ø 60	Ø 60
Lens shades	40673	40673	40673	40673
Professional lens shades	40738/40676	40738/40676	40738/40676	40738/40676



## FE LENSES (Former F/TCC)

The interactive electronics in Hasselblad FE lenses for the 205TCC connect automatically to the camera's exposure metering system via a databus connection. These are high-speed lenses, which, unlike the CF lenses, do not have their own leaf shutter, and are intended for Hasselblad cameras with a built-in focal plane shutter. FE lenses are distinguishable from an earlier F lens series (see below) by the double blue line on the left-hand side of the f-stop ring, and by the 4-contacts on the bayonet plate. These lenses can also be used with earlier models from the 2000 series, but camera cannot utilize the potential of the metering system electronics.

### 20516 Zeiss Distagon FE f/2.8 50 mm

A wide-angle lens with floating elements (FLE) for outstanding performance across its entire focusing range. The shortest lens-to-subject distance is just 12.8" (0.32 m), opening up exciting possibilities for close-up pictures with interesting perspectives.

### 20508 Zeiss Planar FE f/2.8 80 mm

The classic Planar design is the standard lens for the Hasselblad 205TCC. A new design has produced more convenient focusing and a close range limit of only 23.6" (0.6 m).

### 20524 Zeiss Planar FE f/2 110 mm

An excellent alternative to the Planar F/TCC f/2.8 80 mm. The large maximum aperture can be used for shallow depth of field in order to create unfocused background or make use of fast shutter speeds.

### 20532 Zeiss Sonnar FE f/2.8 150 mm

A short telephoto lens with a faster speed than its CF counterpart. A popular choice for portrait photography.

### 20540 Zeiss Tele-Tessar FE f/4 250 mm

A telephoto lens with an unusually high speed for its focal length. An advantage in hand-held shots, allowing work with faster shutter speeds. An ideal lens for sports, nature, and portrait photography.

### 20559 Zeiss Tele-Tessar FE f/4 350 mm

A telephoto lens which is very fast for its focal length. Internal focusing for convenience and unusually short lens-to-subject distance. A quick-coupling plate with a 1/4" tripod thread facilitates attachment to a tripod. It is supplied in a leather case with a shoulder strap.

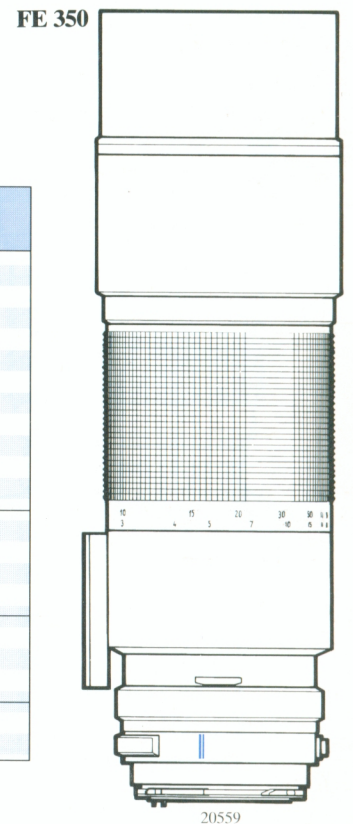
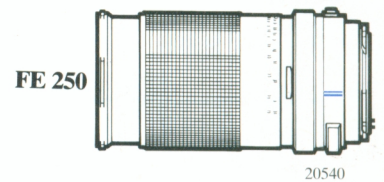
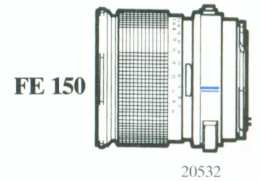
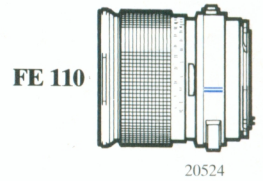
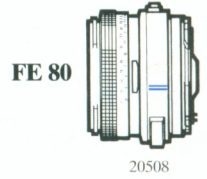
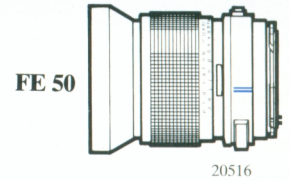
## F LENSES

The earlier series of F lenses, which are optically and mechanically identical to the FE lenses but have no electronics for the metering system, can be used on the 205TCC.

### Hasselblad F lenses:

- 20427 Zeiss Distagon F f/2.8 50 mm (FLE)
- 20419 Zeiss Planar F f/2 110 mm
- 20435 Zeiss Sonnar F f/2.8 150 mm
- 20478 Zeiss Tele-Tessar F f/4 250 mm
- 20486 Zeiss Tele-Tessar F f/4 350 mm

## FE Lenses



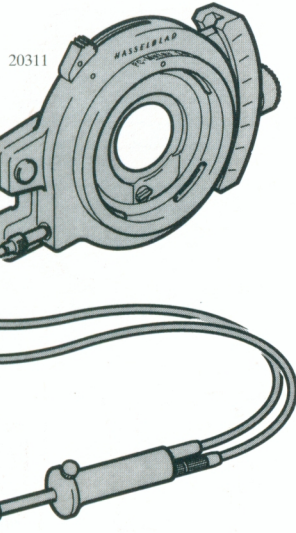
Distagon FE 50 (FLE)	Planar FE 80	Planar FE 110	Sonnar FE 150	Tele-Tessar FE 250	Tele-Tessar FE 350
2.8	2.8	2	2.8	4	4
50 mm	80 mm	110 mm	150 mm	250 mm	350 mm
2.8-22	2.8-22	2-16	2.8-22	4-32	4-32
75°/56°	52°/38°	39°/28°	29°/21°	18°/13°	13°/9°
9 (1 floating) T*	7 T*	7 T*	5 T*	5 T*	8 T*
12 1/2 in-∞ (0.32 m)	2 ft-∞ (0.6 m)	2 ft 6 in-∞ (0.8 m)	4 ft 6 in-∞ (1.4 m)	8 ft 3 in-∞ (2.5 m)	6 ft 3 in-∞ (1.9 m)
2 lbs 11 3/4 oz (1240 g)	15 1/8 oz (430 g)	1 lb 10 3/4 oz (760 g)	1 lb 9 oz (710 g)	2 lbs 1/2 oz (920 g)	4 lbs 6 1/2 oz (2000 g)
4 7/16 in (112 mm)	2 1/2 in (64 mm)	3 7/16 in (87 mm)	3 7/16 in (87 mm)	6 3/16 in (157 mm)	10 5/16 in (262 mm)
1)					2)
51654	51643	51648	51648	51648	51654
50377	50377	50377	50377	50377	50377
58432	58408	58416	58416	58424	
Ø 93	Ø 60 Ø 60	Ø 70	Ø 70	Ø 70	Ø 93
40706 <sup>1)</sup>	40670	40576	40576	40576	40717 <sup>2)</sup>
40738/40726	40738/40676	40738/40676	40738/40676	40738/40676	40738

<sup>1)</sup> Supplied with lens shade Ø 93/50 40706

<sup>2)</sup> Supplied with case 58378 and with lens shade Ø 93/F 350 40717



## 10 Converters and zoom-lens



20605



20303

### 20311 Zeiss PC-Mutar 1.4X Shift Converter

An accessory which solves the familiar problem of vertical distortion in, for example, architectural photography, making it possible to adjust the vertical perspective  $\pm 8$ –16 mm depending on the focal length of the lens in use.

The PC-Mutar is placed between the camera and any lens of your choice that has a focal length of between 40 and 100 mm. The designation 1.4X indicates that the focal length of the lens being used is 1.4 times larger. This means that, in the neutral position, the PC-Mutar can serve as a converter. A double cable release is included to synchronize triggering of both camera and lens.

Suitable for all Hasselblad cameras with interchangeable F, CF and C lenses. It is not advisable to use lenses with longer focal lengths as this will cause vignetting. *When using the PC-Mutar with the 553ELX or earlier EL series models, you will need to fix the cable release adapter 46213 between the cable release and the camera body.*

(See page 20 for details.)

The PC-Mutar is supplied complete with:

- 40751 Double cable release
- 50776 Open-L connector
- 51438 Front protective cover
- 50377 Rear lens cap
- 58459 Protective pouch

### 20605 Hasselblad Converter 2XE

Hasselblad Converter 2XE is a 2X teleconverter that doubles the focal length of the lens it is combined with. It holds the same outstanding optical and mechanical quality as the Hasselblad lenses. Provided with contacts for the data bus in the FE lenses it can without any further arrangements be used on all Hasselblad reflex camera bodies with all Hasselblad C, CF, F and FE lenses except

the Makro-Planar CF 135 mm. The Makro-Planar CF 120 mm lens combined with the Converter 2XE, however, is recommended for use within the macro range only, not at infinity.

Since it doubles the focal length, the Converter 2XE also reduces the aperture with two full f/stops or the EV with two steps. The close-up focus limit of the lens is not affected.

By including the Hasselblad Converter in the equipment the photographer in one stroke doubles the range of available focal lengths.

### 20303 Zeiss Mutar 2X Teleconverter (to be discontinued during 1994)

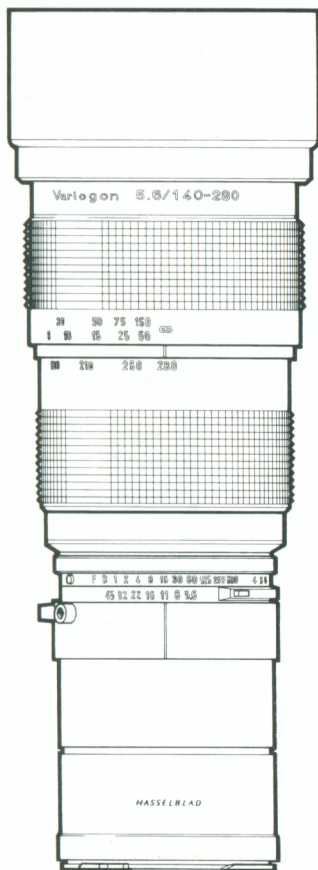
The Mutar 2X generally has the same facilities as the Hasselblad Converter 2XE except for bus contacts and will reduce the range of metering functions when used with an FE lens on the Hasselblad 205TCC.

### 20215 Schneider Variogon CF f/5.6 140–280 mm

The Hasselblad zoom lens has a continuously variable 140–280 mm focal length and a fully synchronized built-in leaf shutter.

The Variogon offers the Hasselblad photographer many new and exciting opportunities for creative photography.

A quick-coupling plate with a 3/8" tripod thread facilitates attachment of the camera to a tripod. It is supplied in a leather case with a shoulder strap.



20215

	PC-Mutar 1.4X Shift Converter	Converter 2XE Teleconverter	Mutar 2X Teleconverter	Variogon CF 140-280
Max.aperture	1)	2)	2)	5.6
Focal length				140–280 mm
Diaphragm				5.6–45
Angle of view, diag./hor.				16–30°/11–22°
No. of elements	5 T*	7 T*	7 T*	17 (multicoating)
Focusing range				8 ft 3 in (2.5 m)–∞ + Macro
Weight	1 lb 1 oz (480 g)	12 1/2 oz (350 g)	14 3/4 oz (420 g)	4 lbs 1 1/4 oz (1850 g)
Length	1 1/2 in (39 mm)	2 3/4 in (70 mm)	3 1/8 in (80 mm)	9 7/16 in (240 mm)
Accessories included				3)
Front lens cap	51438	51438	51438	51462
Rear lens cap	50377	50377	50377	50377
Lens pouch	58459	58408	58408	
Filters				Ø 93
Lens shades				51470 <sup>3)</sup>
Professional lens shades				40738

1) Reduces the maximum aperture of the lens used by one f/stop. 2) Reduces the maximum aperture of the lens used by two f/stops. 3) Supplied with case 58378 and with lens shade 51470



Hasselblad filters are available for both black/white and color photography.

*Light balance filters* for color photography are used to balance color temperature and to correct color quality.

*Polarization filters* can be used with black/white or color film to reduce or eliminate reflections and to increase color saturation, e.g. in sea and sky.

*UV (Haze) filters* absorb UV radiation and reduces blue hue without affecting the colors. They also offer practical protection for the front lens surface.

*Softar and Soft 100 diffusion filters* provide controlled image softening. They are available in three strengths or densities and can be combined for increased effects.

*Neutral density (grey) filters* increase the exposure without further effects on resulting image.

Hasselblad original filters are supplied in sizes to fit the different lens filter mounts and Proshade 6093T. Step-up rings facilitate the use of Ø 60–70 filters on smaller filter mounts.

The filter markings indicate mount size, filter factor, color, and EV reduction, in that order. Certain filters are also marked with the Kodak Wratten designation.

### 41646 Polarization filter Ø 93

Polarization filter for lenses with Ø 93 filter mount. Particularly suitable for use with Proshade 6093T

### 41648 Polarization filter adapter F350

Used for attaching the Polarization filter Ø 93 (41646) to the Tele-Tessar F 350 lens.

### 51705 Gelatin filter mount 6093/75 mm

### 51708 Gelatin filter mount 6093/100 mm

Mounts for using gelatin filters in the Hasselblad Proshade filter slot. See *Proshade 6093T* on page 13. For improved durability, the gelatin filter should be permanently fitted into these mounts. The slot holds four complete filter mounts. Supplied in packs of 5 for two different gelatin filter formats, 75 × 75 mm and 100 × 100 mm.

*Filter adapter rings:*

### 51638 Filter adapter ring Ø 60 – Ø 63

For Ø 63 mm filters (series 8) on 60 mm lens front mounts.

### 41530 Filter adapter Ø 60/67 mm

For standard Ø 67 mm filters on Ø 60 mm lens front mounts.

### 41548 Filter adapter Ø 70/77 mm

For standard Ø 77 mm filters on Ø 70 mm lens front mounts.

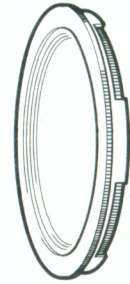
### Filter Ø 26

These filters are intended for use with the 30 mm Distagon CF lens. Engraved data indicates filter factor, color, wavelength limit and exposure value reduction.

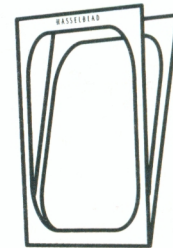
50636	yellow	1.5 × Y50-0.5
50644	orange	3 × Or57-1.5
50652	conversion filter*	2 × B11-1
50660	neutral glass	

All four filters Ø 26 are supplied with the 30 mm CF lens.

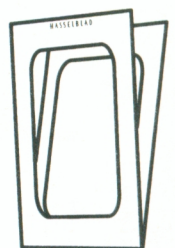
\* for using daylight-type film in artificial light



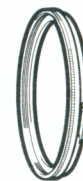
41646



51708



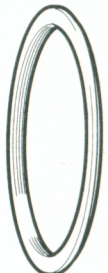
51705



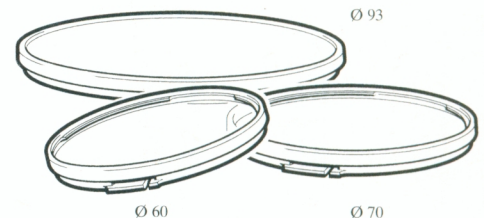
41530



41548



41648



Ø 60

Ø 70



51713



51715



51718

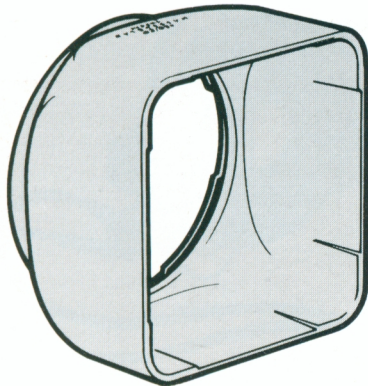
Filter type	Designation		Ø 60 <sup>3)</sup>	Ø 70	Ø 93
Colored filters	1.5 × Y-0.5	Yellow	51586/41586	51306	51365
	3 × G-1.5	Green	51592/41592	51314	51373
	4 × O-2	Orange	51594/41594	51322	51381
	8 × R-3	Red	51597/41597	51330	51403 <sup>1)</sup>
Special-purpose filters	1 × UV-SKY-0	Haze <sup>2)</sup>	41608	51349	51411 <sup>2)</sup>
	8 × Gr-3	Gray	51606/41606		
	3 × Pola-1.5	Pola	51603	51578	41645/51422 <sup>4)</sup>
Light balance filters	1 × CR1.5-0	CR1.5	51614/41614	51357	51420
	1 × CR3-0	CR3	51616/41616		
	1.5 × CR6-0.5	CR6	51619/41619		
	1 × CB1.5-0	CB1.5	51622/41622		
	1 × CB3-0	CB3	51624/41624		
	1.5 × CB6-0.5	CB6	51627/41627		
Softars		I	51670	51527	
		II	51673	51535	
		III	51675	51543	
Soft 100	51713	Soft Light -0 EV	100 × 100 mm		
	51715	Soft Medium -0 EV	100 × 100 mm		
	51718	Soft Heavy -0.5 EV	100 × 100 mm		

<sup>1)</sup> Red filter Ø 93 has designation 6R-2.5. <sup>2)</sup> UV-SKY filter Ø 93 has designation HZ-0. <sup>3)</sup> Filters Ø 60 (except for polarizing filter) will eventually replace the first number in the code number from 5 to 4. <sup>4)</sup> Does not fit Tele-Tessar F 350.



## 12 Lens shades

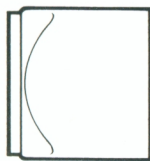
Lens shades shield the lens from extraneous light and give practical protection to the front lens element. The system includes lens shades for a fixed focal length range and the professional lens shades with adjustable compendiums to suit a wide range of lens focal lengths.



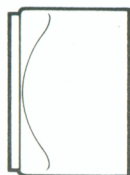
40670



40668



40673



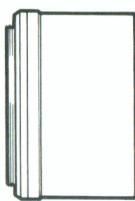
40576



40693



40706



40703



40711



40714

### LENS SHADES FOR CF LENSES

#### 40668 Lens shade Ø 60/38–60

For wide-angle lenses from 38 to 60 mm. Bayonet mount.

#### 40670 Lens shade Ø 60/80

For the normal 80 mm CF and 80 mm F/TCC lenses. Bayonet mount.

#### 40673 Lens shade Ø 60/100–250

For CF lenses with focal lengths from 100 to 250 mm. Bayonet mount.

#### 40693 Lens shade Ø 93/40

For the 40 mm Distagon CF. Supplied with the lens. Also used as a holder for Ø 93 filters.

#### 40703 Lens shade Ø 93/350–500

For the 350 mm Tele-Tessar CF and 500 mm Tele-Apotessar CF. Supplied with these lenses. Also used as a holder for Ø 93 filters. Threaded mount. It also fits the 350 mm and 500 mm Tele-Tessar C lenses and makes it possible to use Ø 93 filters with these lenses instead of Ø 86 filters which have been phased out.

### LENS SHADES FOR F/TCC LENSES

#### 40670 Lens shade Ø 60/80

For the normal Planar F/TCC and CF lenses with an 80 mm focal length. Also suitable for earlier 80 mm F lenses used together with 40711 step-up ring Ø 50–Ø 60. Bayonet mount.

#### 40706 Lens shade Ø 93/50

For the 50 mm Distagon F/TCC. Threaded mount. Supplied with the lens. Also serves as filter holder for Ø 93 filters.

#### 40576 Lens shade Ø 70/110–250

For F lenses in focal lengths from 110 mm to 250 mm. Bayonet mount.

#### 40717 Lens shades Ø 93/F 350

For the 350 mm Tele-Tessar F/TCC. Supplied with the lens. Also used as a filter holder for Ø 93 filters. External threaded mount.

### STEP-UP RINGS

Lens shades and filters for lenses with Ø 60–Ø 70 accessory mounts may also be used on lenses with a smaller accessory mount simply by fitting step-up and filter adapter rings.

#### 40711 Step-up ring Ø 50–Ø 60

For attaching Ø 60 filters and lens shades to lenses with a Ø 50 lens accessory mount (earlier C lenses).

#### 40714 Step-up ring Ø 60–Ø 70

For attaching Ø 70 filters and lens shades to lenses with a Ø 60 lens accessory mount.

See p.11 for filter adapter rings.



## PROFESSIONAL LENS SHADES

An adjustable bellows lens shade with engravings for various focal lengths. Provides highly efficient protection against extraneous light. The collapsible construction saves space in your equipment case.

### 40739 Proshade 6093T

Hasselblad Proshade 6093T can be fitted to all Hasselblad lenses except Distagon CF 30 (20177) by using the adapters 40741, 40744 or 40746. It is compact and easy to handle and the flat folding design saves stowing space. Max extension is approx. 90 mm, easily controlled through conspicuous extension scales. The filter holder accepts glass, gelatin or plastic filters. Folding down bellows for easy access to the filter holder or for viewing without filter.

### 40312 Proshade mask 6093/250

Gives maximum shading effect with Proshade 6093T for Hasselblad Sonnar CF 250 and Sonnar CF 250 Sa lenses.

### 40741 Proshade adapter 6093/Ø 60

For fitting Proshade 6093T to lenses with Ø 60 front mount. The adapter permits two glass filters attached to the internal front bayonet mount. Also used for C lenses (Ø 50) with step-up ring Ø 50-Ø 60 (40711).

### 40744 Proshade adapter 6093/Ø 70

For fitting Proshade 6093T to lenses with Ø 70 front mount.

### 40746 Proshade adapter 6093/Ø 93

For fitting Proshade 6093T to lenses with Ø 93 front mount.

Ø 93 Polarization filter, Soft 100 filters and gelatin filter mounts are available for use with Proshade 6093T. See filter chart, page 11.

## LENS MOUNTING RINGS

Lens shades for the automatic bellows extension, and the macro flash equipment when connecting to CF, F and C lenses with front diameter Ø 50-Ø 70 (see the figure on right). The rings have slots for gelatin filter holder Ø 50-Ø 70.

### 40679 Lens mounting ring Ø 50

For C and F lenses with Ø 50 front mounts.

### 40681 Lens mounting ring Ø 60

For CF lenses with Ø 60 front mounts and for FE 80 mm lenses.

### 40684 Lens mounting ring Ø 63

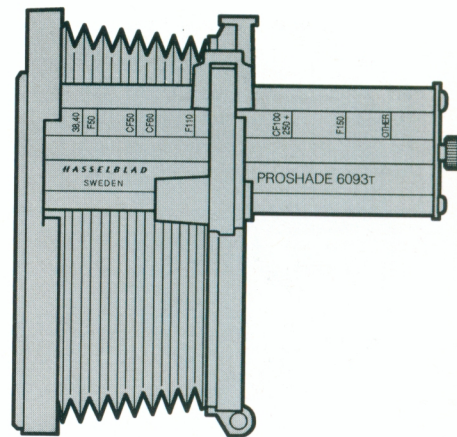
For C lenses with Ø 63 front mounts.

### 40687 Lens mounting ring Ø 70

For F lenses with Ø 70 front mounts.

### 40690 Gelatin filter holder Ø 50-Ø 70

For use with 75x75 mm gelatin filters. Inserted into the slot in the lens mounting ring. Supplied with transparent storage cover.



40739



40741



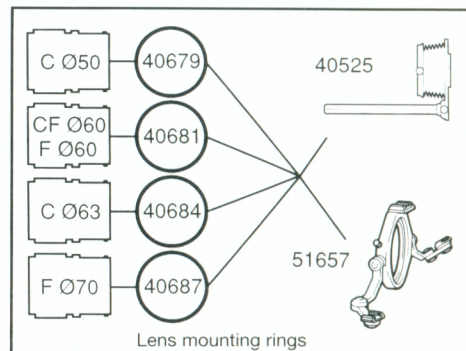
40744



40746

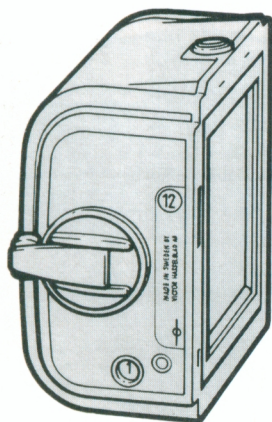


40312

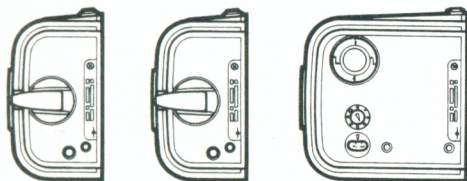




## 14 Film magazines



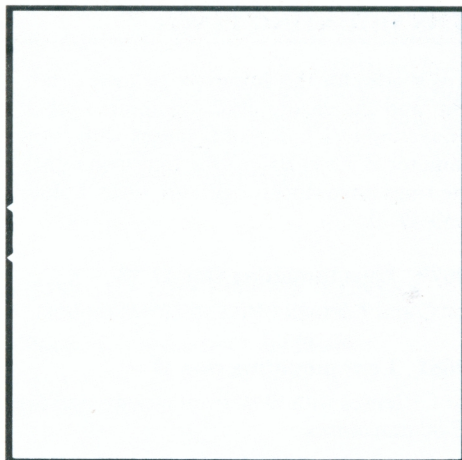
30074



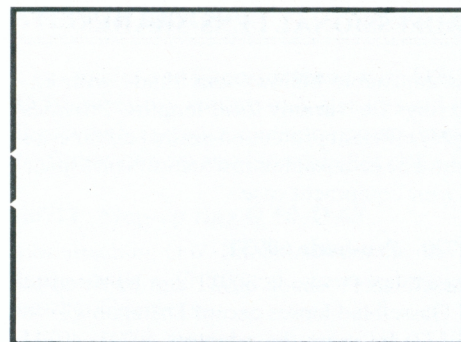
30104

30082

30066



6×6 cm



6×4,5 cm

*Hasselblad film magazines can be switched in seconds without losing a single frame, giving freedom to vary the format, length and type of film.*

*Magazines are available for 120 and 220 roll film, 70 mm perforated film, Polaroid film and sheet film.*

*TCC magazines for the Hasselblad 205TCC automatically connect to the camera's exposure metering system. Film speed and contrast simulation are programmed on the magazines.*

*TCC magazines are easily identifiable by the double blue line on their left-hand side.*

- 30082 Film magazine A16 (645) (chrome)**
- 30155 Film magazine A16 (645) (black)**
- 30325 Film magazine A16 TCC (chrome)**
- 30333 Film magazine A16 TCC (black)**

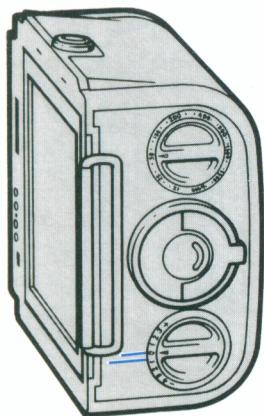
A magazine for 2 1/4 × 1 5/8" (6 × 4.5 cm) (horizontal) format 120 film, with 16 frames per roll. Same functions as the A12 magazines. Supplied with mask 42146, marked for this format, and magazine slide 41068. Weight: 14 oz (400 g). (TCC magazines: 14.5 oz/425 g.)

- 30066 Film magazine 70 (chrome)**
- 30139 Film magazine 70 (black)**

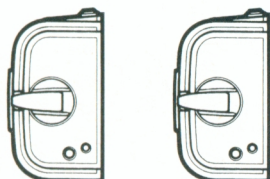
A magazine for 2 1/4 × 2 1/4" (6 × 6 cm) format type II 70 mm perforated film, with 70 frames per cassette. Film cassettes can be loaded with up to 4.7 meters of 70 mm film sold in rolls of 30 to 100 meters, and are especially useful when used with motorized Hasselblad cameras.

The magazine is supplied with an empty cassette 51039 and magazine slide 41068. Weight: 1 lb 2.5 oz (530 g).

## TCC Film magazines



30309



30341

30325

### ROLL FILM MAGAZINES

- 30074 Film magazine A12 (chrome)**
- 30147 Film magazine A12 (black)**
- 30309 Film magazine A12 TCC (chrome)**
- 30317 Film magazine A12 TCC (black)**

A magazine for 2 1/4 × 2 1/4" (6 × 6 cm) format 120 film, with 12 frames per roll. This is the standard Hasselblad film magazine. Each exposure is indicated by a signal. This also shows that the film has advanced to the next frame.

A film counter indicates the number of exposures and is automatically reset to zero when the magazine is reloaded. The film type and speed can be set on the film indicator. Available with chrome or black trim and supplied with magazine slide 41068.

Weight: 14 oz (400 g).  
(TCC-magazines: 14.5 oz/425 g.)

- 30104 Film magazine A24 (chrome)**
- 30171 Film magazine A24 (black)**
- 30341 Film magazine A24 TCC (chrome)**
- 30350 Film magazine A24 TCC (black)**

A magazine for 2 1/4 × 2 1/4" (6 × 6 cm) format 220 film, with 24 frames per roll. Same functions as the A12 magazines. Supplied complete with magazine slide 41068. Weight: 14 oz (400 g). (TCC magazines: 14.5 oz/425 g.)

- 51039 Film cassette for magazine 70**

The cassette may be loaded with perforated 70 mm film in lengths of up to 4.7 meters, with approx. 70 frames per cassette.

*Magazines other than TCC models can still be used with the Hasselblad 205TCC. The magazines then work purely mechanically. Film speed is then programmed manually with the aid of the camera's adjustment buttons.*

*TCC film magazines can also be used on Hasselblad cameras without an exposure metering system. The magazines then work purely mechanically as any other Hasselblad magazine.*



**30198 Hasselblad magazine 100 for Polaroid film**

A 2 1/4 x 2 1/4" (6 x 6 cm) format magazine for Polaroid film types 107, 108, 665, 667, 668 and 669.

The magazine is mounted and dismounted as easily as the roll film magazines. Very practical for fast checks on exposure, lighting and composition, since any errors are immediately detected. Supplied with magazine slide 41122.

*The interchangeable viewfinders and focusing screens in the Hasselblad system were developed to cover the individual needs of photographers working under widely varying conditions. Viewfinders and focusing screens can quickly and easily be changed.*

**FOCUSING SCREENS**

**42165 Acute-Matte focusing screen**

The Acute-Matte focusing screen combines extreme brightness with excellent focusing characteristics. The Fresnel lens is cut with such high precision that the rings cannot be seen through the viewfinder. There is a reference cross in the middle of the screen. This screen is compatible with all Hasselblad lenses and viewfinders.

**42167 Acute-Matte focusing screen TCC**

A bright focusing screen for the Hasselblad 205TCC. It has the same characteristics as screen 42165, plus a 6 mm diameter ring corresponding to the metering zone for the camera's spot metering system.

**42170 Acute-Matte focusing screen with grid and split-image rangefinder**

A new, bright Acute-Matte focusing screen with split-image rangefinder 6 mm\* in diameter and a grid with 10.25 mm parting for excellent focusing characteristics and image handling.

Field markings for 2 1/4 x 1 5/8" (6 x 4.5 cm) and 1 5/8 x 1 5/8" (4 x 4 cm) formats.

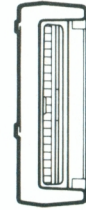
\*) Corresponds to the metering zone for the 205TCC spot metering system.

**41017 Sheet film adapter**

For photographers interested in utilizing the wide range of sheet film. The adapter is mounted and dismounted as easily as the roll film magazines. The film loads in the 51012 interchangeable sheet film holder.

**51012 Sheet film holder**

For sheet film, trimmed down to 2 1/2 x 2 1/2" (6.5 x 6.5 cm).



30198



41017



51012

**42188 Focusing screen with split-image rangefinder<sup>1)</sup>**

Bright focusing screen with a split-image rangefinder, 7.5 mm, for faster focusing. For lenses with 30-150 mm focal lengths.

**42218 Focusing screen with microprism and split-image rangefinder<sup>1)</sup>**

Diagonal split-image rangefinder, 5 mm, with a 14 mm central microprism grid.

**42250 Focusing screen with grid and microprism<sup>1)</sup>**

A focusing screen with a grid combined with a central microprism, 15 mm in diameter. For accurate horizontal and vertical alignment with applications in architectural photography and copying work.

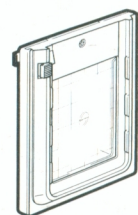
**42200 Plain glass screen<sup>1)</sup>**

A bright focusing screen facilitating photomicrography and macro work. Plain glass with reference cross and Fresnel lens.

**SPECIAL ACCESSORIES FOR THE 903SWC**

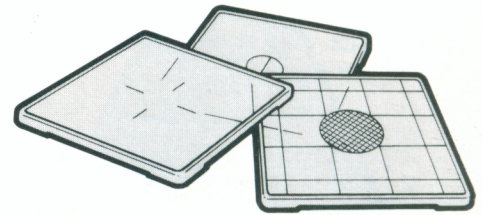
**41050 Focusing screen adapter SWC**

Designed exclusively for 903SWC and all previous models of SWC for checking image composition and depth-of-field. Attaches to the camera in the same way as a film magazine. Stray light shading and magnification of the image by attaching the magnification hood, prism viewfinder or reflex viewfinder. Can also be used for TTL exposure metering with PME 3/ PME 5/ PME 51.



41050

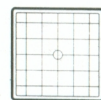
*Focusing screens*



42165



42167



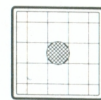
42170



42188



42218



42250

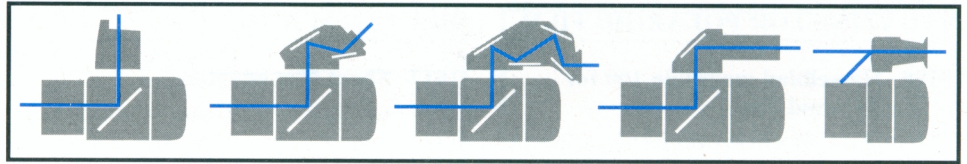


42200

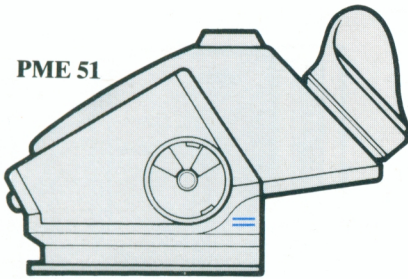
<sup>1)</sup> These screens are not marked with the metering zone for the 205TCC's spot metering system.



# 16 Viewfinders

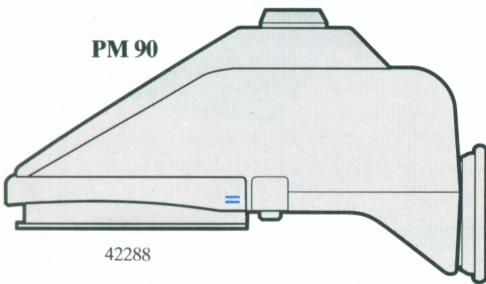


**PME 51**

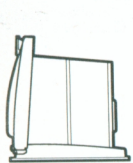


42296

**PM 90**



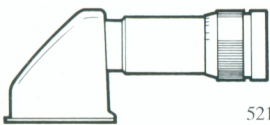
42288



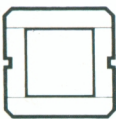
42315  
42323  
42317  
42325



52094

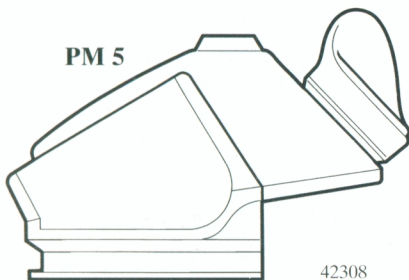


52183

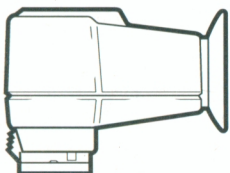


42146

**PM 5**



42308



52036

Hasselblad viewfinders are available with different viewing angles. They produce a clear, magnified focusing screen image facilitating focusing, composition, and checking depth-of-field. Viewfinders for 205TCC, previously designated TCC in the catalog are now designated E. They are marked with double blue lines.

## VIEWFINDERS

**42315 Focusing hood, chrome**

**42323 Focusing hood, black**

**42317 Focusing hood E, chrome**

**42325 Focusing hood E, black**

Hasselblad focusing hoods effectively shield the focusing screen from stray light and show the full image even with the camera at hip level. The folding interchangeable magnifier enlarges the image 4.5x. See the chart on page 17 for the full range of magnifiers available to correct for individual vision.

Focusing hoods 42317 E and 42325 E are included with the 205TCC camera bodies but fit all Hasselblad SLR bodies. They are supplied with magnifier 42374 for better vision of the LCD in the 205TCC viewfinder. Focusing hoods 42315 and 42323, which are included with the 500 series camera bodies and also fit the 2000 series, are supplied with the 42331 neutral magnifier. Users are recommended to test different magnifiers to find their personal preferences.

### 52096 Magnifying hood

Effectively blocks out extraneous light and enlarges the focusing screen image 3x. The eyepiece adjusts from +3.5 to -2.5 diopters to suit the user's vision.

### 42296 Meter prism viewfinder PME 51

Features center-weighted integral metering with a fast response silicon cell. Metered values are indicated by a row of EV numbers 2 to 19 underneath the focusing screen, illuminated by red LED. Film speed range is ISO/ASA 25 - 6400 (DIN 15-39). Combined battery check and scale illumination. Auto shut-off after approx. 10 sec. Power source is a 6V type PX28 (or equivalent) battery (not included). Viewing angle 45° to an unreversed, 3x magnified focusing screen image. Supplied with a removable rubber eyecup and protective cover. Interchangeable eyepieces are available to fit users individual vision.

*Protective covers for viewfinders:*

**52191 for 42296 and 42308**

**42064 for 52183 and previous models**

### 42288 Prism viewfinder PM 90

Low profile prism viewfinder with viewing in line with photographing direction. Large interchangeable eyepiece provides unreversed 2x enlarged image of entire focusing screen, also for viewers with eyeglass. Removable rubber eyecup. Fits all Hasselblad SLR bodies. Especially suited for users of A16 (6x4.5 cm) film magazines but cannot be used with film magazine 70 or magazine 100 for Polaroid. Supplied with protective cover. Replacement corrective eyepieces available to fit user's individual vision.

### 42308 Prism viewfinder PM 5

Identical to PME 51 but without metering facilities.

### Replacement correction eyepieces

All optical surfaces have anti-reflex coating. Diopter range -4 (partially -6) to +3.

See chart on page 17 for the full range of correction eyepieces for prism viewfinders and meter prism viewfinders NC-2, PM, PME, PM 3, PME 3, PM 5, PME 5, PME 51 and PM 90.

### 52183 Reflex viewfinder RM-2

*Not for use with 205TCC*

Developed with extended eyepiece tube for use with film magazine 70. Viewing in line with photographing direction. Extra large eyepiece with adjustable rubber eyecup gives a 3x enlarged image of the entire focusing screen, also for users with eyeglass. The eyepiece focuses ±5 diopters to adjust to users individual vision. Supplied with protective cover.

*Masks for focusing screens:*

### 42146 Transparent focusing screen mask

Image field markings for 6x4.5 cm and 4x4 cm (2 1/4 x 1 5/8" and 1 5/8 x 1 5/8") formats.

### 52036 Viewfinder SWC

Optical viewfinder with built-in sprit level visible through the viewfinder as well as from the outside. Lens focusing scale is also visible through the viewfinder. Image field markings for 6x4.5 cm and 4x4 cm (2 1/4 x 1 5/8" and 1 5/8 x 1 5/8") formats. The viewfinder locks securely in the accessory mount on top of the camera body.

The viewfinder can also be used on earlier SWC and SW models but does not show focusing scale on C type lenses.



The Hasselblad photographer has a choice of carefully balanced, anatomically designed grips providing support for handheld shots or quick-coupling tripod attachments. Unless otherwise noted, the accessories can be used with all 500 and 2000 series models as well.

**45072 Flashgun bracket 1**

**46330 Flashgun bracket 2**

These anatomically shaped brackets are attached and locked onto the camera's quick-coupling plate. An adjustable leather strap gives an even firmer grip. The camera is triggered via the flashgun bracket, which is also provided with a reversible 1/4" or 3/8" thread bolt and an accessory shoe for a flash.

*Flashgun bracket 1* fits the manually operated 500 and 2000 series models and the 205TCC.

*Flashgun bracket 2* fits the 553ELX and the earlier EL models.

*Hasselblad accessories for film advance and shutter cocking include products for both manual and automatic operation.*

**44069 Winder TCC**

The Hasselblad winder is a separate motorized unit for the 205TCC that replaces the winding crank and is very easy to attach. It enables sequence exposures at a rate of up to 1.3 frames per second. The powerful winder motor ensures rapid, distinct starts, smooth film advance and shutter cocking.

**45130 Tripod quick-coupling**

Used on a tripod to facilitate quick attachment and removal of the camera. The quick-coupling can be attached to a tripod with either a 3/8" or a 1/4" thread.

**51700 Quick-focusing handle 1/CF 40-80**

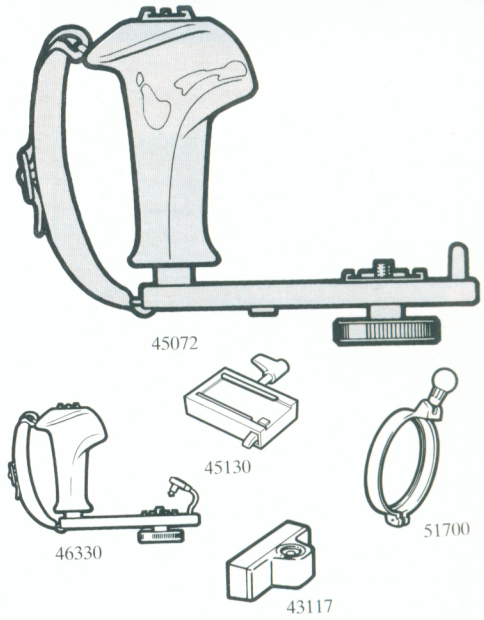
For quick and precise focusing. Ideal for sport and journalistic work. Screws directly to the focusing ring of the CF lenses. The handle folds down flat beside the lens, saving space in a lens or equipment case. For the 40, 50 and 60 mm Distagon CF and the 80 mm Planar CF lenses.

**43117 Spirit level**

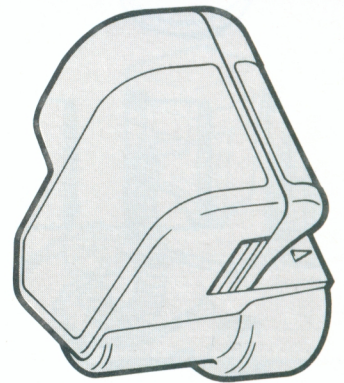
The spirit level is particularly useful in wide-angle photography. It attaches to the accessory rail on the left-hand side of the camera and can be used with all models except the 205TCC and the 903SWC.

Powered by five 1.5V size AA alkaline batteries for up to 3,000 exposures or by five corresponding rechargeable NiCd or metal-hydride accumulators for about 1,000 exposures per charge. (Batteries are not included.)

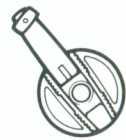
*Winder 44069 may be used with the models 2003FCW and 2000FCW, but with certain operational limitations.*



**Winding accessories**



44069



44040 / 44075 / 44083

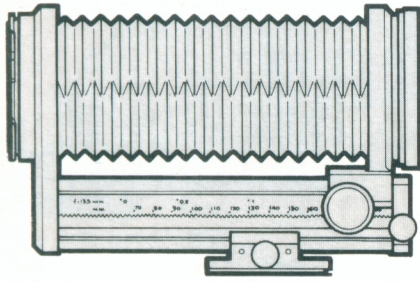
**44040 Winding crank 1**  
**44075 Winding crank 2**  
**44083 Winding crank E (former TCC)**

Interchangeable winding cranks for manual shutter cocking and film advance. *Winding crank 1* supplied with 503CX and 500 Classic (500C/M) camera bodies. Also suitable for all 500 series models. *Winding crank 2* suitable for use with 2003FCW and 2000FCW cameras. *Winding crank E* supplied with 205TCC camera body.

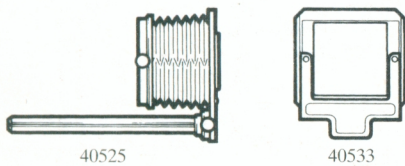
Interchangeable correction eyepieces and magnifiers					
CORRECTION POWER Diopters	VIEWFINDER MODEL				FOCUSING HOOD MAGNIFIER
	NC-2 PM 3 PME 5	PM PME 3 PME 51	PME PM 5	PM 90	
+3		42432		42412	42404
+2		42429		42423	42390
+1		42426		42420	42382
0 Neutral		42412		42411	42331
-1		42423		42418	42374
-2		42420		42415	42366
-3		42418		42414	42358
-4		42415		42413	42340
-5		42414		-	-
-6		42413		-	-



# 18 Close-up accessories



40517

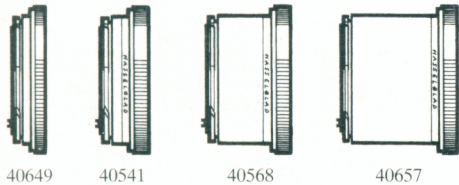


40525

40533



Proxar

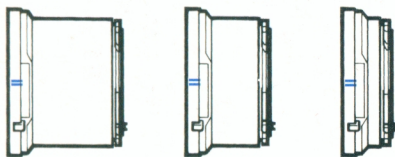


40649

40541

40568

40657



40659

40570

40543



51691



40037

The Hasselblad system includes close-up accessories such as Proxar close-up lenses, extension tubes, an automatic bellows and equipment for copying work.

- 51662 Proxar 0.5 Ø 60**
- 51665 Proxar 1.0 Ø 60**
- 51667 Proxar 2.0 Ø 60**

Proxar close-up lenses are available with three focal lengths: 0.5 m, 1.0 m and 2.0 m which constitute the typical focusing distances with respective Proxar lens. The lenses attach to the Ø60 lens front mount and may be combined in any desired way. Neither lens aperture nor exposure should be changed when the Proxar close-up lenses are used.

### Hasselblad extension tubes

The extension tubes can be combined to provide a variety of extensions. The Hasselblad system includes two different series. Special TCC extension tubes should be used with the 205TCC in order to utilize the full potential of the camera electronics.

- 40649 Extension tube 8**
- 40541 Extension tube 16**
- 40568 Extension tube 32**
- 40657 Extension tube 56**

A complete series of extension tubes covers the range up to the shortest bellows extension. The tubes connect to the lens and camera mechanisms to utilize the camera's automatic functions fully. The extension tubes can be attached in different combinations.

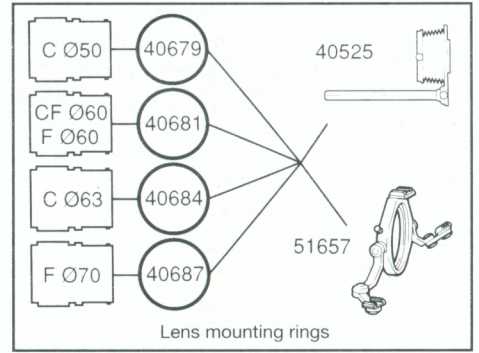
*Extension tube 8 cannot be connected directly to camera bodies fitted with a shutter speed ring.*

- 40543 Extension tube 16 TCC**
- 40570 Extension tube 32 TCC**
- 40659 Extension tube 56 TCC**

TCC extension tubes combine both the electronic and mechanical functions of the camera body and the lens to enable maximum use to be made of the 205TCC's automatic features. TCC extension tubes, identified by the double blue line, can be connected in various combinations.

### 51691 Variable extension tube 64-85\*

With continuously variable extension from 63.5 to 85 mm, this extension tube makes a flexible, compact and easy-to-handle close-up accessory. It can be used together with other extension tubes and the automatic bellows from the Hasselblad system. In addition to being used for changing the extension and level of magnification, the variable extension tube can also be used for focusing. It is ideal for use in combination with the 135 mm Makro-Planar CF f/5.6, providing a focus range from infinity down to 1.15 m.



Lens mounting rings

### 40517 Automatic bellows extension\*

The bellows extension interconnects camera body and lens mechanisms. This means that the CF, F, and C lenses are used in the same way as when the lens is directly connected to the camera. The bellows extension is easily altered with adjusting knobs. The automatic bellows combined with the 135 mm Makro-Planar CF f/5.6 enables work from infinity down to 1:1.

### 40525 Lens shade for automatic bellows extension

Fully adjustable extension with flanges to take the Hasselblad Transparency copyholder. Lens mounting rings, with slot for gelatin filter holders, are required to adapt the lens front mount.

The rings are sold separately. See the figure above and page 13.

### 40037 Lens mount adapter

Intended for attaching special-purpose lenses, such as for photomicrography, to the camera. The auxiliary shutter in the camera body, the microscope shutter, or the focal plane shutter in the Hasselblad 205TCC and 2000 models can be used.

### 40533 Transparency copyholder II

Attaches to flanges on the lens shade for the automatic bellows extension and is used in the copying and reproduction of transparencies and negatives. Electronic flash is recommended as the light source.

Also fits the earlier bellows extension 40223.

\* Please note that the light metering function of the 205TCC will be restricted when using the variable extension tube and the automatic bellows extension.



The Hasselblad system includes a dedicated professional flash, different types of release accessories and flash adapters for the 503CX, 553ELX, 500ELX and 205TCC.

### 55034 Hasselblad Proflash 4504

(to be discontinued during 1994)

The Hasselblad Proflash 4504 is a dedicated electronic flash unit with two separate reflectors. It has been specially developed for Hasselblad by Metz of Germany and gives full TTL/OTF functions when connected directly to the 205TCC, 503CX, 500ELX and 553ELX cameras. Using a synchronization cord, the Proflash can be used with other Hasselblad models, and it can be connected to any other camera using either an SCA adapter or a synchronization cord. The Proflash has four different modes – TTL, Auto, Manual and Winder; three different camera connection options – Hasselblad TTL, SCA and a standard synchronization cord; and a choice of three different power sources – rechargeable nickel-cadmium batteries, standard 1.5 V AA type (LR6) alkaline batteries, or the Metz mains connector. The mode selector also serves as an aperture/distance calculator. The main reflector can be orientated horizontally or vertically and rotates through a full 360°. The additional fill-in reflector is fixed. Proflash is supplied complete with nickel-cadmium batteries, recharger, AA battery holder, synchronization cables, camera mount, wide-angle diffusers and reduction filters for an additional flash.

### Macro flash unit

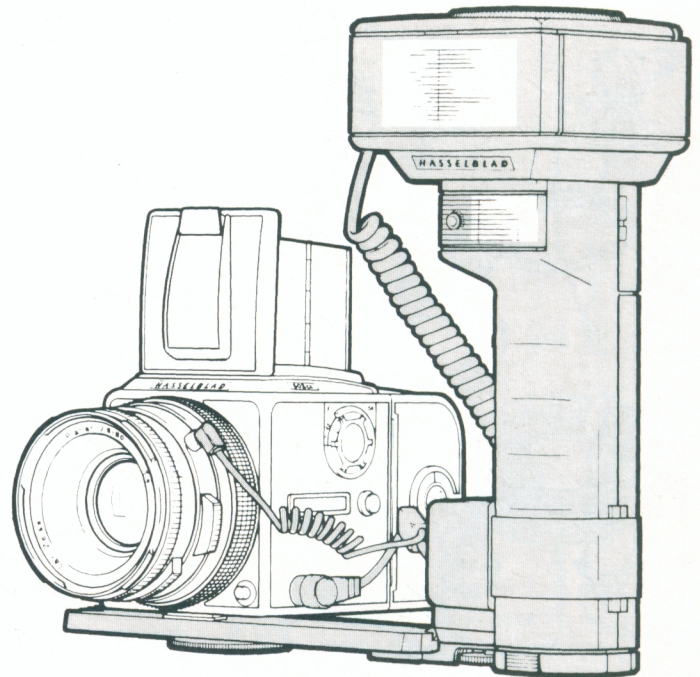
A practical, versatile close-up flash unit consisting of a macro flash and flash bracket. Developed in cooperation with the German flash equipment manufacturer Metz. Used in conjunction with the bracket, the flash provides a highly flexible method of varying and customizing the light on the subject.

### 51678 Macro flash

The Hasselblad macro flash consists of a control unit and two light sources for simultaneous or individual flash. A variety of lighting effects can be obtained using wide-angle and gray screens. The TTL/OTF circuitry in the Hasselblad 503CX, 553ELX and 205TCC can be utilized by using the Flash Adapter SCA 390. This provides automatic control of the light produced. The two light sources are placed on the Hasselblad macro flash bracket. The guide number at ISO 100 is 28 (m).

Supplied with the following equipment:

- 2 wide-angle screens
- 2 different gray screens
- Flash shoe with 3/8" and 1/4" fasteners
- Synchronization cord 240 mm
- Standard adapter SCA 301
- Coiled cord
- Double flash outlet



55034

### 51657 Macro flash bracket Ø 50–Ø 70

The bracket has three mounting shoes. The two arms are articulated at three points and rotatable 360°. The bracket is attached to the lens accessory mount with separate lens mounting rings which also have a slot for a gelatin filter holder.

The rings are not included with the Macro flash bracket. See page 13.

### 51681 Flash adapter SCA 390

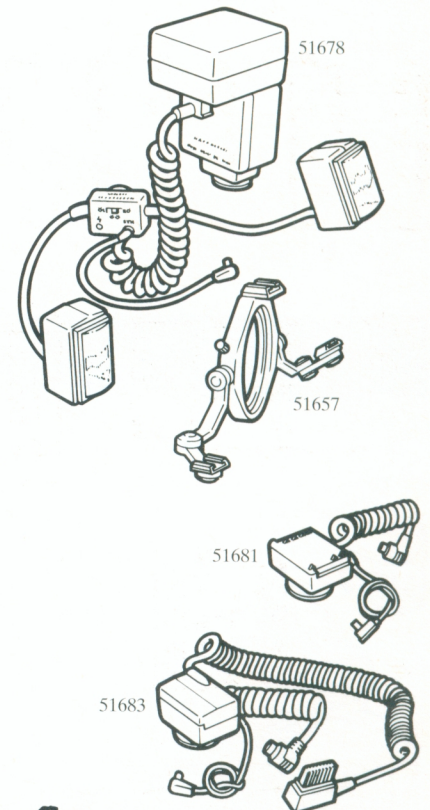
For connecting flash attachments that are compatible with the SCA 300 system to the 503CX, 553ELX and 205TCC cameras. Provides automatic TTL/OTF control of the amount of light. Signals indicating that the flash attachment is ready to fire and has discharged the right amount of light are visible in the camera's viewfinder. Can be attached to the flash shoe on prism viewfinders, to the flashgun bracket, or the camera's accessory rail. (Metz SCA 300A is also required when using SCA 390.)

### 51683 Flash adapter SCA 590

For connecting flash attachments that are compatible with the SCA 500 system (e.g. Metz 45 CT5 or 60 CT2) to 503CX, 553ELX and 205TCC cameras.

### 43125 Adjustable flash shoe

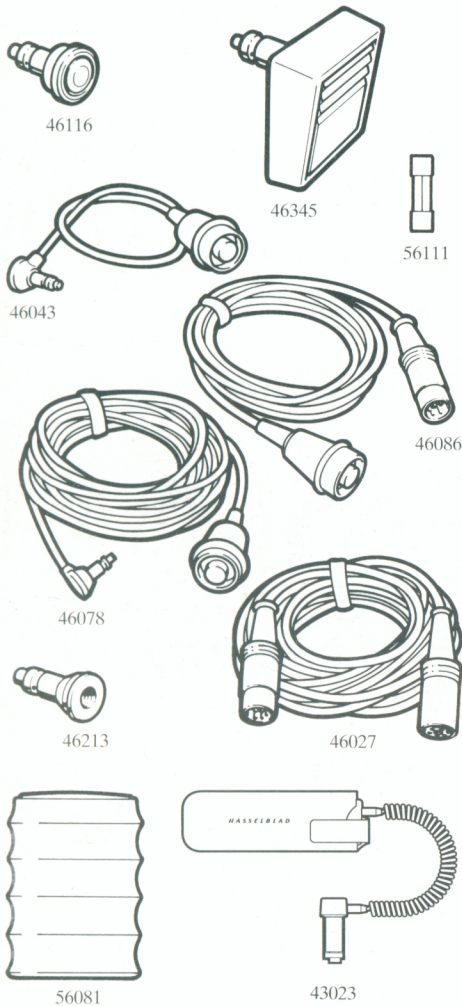
The flash shoe slides onto the accessory rail on the left side of the camera. Small electronic flash units can be placed in the turnable flash shoe.



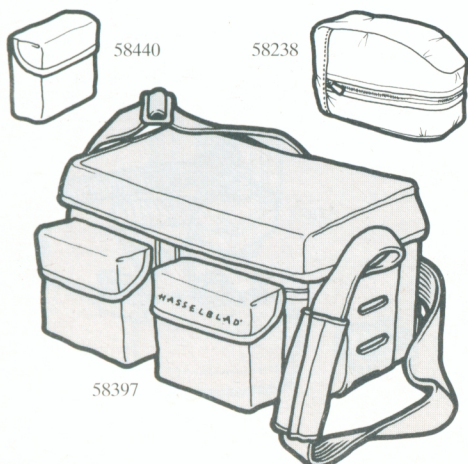
43125



## 20 Special accessories



## Original cases



	46043	0,3 m		
	46051	3 m		
	46078	6 m		
	46086	1,5 m		
	46027	5 m		

### 553ELX and earlier EL models

#### 46116 Release button

The release button is used in either of the two front sockets on all EL models and permits use of a release cord in the free socket. It is supplied with the 553ELX camera body.

#### 46345 Release plate

The large, easily operated release plate that has long been standard feature on Hasselblad space cameras. It fits all Hasselblad EL models.

#### 56111 Fuse

A 1.6 amp (5x20 mm) medium-slow fuse is used in the 553ELX. Supplied with the 553ELX camera body.

Also used for Hasselblad Winder TCC 44069.

*For the 553ELX front socket*

#### 46043 Release cord FK 30

#### 46051 Release cord FK 300

#### 46078 Release cord FK 600

*For the 553ELX side socket*

#### 46027 Connecting cord LK 500

#### 46086 Release cord SK 150

#### 46213 Release adapter

For the 553ELX and other EL models when using the PC-Mutar 1.4x.

*The case assortment includes soft, easily accessible camera cases, including hand or shoulder types, as well as larger trunks. All are specially designed for Hasselblad cameras and accessories. They are hand-made from top quality materials. The camera cases, equipment cases and the shoulder straps also fit all previous Hasselblad models.*

### CASES

#### 58238 Camera case 507

A protective case in soft leather-like material, provided with a zipper and slits for carrying strap. Designed for use with all cameras in the 500 and 2000 series and the 205TCC, with the prism viewfinder (except EL models). It is large enough for a camera fitted with A12 magazine and lens/lens shade up to 240 mm. Dimensions (L×W×H): approx. 94/9×33/4×34/5" (240×95×150mm)

### 500ELX and earlier EL models

#### 56081 Battery 1

Rechargeable battery for the 500ELX and earlier EL models. Type Varta NiCd 5/V500RH, 6V/500mAh.

#### Recharge unit I

For recharging batteries in the 500ELX. Connects to the side socket of the camera. Supplied with a permanent plug.

#### 56023 110 Volt AC American plug

#### 56024 110–240 Volt AC European plug

### 205TCC

#### 43023 External battery cassette

This is an alternative source of power for the 205TCC to be used under demanding conditions, such as extreme cold. Batteries with greater capacity than those used in the normal cassette can be used. Use four 1.5 V AA type (LR6) alkaline batteries.

#### 58397 Case 540

A soft shoulder bag made of durable, blue Cordura material. Suitable for a medium-sized selection of Hasselblad equipment. Because of its removable interior partitions and lens protectors it is extremely flexible. There are two, roomy pockets on the front of the case. Storage space can be further increased using two add-on pockets (available separately, see below). The shoulder and hip straps have rubber, non-slip inserts. The shoulder strap can also be used as a carrying handle.

Dimensions (L×W×H):

approx. 141/2×73/4×9" (370×200×230mm)

#### 58440 Magazine pocket

Pockets for spare Hasselblad film magazines and film rolls. Can be fitted to the ends of case 540 or used as pouches to be worn on a belt.



**58270 Case 712**

A functional and spacious case for a very large selection of Hasselblad equipment. The internal arrangement, both in the lid and the case itself, is flexible which makes it possible to store cameras and accessories in a large number of different combinations. All the lenses, except the longest telephoto lenses, can be stored in an upright position. A protective rubber strip around the opening provides a weathertight seal and shields contents from dust and rain. Ideal for desert and tropical climates. Weight: 10 lb 13 oz (4.9 kg).

External dimensions (L×W×H):  
approx. 18×15 1/4×7" (455×390×180mm).  
Internal dimensions (L×W×H):  
approx. 16 1/4×12 1/2×6" (410×320×150mm).

**58386 Case 522 (to be discontinued)**

An elegant and practical cowhide carrying case for a medium-sized equipment array. The flexible internal arrangement with movable partitions provides space for many different combinations of cameras, lenses, film magazines and accessories. The case has a combination lock and a plate on which the owner's name can be engraved.

External dimensions (L×W×H): approx.  
15 1/4×11 1/2×5 1/4" (390×290×135mm).  
Internal dimensions (L×W×H):  
approx. 14 1/4×9×4 1/2" (360×230×115mm)

**LENS POUCHES**

Protective pouches of soft, leather-like material. The lens type can be written on special labels. Supplied with most Hasselblad lenses. NOTE: Lens type FE is the former F/TCC

**58408 Lens pouch 1**

For CF/FE 80 mm and CF 100 mm lenses and Mutar 2X and Converter 2XE teleconverters.

**58416 Lens pouch 2**

For CF/FE 50 mm, CF 60, 105, 120, 135 mm, CF/FE 150 mm and FE 110 mm lenses.

**58424 Lens pouch 3**

For CF 180 mm and CF/FE 250 mm lenses.

**58432 Lens pouch 4**

For CF 40 mm and FE 50 mm lenses. Hasselblad space cameras. It fits all Hasselblad EL models.

**STRAPS****59110 Standard strap**

Black polyester camera strap with rubber underside to prevent slipping. Width: 1" (25 mm). Length (approx): max 59", min 35" (1500/900 mm).

Supplied with 205TCC, 503CX, 903SWC and 500C/M camera bodies, and with 500 Classic.

**46140 Carrying strap**

A short, black leather strap with a rubber insert to be attached to the camera's strap buttons. Supplied with the 553ELX camera body. Length: 13" (325 mm)

**59080 Wide camera strap**

A long, adjustable 1 1/2" (40 mm) wide strap made of black polyester. The rubber underside of the strap prevents it from slipping off the shoulder. Length: approx. max 59", min 35" (1500/890 mm).

**59099 Contoured shoulder strap**

A camera strap contoured for the shoulder giving a comfortable, non-slip, well-balanced grip. Width: approx. 1 1/4" (30 mm). Length: approx. max 50", min 38" (1280/980 mm).

**PROTECTIVE COVERS****51438 Front protective cover**

Attaches to the lens mounting in the camera body (and in the front of the Converter 2XE and the Mutar 2X teleconverters or the PC-Mutar 1.4X shift converter).

**51063 Rear protective cover**

Protects the rear of the camera when no film magazine is attached.

**51643 Front lens cap Ø 60**

Attached to the inner lens bayonet mount.

**51648 Front lens cap Ø 70**

Attached to the inner lens bayonet mount.

**51462 Front lens cap Variogon**

For the Variogon 140–280 mm lenses. Friction-fit attachment.

**51654 Front lens cap Ø 93–100**

For CF and FE lenses with a Ø 93 front mount when a lens shade is attached. Friction-fit attachment.

**51659 Front lens cap for the 30 mm Distagon CF**

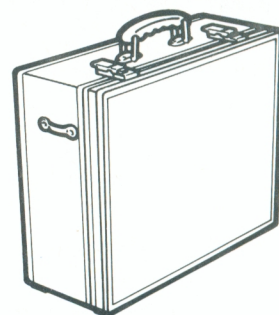
Friction-fit attachment.

**50377 Rear lens cap**

Bayonet mount. Fits all Hasselblad lenses, except the 135 mm Planar.

**50571 Rear lens cap 135**

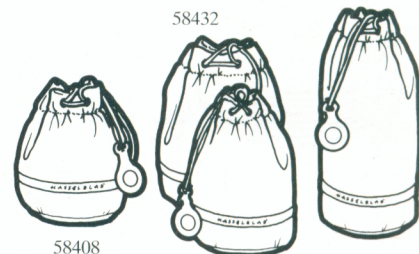
Bayonet mount. Fits the 135 mm Makro-Planar CF and the 135 mm S-Planar C.



58270



58386



58408

58416

58424



51438



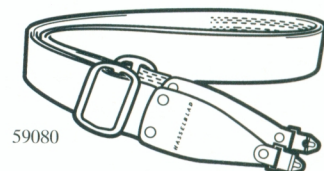
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51063



50377



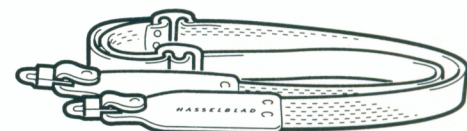
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59099



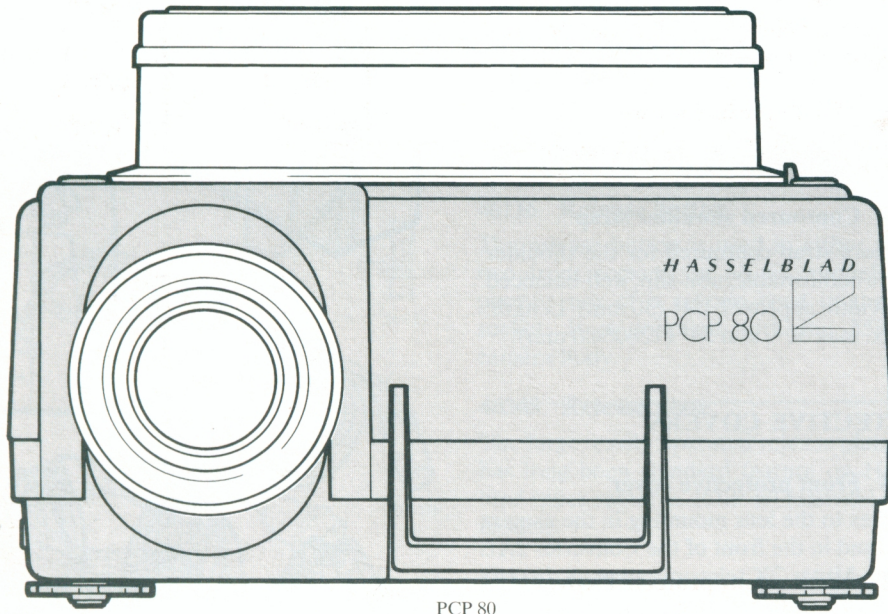
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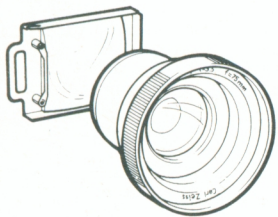
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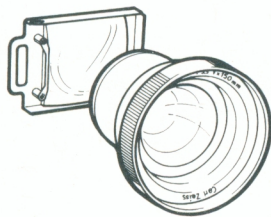
## 22 Hasselblad PCP80 Projector



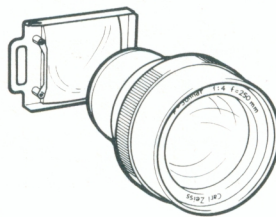
PCP 80



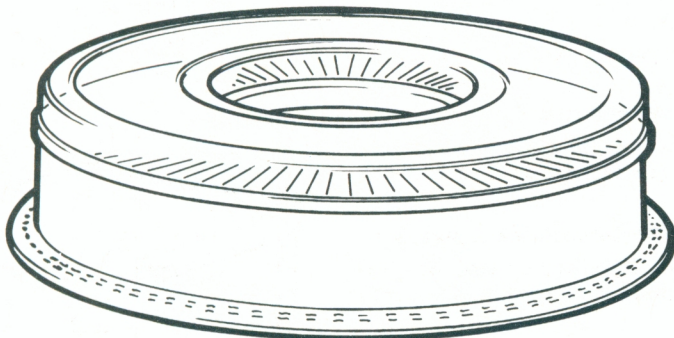
70214



70205



70210



70303

The Hasselblad PCP80 is a professional projector for 2 1/4x2 1/4" (6x6 cm) transparencies. Built-in perspective control, superb Zeiss lenses, a rotary slide magazine and a number of unique features put the PCP80 in a class of its own. The designation "PCP80" stands for Perspective Control Projector with an 80-slide capacity.

### Perspective control

Images produced by a projector that is tilted upwards or downwards appear distorted (wedge-shaped) on the screen. The perspective control function of the PCP80, however, enables you to move the lens up or down, raising or lowering the screen image without any distortion. As a result, a square slide always produces a square screen image.

### Lens and condenser

The optical system is specially tailored to each lens. Lenses have their own matched condenser lens, which is replaced whenever the lens is replaced.

A dichroic mirror system makes it unnecessary to fit a light-stealing heat absorption filter on the PCP80.

### Automatic lamp replacement

A reserve bulb clicks immediately into place if the projector bulb fails, and a warning light on the projector's control panel indicates that an automatic replacement has been made.

The lamp housing can be removed to adjust the filament orientation outside the projector without turning the lamp on. The same also applies to the reserve lamp.

### Unparalleled reliability

For unbeatable operational reliability the PCP80 has separate, quiet motors for slide change, fan operation and focusing. The cooling system uses pressurized, filtered air to prevent any dust build-up from affecting the performance of the mechanism or the optical system.

The PCP80 has two fuse circuits. One protects the electronic system in the event of power surges. The other monitors the temperature near the transparency and switches off the projector lamp long before any risk of heat damaging the slide.

### Rotary slide magazine

The rotary magazine holds 80 transparencies. (Detachable without re-setting).

### Control systems

The Hasselblad PCP80 has 3 different connector inputs for external control systems. In addition to a standard 6-pin socket, the projector has 8 and 12-pin sockets for controlling the lamp with or without the built-in TRIAC. Different connectors for most other professional control systems are available as accessories.



## PCP80 PROJECTOR & ACCESSORIES

The Hasselblad PCP80 projector is supplied as separate components.

### 70101 Hasselblad PCP80 projector body

With power cord but without lens or rotary slide magazine. Can be switched to 110/130/220/240 V 50–60 Hz. Front protective cover PCP80 70532 supplied. Weight 31 lbs (14 kg).

### 70104 Hasselblad PCP80 projector body

A special version for 120 V 50–60 Hz mains voltage (USA).

### 70107 Hasselblad PCP80 projector body

A special version for 100 V 50–60 Hz mains voltage (Japan).

### 70205 Zeiss P-Planar f/3.5 150 mm projector lens

Standard projector lens. Supplied with matching condensor lens and front lens cap 75/150 (70526). Allows full utilization of perspective control.

### 70214 Zeiss P-Distagon f/3.5 75 mm projector lens

Lens for short projection distances (e.g. back-projection). Supplied with matching condensor lens and front lens cap 75/150 (70526). Allows limited utilization of perspective control.

### 70210 Zeiss P-Sonnar f/4 250 mm projector lens

Lens for long projection distances. Supplied with matching condensor lens and front lens cap Ø 93–100 (51654). Allows for full utilization of perspective control.

### 70303 Rotary slide magazine

Holds 80 transparencies in 2 3/4 × 2 3/4" (7 × 7 cm) mounts.

#### Accessories:

### 70507 Remote cable control unit

For manual slide change and focusing. Cable length: 4 m (approx 13 ft).

### 70517 Projector rack, basic unit

For twin projector set-ups.

### 70518 Supplementary unit for projector rack

Add-on unit to permit stacking.

### 70511 Registration slide mounts (2 1/4 × 2 1/4") (6 × 6 cm)

Slide mounts with special guide pins to simplify perfect image positioning in multi-vision programs.

Box of 40 mounts.

### 70512 Registration slide mounts (2 1/4 × 1 5/8") (6 × 4.5 cm)

Mounts as 70511 above, but with rectangular image format.

### 70520 Alignment slide

For precise adjustment of projectors in a multi-projector set-up.

### 70535 PCP80 projector case

A sturdy plywood frame with aluminium and steel reinforcements. Foam plastic interior. Holds the PCP80 projector body.

Dimensions:

approx 17 × 20 × 11" (430 × 510 × 285 mm).

### 70526 Front lens cap 75/150

Protects the front lens element of the 75 mm P-Distagon and 150 mm P-Planar lenses. Supplied with the lens.

### 51654 Front lens cap 250

Protects the front lens element of the 250 mm P-Sonnar lens. Supplied with the lens.

### 70532 PCP80 front protective cover

To protect the projector when no lens is attached. Supplied with the projector body.

### 70547 PCP80 dust cover

Soft dust cover to protect the projector when not in use.

### 70538 Power cord

European plug. Length: 2.5 m (approx 8 ft). Supplied with the projector body.

### 70539 Power cord

American plug. Length: 2.5 m (approx 8 ft). Supplied with the projector body.

### 70541 Air filter

Replacement air filter (1 filter supplied with the projector body).

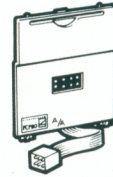
#### AV connectors:

Please contact your Hasselblad agent for information about which connector to use with the various control systems.

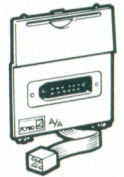
### 70524 12-pin AV connector/Adapter AA

### 70525 7-pin AV connector/Adapter AA

For connecting certain control systems with US-type connectors.



70525



70524



70511



70512



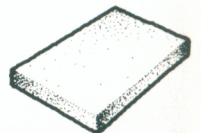
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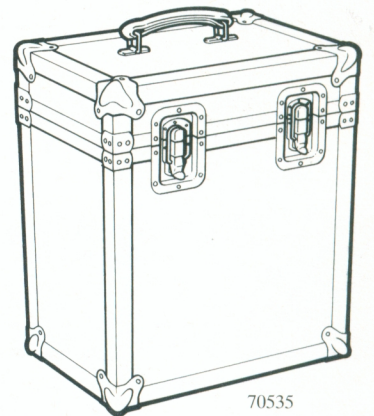
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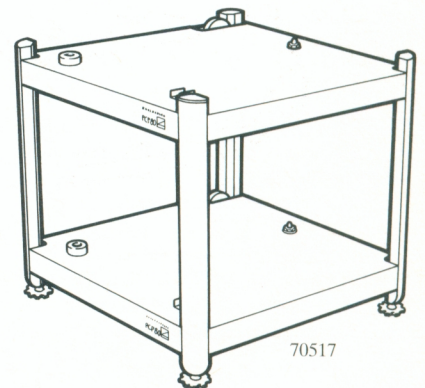
70547



70541



70535



70517



## 24 Hasselblad Service Department



A Hasselblad camera could have up to a thousand different components, all of which are manufactured to minutely small tolerances and must match perfectly to produce a reliable camera. Before leaving the factory each Hasselblad is adjusted and focused to within 1/100 millimetre's precision. The shutter is finely tuned to a tolerance of within a fraction of a millisecond.

Even if it is built to cope with demanding professional duties, a Hasselblad camera is a precision instrument. And like all precision instruments, it needs care and maintenance. How often depends on how much it is used.

Victor Hasselblad AB has a network of authorized service centers, where you can have your camera examined and serviced. Always hand in your camera at an authorized center.

The sign "Hasselblad Authorized Service Center" is your guarantee of quality and professional care.

You can read more about servicing Hasselblad products in the folder "International Rental & Service Guide". This includes information about recommended service intervals with service scheme, plus the addresses of all authorized service centers. Pick up a folder at your dealer's or order it from any Hasselblad distributor.

## Hasselblad Electronic Imaging AB



Hasselblad Electronic Imaging AB manufactures equipment for digitalization, transmission and management of electronic images.

The portable DIXEL™ 2000 wire photo transmitter has been the market leader in Europe for several years. The new transmitter product, Pixolo, is a software in Windows environment, running on a laptop together with a portable scanner. Pixolo can transmit all types of 35 mm film (black & white and colour, positive and negative) via the public telephone system, including ISDN.

At the receiving end, the company can offer a complete "Electronic Picture Desk", comprising the ImageBasket™ store and forward system, the ImageTuner™ colour work station, adapted to newspaper production, and the ImageDepot production archive for compressed or non-compressed images.

ImageBasket receives and transmits images via all widely used standards, and de facto standards. It can receive images from up to six sources at the same time. Selected images can either be transmitted, printed, transferred to ImageTuner, ImageDepot and/or to other units connected on the network.

For further information please contact:

**Hasselblad Electronic Imaging AB**

P O Box 220

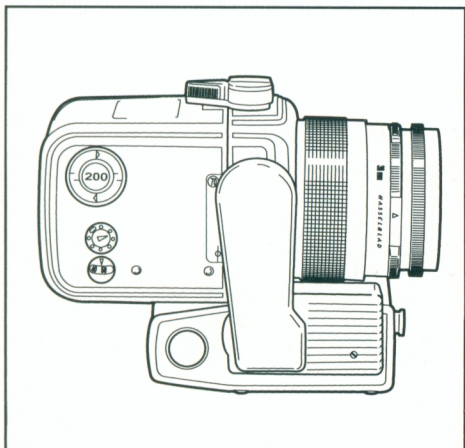
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## Hasselblad Technical Photography



In addition to the wide range of Hasselblad standard products capable of dealing with virtually any photographic situation, Hasselblad also offers a number of products referred to as "Special Products".

Since these items are all special and do not appear in this standard product catalog, customers are invited to contact Victor Hasselblad AB for technical information and presentation of the Hasselblad products in the areas described below.

### PHOTOGRAMMETRY

For photogrammetric use there are two metric cameras equipped with a Reseau glass plate:

Camera MKWE with lens Biogon CF 4.5/38

Camera MK 70 with lens Planar CF 3.5/100 mm and Biogon CF 5.6/60 mm.

Due to the Reseau plate the metric cameras require specially adapted film magazines.

### HASSELBLAD DATA RECORDING SYSTEM

Four different film magazines with data annotation on the film of up to 32 characters.

### SPECIAL FILM MAGAZINES

Magazine A 2035 – for film 135

(19 frames, size 24×55 mm)

Magazine A 32 – for film 220

(32 frames, size 4,5×6 cm)

Magazine 70-456 – for perforated 70 mm film (90 frames, size 4,5×6 cm)

### MOTORIZED SWC

Standard camera SWC with lens Biogon CF 4.5/38 mm, motorized for sequence photography and remote control.

For further information please contact:

**Hasselblad Technical Photography**

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Send in the coupon to the Hasselblad distributor in your country (see address list above). Since the space in this catalog is limited, all distributors are not listed. You can also contact Victor Hasselblad Aktiebolag, Box 220, S-401 23 Göteborg, SWEDEN.

\* Hasselblad distributors with in-house service facilities.





# *Subscribe to Hasselblad Forum!*

*Hasselblad Forum is a quarterly magazine distributed by Victor Hasselblad AB. It is available in three languages, English, German and Swedish and presents pictures in color and black/white, informative text by leading photographers and ambitious amateurs, as well as the latest news about the Hasselblad system. Subscribe by sending the coupon below to the Hasselblad distributor in your country.*



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## Hasselblad Forum

*Hasselblad Forum is a magazine read by photography enthusiasts all over the world. The magazine was first published in 1965. It is a quarterly magazine published in English, German and Swedish. As its title suggests, Hasselblad Forum is a forum for photographers working with Hasselblad cameras and accessories.*

*Amateur and professional photographers get together in Hasselblad Forum, giving their innermost viewpoints about photography. Contacts are established between photographers and purchasers of photographs, books are reviewed, news about the Hasselblad system are presented and technical queries are answered.*

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### **Contribute to Hasselblad Forum**

*During the course of a year, we have the opportunity to publish contributions from fifty or so photographers. This means we are constantly on the look-out for new co-workers who wish to share their pictures, their techniques and their experiences using the Hasselblad system.*

*Send your unmounted pictures, be they slides or prints in either color or black/white, to the address below. Remember to write a few lines about the pictures. The address is: Hasselblad Forum, Box 220, S-401 23 Göteborg, Sweden.*



## Hasselblad Boutique

*Hasselblad boutique items are both practical and beautiful. As well as the items below there is also a large umbrella with the Hasselblad design, an exclusive pen-set, a scarf, a wrist-watch, crystal glasses etc.*

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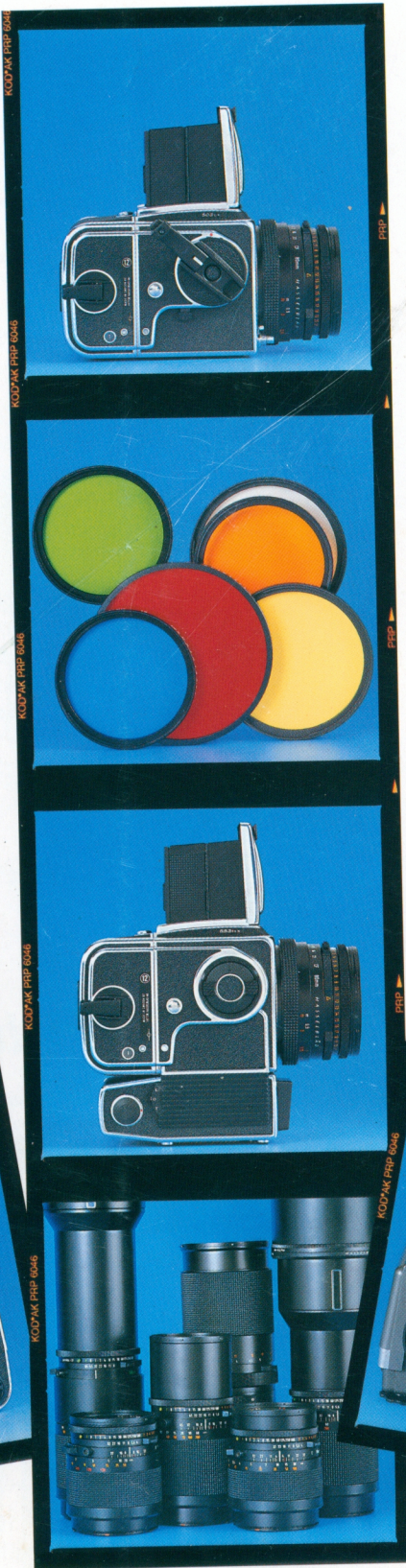
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