



ACCESSORIES FOR
WATSON
MICROSCOPES



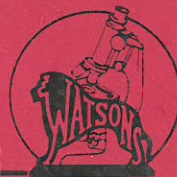
New items are often added to our range of accessories. If what you need is not shown, it may be available or even under design. Let us know your requirements and if we possibly can we shall quote you.

W. WATSON & SONS, LTD.,

313, HIGH HOLBORN, LONDON, W.C.1.

HOLborn 2767

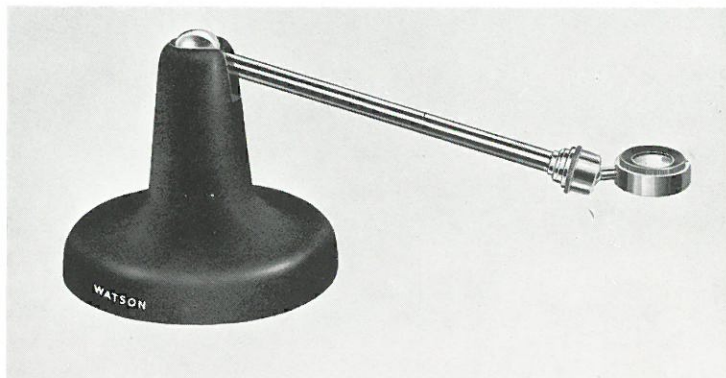
MICROSCOPES



DISSECTING MICROSCOPES

Magnifier Stand. This magnifier holder is a very heavy casting on which is mounted an arm. The arm is attached to the base by a ball-socket joint. The ring carrying the magnifier can also be adjusted to any position, and clamped.

Code No.	£	s.	d.
7B84	Magnifier Stand, as described without magnifier - - - (See page 2 for magnifiers)		



"Simplex" Dissecting Microscope. This microscope is simple in design, fulfilling the requirements of the classroom for a small efficient instrument. It is fitted with rackwork focusing adjustment, a double-jointed lens arm for aplanatic or simple magnifiers in dissecting mounts, a stage measuring 70 mm. x 90 mm., and an adjustable mirror and opal disc. It is supplied with arm rests and a glass plate for the stage.

Code No.	£	s.	d.
7B82	Simplex Dissecting Microscope, as described without magnifier - - -		
(See page 2 for magnifiers)			



"Universal" Dissecting Microscope. This microscope is a robust instrument with a heavy horseshoe foot and a stage measuring 75 mm. x 100 mm. ; rack and pinion is provided for the focusing adjustment which operates the adjustable pillar carrying the double-jointed lens arm. A plane mirror and opal glass disc are provided, mounted in a gimbal fitting. The microscope is supplied complete with glass stage plate, metal plate background and metal arm rests.

Code No.		£	s.	d.
7B81	Universal Dissecting Microscope, as described without magnifier	-	-	-
7B107	Mahogany Case	-	-	-
(See page 2 for magnifiers)				





A collection of various optical accessories, including eyepieces, objective lenses, and camera adapters, arranged on a light surface. Some components are labeled with magnification values like x6, x10, x15, x20, and x25.

These magnifiers consist of a cemented triplet lens. They give a large flat field with excellent definition, and they have a good working distance. They each have the largest possible aperture and consequently yield a very brilliant image. They are supplied in three forms of mount: in simple dissecting mount, in a nickelled pocket mount and in a

x 6	working distance	1.27",	diameter of field	1",	lens diameter	0.687"
x 10	"	0.73",	"	0.5",	"	0.562"
x 15	"	0.5",	"	0.35",	"	0.343"
x 20	"	0.37",	"	0.25",	"	0.281"

Single Lens Magnifier. This gives good results and serves as a useful and cheap magnifier of x 8 in the standard dissecting mount.

Code No.						£	s.	d.
7B83	Dissecting Magnifier Stand	-	-	-	-			

OPTICAL ACCESSORIES



OBJECTIVES

Apochromatic Series. We recommend these lenses because both visually and photographically they are truly apochromatic. The secondary spectrum is eliminated and the image produced by these objectives is of a very high standard, free from colour and of perfect definition. These objectives are particularly suitable for use with stained preparations and for photomicrography, and no refocusing is needed when using a variety of colour filters.

Fluorite Series (Semi-Apochromatic). The colour and spherical corrections of these objectives approach those of apochromats, and they have excellent depth of focus. The 16 mm. objective, although not having any fluorite components, is designed as a low power lens for this series and is used with the same compensating eyepieces.

Parachromatic Series. The objectives of this series incorporate features which make them unequalled for general work. The spherical and chromatic corrections are the best obtainable with this achromatic type of objective and the residual aberrations are reduced to negligible proportions. The very flat field is an outstanding feature of the low powers, whilst the higher powers have a relatively flat field and a long working distance.

Apochromatic Series

Code No.	Focal Length	Primary Mag. at 160 mm. t.l.	N.A.	Free Working Distance mm.	£ s. d.
7B228	16 mm. $\frac{2}{3}$ "	x 9	0.30	7	
7B229	8 mm. $\frac{1}{3}$ "	x 20	0.65	0.56	
7B230	4 mm. $\frac{1}{6}$ "	x 40	0.85	0.18	
7B231 O.I.	2 mm. $\frac{1}{12}$ "	x 90	1.37	0.12	
*7B232 "	2 mm. $\frac{1}{12}$ "	x 90	1.37	0.12	

*With Iris Diaphragm in mount for use in dark ground illumination.

O.I. = oil immersion.





OPTICAL ACCESSORIES

OBJECTIVES

OBJECTIVES AND NOSEPIECES

Fluorite Series

Code No.	Focal Length	Primary Mag. at 160 mm. t.l.	N.A.	Free Working Distance mm.	£ s. d.
7B233	16 mm. $\frac{2}{3}$ "	x 10	0.30	7.7	
7B234 O.I.	3.6 mm. $\frac{1}{7}$ "	x 50	0.95	0.22	
7B236 "	2 mm. $\frac{1}{12}$ "	x 90	1.30	0.12	

Parachromatic Series

Code No.	Focal Length	Primary Mag. at 160 mm. t.l.	N.A.	Free Working Distance mm.	£ s. d.
†7B200	100 mm. 4"	x 0.7			
†7B201	75 mm. 3"	x 1.25			
7B202	50 mm. 2"	x 2.75	0.15	45	
7B203	40 mm. $1\frac{1}{2}$ "	x 4	0.13	18	
†7B237	40 mm. $1\frac{1}{2}$ "	x 4	0.10	17	
7B204	25 mm. 1"	x 6	0.21	14	
7B205	16 mm. $\frac{2}{3}$ "	x 10	0.28	7	
7B206	12 mm. $\frac{1}{2}$ "	x 15	0.34	3.5	
7B216	8 mm. $\frac{1}{3}$ "	x 20	0.50	1.5	
7B207	6 mm. $\frac{1}{4}$ "	x 30	0.50	1.2	
7B208	4 mm. $\frac{1}{6}$ "	x 40	0.70	1.0	
7B210 O.I.	3.6 mm. $\frac{1}{7}$ "	x 45	0.94	0.7	
7B211 "	2 mm. $\frac{1}{12}$ "	x 100	1.25	0.23	
7B212 "	2 mm. $\frac{1}{12}$ "	x 100	1.28	0.23	
*7B215 "	2 mm. $\frac{1}{12}$ "	x 100	1.28	0.23	
7B214 W.I.	3.6 mm. $\frac{1}{7}$ "	x 40	0.84	0.4	

*With Iris Diaphragm in mount for use in dark ground illumination. O.I. = oil immersion. W.I. = water immersion.

†These magnifications are calculated when the objectives are screwed in to the bottom of the drawtube.

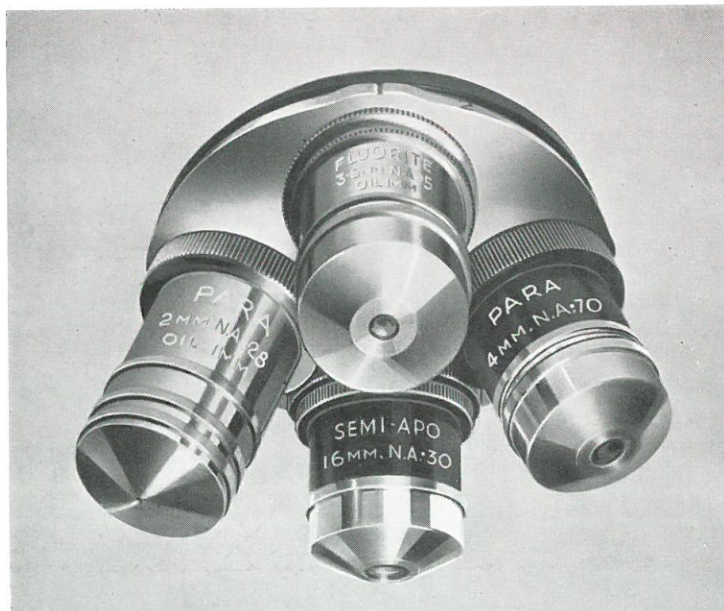
‡Designed to yield a flat field in low power photomicrography.

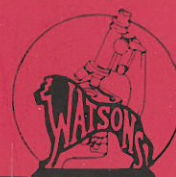
All objectives, with the exception of 4", 3" and 2" Parachromatic series, are parfocal.

Code No.		£ s. d.
7B687	Clear plastic boxes for Watson objectives	- - - - -
7B686	Metal boxes for Watson Apochromatic objectives	- - - - -

Rotating Nosepiece. These revolving objective changers are made to carry either three or four objectives. They are made with high precision from solid metal and are designed for accurate centration of parfocal objectives. Each nosepiece aperture is numbered, the objective of lowest power being fitted into No. 1 and the next highest in No. 2 and so on.

Code No.		£ s. d.
7B260	Rotating Double Nosepiece	- - -
7B261	Rotating Triple Nosepiece	- - -
7B262	Rotating Quadruple Nosepiece	- - -
7B689	Nosepiece Compensating Adapter	- - -
7B688	Rotating Nosepiece Dust Caps	- - -





OPTICAL ACCESSORIES

EYEPIECES AND POLARISERS

Angle Eyepiece. Many users of a monocular microscope desire to obtain inclination to the eyepiece when the microscope must be used in a vertical position. The angle eyepiece enables these conditions to be fulfilled. It is fitted with a prism, the surfaces of which have been coated. This modern treatment of glass surfaces virtually eliminates loss of light by reflection and, in turn, increases image contrast as well as apparent illumination. The attachment fits into the microscope body in place of the drawtube and within the unit is incorporated a tube length correcting lens with a magnification factor of $\times 1.5$.

Code No.		£	s.	d.
7B299	Angle Eyepiece (inclination unit)	-	-	-

Ehrlich's Eyepiece. With square adjustable diaphragm, for estimating the relative proportion of red and white blood corpuscles in dry preparation.

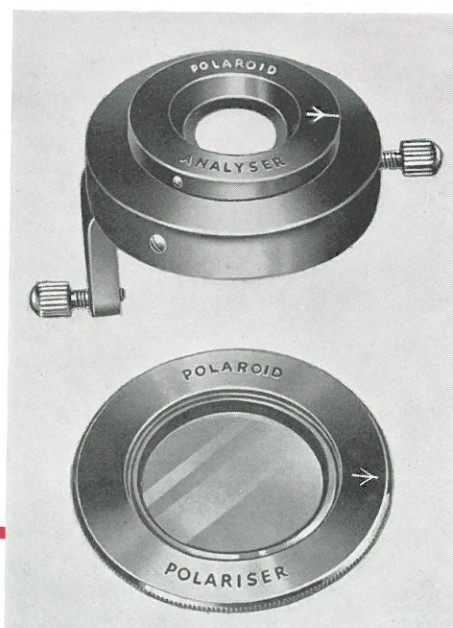
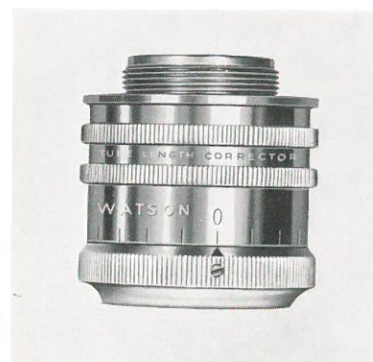
Code No.		£	s.	d.
7B64	Ehrlich Eyepiece, complete	-	-	-

Tube Length Corrector. The high standard of correction of modern microscope objectives entails a great sensitivity to accurate tube length setting. If the cover-glass over the object is thicker or thinner than the standard 0.18 mm. or if a layer of mounting medium lies between object and cover, then the objective cannot give its best definition. The tube length corrector, or aplanatiser, corrects the errors introduced by any departure from either of the standard conditions of tube length or cover-glass thickness by an adjustable lens system which is placed above the objective. It is easily manipulated and has a range sufficient for tube lengths equivalent to 100–300 mm.

Code No.		£	s.	d.
7B59	Tube Length Corrector as described and illustrated	-	-	-

Polaroid Analyser and Polariser. Polaroid material is an excellent substitute for the Nicol prisms formerly used for polarising light. It is a prepared film which is cemented between optical glass discs. Two such plates are fitted into two suitable mounts, one fitting over the eyepiece with polaroid close to the eyelens and the other into the filter carrier beneath the substage.

Code No.		£	s.	d.
7B50	Polaroid Analyser	-	-	-
7B51	Polaroid Polariser	-	-	-





OPTICAL ACCESSORIES

EYEPIECES

Huyghenian Series. These eyepieces are those most frequently used with achromatic objectives (Parachromatic series). They perform well with all powers in this series. Six magnifications are provided as shown below.

Holoscopic Series. The Holoscopic eyepieces are, fundamentally, compensating eyepieces in which the amount of compensation is continuously variable between wide limits. They are primarily for use with the Apochromatic series since with these objectives the degree of compensation required increases with the power. The eye lens is fitted with a sliding tube engraved with arbitrary divisions. Four magnifications are provided as shown below.

Compensating Series. This series has been computed especially for use with the Fluorite series of objectives. With these objectives, maximum field flatness and achromatism of magnification (compensation) are obtained. These eyepieces will also perform very satisfactorily with the higher powers in the Parachromatic series.

Micrometer Series. The micrometer eyepieces are Huyghenian in type and each is provided with a focusing eye lens. In the x 15 eyepiece, a graticule, 18 mm. diameter, is used, and in other powers, 21 mm. diameter. The eyepieces are not supplied with a graticule or scale unless ordered.

All the Huyghenian, Compensating and Micrometer eyepieces (the latter when in normal adjustment and with the exception of x 15), are parfocal.

Code No. Single Eyepieces	Code No. Single Eyepieces	Type	Power	£ s. d.	Code No.	Type	Power	£ s. d.
7B300	7B301	Huyghenian	x 5 Ea.		7B365	"COMPLEC" eyepieces. These eyepieces have been designed with a high eyepoint for comfortable use by a wearer of spectacles and are only supplied in pairs x 6 for use in binocular microscopes. Pairs		
7B302	7B303	"	x 6 "					
7B304	7B305	"	x 8 "					
7B306	7B307	"	x 10 "					
7B308	7B309	"	x 12 "					
7B310	7B311	"	x 15 "					
7B312	7B313	Holoscopic	x 7 "					
7B314	7B315	"	x 10 "					
7B316	7B317	"	x 14 "					
7B318	7B319	"	x 20 "		7B331	Extra for fitting pointer to eyepieces (Huyghenian type only) at time of ordering eyepiece	- - -	
7B320	7B321	Compensating	x 4 "					
7B322	7B323	"	x 6 "					
7B324	7B325	"	x 8 "					
7B334	7B335	"	x 10 "					
7B275	—	Micrometer	x 5 "		7B370	Pinhole eyepiece for centring -		
7B326	—	"	x 6 "					
7B327	—	"	x 8 "		7B371	Pinhole eyepiece cap with adjustable iris diaphragm -		
7B328	—	"	x 10 "					
7B330	—	"	x 15 "					

OPTICAL ACCESSORIES



MICROMETERS

Eyepiece Micrometers. On 21 mm. diam. discs to fit all standard eyepieces except the Holoscopic series and the x 15 Micrometer Eyepiece: 18 mm. diam. discs are supplied for these. We would however, recommend employing micrometer eyepieces incorporating a focusing eye lens, listed on page 6.

Code No.		£	s.	d.
7B332	Scale of 10 mm. divided into 100 parts, each division = 0.1 mm.	-	-	-
7B336	Scale of 10 mm. divided into 100 parts, each division = 0.1 mm. but with cross lines	-	-	-
7B337	Scale of 5 mm. divided into 100 parts, each division = 0.05 mm.	-	-	-
7B338	Scale of 2 mm. divided into 100 parts, each division = 0.02 mm.	-	-	-
7B339	Step Wedge of 10 mm. with 100 divisions numbered	-	-	-
7B340	Square, each side 1 cm., divided into 1.0 mm. squares	-	-	-
7B341	Circle divided into 0.5 mm. squares	-	-	-
7B342	Circle divided into 0.25 mm. squares	-	-	-
7B390	Total area ruled into 1 mm. squares	-	-	-
7B391	Circle 1 cm. in diameter, ruled into 1 mm. squares	-	-	-
7B392	Scale of 5 mm., divided into 1 and 0.1 mm. parts	-	-	-
7B393	Scale of 5 mm., divided into 1 and 0.2 mm. parts	-	-	-

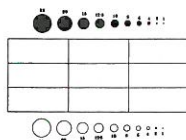
Eyepiece Graticules

Code No.		£	s.	d.
7B343	Simple Cross Lines	-	-	-
7B333	Patterson Globe and Circle for Dust counting	-	-	-
7B663	Patterson Graticule, simple ruling	-	-	-
7B345	For use with the Howard Mould Counting Chamber	-	-	-
7B662	Whipple ruling	-	-	-

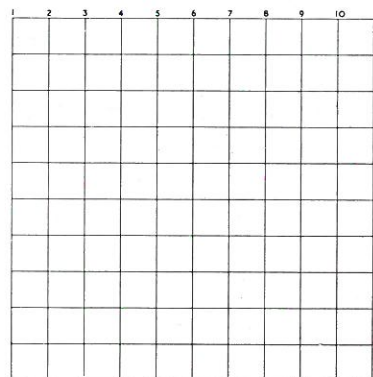
The value of a division in any Eyepiece Micrometer is ascertained by means of a Stage Micrometer and varies with every objective and every tube length setting. The actual size of each division is therefore immaterial as long as all divisions are equally spaced.



7B332



7B333



7B340

Stage Micrometers (on 3" x 1" Best quality glass slips with cover glass)

Code No.		£	s.	d.
7B100	Divisions of 0.1 and 0.01 mm.	-	-	-
7B101	Divisions of 0.01 and 0.001 inches	-	-	-
7B347	Cross Lines ruled at Centre of 3" x 1" slide	-	-	-

Screw Micrometer Eyepiece. This eyepiece is fitted with fixed and movable vertical webs. The movable web is operated by the engraved drum at the side and passes across a comb, the teeth of which are cut one millimetre apart. The web has a maximum travel of 9.5 mm. A reading can be taken to 1/100th part of a millimetre.

Code No.		£	s.	d.
7B56	Screw Micrometer Eyepiece, complete in Aluminium	-	-	-
7B57	" " " " Brass	-	-	-

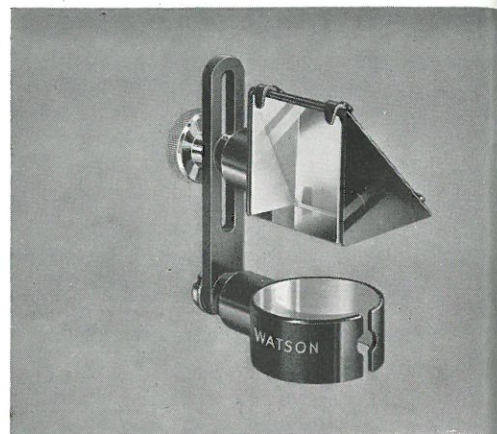


OPTICAL ACCESSORIES

PROJECTION AND DRAWING

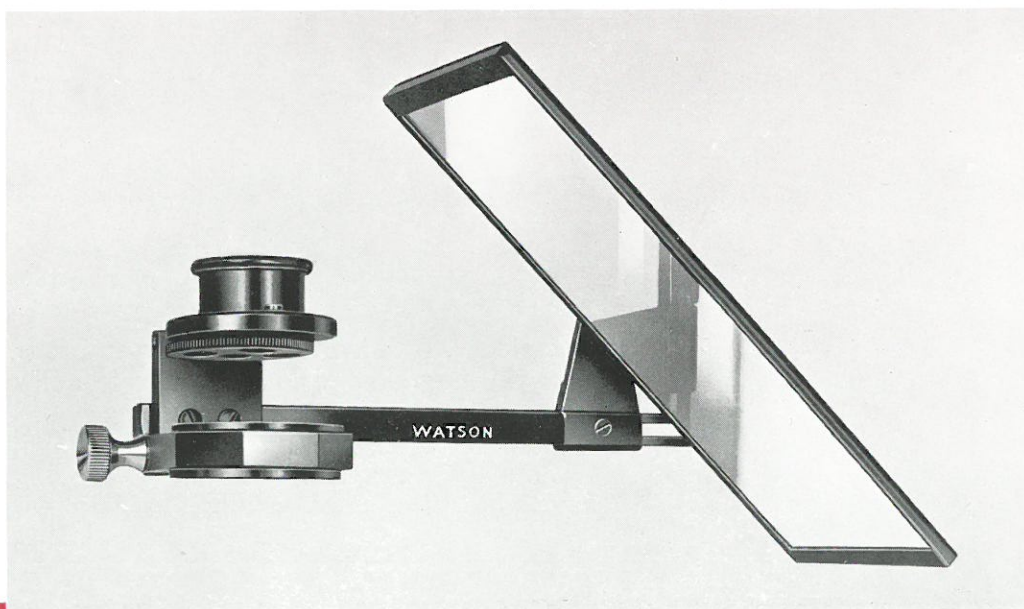
Projection and Drawing Prism. An accurate method of drawing a microscopic object is to project its image upon paper and to trace its outlines direct. This can be done by placing the microscope with its axis horizontal and attaching the Prism over the eyepiece. This method can also be used for projection on to a screen over short distances in teaching.

Code No.	£	s.	d.
7B152 Projection and Drawing Prism	-	-	-



The Abbe Camera Lucida. Improvements have recently been introduced in this model and it can now be used with any standard size eyepiece and by an observer without any previous experience or skill in drawing. There is liberal adjustment to the beam splitting prism for placing correctly with various eyepieces. Three filters are provided, mounted beneath the Abbe Cube.

Code No.	£	s.	d.
7B151 Abbe Camera Lucida in Case	-	-	-
7B248 Set of rotating neutral filters fitted in the path of the projected ray, at the time of supply of Camera Lucida	-	-	-





OPTICAL ACCESSORIES

CONDENSERS

Universal No. 1 Achromatic Condenser. A triple back lens is used to obtain a high correction of spherical aberration and a large aplanatic aperture. It is corrected for slips of 1.2 mm. thickness but can be used with slips slightly less in thickness by partly unscrewing the front lens so that it touches the slip when in focus. The total aperture is 1.0, the aplanatic aperture complete is 1.0, and with the front lens removed 0.4. The focal length is 10.0 mm., and with the front lens removed 20 mm. The diameter of the back lens is 20 mm.

Universal No. 2 Achromatic Condenser (long focus). This condenser has been specially computed to meet the occasional demand for an Achromatic condenser with the maximum aperture of back lens. It is similar in design to the No. 1 Universal but by the use of special optical glasses the diameter of the back lens has been increased to 27 mm. Its focal length is 14 mm. and 28 mm. with the front lens removed. The remaining optical data are the same as for the No. 1.

Holoscopic Oil Immersion Condenser. The corrections for chromatic and spherical aberrations are effected by a triple cemented back combination. It can be used with slides up to 1.4 mm. in thickness and will give an aplanatic cone equal to its aperture. This condenser may be used dry (without immersion oil) or with the front lens removed for low power objectives. The focal length is 5.5 mm., and 12 mm. with the top lens removed. The full aperture is 1.30 N.A. when oil immersed, 1.0 when used dry and 0.60 with top lens removed. The aplanatic aperture when used dry is 0.92 N.A., and 0.55 N.A., with top lens removed.

Aplanatic Condenser. This is a three lens Abbe illuminator which can be used with all powers of Achromatic objectives. When used as an immersion condenser the numerical aperture is 1.40, or 1.0 if used dry ; the equivalent focus is 9.5 mm. With the top lens removed the aperture is reduced to 0.6 and the focal length is 14.5 mm.

Abbe Illuminator. This is a two lens uncorrected illuminator the maximum numerical aperture of which is N.A. 1.20. It is useful for simple routine work with achromatic objectives and lower power dark ground illuminator.





OPTICAL ACCESSORIES

CONDENSERS

Macro Illuminator. This is an excellent achromatic lens for illuminating large objects (up to 0.5 in. in dia.) for low power photomicrography.

Zonal Dark Ground Condenser. This condenser is catoptric and designed on the concentric principle. It is intended to work through a slip of 1.2 mm. thick and must be used in oil contact with the slide. The objective aperture needs to be reduced to a value of unity by means of a funnel stop or iris diaphragm within the objective and under these conditions an intense black background is obtained.

Zonal Dark Ground Condenser, Dry Model. This is similar to that described above but it has been specially designed for use with counting chambers. It is suitable for use with 4 mm. objectives and lower powers. A funnel stop is required for objectives of N.A. higher than 0.50.

Prices

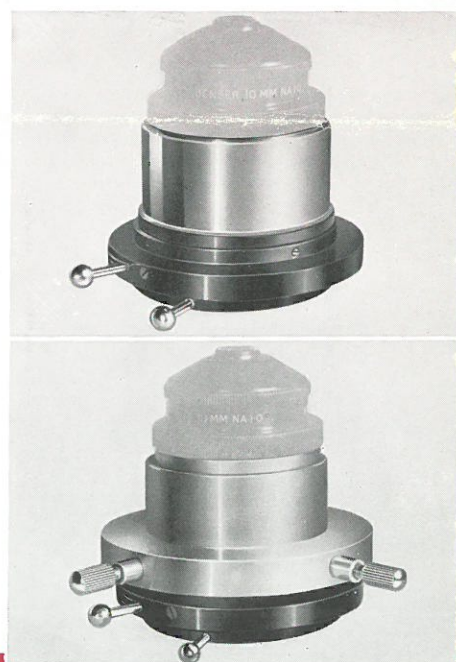
Code No.	Type	£ s. d.		
7B180	Universal No. 1 Condenser (Optical Part only)	-	-	-
7B176	Universal No. 2	-	-	-
7B184	Holoscopic Oil	-	-	-
7B192	Aplanatic	-	-	-
7B196	Abbe Illuminator	-	-	-
7B174	Macro Illuminator	-	-	-
7B188	Zonal Dark Ground	-	-	-
7B189	" " " Dry "	-	-	-
7B156	Set of Metal Stops in box for dark ground with low powers	-	-	-
7B155	Funnel Stop to fit into O.I. objectives for dark ground	-	-	-
7B664	" " for use with Zonal dry condenser	-	-	-

Plain Condenser Mount with precentred iris diaphragm and filter carrier. (Illustrated with condenser in position).

Code No.	£ s. d.
7B158 Plain Condenser Mount	- - -

Centring Condenser Mount with tubular condenser sleeve, centring adjustment, precentred iris diaphragm and filter carrier. By adjusting the centring screws the condenser and the precentred iris diaphragm together can be axially aligned with the optical system. (Illustrated with condenser in position).

Code No.	£ s. d.
7B159 Centring Condenser Mount	- - -
7B751 Adapter to mount condensers with R.M.S. objective thread to mounts with Abbe thread	- - -



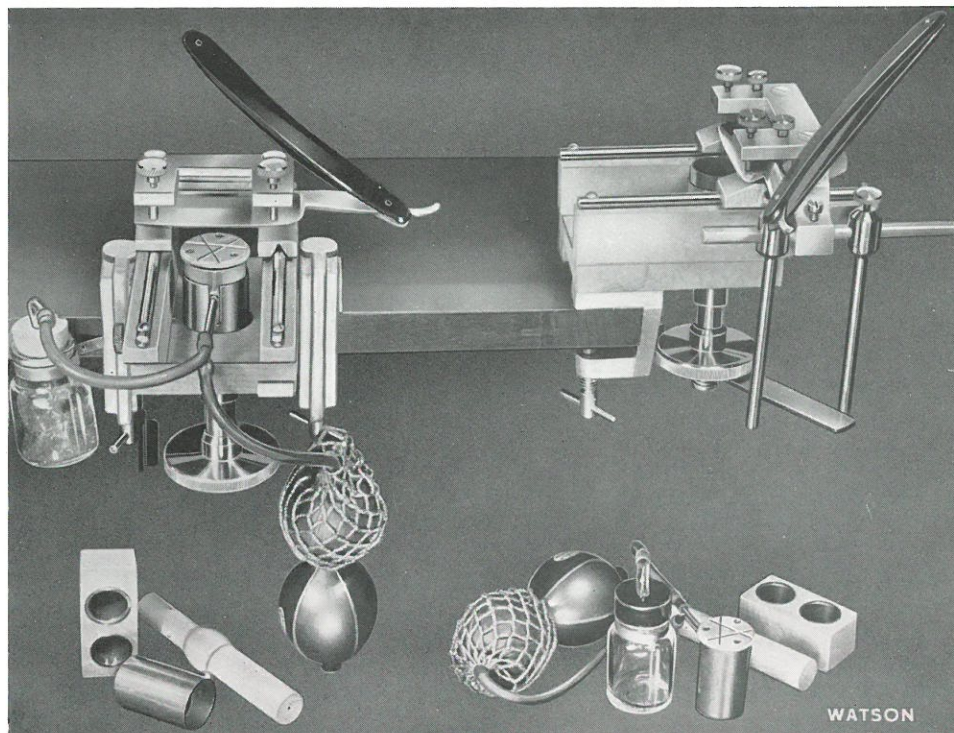
MICROSCOPE ACCESSORIES



MICROTOMES

Cathcart Microtome.

This is a robust simple type of microtome (illustrated on left of picture), suitable for schools, etc. It is simple to operate and sections may be cut from specimens embedded in paraffin wax and pith; it also has an ether freezing attachment for cutting frozen sections. The razor is held in a carrier which slides on two rails, and the thickness of the specimen is regulated by the "click" register on the large knurled head which is used for raising the specimen holder.



Code No.

£ s. d.

7B395	Cathcart Microtome, complete as illustrated	-	-	-	-	-	-	-	-
7B398	Extra Razor	-	-	-	-	-	-	-	-

7B396 This is very similar to Model 395 described above, with the exception that a razor and carrier are not supplied, but instead an iron section knife in holder and further, the "click" mechanism is omitted

7B399	Extra Cutting Iron	-	-	-	-	-	-	-	-
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Cathcart-Darlaston Microtome. On referring to the instrument illustrated on right of picture, it will be seen that this model is similar in general principle to those previously described, but it has modifications which will permit the cutting of sections of a definite thickness. The modifications consist of the addition of a mechanism for automatically advancing the specimen for any pre-determined distance. The return movement of the razor carriage automatically raises the section by the selected amount ready for cutting.

Code No.

£ s. d.

7B397	Cathcart-Darlaston Microtome, complete as illustrated	-	-	-	-	-	-	-	-
7B398	Extra Razor	-	-	-	-	-	-	-	-

Hand Section-Cutter. A simple but solidly constructed hand microtome with $1\frac{1}{2}$ in. diameter barrel and a well $\frac{11}{16}$ in. in diameter. The raising screw has 36 threads to the inch and can be adjusted to a fine degree.

Code No.

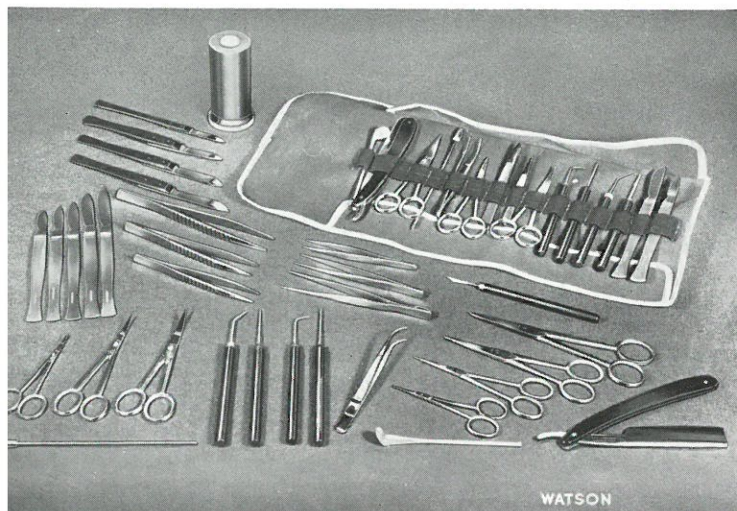
£ s. d.

7B373	Hand Section Cutter	-	-	-	-	-	-	-	-
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MICROSCOPE ACCESSORIES

DISSECTING INSTRUMENTS AND SLIDE BOXES



Dissecting Instruments.

Code No.		£	s.	d.
7B466	Canvas Roll for dissecting instruments			
7B465	Microtome Razor, flat one side	-	-	-
7B464	Diamond Pencil	-	-	-

Slide Cabinets.

Fitted with trays to hold slides flat, with white knobs and index plates, glazed door with key, finished light or dark colour.

	Code No.	£	s.	d.		Code No.	£	s.	d.
To hold 500, overall size 15" x 11" x 9" high	Pine				Oak				
" 1,000 " " 15" x 11" x 15" "	7B620				7B624				
	7B621				7B625				

Estimates submitted for larger sizes.

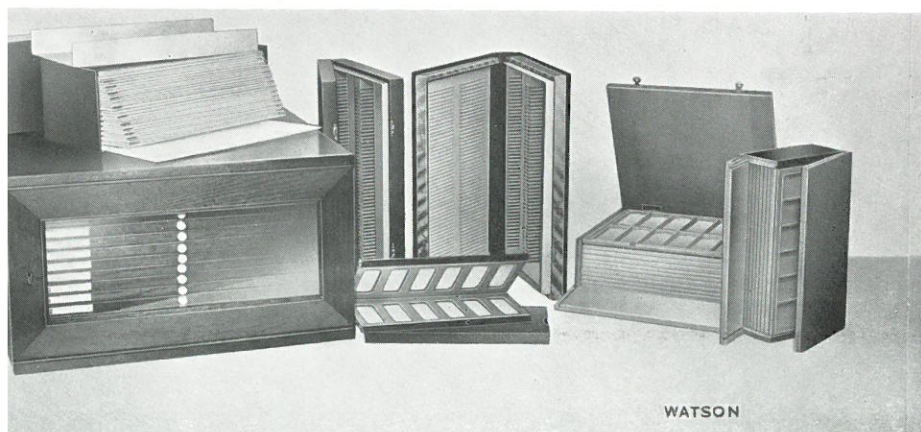
Microscope Slide Boxes.

Cloth-covered cardboard, drop fronts, white card trays with jointed flaps. Slides are stored flat.

Code No.		£	s.	d.	Code No.		£	s.	d.
7B468	6 Trays to hold 54	-	-	-	7B470	16 Trays to hold 144	-	-	-
7B469	12 " " " 108	-	-	-					

Polished wood slide boxes with partitioned trays, lift-up lids and drop fronts for storing slides flat.

Code No.		£	s.	d.	Code No.		£	s.	d.
7B471	6 Trays to hold 36	-	-	-	7B473	12 Trays to hold 72	-	-	-
7B472	8 " " " 48	-	-	-	7B474	12 Double Trays to hold 144	-	-	-



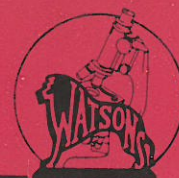
Rack Slide Cases

Code No.		£	s.	d.
7B475	Cloth Covered, book form with index, to hold 100 slides	-	-	-
7B476	Paper Covered, with Index, to hold 100 slides	-	-	-
7B477	Wooden, semi-polished, to hold 100 slides	-	-	-

Folding Pocket Cases

Code No.		£	s.	d.
7B478	To hold 12 slides	-	-	-
7B479	" 6 "	-	-	-

OPTICAL ACCESSORIES



DUST COVERS, TROUGHS, ETC.

Dust Covers. These covers are made from plastic material with welded seams, and fit comfortably over the microscope. They are made in three sizes.

Code No.						£	s.	d.
7B617	14" × 8"	Suitable for Kima Microscope	-	-	-	-	-	-
7B618	16" × 9"	Suitable for Service II and all Stereoscopic Microscopes	-	-	-	-	-	-
7B619	17" × 11"	Suitable for Service I and Bactil Microscope	-	-	-	-	-	-

Glass Troughs. These troughs, whether subjected to heat, acid or any other dissolving agent, remain intact and water tight. The plate glasses forming the sides are optically polished and parallel to each other, and they can be used for the storage and examination of material with the microscope, or as light filter tanks.

Code No.	Outside measurements	£	s.	d.	Code No.	Outside measurements	£	s.	d.
7B611	4" × 4" × 1" -	-	-	-	7B614	2½" × 2" × 1" -	-	-	-
7B612	3⅜" × 3" × 1" -	-	-	-	7B615	2½" × 2" × ¾" -	-	-	-
7B613	3⅜" × 3" × ⅝" -	-	-	-					

Object Marker. This is a diamond object marker which has an objective base to screw into the nosepiece of the microscope. A rotating mount is attached to this base and carries a stem mounted on a pressure spring within a centring mount. By this means the cutting diamond mounted on the end of the stem can be used to scribe a dot or a circle between 1.5 mm. and 4 mm. diameter on the cover-glass.

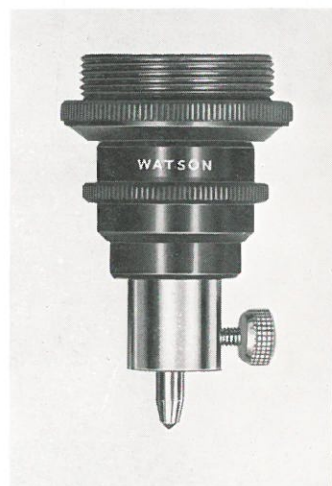
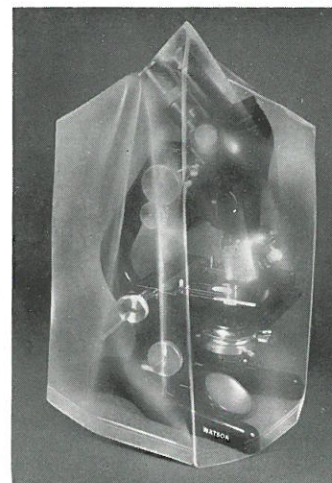
Code No.						£	s.	d.
7B249	Diamond Object Marker in Box	-	-	-	-	-	-	-

Mirrors.

Code No.									
7B632	Surface aluminised plane mirror, 60 mm. diameter, mounted	-	-	-	-	-	-	-	-
7B633	Surface aluminised plane mirror, 50 mm. diameter, mounted	-	-	-	-	-	-	-	-
7B694	50 mm. diameter Plano and Concave Mirrors for "Service II" Microscope, mounted	-	-	-	-	-	-	-	-
7B695	50 mm. diameter Plano and Concave Mirrors for "Service II" Microscope, mounted and with gymbal and stem	-	-	-	-	-	-	-	-
7B696	60 mm. diameter Plano and Concave Mirrors for "Bactil" and "Service I" Microscope, mounted	-	-	-	-	-	-	-	-
7B697	60 mm. diameter Plano and Concave Mirrors for "Bactil" and "Service I" Microscope, mounted and with gymbal and stem	-	-	-	-	-	-	-	-

Lens Cleaning Tissues.

Code No.							£	s.	d.
7B634	In pads of 4" × 3" with 50 tissues	-	-	-	-	-			
							per dozen pads		





MICROSCOPE ACCESSORIES

BLOOD COUNTING CHAMBERS

COUNTING AND MOIST CHAMBERS

Code No.									£ s. d.
7B599	Counting Chamber, Single Cell, Thoma Ruling	-	-	-	-	-	-	-	
7B600	" " " " Neubauer Ruling	-	-	-	-	-	-	-	
7B601	" " " " Improved Neubauer Ruling	-	-	-	-	-	-	-	
7B602	" " " " Bürker Ruling	-	-	-	-	-	-	-	
7B603	" " " " Türck Ruling	-	-	-	-	-	-	-	
7B604	" " " " Fuchs-Rosenthal Ruling	-	-	-	-	-	-	-	
7B605	Counting Chamber, Double Cell, Thoma Ruling	-	-	-	-	-	-	-	
7B606	" " " " Neubauer Ruling	-	-	-	-	-	-	-	
7B607	" " " " Improved Neubauer Ruling	-	-	-	-	-	-	-	
7B608	" " " " Bürker Ruling	-	-	-	-	-	-	-	
7B609	" " " " Türck Ruling	-	-	-	-	-	-	-	
7B610	" " " " Fuchs-Rosenthal Ruling	-	-	-	-	-	-	-	

Complete Hæmacytometers can be supplied upon receipt of full particulars

Excavated Slips.

Code No.									£ s. d.
7B596	3" x 1" Best quality slip with circular cavity 15 mm. diameter	-	-	-	-	-	-	-	
7B597	" " " " " 2 circular cavities 15 mm. diameter	-	-	-	-	-	-	-	
7B598	" " " " " 3 " " " "	-	-	-	-	-	-	-	

Howard Mould Counting Chamber.

Code No.									£ s. d.
7B537	This has been designed in particular for the counting of moulds in jams, ketchups, fruit juices, etc., used with x 10 eyepiece and 16 mm. objective on a monocular microscope. Complete with two cover glasses	-	-	-	-	-	-	-	
7B345	Eyepiece Graticule for use with x 10 eyepiece for above	-	-	-	-	-	-	-	

Simple Type Moist Chambers.

Code No.									£ s. d.
7B657	Polished Glass Slip 3 in. x 1 in., with square glass plate cemented on, with an aperture either 15 mm. or 18 mm., diameter 2 mm. deep	-	-	-	-	-	-	-	
7B658	Polished Glass Slip 3 in. x 1 in., with glass circle cemented on, with an aperture either 15 mm. or 18 mm., diameter 2 mm. deep	-	-	-	-	-	-	-	

Sperm Invasion Slide.

Code No.									£ s. d.
7B616	This was designed for the examination of the penetration of cervical mucus by spermatozoa	-	-	-	-	-	-	-	

MICROSCOPE ACCESSORIES



MOUNTING MATERIAL

Cover Glasses. Made in best quality glass in three thicknesses, and packed in $\frac{1}{2}$ oz. boxes (no lesser quantity can be supplied).

No. 1 approx. 0.15 mm., No. 2 approx. 0.2 mm., No. 3 approx. 0.3 mm.

Circles	-	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	diameter	Squares	-	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	square
Code Letter		A	B	C		Code Letter		A	B	C	
Code No.					£ s. d.	Code No.					£ s. d.
7B400	No. 1 Thickness				per 1 oz.	7B403	No. 1 Thickness				per 1 oz.
7B401	" 2	"	"	"	"	7B404	" 2	"	"	"	"
7B402	" 3	"	"	"	"	7B405	" 3	"	"	"	"

Glass Slides or Slips. These are 3 in. x 1 in. (26 mm. x 76 mm.) with ground edges and are offered in various thicknesses in $\frac{1}{2}$ gross boxes.

Code No.								Per $\frac{1}{2}$ Gross	Per Gross
								£ s. d.	£ s. d.
7B541	Best quality white glass, thickness	0.8-1.0 mm.	-	-	-	-			
7B542	" " " " " "	1.0-1.2 mm.	-	-	-	-			
7B543	" " " " " "	1.2-1.5 mm.	-	-	-	-			

Labels

Code No.									£ s. d.
7B409	Adhesive Slide Labels, square, ruled 3 lines	-	-	-	-	-	per 100		
7B410	" " " " " " 4 "	-	-	-	-	-	" 100		
7B411	" " " " oval, plain	-	-	-	-	-	" 100		

Cell Rings

Code No.	Aluminium Cell Rings in three diameters	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "					£ s. d.
	Code Letters	A	B	C					
7B406	Cell Rings $\frac{1}{16}$ " thick	-	-	-	-	-	per doz.		
7B407	" " $\frac{1}{24}$ " "	-	-	-	-	-	"		
7B408	" " $\frac{1}{32}$ " "	-	-	-	-	-	"		

Brushes

Code No.									£ s. d.
7B412	Ring Brush	-	-	-	-	-	-	-	





MICROSCOPE ACCESSORIES

MOUNTING MATERIAL

Turntable. The brass engraved table is balanced in the normal way on a hardened steel pin and rotates on a dead hard steel ball, ensuring a smooth and steady revolution.

Code No.		£	s.	d.
7B414	Turntable	-	-	-

Cleaners

Code No.		£	s.	d.
7B413	Buff Blocks for cleaning cover glasses -	-	-	-
				per pair

Mounting Media

Code No.		Grms.	£	s.	d.	Code No.		Grms.	£	s.	d.
7B418	Asphalt Varnish -	25				7B427	Glycerine Albumin -	25			
7B580	Brunswick Black -	25				7B424	" Jelly Neutral -	25			
7B415	Canada Balsam Natural -	25				7B419	Gold Size -	25			
7B416	" " in Xylol -	25				7B587	Oil Cedarwood, for clearing -	25			
7B417	" " in Benzol -	25				7B422	Styrax -	25			
7B581	Cement for Cover Glasses (Kronig) -	25				7B590	Xam Neutral Medium (Gurr) -	25			
7B582	Cement for Cover Glasses (Noyer) -	25				7B428	Zinc Cement -	100			
7B583	Clearax Mounting Medium, R.I. 1.666 -	25				7B588	Paraffin Wax, filtered, tablets m. pts. 39°, 45°, 50°, 52°, 54°, 56°, 58°, 63° and 66° -	lb.			
7B421	Clove Oil -	25				7B586	Immersion Oil, Non-Drying, Bott. 1/2 oz.				
7B584	DePeX Mounting Medium -	25				7B698	" " " 1 oz.				
7B429	Euparal -	25				7B699	" " " 2 ozs.				
7B430	" Essence -	25				7B690	" " " 4 ozs.				
7B426	Farrants' Medium -	25				7B691	" " " 8 ozs.				

Microbiological Stains—Dry

Code No.		Grms.	£	s.	d.	Code No.		Grms.	£	s.	d.
7B591	Aniline Blue, soluble in alcohol -	5				7B553	Gentian Violet -	5			
7B592	Biebrich Scarlet -	5				7B554	Hæmatoxylin -	5			
7B593	Bismark Brown -	5				7B555	Leishman Stain -	5			
7B594	Borax Carmine -	5				7B556	Light Green -	5			
7B595	Brilliant Cresyl Blue -	5				7B557	Malachite Green -	5			
7B659	Brilliant Green -	5				7B558	Methyl Green -	5			
7B546	Carmine -	5				7B559	" Violet 6B -	5			
7B547	Chrysoidin -	5				7B560	Methylene Blue, pure for Bacteria -	5			
7B548	Congo Red -	5				7B561	Orange G -	5			
7B549	Crystal Violet -	5				7B562	Phloroglucinol -	5			
7B550	Eosin, soluble in water, yellowish -	5				7B563	Safranin O, water and alcohol soluble -	5			
7B551	Fuchsin Acid -	5				7B564	Scarlet R. Fat Stain (Michælis) -	5			
7B552	Fuchsin, Basic. For Bacteria, Feulgen's Reaction and elastin stain -	5				7B565	Tartrazine -	5			

Stains in Solution

Code No.		Mls.	£	s.	d.	Code No.		Mls.	£	s.	d.
7B566	Aniline Gentian Violet (Stable) -	50				7B572	Hæmatoxylin, Delafield -	50			
7B567	Carbol Fuchsin (Ziehl-Neelsen) -	50				7B573	" Ehrlich Acid -	50			
7B568	" Gentian Violet -	50				7B574	Leishman's Stain -	50			
7B569	Borax (Grenacher) Alcoholic -	50				7B575	Light Green in Clove Oil -	50			
7B570	Eosin Aqueous -	50				7B576	" " (Masson) -	50			
7B571	Giemsa Stain, Gurr's Improved -	50				7B577	Alkaline (Löffler) -	50			
						7B578	Phloroglucinol Solution -	50			
						7B579	Safranin, Aqueous -	50			

Stains and Reagents can be supplied in tablet form.

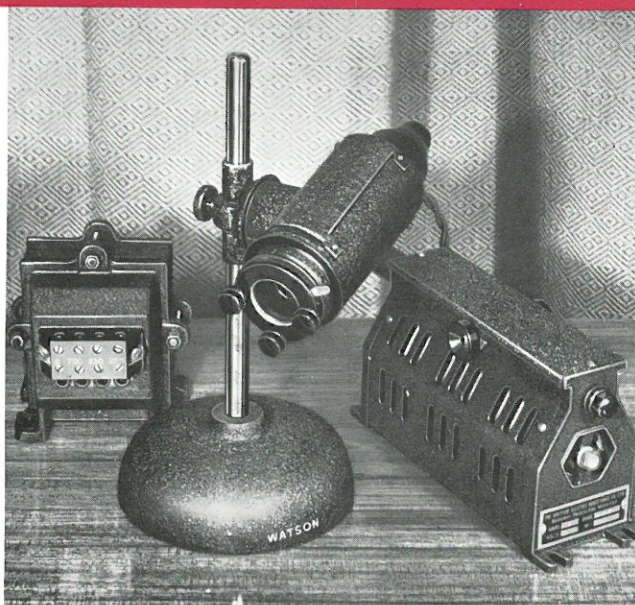
MICROSCOPE ACCESSORIES



LAMPS

"Vril" Lamp. The 6 v. 30 w. bulb is mounted in a metal lamp hood; in front of this is fitted a condensing lens in a sliding tube which also carries a double filter holder and iris diaphragm. The hood is mounted on a vertical pillar with a heavy metal base. Adjustments are provided for height and inclination.

Code No.		£	s.	d.
7B267	"Vril" Lamp as described - - -			
7B268	Transformer for use with the above lamp off 200/250 v. A.C. - - -			
7B269	Resistance to work in conjunction with the above Transformer to control the intensity of light - - -			
7B266	Spare Bulb 6 v. 30 w. - - -			



"Universal" Lamp. This model is designed for use with the Pointolite bulb and in a simple form is suitable for gas-filled bulbs. The metal housing is fitted with a small bar on which is a double filter carrier, condenser and iris diaphragm. These can be adjusted for focus, etc., and clamped. The whole is mounted on an arm on which the lamp can be inclined or adjusted for height on a vertical pillar rising from a heavy base.

Code No.		£	s.	d.
7B271	"Universal" Lamp, complete as described and illustrated, with 150 c.p. Pointolite Bulb A.C. - - -			
7B747	As above but for D.C. - - -			
7B272	Resistance for working the lamp off 230/250 v. A.C. - - -			
7B749	As above but for D.C. - - -			
7B273	Spare 150 c.p. Pointolite Bulb - - -			
7B748	As above but for D.C. - - -			
7B270	"Universal" Lamp without arm, condenser, iris or carrier, with 60 watt bulb - - -			



Substage Lamp. This electric-light attachment for the substage is designed to fit into the microscope tailpiece and is clamped in place of the stem of the mirror. This permits the use of any type of condenser in the substage. It is complete with a 6 v. 18 w. lamp and condenser lens, and a transformer with control for the intensity of light.

Code No.		£	s.	d.
7B154	Substage Lamp complete as described, suitable for 200/250 v. A.C. - - -			
7B274	Spare Bulb 6 v. 18 w. - - -			

Please advise voltage when ordering.





MICROSCOPE ACCESSORIES

LAMPS

Bench Lamp. This is a simple lamp housing with a hinged cowl to prevent stray rays of light reaching the observer's eyes. The casing is finished in crackle black enamel and is supplied with a blue glass fitted in the front. The lamp is supplied complete with connecting flex and a 60 w. obscured bulb.

Code
No.

£ s. d.

7B264 Bench Lamp complete with 60 watt
bulb - - - - -

"Spot" Lamp. This small lamp, which was originally designed for use with the Stereoscopic Microscopes, when mounted on the small circular base can be used for a variety of purposes. The two joints in the arm allow the lamp house to be adjusted to any angle required to direct the light beam on to the object or the microscope mirror. The focusing lens ensures that maximum illumination is obtained. The bulb is 6 volt 18 watt and is fed through a Light Control Unit—a transformer which is provided with a regulating resistance and an on-and-off switch.

Code
No.

£ s. d.

7B278 "Spot" Lamp complete with Light
Control Unit for 230 v. A.C. - -

7B279 "Spot" Lamp complete with Light
Control Unit for 110 v. A.C. - -

7B274 Spare Bulb 6v. 18 w. for "Spot" Lamp

"Regulite" Lamp. This lamp is fitted with a 6 v. 30 w. projector type bulb, mounted in a metal hood with centring screws to the lamp holder. An aplanatic condenser with iris diaphragm and a double filter holder is mounted on the front of the hood which has a multiple thread focusing adjustment. The hood is mounted in a trunnion fitting attached to the upper surface of a housing containing a transformer and rheostat which controls the intensity of light; an "on" and "off" switch is also provided. For mains current supply 200/250 v. A.C., also 110 v. A.C. with ground glass disc.

Code
No.

£ s. d.

7B153 "Regulite" Lamp as described -

7B266 Spare bulb 6 v. 30 w. - - -

7B173 Adjustable adaptor for raising "Regu-
lite" lamp in housing above transformer

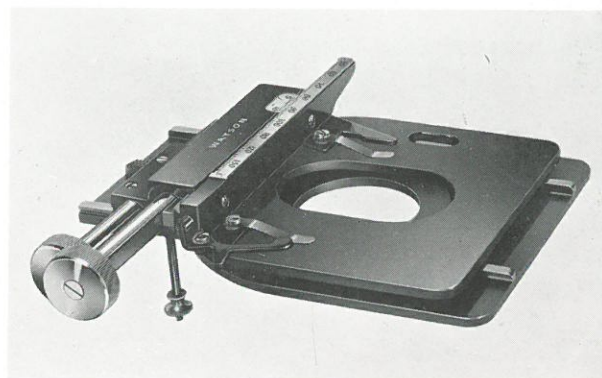
Please advise voltage when ordering.

MICROSCOPE ACCESSORIES



ATTACHABLE MECHANICAL STAGES, &c.

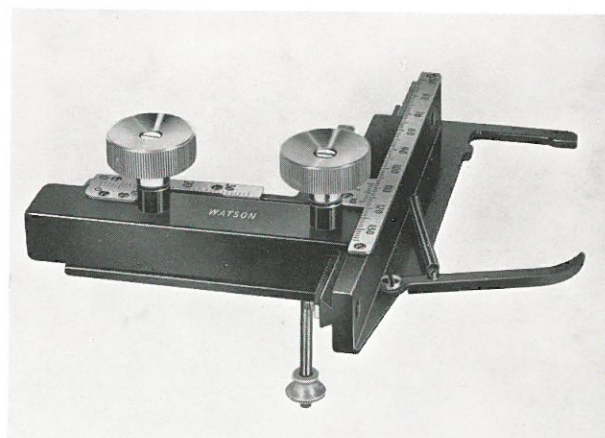
The "Service" Attachable Mechanical Stage. This stage is suitable for all Service microscopes and is secured to the plain stage by plugs passing through and clamping below the stage spring apertures, and when thus fitted is held quite rigid. The lateral motion of 76 mm. is achieved by rack and helical pinion guaranteeing long life combined with precise movement. The rackwork for the 37 mm. transverse motion is mounted centrally upon the base plate, thus minimising wear and giving theoretical direct drive. Millimetre scales are provided for each movement reading by verniers to 0.1 mm.



Code No.	£	s.	d.
7B60 "Service" attachable Mechanical Stage -			
7B750 Adapter to raise condenser when the "Service" mechanical stage is fitted to a "Service" microscope - - -			

The "Student" Attachable Mechanical Stage.

Provision is made for attachment to the microscope by plugs passing through and clamping below the stage spring holes. This stage is solidly constructed of two castings with rack and pinion movements in each direction, which are provided with millimetre scales and verniers reading to 0.1 mm.



Code No.	£	s.	d.
7B61 "Student" attachable Mechanical Stage -			
7B62 "Student" attachable Mechanical Stage without scales and verniers - - -			

Warm Stage. This is a simple warming stage and is operated direct from A.C. mains up to 250 volts. The temperature is adjustable and it is thermostatically controlled, which automatically maintains the temperature constant to within 0.1°.

Code No.	£	s.	d.
7B631 Warm stage as described - - - - -			
7B752 Stage clips for plain microscope stages - - - - -			



MICROSCOPE ACCESSORIES

FILTERS, TROUGHS, BOOKS

Chance-Watson Filters. These "pot glass" optical light filters provide a range of glasses in high transmission, and in many cases combined with sharpness of "cut" in the spectrum. The transmission curves include loss of light by surface reflection and are for a glass thickness of 2 mm. Being "pot glass" the tint is permanent and is evenly distributed throughout.

Index	Colour	Chance No.	Transmission	Index	Colour	Chance No.	Transmission
1	Ruby	OR1	5%	9	Daylight Blue	OB8	24%
2	Red	OR2	21%	10	Blue	OB10	0.9%
3	Deep Orange	OY1	42%	11	Purple	OVI	0.2%
4	Orange	OY2	60%	12	Neutral	ON10	7%
5	Yellow	OY3	77%	13	Ultra Violet	OX1	0.02%
6	Light & Ortho	OY13	73%	14	Infra Red	OX2	0.01%
7	Green	OGR1	22%	15	Ultra Violet	OX7	0.10%
8	Blue Green	OB2	22%	16	*Heat absorbing	ON20	

Code No. £ s. d.

7B52 Chance-Watson light filter, 1 $\frac{3}{8}$ " (35 mm.) diameter - - - - -

7B53 Chance-Watson light filter, 2" x 2" (50 mm. x 50 mm.) - - - - -

7B753 Case to hold 10 1 $\frac{3}{8}$ " diameter filters - - - - -

7B754 Case to hold 10 2" x 2" filters - - - - -

*7B755 Chance-Watson Heat Absorbing filter 1 $\frac{3}{8}$ " diameter - - - - -

*7B756 " " " " " 2 x 2 " - - - - -

When 10 filters are supplied at one time a case is supplied free of charge.

Books. Below are a small selection from the large number of books in stock.

Code No.										£ s. d.
7B666	Animal Cytology & Evolution	by	M. J. D. White	-	-	-	-	-	-	
7B667	Biological Staining Methods	by	G. T. Gurr	-	-	-	-	-	-	
7B660	Elementary Histological Technique	by	T. Holder	-	-	-	-	-	-	
7B661	Handbook of Practical Bacteriology	by	T. J. Mackie & J. E. McCartney	-	-	-	-	-	-	
7B668	How to Use the Microscope	by	Hall	-	-	-	-	-	-	
7B669	Lecture Notes on the Use of the Microscope	by	R. Barer	-	-	-	-	-	-	
7B670	Microscope Objects—How to Mount Them	by	J. C. Johnson	-	-	-	-	-	-	
7B671	Microtome's Vade-Mecum (Bolles Lee)	by	Gatenby & Beams	-	-	-	-	-	-	
7B672	Notes on Diatoms	by	Taylor	-	-	-	-	-	-	
7B673	Photomicrography	by	C. P. Shillaber	-	-	-	-	-	-	
7B674	Practical Microscopical Metallography	by	Greaves & Wrighton	-	-	-	-	-	-	
7B675	Practical Microscopy	by	Martin & Johnson	-	-	-	-	-	-	
7B676	Practical Section Cutting & Staining	by	E. C. Clayden	-	-	-	-	-	-	
7B677	Prism & Lens Making	by	F. Twyman, F.R.S.	-	-	-	-	-	-	
7B678	The Binocular Microscope	by	Ockenden & Sartory	-	-	-	-	-	-	
7B679	The Intelligent Use of the Microscope	by	C. W. Olliver	-	-	-	-	-	-	
7B680	The Microscope	by	Theodore Stephanides	-	-	-	-	-	-	
7B681	The Microscope—Its Theory & Application	by	J. H. Wredden	-	-	-	-	-	-	
7B682	The Principles of Practical Bacteriology	by	Johnson & Simpson	-	-	-	-	-	-	
7B683	The Use of the Microscope	by	J. Belling	-	-	-	-	-	-	
7B684	Working with the Microscope	by	J. D. Corrington	-	-	-	-	-	-	



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Compensating Eyepieces	-	-	-	-	-	6	Pinhole Eyepieces	-	-	-	-	-	-	-	6
"Complex" Eyepieces	-	-	-	-	-	6	Plain Condenser Mount	-	-	-	-	-	-	-	10
Condensers	-	-	-	-	-	9, 10	Plastic Dust Covers	-	-	-	-	-	-	-	13
Condenser Mounts	-	-	-	-	-	10	Pointer Eyepieces	-	-	-	-	-	-	-	6
Counting Chambers	-	-	-	-	-	14	Polariser	-	-	-	-	-	-	-	5
Cover Glass Cleaners	-	-	-	-	-	16	Projection Prism	-	-	-	-	-	-	-	8
Cover Glasses	-	-	-	-	-	15	Razors	-	-	-	-	-	-	-	12
Darkground Condensers	-	-	-	-	-	10	"Regulite" Lamp	-	-	-	-	-	-	-	18
Diamond Object Marker	-	-	-	-	-	13	Ringing Brushes	-	-	-	-	-	-	-	15
Diamond Pencil	-	-	-	-	-	12	Rotating Nosepieces	-	-	-	-	-	-	-	4
Dissecting Instruments	-	-	-	-	-	12	Scalpels	-	-	-	-	-	-	-	12
Dissecting Microscopes	-	-	-	-	-	1	Scissors	-	-	-	-	-	-	-	12
Dissecting Stand	-	-	-	-	-	2	Screw Micrometer Eyepiece	-	-	-	-	-	-	-	7
Drawing Prism	-	-	-	-	-	8	Section Cutter	-	-	-	-	-	-	-	11
Dust Covers	-	-	-	-	-	13	Section Lifter	-	-	-	-	-	-	-	12
Ehrlich's Eyepiece	-	-	-	-	-	5	Seekers	-	-	-	-	-	-	-	12
Eyepiece Graticules	-	-	-	-	-	7	Semi-Apochromatic Objectives	-	-	-	-	-	-	-	3, 4
Eyepiece Micrometers	-	-	-	-	-	7	"Service" Attachable Mechanical Stage	-	-	-	-	-	-	-	19
Eyepieces	-	-	-	-	-	5, 6	"Simplex" Dissecting Microscope	-	-	-	-	-	-	-	1
Excavated Slips	-	-	-	-	-	14	Single Lens Magnifier	-	-	-	-	-	-	-	3
Filters	-	-	-	-	-	37	Slide Boxes	-	-	-	-	-	-	-	12
Fluorite Objectives	-	-	-	-	-	3, 4	Slide Cabinets	-	-	-	-	-	-	-	12
Forceps	-	-	-	-	-	12	Slides, Glass	-	-	-	-	-	-	-	15
Glass Slides or Slips	-	-	-	-	-	13	Slips, Excavated	-	-	-	-	-	-	-	14
Glass Troughs	-	-	-	-	-	13	Slips, Glass	-	-	-	-	-	-	-	15
Graticules	-	-	-	-	-	7	Sperm Invasion Slide	-	-	-	-	-	-	-	14
Hand Section-Cutter	-	-	-	-	-	11	"Spot" Lamp	-	-	-	-	-	-	-	18
"Holoscopic" Condenser	-	-	-	-	-	9, 10	Stage Micrometers	-	-	-	-	-	-	-	7
"Holoscopic" Eyepieces	-	-	-	-	-	6	Stains	-	-	-	-	-	-	-	16
Howard Mould Counting Chamber	-	-	-	-	-	14	"Student" Attachable Mechanical Stage	-	-	-	-	-	-	-	19
Huyghenian Eyepieces	-	-	-	-	-	6	Substage Lamp	-	-	-	-	-	-	-	17
Illuminator, Abbe	-	-	-	-	-	9, 10	Troughs	-	-	-	-	-	-	-	13
Immersion Oil	-	-	-	-	-	16	Tube Length Corrector	-	-	-	-	-	-	-	5
Inclination Unit	-	-	-	-	-	5	Turntable	-	-	-	-	-	-	-	16
Labels	-	-	-	-	-	15	"Universal" Condenser	-	-	-	-	-	-	-	9, 10
Lamps	-	-	-	-	-	17, 18	"Universal" Dissecting Microscope	-	-	-	-	-	-	-	1
Lens Cleaning Tissues	-	-	-	-	-	13	"Universal" Lamp	-	-	-	-	-	-	-	17
Macro Illuminator	-	-	-	-	-	10	"Vril" Lamp	-	-	-	-	-	-	-	17
Magnifiers	-	-	-	-	-	2	Warm Stage	-	-	-	-	-	-	-	19
							"Zonal" Darkground Condensers	-	-	-	-	-	-	-	10

LIST 2547B. Improvements in design are introduced from time to time, so that illustrations used in this list may not be correct in every detail.

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