

A representative selection of Microscopes may be inspected at the Company's offices at York, at Broadway Court, Westminster, at 21 St. Paul's Square, Birmingham, and at Messrs. Hawksley & Sons, Ltd., 17 New Cavendish Street, London, W.I.

and in South Africa

at the Company's offices at Johannesburg and Cape Town.

Photographs of instruments, or printing blocks when available, will be supplied gladly to authors or publishers of text books or articles for the technical press.

As designs are constantly subject to revision the illustrations herein may not be correct in every detail.

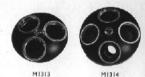
COOKE MICROSCOPES

DEVELOPED AND MANUFACTURED BY



York, London, Birmingham, Cape Town and Johannesburg.

OBJECTIVE CHANGING DEVICES



A revolving objective changer is included with each of the optical outfits itself on page 100 except K and L, but when a special selection of optical equipment is made it is necessary to order the appropriate changer.

Revolving objective changers sent out with complete sets of objectives and also accurate centration. Other objectives may, of course, be used in such changers, but it is unlikely that they will be found to be in focal agreement with those of the set. The adjustment of such objectives will be undertaken by us if they are sent together with the changer to the factory.

The changer is marked either 16, 4, 2, corresponding to the focal lengths of the objectives, or 1, 2, 3, or 1, 2, 3, 4, as the case may be, the objective of the lowest power being inserted in 1, the next in 2, and so forth.

MI3II Extension tube for use when no changer is employed, screwed with R.M.S. thread.

MI3I3 Triple revolving changer, screwed with R.M.S. thread.

MI314 Quadruple revolving changer, screwed with R.M.S. thread

OBJECTIVES

The details of the achromatic, fluorite and apochromatic objectives available are given in the table on page 106. Any desired combination of objectives can, of course, be supplied with each of the instruments, but for convenience of clients various suggested groups of optical components which are commonly employed are tabulated on page 100, together with the approximate ranges of magnification covered by each group. When ordering, it is sufficient to add the letter denoting the set required to the code number of the microscope, viz: MIIIOC; the code number alone does not include objectives, objective changer, eyepieces or condenser.

All objectives are suitable for use on any of the four types of stands and are screwed with the standard R.M.S. thread, with the exception of MS22, MI481 and MI486 which are designed for use with a catoptric condenser and are illustrated on page 107.

The objectives other than those just referred to are computed for use at an effective tube length of 160 mm, which is the mechanical tube length of stands of the M1000 series (including the objective changer). When, however, the eyepiece is of the inclined type, including M1302 on stand M1000, the mechanical tube length becomes 210 mm, and a corrector lens is incorporated in the body to reduce the effective tube length to 160 mm. The consequence of this is that all inclined bodies possess a magnification factor of 1-5× and this also applies to the binocular attachment M1305.

The achromatic objectives M1419, M1421 and M1423 and the apochromatic objectives M1448 and M1451 are suitable only for use with specimens having a cover-glass, and the last mentioned is particularly sensitive to variation in cover-glass thickness, in consequence of which a correction collar is fitted of accommodate for variations from 0-15 mm. to 0-25 mm. Objectives M1419, M1421, M1423 and M1448 are corrected for use with a standard cover-glass thickness of 0-18 mm, M1423, having an exceptionally high numerical aperture, is necessarily critical in respect of variations in cover-glass thickness; the others are not sensitive to moderate variations. Objectives M1420, M1422 and M1486 have been designed for metallurgical work and are not suitable for use with covered specimens. The performance of all other objectives is unaffected by the presence or otherwise of a cover-glass.

All objectives are engraved with the initial magnification produced at 160 mm. tube length, the numerical aperture, the nominal equivalent focal length and the serial number. In order to determine the magnification produced at the eye it is necessary to multiply the initial magnification of the objective by the factor engraved on the eyepiece, and, in the case of any instrument having an inclined eyepiece, or the binocular attachment M1305,



MI401 33 mm. N.A. 0-10



M1406 25 mm, N.A. 0-15



M1411 16 mm, N.A. 0-28



M1421 4 mm. N.A. 0-65



M1431 1-8 mm. N.A. 1-30



M1436 Fluorite, immersion 3-75 mm. N.A. 0-95



M1446 Apo. 16 mm. N.A. 0·30



M1451 Apo. 4 mm, N.A. 0-95



M1456 Apo., immersion 2-2 mm, N.A. 1-32

to multiply the result by the factor engraved upon the body, namely $1.5\times$, since, as explained in the previous page, the body itself contributes to the power.

In order to facilitate the recognition of objectives, and especially when mounted on the changer, the several powers are marked with a colour band, viz: 16 mm, grey, 12 mm, dark blue, 8 mm, light blue, 6 mm, dark green, 4 mm, light green, 3.75 mm, yellow, 1.8 mm, to 2.2 mm, red. The colours have been arranged in order of the spectrum, so that the colours representing the various powers may be the more casily memorised. The fluorite and apochromatic objectives are marked with a second and narrower band of black and white respectively in order that these types may be easily recognised.

The 3:75 mm. Fluorite Oil Immersion Objective

The attention of medical workers is particularly drawn to the fluorite oil immersion 3-75 mm. objective. It is the ideal lens for examining blood films for differential counts and stained films of sputum for tubercle bacilli. It has a large field, long working distance, brilliant detail owing to its high numerical aperture, and great depth of focus. It can be used for much routine bacteriological work, and if a higher power is required to verify detail it is easy to swing in the 1-8 mm. oil Immersion lens and return again to the 3-75 mm. objective. This objective is very useful for high power dark-ground illumination as it requires no central stop and is easy to manipulate. Being a fluorite lens the zonal corrections are remarkably good and a much better definition is given than with an ordinary achromatic lens. Moreover, it will stand high power eyepieces and increased magnification can be obtained in this way, thus obbitating the use of a 1-8 mm. for dark-ground work.

For histology the 3:75 mm, objective is particularly useful. The high numerical aperture gives a more brilliant and crisp field than the dry 4 mm, objective. Cytological details are sharply brought out, and being an oil immersion lens it is not affected by variations in coverglass thickness, as is a dry lens of equal aperture. Its great depth of focus will take in most of the thickness of a 5µ section. For search of tubercle bacilli in sections it has been reparded as uncounsiled.

This objective has a wide range of uses and we recommend that it finds a place on all microscopes used for medical pathological work.

The 16 mm. Achromatic Objective for use with compensating eyepieces.

Low power achromatic objectives are not usually suitable for use with compensating eyepleces, thus, if a set of objectives consists of normal low power achromatic and high power fluorite or apochromatic objectives, it is necessary when changing the objectives also to change the type of eyeplece. A 16 mm. achromatic objective (M1412) has been designed for use with compensating eyepleces which overcomes this objection. This combination also has the merit of giving a flatter field of view than the ordinary 16 mm. objective (M1411) used with a Huyghenian eyepiece. This special objective figures in Optical Outfits G and H.

EYEPIECES







Kellner 15 × (showing micrometer MISBI)

M1501 Huyghenian

Three types of eyepieces are supplied, namely, Huyghenian, compensating and Kellner.

The forms most commonly employed are the Huyghenian and compensating, and both consist of two separated lenses or lens systems with a field stop mounted between. In the former the lenses are single and in the latter one or both are compound.

The Huyghenian eyepiece is generally used with low or medium power actionatic objectives, but the oblique image shows some colour fringes with the highest power objectives. The compensating eyepiece has been designed to correct the oblique chromatic errors present in all high power objectives, and it should be used with all fluorite and apochromatic objectives, and preferably with high power achromatic objectives.

All eyepleces have been designed as a series so that the optical tube length of the microscope is unaffected by a change of eyeplece power, and therefore the objective is always used under the most favourable conditions; furthermore, a change of eyeplece power does not appreciably change the focusing adjustment.

The Kellner eyepiece differs from the others in that the image plane does not lie between the components and its advantage is in connection with the use of measuring scales as referred to in the Manual on the Cooke Microscope, page 14.

Single Eyepieces	Pairs of Eyepieces	Туре	Power
M1501	M1502	Huyghenlan	4×
M1506	M1507	.,	6×
MISII	M1512	ii.	8×
M1516	M1517		10×
M1521	M1522		12.5×
M1519	M1520	Compensatg.	4×
M1526	M1527		6×
M1531	M1532		8×
M1536	M1537		10×
M1538	M1539	12	12.5×
M1533	M1534		15×.
M1541	M1542	Kellner	10×

Eyepiece Micrometers

- MIS72 Eyepiece Micrometer, glass, 0-5 cm. divided in 100 parts.
- MI574 Step Micrometer.
- MI575 Porton Globe and Circle Graticule.
- M1576 Eyepiece Graticule, 2 mm. square divided in 0-1 mm. squares.
- MI577 Eyepiece Graticule, I cm. square divided in 0.2 mm. squares.
- M1580 Eyepiece Graticule, 1 cm. square divided In 0-1 mm. squares with thick line every 0-5 mm.
- MISSI Eyepiece Micrometer of glass, I cm. divided in 100 parts.
- M1535 Eyepiece, compensating 10 ×, designed to receive micrometers or graticules in metal mounts.
- MI599 Metal mount for any of the above micrometers or graticules when used with MI535.

Stage Micrometers

- MI586 Stage Micrometer of glass, I mm. divided in 100 parts.
- MI587 Stage Micrometer of glass, I mm. divided in 10 parts, the first 0-1 mm. divided into 0-01 mm.
- MI591 As MI586 but scale ruled on metal.
- MI596 Objective Test Plate after Abbe.

CODE No.	TYPE	FOCAL	MINAL LENGTH	N.A.	INITIAL	WORK- ING DISTANCE	COLOUR		
		in.	mm.			mm.	BAND		
*M!40! M!406 M!4!! M!4!2 M!4!6 M!4!8 aM!4!9 bM!420 aM!42! bM!422 aM!423	Achro. dry		33 25 16 16 12 8 6 4 4 4	0-10 0-15 0-28 0-28 0-42 0-45 0-65 0-65 0-65 0-65 0-85	3× 5× 10× 10× 15× 20× 40× 40× 40× 40×	43·0 17·0 5·0 4·2 1·5 2·2 1·25 0·43 0·71 0·83 0·37	grey grey dark blue light , dark green light ,		
M1425	Achro. water imm.	1 7	3-25	1-00	50 ×	0-5	pale yellow		
M1426 M1431	Achro. oil imm.	12 12	1-8 1-8	1-25	95× 95×	0-12 0-12	red		
M1436 M1441	Fluorite oil imm.	1 12	3-75 1-8	0-95 1-30	45× 95×	0-23 0-12	yellow & black red & black		
M 446 a M 448 a M 451	Apo. dry Apo. oil imm.	Apo. dry	*	16 8 4	0·30 0·65 0·95	10× 20× 40×	5-0 0-5 See note	grey & white blue & white green & white	
M 1456						1	2-2	1-32	80×
M522 M1481 bM1486	Achro. dry dark ground	Achro.	16 8 4	0-28 0-45 0-65	11× 22× 45×	4·5 2·2 0·7	for use with illuminators MI691 & MI731 only		

M1497 Small bottle of oil (supplied with each immersion lens). M1498 8 oz bottle of immersion oil.

This objective is not parfocal with the remainder of the range.

† The objective MI456 cannot be fitted with a funnel stop for dark ground illumination. N.B.—Objectives marked (a) are suitable for use with covered specimens only. Those marked (b) are for use only with uncovered specimens. All other objectives may be used on covered or uncovered specimens.

It is recommended that objectives to be used with normal incident illumination should be coated (see page 5) for which an additional charge is made.

The objective M1451 has a correction collar which may be adjusted for use with cover-glasses varying in thickness between 0-15 mm. and 0-25 mm.

All the above objectives have been designed for use with a tube length of 160 mm., with the exception of M522, M1481 and M1486 which are constructed for use with the dark ground illuminators M1691 and M1731. The initial powers given above are for objectives when working at the tube length for which they have been computed.

The objective M1412 has been specially designed for use with compensating cycpieces (see note page 105).

The working distance of a dry or immersion objective designed for use with covered objects is defined as the thickness of the air or liquid gap between the mount and the coverglass when the specimen is focused. A standard cover-glass of 0-18 mm, thickness is assumed. In the case of objectives corrected for use with uncovered specimens the working distance given is the distance between the mount and the specimen when the latter is focused.

The dark ground illuminator (page 121) and the universal illuminator (page 123) necessarily occupy a greater amount of the mechanical tube length of the Microscope than the objective changers or the normal incident illuminators M1651-4 (page 119), thus, if the standard objectives are attached to these units through the fitting M1659, the separation between objective and eyepiece is correspondingly increased. This is of no consequence with objectives of 12 mm. focal length or more, but the higher power objectives should be used at the tube length for which they have been designed. Objectives of 8 mm. focal length or less (except the objectives MI448 and MI451) have been so constructed that the stem may be removed and the objective mount proper is connected to the dark ground and universal illuminators by fitting M1660, which has the effect of placing the objective in its proper position with respect to the eyepiece when used on these Illuminators.



Objectives for dark ground illumination of opaque objects



M522

M1481

M1486

Catoptric Condenser

The objectives illustrated above have been designed specially for use in conjunction with the dark ground illuminator described on page 121 and for the same purpose in the Universal Illuminator described on page 123. They are mounted within the catoptric condenser and cannot be used without one or other of these illuminators of which the catoptric condenser forms part. It is possible, however, to use these objectives with transmitted light when they are so mounted; they therefore can be employed to serve in the examination of both translucent or opaque specimens in an instrument suitably equipped.

CONDENSERS



MI382 Abbe Condenser N.A. I-20



MI383 Aplanatic Condenser N.A. 1-40



M1386 Achromatic Condenser N.A. 1-00



MI391 Achromatic oil immersion Condenser N.A. I-30



M1396 Dark Ground Condenser



MI398
Adaptor supplied with MI386, MI391 and MI396 for connecting to condenser mounts MI375 or MI375



M1399 Dark Ground Condenser

Condensers for use with transmitted light

Condensers are not usually included with the stand, except in the case of the student's microscope and polarizing instruments, as they are regarded as being part of the optical equipment, and the choice of condenser depends upon the selection of objectives. The appropriate condenser is included with each set of optical equipment (page 100), but if objectives are ordered separately it will be necessary to state which condenser is required. It is usual to supply the Abbe condenser M1382 with achromatic objectives, though the aplanatic condenser M1383 is preferable when an immersion lens is employed.

The aplanatic condenser M1383 should be used with fluorite and apochromatic objectives, unless the more fully corrected achromatic condensers are employed. For optimum results the condenser M1386 is for use with dry objectives, and M1391 with immersion objectives. The latter may be used with dry objectives when the front lens is removed, which reduces the N.A. to 0-65.

Condensers M1382, M1383, M1395 and M1399 are arranged to screw directly into the condenser mounts M1375 or M1376 (page 117), the remainder are screwed with the standard R.M.S. thread and are each provided with adaptors (M1398) for connection with mounts M1375 and M1376, thus all condensers are Interchangeable on each instrument.

The mounting of all condensers is arranged so that a stop limits the upward movement of the condenser at a point whereby the upper lens surface is just below the plane of the object stage.

The dark ground condensers can be used in conjunction with the objectives of numerical aparture up to 0.95. The most suitable objectives for this purpose are the 3.75 mm. fluorite oil immersion objective (M1436) or the 4 mm. apochromatic dry objective M1451. Any 2 mm. oil immersion objective (except M1456) can, however, be employed if a funnel stop (M1397) is used to cut down the numerical aperture to 0.95. The slide must always be in immersion contact with the condenser, and the centring condenser mount (M1376) should be used.

M1382 Abbe type Condenser (2-lens), N.A. 1-20.

M1383 Aplanatic Condenser (3-lens), N.A. 1-40.

M1386 Achromatic Condenser, N.A. 1-00. M1390 Achromatic Condenser, long focus, N.A. 1-20.

MI391 Achromatic Oil Immersion Condenser, N.A. 1-30.

M1395 Quartz Condenser of form similar to M1382.

M1396 Dark Ground Condenser with adjustment for slide thickness between 0.75 mm. and 1.5 mm.

M1397 Funnel stop for objectives of numerical aperture above 1-00 when used with M1396 and M1399.

M1399 Dark Ground Condenser without adjustment for variation in thickness of slides. The condenser is adjusted for slides of 1-25 mm. hickness.

EYEPIECE TUBES for Stands series M1000.

This stand is normally supplied with a body of fixed length (M1304). If desired, adjustable draw tubes may be substituted which permit the tube length to be varied between 150 mm. and 185 mm. They are readily interchanged and are supplied either with a ring marking the 160 mm. tube length position or graduated throughout in millimetres.



MI301° Draw tube, graduated MI303° Draw tube, ungraduated MI306 Allowance for fixed tube MI304

* These tubes have R.M.S. thread at the lower end to accommodate objectives of very long focal length.

INCLINED MONOCULAR FITTING

for Stands series M1000

An inclined monocular eyepiece attachment may be supplied for use with a M1000 stand already equipped with a straight tube. It is interchangeable with the straight cube, the latter being removed from the body by unscrewing the top collar of the body.

The inclined monocular attachment is mounted in a swivelling head, and for reasons explained on page 103, para. 3, itself provides a magnification factor of 1-5×.

M1302 Inclined Monocular Attachment for M1000 stands

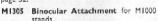


M1302

BINOCULAR EYEPIECE ATTACHMENT

for Stands series M1000.

A straight binocular eyepiece attachment is also available for use on stand M1000. It is attached in a manner similar to that of M1302, and is provided with a graduated interocular adjustment and independent focusing to one eyepiece to accommodate for differences in the observer's cycs. The magnification factor is 1-5×. A small illustration of a microscope fitted with this attachment will be found on page 52.



N.B.—Eyepieces are not included under the code number M1305.



BODIES for Stands M2000, M3000 and M4000

Stands M2000 and M3000 may be supplied with either monocular or binocular bodies or both, all bodies being interchangeable.

They are attached to the coarse focusing element by a dovetail fitting, as shown in the illustration, and are clamped rigidly in position by the small milled screw which can be seen in the illustration on page 70.

The monocular unit is fitted with a swivelling head, and the binocular unit has a graduated interocular adjustment, also one eyepiece can be independently focused.

These units possess within themselves a magnification factor of 1.5 ×.

A straight body tube for photographic purposes is also offered.

M2301 Inclined Monocular Body for Stands M2000 and M3000.

M2302 Inclined Binocular Body for Stands M2000 and M3000.

M2303 Straight Tube.

Stand M4000 is provided with a range of body equipment similar to that of Stands M2000 and M3000 described above, except that, owing to the different construction of the instrument, the connecting dovetail slide is on the opposite side of the binocular body,

M4301 Inclined Monocular Body for Stand M4000.

M4302 Inclined Binocular Body for Stand M4000.

M4303 Straight Tube.

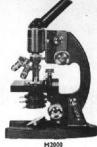
Other bodies for M2000, M3000 and M4000 are listed on pages 177 and 179.











Series.



M1003 Series.

Series.



M4000 Series.

TYPES OF COOKE MICROSCOPES

COOKE MICROSCOPES

In this section of the catalogue, five distinct types of stand are described:

- M1005' A student's microscope covering the equipment necessary for 1025 elementary studies in botany and biology and for the ordinary name 45 medical curriculum.
- M1000 A general purpose microscope, normally for monocular vision, sories but which may be fitted with a binocular eyepiece attachment. In addition to transparent objects, solid specimens may be examined with the aid of attachments producing normal or dark ground illumination. Two models in this range—pages 65 and 67—have been designed for use on solid objects exclusively and are provided with a vertical motion to the stage to accommodate large specimens.
- M2000 A microscope designed for routine and research investigations in medical and general biological work. This instrument page 68 may be equipped for either monocular or binocular vision or both, and it will accommodate the normal incident or dark ground attachments for use on opaque objects.
- M3000 This microscope follows generally the lines of the M2000 model, series but its utility is widened by the provision of a vertical adjustment to the stage. Both stage and substage may be readily detached, hence a range of stages for different purposes may be provided, whilst the stage may be lowered to the foot of the microscope when the substage is removed, and consequently specimens of unusual bulk may be accommodated.

The coarse and fine focusing unit, together with the microscope body, may also be detached, and therefore may be used apart from the stand as required.

M4000 The universal stand provides complete equipment for visual and series photographic examination of opaque and translucent specimens.

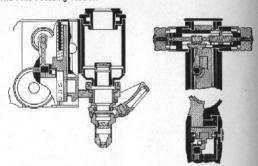
Accessories employed on the foregoing stands are detailed in the section commencing on page 100, followed by descriptions of certain specialised microscope equipment.

RESEARCH MICROSCOPE

M2000 SERIES

This stand is designed for binocular or monocular use. Both types of body are of the inclined form, the eyepleces being at an angle of 45° to the axis of the objective. The other outstanding feature of this instrument is the ball bearing fine focusing mechanism.

The Fine Focusing Motion



The fine focusing mechanism, Patent Nos. 467,926 and 525,970. The hatched portions are those which move on manipulation of the fine focusing.

The fine motion mechanism, which is of novel design, moves in ball bearings and is frictionless and "dead beat" in operation. A sector takes the place of the usual bell crank lever and carries an involute cam which imparts a uniform movement to the slide, a division of the scale thus has exactly the same value throughout the whole range of movement.

It is important that the fine motion mechanism should be relieved of all unnecessary work and of variable loads, and a new form of construction enables the bodies to be attached directly to the limb so that the focusing movement is applied only to the objective changer and objectives, thus breaking free from the tendency to overload the fine motion mechanism with the weight of the binocular body. By this means the tube length is varied one millimetre each way, which is far too small a change to affect appreciably the performance of even the most sensitive objective.

The limits of movement of the fine motion are clearly defined by means of limit lines, and stops are fitted. The motion is so lightly loaded that accidental contact between the objectives and the slide is unlikely to do any barm to the specimen or objective.

The Coarse Focusing Motion

The coarse slide is of dovetail construction, and the rack teeth are cut obliquely, whilst the pinion is properly generated so that several teeth are simultaneously engaged resulting in smooth and regular movement. Means are provided to adjust the friction in order to prevent any tendency for the body to run down under its own weight.

The usual position of the coarse and fine motion heads are reversed. The direction of movement of both coarse and fine motions is such that the objective rises or falls, with the fingers operating the heads.

The Object Stage

Five types are listed, covering every normal requirement. They are illustrated on the pages which follow and are described on pages 115 and 116.

The Condenser Substage

The focusing movement is operated by a rack and pinion mechanism, the unit containing this being attached to the tail of the limb. The operating head is on the left side of the instrument in accordance with established practice.

For users who desire to interchange condensers frequently there is a device whereby the whole of the condensing unit may be instantly removed and another replaced. This is described on page 117. Each type of instrument is listed alternatively with the plain cylindrical condenser mount fitting and with this device. With the former is included a non-centring condenser mount M1375, and with the latter one having a centring adjustment M1376, but as they are interchangeable either type may be supplied.

Bodies

These are of four types—monocular (M2301), and binocular (M2302), both with inclined expieces, a straight tube (M2303) intended for photographic purposes and a straight body for photography with an inclined visual tube (M2304). They are interchangeable and are attached to the stand by the dovetail fitting shown in the illustration, a clamp being provided to ensure rigidity

On the inclined monocular the cycpiece tube is mounted in a revolving head. The binocular is provided with a graduated interocular adjustment and the right eyepiece has an independent focusing adjustment. As explained on page 103, all normal objectives have been computed for a tube length of 160 mm., but as the mechanical tube length with the inclined eyepieces in use is 210 mm. it is necessary to introduce a corrector



lens into the body which has the effect of glving it a magnification factor of

Optical Components

Owing to the widely differing requirements of microscopists, objectives, objective changers, eyepieces and condensers are not included in the basic equipments. The range of optical equipment offered is listed on pages 102 to 111. Selected sets of equipment are set out on page 100 and when ordering these it is sufficient to add the appropriate code letter to the number denoting the microscope required.

Sundries

An adjustably mounted plane and concave mirror with clamps for securing both movements is fitted to all models.

The finish of the instrument is in hard black enamel with the bright parts plated.

Each equipment includes a hardwood cabinet (M2642) with fittings for the reception of accessories. If desired, this item can be omitted when a corresponding reduction in price is made,

RESEARCH STAND M2000 series

in the following pages

CODE*		BODY (page 113)	STAGE (pages 115 to 116)	SUBSTAGE FITTING	CON- DENSER MOUNT (page 117	
M2001 M2010 M2020 M2030	M2301 M2301 M2302 M2302	Monocular Binocular	M2321 Plain, square 112 mm.	M1377 M1378/9 M1377 M1378/9	M1375 M1376 M1375 M1376	
M2040 M2050 M2060 M2070	M2301 M2301 M2302 M2302	Monocular Binocular	MI331 Circular, centring & rotating 120 mm. dia.	M1377 M1378/9 M1377 M1377	M1375 M1376 M1375 M1376	
M2080 M2090 M2100 M2110	M2301 M2301 M2302 M2302	Monocular Binocular	MI336 Mechanical, square 114 mm., vertical shafts	MI377 MI378/9 MI377 MI378/9	M1375 M1376 M1375 M1376	
M2120 M2130 M2140 M2150	M2301 M2301 M2302 M2302	Monocular Binocular	MI341 Mechanical, square I14 mm., horizontal shafts	M1377 M1378/9 M1377 M1378/9	M1375 M1376 M1375 M1376	
M2160 M2170 M2180 M2190	M2301 M2301 M2302 M2302	Monocular Binocular	M1346 Mechanical, circular 120 mm. dia. with centring	M1377 M1378/9 M1377 M1378/9	M1375 M1376 M1375 M1376	

"The code numbers do not include objectives, objective changers, eyepleces or condensers. Typical optical outflis are listed on page 100, or a selection may be made from complete lists on pages 102 to 111. If one of the outflis on page 100 is selection, it is sufficient, when ordering, to add the appropriate letter to the microscope code number.

The condenser mount MI375 is the non-centring type, and MI376 the centring type. The condenser mount MI375 is the non-centring type, and MI376 may be supplied with MI376 in lieu and vice versa.

[†] The substage fitting M1377 is the cylindrical type, and M1378/9 the fork and ring type.

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Stage										Macro	Sta	and C	contd.)					
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11321	1		M1331	. 4	4	M1346	23	3 2		W559	. 7		12903	5		M1905	4	
M1326	ACTA CHISTON	16	M1336		6	241351	25	5 6		M560			11.904		10	M1910	2	
MJ,327	7		M1.337		16	M1360		- 4	pr	MOOO		1		-	,10	M1911	3	-
M1328	7	16	M1341	14	16					Theke	ma T	mosai	tion Mi	ano	2007	100 Co. 100 Co	0	
										ATCVA	I S I			£	S	2		
. Illum	inato	ors,	Lamps.	eto					1	15500	412		M533		10	TEOR.	£	100
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COOKE, TROUGHTON AND SIMMS, LIMITED KINGSWAY NORTH,
Y O R K

TEMPORARY PRICE LIST April, 1946 (B4)

MICROSCOPES

The prices quoted in this list are those current for delivery in April 1946. In view of unsettled trading conditions, it is regretted that these prices must be regarded as subject to confirmation at time of delivery.

Prices are for delivery at Factory, packing and delivery extra at cost.

1.43	£	S		£	5		£	9
11001	19		12060	76	-	14040	253	_
311010	24		72070	79	12	12050	250	-
020E	21	-	112060	63	16	14060	265	-
M1030	22	4	142090	67	8	ØM6001	55	-
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11050	27	8	22110	83	10	Ø116020	59	4
74060	24	_	12120	70	6	€ 35030	50	16
71070	25	4	M2130	73	18	d1:6040	68	5
11080	29	4	M2140	86	8	Ø 5050	53	15
M1090	30	8	72150	90	-	di#6060	66	10
1100	28	2	M2160	78	12	Ø:16070	58	2
2110	29	6	12170	82	4	030610	67	6
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M1130	34	10	112190	98	6	ø*:5100	71	10
1110	34	12	1:3001	68	-	g:16110	63	2
1150	35	16	33010	81	2	x116120	36	16
1160	39	16	23020	84	. 2	xM6130	41	_
1170	41	-	13030	97	4	x15140	36	-
1180	42	18	143040	70	-8	x 36150	40	6
1190	44	2	1:3050	83	10	197001	35	10
1200	48	2	13060	86	10	1:7010	35	10
1210	49	6	353070	99	12	217020	29	10
1220	19	12	M3080	80	16	1:7021	57	10
1225	34	6	13090	93	18	117030	49	10
1230	24	16	*3100	96	18	77031	57	10
1235	39	10	73110	110	-	1/7035	57	10
11240	-7	12	:13120	91	6	77040	63	-
1250	-8	-8	M3130	104	-8	17050	63	
2001	57	10	113140	107	8	77060	63	_
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The above prices do not include objectives, objective changers, eyepieces or condensers.

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M7312	5		-	147361	3	4	M	7368	2	4	
17318	-	. 1:	S	147362	5	16	24	7657	15	8	
197332	5	10	0	117363	9	-	3/1	7658	17	8	
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MI406	2		1	11425	6	15	13	6406	6	IO	pr.
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11112	2	1	4	201431	9	10	70	6416	6	16	pr.
11413	1	. 18	3	ML436	11	16	33	6421	6	16	pr.
X1416	3	:	3	111441	19	12	7.7	7418	4	18	
11418	3	10	0	1.0146	10	16	7.5	7420	7	4	
F1419	3	16	3	11148	14	6	7.5	7421	5	18	
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MI421	4	10	0	M1456	28	14	7.9	7423	7	. 4	
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10517	2	_	pr.	11538	1	10		M750	6	1 8	
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	181	M1751 M1752 M1756 M1758	3 4	4 6 2 8	0 0 7 0		M1759 M1760 M1761 M1762		8 8 8	0 0 0	M1763 M1764 M1765 M608		8 4 18	0 0 0	
	182	M1805 M1806	7 9	14	0		E845 E848	3	0	0	E850		9	5	
	183	M1816 M1820 M1824 M1828	40 40 53 56	16	0		M1839 M1833 M591	28	12 10	0	M592 M598 II M1813	12	13	0 0	
	184	M1845 M1849	54 54		- T		M1804		16	0	M593 M594		8	0	
	188	M700 M705 M714 M715 M720 M721 M722 M723	52 43	2 8 6 12 8	00000	81 81	M724 M725 M726 M727 M740 M741 M771 8 oz. 12 oz. 16 oz. 40 oz.	3 7	0	0 0 0 0 0 0	M780 M781 M783 M785 M786 M787 M788	3	0 2 16 6 2 1 6	0 0 0 0 0 0	
			,			1	80 oz.		6			4			

VICKERS PROJECTION MICROSCOPE, Cat. No. CM500A For prices, see under Catalogue No. CM1000A, pages 38—42.

STUDENT'S MICROSCOPE, Cat. No. CM1009
For prices, see under Catalogue No. CM1000A, page 49.

PHASE CONTRAST MICROSCOPE, Cat. No. CM1741
For prices, see under Catalogue No. CM1000A, page 128.

FLUORESCENCE MICROSCOPY, Cat. No. CM1766
For prices, see under Catalogue No. CM1000A, page 130.

STERE OSC OPIC MICROSC OPES, Cat. No. CM6000A For prices, see under Catalogue No. CM1000A, pages 137—143.

POLARIZING MICROSCOPES, Cat. No. CM7000B For prices, see under Catalogue No. CM1000A, pages 147—171.

Cooke Troughton & Simms

YORK, ENGLAND

MICROSCOPES

(88)

PRICE LIST

11th AUGUST, 1948

The prices quoted in this list are for delivery at the factory. The cost of packing, carriage and insurance is payable by the purchaser. Every precaution is taken in packing, but goods in transit are at the risk of the purchaser.

GENERAL MICROSCOPE CATALOGUE No. CM1000A

(For prices of items in separate leaflets, see last page of this list)

Prices of microscope stands do not include optical outfits, except in the case of the Student's model (M1005/M1025) where the prices cover the complete equipment.

	age	i ciic co	£	s.	d.		£	s.	d.		£	s.	d.
•	38	M500	476	2	0	M502	483	8	0	M504	460	0	0
	30	M501	476	2	0	M503	483	8	0	M505	460	0	0
	39	*M511	4	0	0	M1497		2	0	M1541	1	18	0
		*M512	. 4	10	0	M1498		18	0	M1502	- 1	16	0
		*M513	4	18	0	M1501		18	0	M1507	- 1	16	0
		*M514	6	0	0	M1506		18	0	M1512	- 1	16	0
		*M533	. 6	10	0	M1511		18	0	M1517	- 1	16	0
		*M534	8	2	0	M1516		18	0	M1520	3	8	0
		*M516	13	18	0	M1519	1	14	0	M1527	3	8	0
		*M517	16	4	0	M1526		14	0	M1532	3	8	0
		*M518	26	18	0	M1531	- 1	14	0	M1537	3	8	0
		*M519	29	14	ō	M 1536	. 1	14	0	M1539	3	8	0
		*M520	27	6	0	M1538		14	0	M1534		8	0
		*M521		18	0	M 1533		14	0	M1542	3	16	0
		11321	37		٠					M540	22	14	0
	40	M544	14	16	0	M553	3	2	0	M574	- 1	14	0
4	40	* M522	4	-	ō	M554	- 1	2	0	M1382	2	0	0
		*M523	6	Â	Õ	M555	13	4	0	M1383	5	8	0
		*M524	7	2	0	M556	11	0	0	M1386	8	12	0
è		M547	8		0	M557	10	8	0	M1391	9	18	0
	5.5	M551	5		o	M558	10		0	M1396	1	•	•
	58	M552	5		0	M571	22		0	M1397		0	0
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*Objective Lenses are coated (see p. 5 of cat.)

	M511 M512 M513 M514 M526 M535	£ 4 4 4 6 6 6 7		d. 0 0 0 0 0	*M517 M527 *M520	£ 13 16 23 27 39 1	s. 18 4 8 6 18 8	d. 0 0 0 0 0	*	4577 4528 4529 4530 4531 4532	£ 1 7 8 14 5 6	s. 4 4 0 6 18 14	d. 0 0 0 0 0 0	のは、からいとのであるとのなるのは
42	M581 M582 M1386 M584 M585 M586 M587	5 2 8 1 5 1	2 8 12 10 4 18 14	0 0 0 0 0 0 0 0	M588 M650 M651 M652 M589 M591 M592	2 3 4 3 2 2 2 2	0 0 0 0 2 10	0 0 0 0 0 0 0 0 0	1	M593 M594 M595 M596 M598 M608	4 11 13	8 0 0 0 18	00000	
49	M1005Y M1025Y		4	0	M1025 Z M1401		10 12	0		M 1326 M 1327	8		0	Second Section 19
55	M1030 M1050	22 29	12	0	M1301 M1303 M1305	22	16 6 14	0		M1326 M1370 M1376	8 2 1	8	0 0	
57	M1070 M1090	30 36	10	0	M1301 M1303 M1305	22	16 6 14	0 0		M 1370 M 1376	1		0	
59	M1110 M1130	33 39	4	0	M1301 M1303 M1305	22	16 6 14	0 0 0		M 1370 M 1376	1		0	
61	M1150 M1170	39 46	18	0	M1301 M1303 M1305	22	16 6 14	0 0		M1370 M1376	2			
63	M1190 M1210	53 60	16 4	0	M1301 M1303 M1305	22	16 6 14	0 0		M1370 M1376	2			
M1030 M1050 M1070 M1070 M1110 M11130 M1150	£ 5. 0 37 0 9C 43 8 9C 44 10 9C 50 18 9C 47 12 9C 54 0 9C 54 6	d. 0 0 0 0 0	MIMM	030D 050D 050D 070D 090D 110D 130D 150D 170D	46 0 0 47 2 0 53 10 0 50 4 0 56 12 0 56 18 0	MIOS MIOS MIOS MIOS MIOS MIOS MIOS MIOS	OE OE OE OE OE	£ s. 46 16 53 4 54 6 60 14 57 8 63 16 64 2 70 10	d.0000000	M1030 M1050 M1070 M1110 M1130 M1150 M1170 M1190 M1210	F F F F F F F	57 58 65 61 68 68	6 0 4 0 18 0 6 0 12 0 0 10	

^{8 18 0} 34 12 M1731 M1328 24 14 0 65 M1220 6 M1732 40 14 16 M1651 31 2 0 0 MI230 17 16 M7657 15 8 0 M1652 16 0 M1301 6 14 0 25 M7362 M1691 6 0 6 0 M1303 22 14 0 M1305 8 18 M1328 16 0 M1301 M1225 39 14 0 2 18 M1662 0 M1303 6 0 M1235 45 14 0 2 18 M1663 0 0 01 7 M1376 1 2 0 0 M2020 M2001 66 8 M2301 8 18 M2030 89 4 M2010 70 12 0 M2303 3 8 0 .0 11. M1376 1 . 2 M2060 87 16 0 M2040 M2301 8 18 92 0 M2070 M2050 73 8 M2303 3 8 M1376 2 0 M2100 92 6 077 M2080 73 14 8 18 0 M2110 96 10 M2301 M2090 77 18 0 3 8 0 M2303 24 64 M1376 2 0 M2140 99 18 M2120 81 6 8 18 0 M2301 2 M2150 104 M2130 85 10 0 8 M2303 3 n M1376 2 M2180 109 8 M2160 90 16 8 18 0 M2190 113 12 M2301 M2170 95 0 3 8 0 M2303 Prices of above stands with optical outfits:-£ s. d. M2001G 110 12 0 M2001J M2001 H 125 14 0 M2010J 169 18 M2010H 129 18 0 M2010G 114 16 0 99 6 0 M2010F M2020J2 191 2 0 M2020 H2 151 2 0 M2020G2 132 12 0 M2020F2 115 10 0 M2030 H2 155 6 0 M2030J2 195 M2030G2 136 16 0 M2030F2 119 14 0 M2040J M2040H 128 10 0 M2040G 113 8 0 M2040F 97 18 0 172 14 M2050J M2050H 132 14 0 M2050G 117 12 0 M2050F 104 2 0 M2060 H2 153 18 0 M2060J2 M2060G2 135 8 0 M2060F2 118 6 0 M2070J2 M2070 H2 158 2 0 M2070G2 139 12 0 M2070F2 122 10 0 M2080J 173 M2080H 133 0 0 M2080G 117 18 0 M2080F 102 8 0 M2090J M2090G 122 2 0 M2090H 137 4 0 M2090F 106 12 0 M2100H2 158 8 0 M2100J2 M2100G2 139 18 0 M2100F2 122 16 0 M2110H2 162 12 0 M2110J2 M2110G2 144 2 0 M2110F2 127 0 0 M2120J M2120H 140 12 0 M2120G 125 10 0 M2120F 110 0 0 M2130J M2130H 144 16 0 M2130G 129 14 0 M2130F 114 4 0 M2140J2 206 0 0 M2140H2 166 0 0 M2140G2 147 10 0 M2140F2 130 8 0 M2150J2 M2150H2 170 4 0 M2150G2 151 14 0 M2150F2 134 12 0 190 2 0 M2160H 150 2 0 M2160J M2160G 135 0 0 M2160F 119 10 0 M2170H 154 6 0 M2170J M2170G 139 4 0 M2170F .123 14 0 M2180J2 215 10 0 M2180H2 175 10 0 M2180G2 157 0 0 M2180F2 139 18 0 M2190J2 219 14 0 M2190G2 161 4 0 M2190H2 179 14 0 M2190F2 144 2 0 £ s. d. d. S. 3 8 0 M3030 112 8 0 M2303 0 M3001 78 12 2 10 0 M3364 1 2 0 M1376 M3010 93 16 0 8 18 0 M2301 M3020 97 4 0

s. d.

£ s. d.

Page		£	s.	d.		£	s.	d.		£	5.	d.
137	M6001	59	2	0	M6416	7	6	0	M6517	5	3	0
137	M6010	50	2	0	M6418	7	6	0	M6522	5	3	0
	M6020	63	12	0	M6419	7	6	0	M6360		8	0
	M6030	54	12	0	M6421	7	6	0	M6381	1	10	0
	M6080	72	6	0	M1509	1	16	0	M6385	4	12	0
	M6090	63	6	0	M1517	i	16	0	M6390	2	16	0
		76	18	0	M1522	i	16	0	M6391		10	0
	M6100		16	0	M1524	i	16	0	M6443	4	6	0
	M6110	67		V. (25)		5	8	0	E125	1	14	0
	M6406	7	0	0	M6507	5	8	0	E230		2.4	5
	M6411	7	0	0	M6512	2	0	U	M6581	1	10	0
138	M6120	39	12	0	M6140	38	14	0	M6150	43	4	0
130	M6130	44	2	0								
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139	M6502	5	8	0	M6512	5	8	0	M6522	5	3	0
	M6507	5	8	0	M6517	5	8	0				
141	M6200	24	18	0	E125	-	14	0	M6250	32	12	0
171	M6210	21	8	0	E230	•		5	M6255	52	2	0
	M6443	4	6	0	M6581	1	4	0	M6455	3	0	0
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Page 163	M7200 M7210	161 1		l. 0 0	M7240 M7250	£ 180 180	s. 10 10	d. 0 0	M7316 M7734	£ s. 12 12 18	d. 0 0	
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166	M7657 M7658 M7659 M7316	20		0 0 0	M7332 M1806 E845 E848	6 9 3 3	6 14 0	0 0 0	E850 M7035 M7065	66 8 72 16	0	
168	M7361 M7362	3 6		0	M7360 M7364	7 7	16 16	0	M7363	10 8	0	
169	M7801 M7806 M7811 M7816 M7818 M7820	3 3 4 4 7	2 8 0 12 4	0 0 0 0 0 0	M7821 M7822 M7823 M7831 M7906 M7918	11	8 12	0 0 0 0 0 0	M7920 M7921 M7922 M7923 M7931	8 14 7 8 7 8 8 14 12 18	0 0 0 0 0	
170	M7508 M7509 M7516 M7517 M1521 M1522 M7506 M7511	4 5 4 5 1 5 5	4 6 4 6 18 16 2 18	0 0 0 0 0 0 0 0 0	M7513 M6516 M6521 M7585 M7586 M7587 M7590 M7591	2 2 4 1 1 6	14 12 14 6 18	0 0 0	M7592 M7593 M7882 M7883 M7886 M7891	2 4 1 16 2 10 5 18 9 2 10 8	0 0 0 0 0	
171	M7570 M578	15	0	0	M7571	1 6	18	0	M7572	16	0	
175	M1865 M1867		010	0	M1870 M1900		10		M1906	12	0	
177	M1871 M1873 M1900 M4303	2	8 10 14 8	0 0 0 0	M430- M430: M434: M557 M559	2 1	3 14 4 8 4 8 8 14	0 0	M560 M1903 M1904 M1905	8 2 6 2 5 4 5 4	0	
179	M1876 M1878 M2303 M2304 M1807	58 3 8	18	0 0 0 0 0	M180 M181 M182 M182	8 4 2 4 6 5	0 1	6 0	M1830 M1840 M1847 M1851		0 0	
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Page		£	s.	d.		£	s.	d.		£	s.	d.
137	M6001	59	2	0	M6416	7	6	0	M6517	5	3	0
137	M6010	50	2	0	M6418	7	6	0	M6522	5	3	0
	M6020	63	12	0	M6419	7	6	0	M6360		8	0
	M6030	54	12	0	M6421	7	6	0	M6381	1	10	0
	M6080	72	6	0	M1509	1	16	0	M6385	4	12	0
	M6090	63	6	0	M1517	i	16	0	M6390	2	16	0
		76	18	0	M1522	i	16	0	M6391		10	0
	M6100		16	0	M1524	i	16	0	M6443	4	6	0
	M6110	67		V. 25		5	8	0	E125	1	14	0
	M6406	7	0	0	M6507	5	8	0	E230		2.4	5
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141	M6200	24	18	0	E125	-	14	0	M6250	32	12	0
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		4	6	0	M6581	1	4	0	M6455	3	0	0
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