

### THE 8 1/2" FULLERSCOPE (ADVANCED)

This is the "FULLERSCOPE" illustrated on the front page, and is the ultimate in "small" telescopes. It incorporates everything that the advanced amateur or serious student could wish for. It is ideal for Universities, Schools, Clubs etc. and is perfect for photography. Mounted on the MK.IV Equatorial for maximum stability it has Slow-motions on each axis, with Electric drive in R.A. also Setting circles. 9th wave optics are used throughout coupled with two Orthoscopic eyepieces and an Achromatic Barlow lens. The plastic tube is reinforced and radially counterbalanced. All the usual accessories are there, of course (Mirror cell; Spider; Rack & Pinion focusing mount; Achromatic Finder scope etc.). A special added attraction, is the 4" Reflector "Guida-Scope" for dead accurate "tracking" during photography. (This has a spherical F.8 Mirror). The tube can be revolved to obtain an easy observing position. Finish is "Hammer" with a white tube and plated fittings. A photograph of this "FULLERSCOPE" together with a more comprehensive description is available on request. (1/6d. in 3d stamps please to cover costs).

The 8 1/2" "FULLERSCOPE" (Advanced) - PRICE: £165. 0. 0.

### 10" TO 12 3/4" FULLERSCOPES

These larger 'scopes are available in prices ranging from £150 to £450., and are made to order only. (Two are under construction at the moment, and photos will be available shortly - 1/6d.) When requesting a quotation PLEASE STATE EXACTLY what you require.

### 4" SKYMASTER KIT

For the beginner and the "Junior" Astronomer this Kit is ideal. It has easy to follow instructions and has everything necessary to construct a 4" Newtonian Telescope. (Mirror, flat, tube, cell, eyepiece, Altazimuth stand etc.) Makes a useful and instructive present.

PRICE: £6. 17. 6d.

TERMS CASH WITH ORDER . UNIVERSITIES, SCHOOLS etc. Official order form accepted.

Postage and packing 2/6d. on each complete order.

Orders are dealt with strictly in rotation and I do my best to ensure delivery within 14 days. Receipts by return post.

MK.II & III Equatorials 10/- carriage . MK.IV Equatorials 25/- carriage  
Tripods 7/6 " Pedestal Stands 25/- "

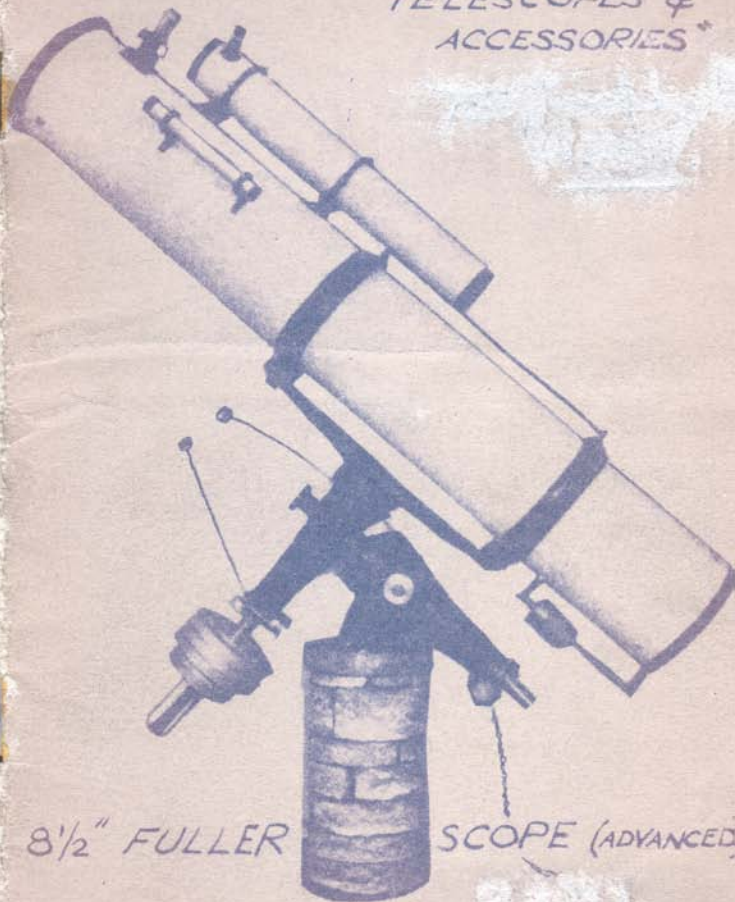
### FULLERSCOPE:- THE NEW DIMENSION IN SERIOUS AMATEUR ASTRONOMY.

During the evolution of the Fullerscope, shown and described on the previous pages, every factor relative to accuracy, ease of use, construction, production and appearance has been carefully studied and evaluated, to bring to the customer an attractive accurate & reliable instrument at prices hitherto thought impossible.

You will find the cost value ratio of these products unsurpassed and all those concerned in the development and subsequent production of Fullerscopes join in wishing you every success in the future of your hobby.

# FULLERSCOPES

"PERFECTION IN  
TELESCOPES &  
ACCESSORIES"



8 1/2" FULLER

SCOPE (ADVANCED)

D. FULLER F.S.C.  
18, ADDISON WAY  
LONDON N.W.11.

TEL. MEADWAY 4879  
CALLERS ALWAYS  
WELCOME.

- 750 Finchley Rd, N.W.11.  
01-455 9028.

## MK II & MK III EQUATORIAL MOUNTINGS (AND ACCESSORIES)

The MK.III. Equatorial Mounting, (pictured right), has been specially designed to carry up to 8" Reflectors, and up to 4" Refractors. It is truly great value, and has everything that could be desired by the amateur, or advanced student. Although the fully equipped mounting is inexpensive by usual standards, to accommodate those with a limited budget or those not desiring all available accessories, Mountings are sold as a "Package deal" consisting of:-

- 1) The Equatorial Head.
- 2) Pedestal Stand (or Tripod).
- 3) Slow-motion R.A. (Manual).
- 4) Electric Drive for R.A. s/m
- 5) Slow-motion Dec. (manual)
- 6) Setting Circles.
- 7) Special Saddles.
- 8) Counterweights.

### ① EQUATORIAL HEAD MK II & MK III.

These Equatorial heads incorporate the latest developments and are extremely stable, remaining pleasing on the eye as well as providing maximum steadiness coupled with velvet smooth bearing action. The polar axis is fully adjustable for latitude, and if used with the Pedestal Stand or Tripod, can be adapted to "Altazimuth" action for Satellite spotting or Terrestrial viewing. The special saddle plate will accept all tube sizes between 3" and 10", or the "Revolving Tube Cradles (p. 7) No. 7) Lugs are provided for Slow-motions.

THE MK.II IS UNPAINTED & UNPLATED, OTHERWISE AS MK.III

#### SPECIFICATION.

- German Type.  
Cast Alloy housings 9" long by 2 1/4" dia.  
1" Chrome-plated Precision ground solid steel shafts.  
4 1/2" dia. base plate.  
Saddle plate 12" long by 2 1/2" wide (channel)  
Locking device on each axis.  
Weight (head only) 14.1b.  
Stove enamel wrinkle or hammer finish and chrome fittings.  
(MK.II Unpainted & Unplated)

### ② PEDESTAL STAND

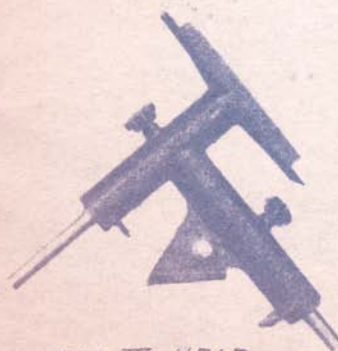
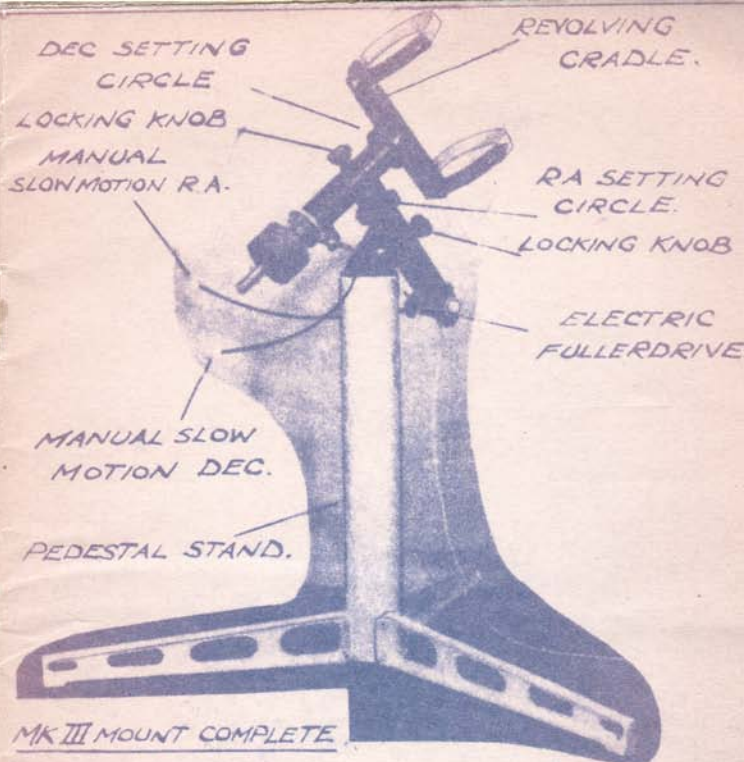
Because of its great stability the pedestal stand is now incorporated in all 6" & 8 1/2" "FULLERSCOPES" (except Kite). Constructed of heavy gauge galvanised iron tube with cast feet, each of which is 2 1/2" long, it stands 30" high and it weighs 35.1b (TWICE that of the head alone!). The feet are detachable for easy storage.

PRICE: £8. 10. 0. + (2/- carriage)

#### TRIPOD.

This is an Ex. w.D. tripod, all metal. It is suitable for Refractors as well as Reflectors. It extends from 1' to 5'. Unfortunately this tripod is now in short supply, a pity as it is one of the strongest on the market.

PRICE: £4. 10. 0. + (7/6 carriage)



MK III HEAD.  
PRICE £12-10-0



MK II HEAD.  
PRICE £10

## AUTOMATIC & MANUAL FULLERDRIVES (R.A.)

Once your Mount has been aligned correctly, it is necessary to move the 'scope round the Polar axis only, to keep a Star centred in the field-of-view without some form of gearing even at medium powers is difficult. A "FULLERDRIVE" will do this for you AUTOMATICALLY or MANUALLY as required. This Slow-Motion (R.A.) may be bought either WITH the ELECTRIC Drive, or WITHOUT. (The motor can be added later, when desired.)

CONSISTING OF:-

- ③ A) Helical worm and wheel gears. (AUTOMATIC CLUTCH so that 'scope may be moved without having to dis-engage the gears) Flexible hand-drive cable, fixing nuts and instructions.

PRICE: £7. 10. 0.

- ④ B) Synchronous electric motor with clutch unit, fixing bracket & instructions. To drive the above Slow-Motion M.A. at 1. rev. in 24 hours. Ideal for photography etc.

PRICE: £4. 10. 0.

COMPLETE UNIT: 'A' & 'B' above

PRICE: £12. 0. 0.

- ⑤ SLOW-MOTION (DEC) An additional asset is Slow-Motion in Dec. This enables very accurate tracking and centering for photography. Details as for 'A' (Section 3 above)

PRICE: £7. 10. 0.

## ⑥ SETTING CIRCLES

These are precision divided, solid Duralumin, circles, 3" dia. x  $\frac{1}{2}$ " thick, with Stainless Pointers. The 'Hour' circle is divided 0-24, each hour subdivided into three subdivisions of 20 minutes. The Dec. circle is 0-90-0-90-0 in five degree graduations. A beautiful bit of precision engineering by CHARLES FRANK LTD., Glasgow.

PRICE: £5. 18. 6d. (Pair)

For the "Shallow-of-pocket" (1) are my 6" dia. PHOTOGRAPHS of setting circles. These may be cut out, fixed to a wood base and used in the normal way. R.A. 0-6-0-6-0 each hour divided into three sections containing five four-minute graduations. Dec. Circle. Divided 0-90-0-90-0. Marked in 10's divided in 2°.

PRICE: 10. 0d. (Pair)

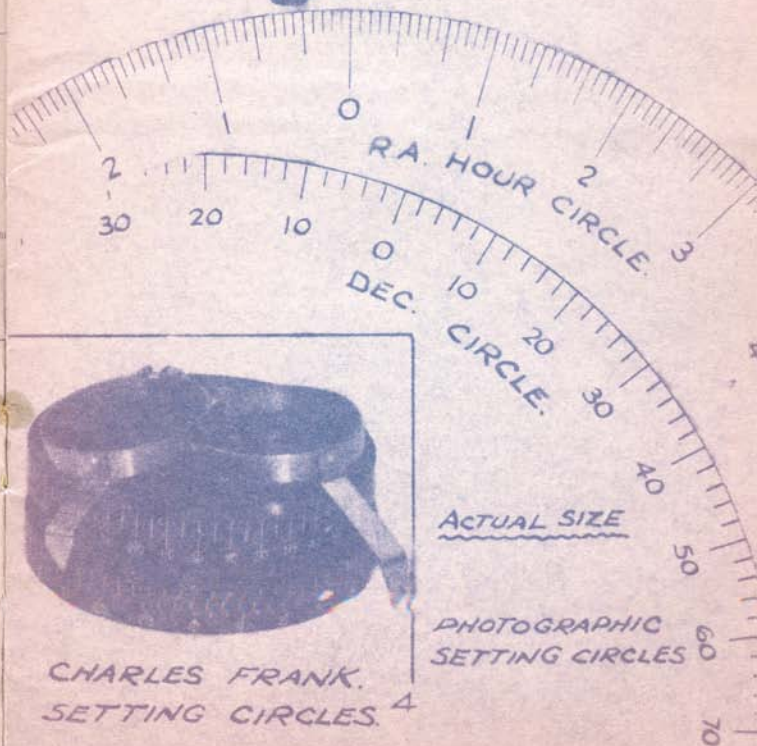
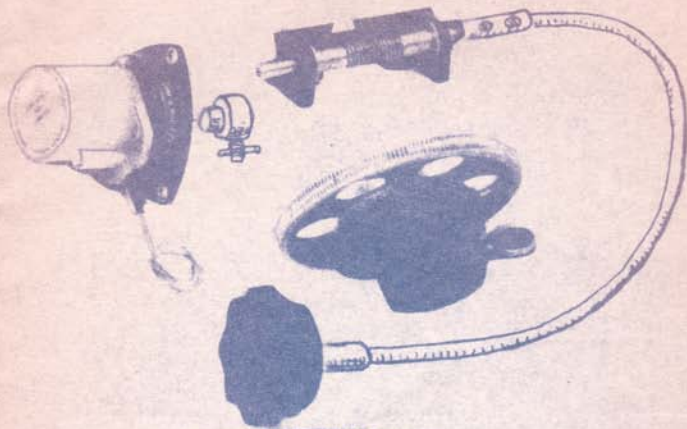
## ⑦ CRADLES

There are so many different sizes and shapes of telescope "tubes" that it is hard to cater for them all. The basic saddles of the Mk's II & III mounts will accept most sizes and shapes of 'scopes but for tubes supplied by myself, I recommend the specially designed "Cradles" these have the following advantages:-

1. The telescope tube may be revolved round its axis, thus avoiding awkward observing positions.
2. The whole telescope can be removed from the "Cradle" in a few seconds for storage.
3. The centre of gravity of the tube can be altered at will to compensate for "extra" - cameras etc.

There are special "Cradles" for 2" - 4" Refractors.

PRICE per Pair for 2", 3" & 4" Refractors	£3. 15. 6d.
" " " " 7" Reflector Tubes.	£3. 17. 6d.
" " " " 9" & 10" Reflector Tubes.	£4. 17. 6d.



CHARLES FRANK.  
SETTING CIRCLES. 4

⑧ COUNTER WEIGHTS Are stocked in the following sizes ONLY:  
7 lb., 10 lb., 20 lb., and 30 lb.

PRICE: 2/- per. pound.

N.B. It is far cheaper for you if you use "Weight-lifters" weights, which are available from most good Sports Shops, or direct from Messrs. GROSSE Ltd., London. - Approx. 1/1d per. pound.

### ANNOUNCING.

MARK IV EQUATORIAL MOUNTING. (FOR 8½"-15" TELESCOPES)  
Massive in construction, and yet finger light in action, the MK.IV HEAVY DUTY EQUATORIAL MOUNTING will handle, with ease, up to 15" Reflectors and up to 8" Refractors. It is used, (as illustrated) on the 8½" (Photographic) "FULLERSCOPE", and, of course, on all 10" and 12" models.

Compare its size with that of the MK.III. The shafts are 1½" dia. Precision ground, Chrome-plated, Solid Steel, running in D.U. Glacier bearings, with special oil-less thrust plates, on each axis, to minimise friction. The price, quoted below, is for the basic Equatorial Head (as illustrated on opposite page.) ALL accessories are available for this model.

Slow motions, Electric Drive, Setting Circles, Special Cradles, Pedestal stand. Counterweights to requirements etc. A quotation to your requirements will be made on request. (PLEASE state EXACTLY what accessories you require.)

PRICE. (Basic model, as illustrated) - £50. 0. 0d.

### ACCESSORIES:

Slow-Motion R.A. - £12.10.0.; Slow-Motion Dec. - £10. 0. 0.; Electric-Drive - £5. 0. 0.; Setting Circles - £6. 10. 0.; Pedestal - about £15.0.0.

### TUBING.

At Last! a lightweight rigid plastic tube, ideally suited to Reflectors. It is easy to cut and drill, and yet strong. With this material, convection currents are reduced to a minimum, so that "shimmer" caused in the tube itself is rare. All my accessories are designed to fit these tubes. The finish is non-reflective matt black interior, with the natural grey outside.

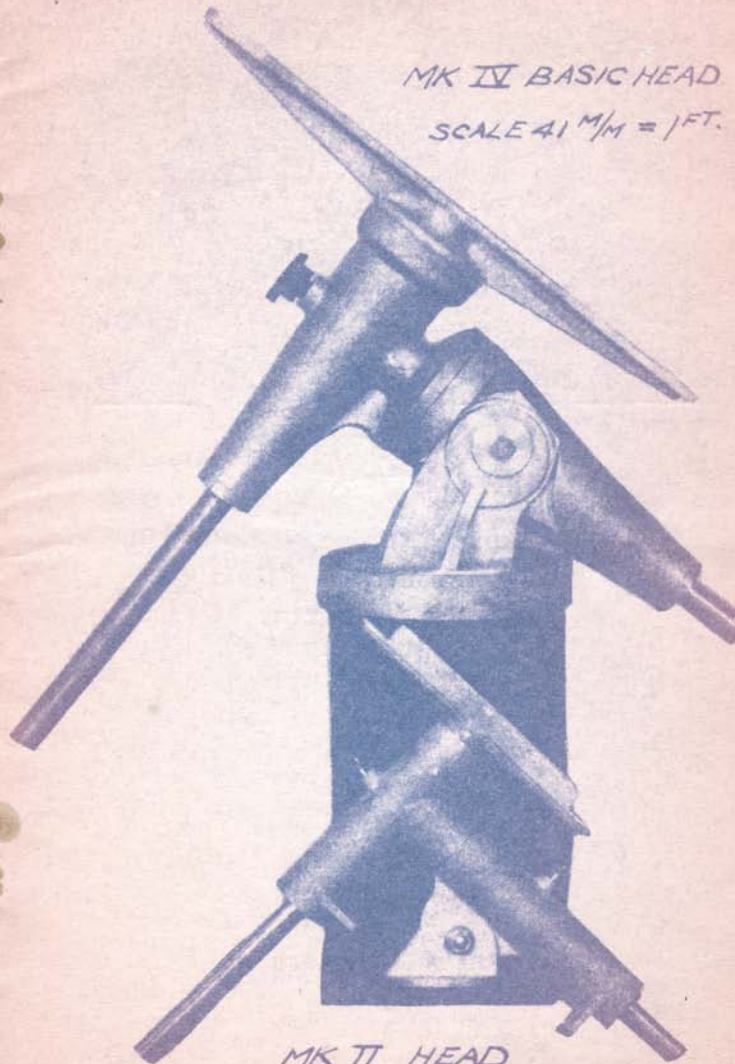
### STOCK SIZES.

For 6" & 6½" mirrors. 7" i.d. x 48" (½" wall thickness) - £4. 15. 0.  
" 7½" & 8" " 9" i.d. x 5'6" " " - £8. 0. 0.  
" 8½" " 10" i.d. x 5'6" " " - £8. 10. 0.

For 10" to 12½" mirrors I supply only one size. This is 14" i.d. with ½" wall thickness. The price is £17. 10. 10 for lengths up to 6' 3".

MK IV BASIC HEAD.

SCALE 41 M/M = 1 FT.



MK II HEAD  
(FOR COMPARISON).

## MIRROR CELLS (6" TO 8½")

Now you can buy a mirror cell at a low price, and yet having all those things usually only found in more expensive models. These Mirror Cells are three point sprung suspension types. This means that the cell proper is separate from the baseplate which holds it in the tube. The mirror rests on three mathematically positioned pads thus avoiding any possibility of flexure. The Cell itself is fully adjustable for collimation by means of three sprung-loaded wing and lock nuts, between it and the base. After collimation the whole unit may be removed from the tube, and replaced, without disturbing alignment - this is a very great asset. The cell is fully ventilated to prevent uneven expansion. The finish is dull black anti-reflection paint. Three mirror retaining clips are provided to keep the mirror in place without stress.

(EXTRA: ALL MIRROR CELLS CAN BE SUPPLIED WITH BASES TO FIT YOUR TUBES.)

STOCK SIZES (Please state tube size when ordering).

For 6" Mirrors 7" or 8" Tubes .. .. £3. 10. 0d.

For 6½" " " " " .. .. £3. 15. 6d.

For 7½" " 9" or 10" " .. .. £4. 10. 0d.

For 8" " " " " " .. .. £5. 5. 0d.

For 8½" " 10" " .. .. £5. 15. 0d.

(Other sizes quoted for).

## MIRROR CELLS (9 POINT FLOATATION SUSPENSION)

The larger type of mirror require a floating NINE point system in order to prevent flexure of the mirror under its own weight. The following two cells provide just this. The cell still consists of two separate units, as described above for 6" - 8½" mirrors, but in the case of 10" and larger mirrors the mirror rests on three sets of three pads, each set balanced on a mathematically determined point.

For 10" mirrors 14" tube .. .. £12. 10. 0d.

For 12" " " " .. .. £15. 0. 0d.

(Other sizes quoted on request).

## SPIDERS

These are the three or four vane fully adjustable type, as illustrated. Finish is dull-flat black.

STOCK SIZES (for flats supplied by myself)

For 1½" elliptical flats .. .. £2. 15. 6d.

For 1.9" " " .. .. £2. 18. 6d.

For 10" and 12" 'scopes .. .. £8. 15. 6d.

Flat holders for your own elliptical flat .. from £1. 0. 0d.

## CELLS 6" TO 8½"



9 POINT SUSPENSION CELLS



SPIDER.

## RACK & PINION.

At last, at a very reasonable price you can own a real Rack and Pinion focusing mount, designed to accept both R.A.S. and standard  $1\frac{1}{2}$ " push-fit eyepieces. The e is a full  $2\frac{1}{2}$ " of travel PLUS a  $1\frac{1}{2}$ " R.A.S. threaded Draw-tube. It has a smooth focusing action, with two variable tension knobs. The standard model will fit all tube sizes, and a flat-base version can be supplied on request for square "tubes". The finish is in stoved enamel (wrinkle or "hammer"). The tubes are plated for weather resistance.

PRICE: £4. 4. 6d.

Draw-tubes (R.A.S.) can be supplied any length at 15/6d. for a standard  $3\frac{1}{2}$ " length PLUS 2/- per inch thereafter. (e.g. a 6" draw-tube would cost 15/6d. Plus  $2\frac{1}{2}$ " @ 2/- per inch making £1. 0. 6d.)

## MIRRORS & OPTICS.

All my mirrors are HAND FIGURED to the degree indicated, and are PYREX. They are Aluminised and Silica hard-coated to protect the normally delicate reflective coating. All mirrors are GUARANTEED to resolve to the theoretical limit on nights of "good seeing" conditions.

Elliptical Flats			
6" F.8. $\frac{1}{8}$ wave. 48" focus	- £9.18.6d.	$1\frac{1}{4}$ " $\frac{1}{8}$ wave flat	- £1. 5. 6d.
6" " " " "	- £12. 15. 0d.	$\frac{3}{8}$ " " " "	- £2. 10. 6d.
8 $\frac{1}{2}$ " " " " " "	- £16. 16. 0d.	1.9" " " "	- £2. 15. 6d.
8 $\frac{1}{2}$ " " " " " "	- £20. 0. 0d.	$\frac{1}{2}$ " " " "	- £4. 10. 6d.
10" F7, F8, or F6 1/20 wave f		Companion flats for 10"/12" mirrors to 1/20 wave or better f9. 10. 0d.	
11 $\frac{1}{2}$ " F6, F7 or F8 " " f			

Delivery on 10" and 12" mirrors is up to three months. However I can supply these sizes from another source in a shorter space of time. These latter mirrors are the finest optics obtainable in this country. The prices are higher and are given on request.

## EYEPIECES

All eyepieces are of the highest quality, and are R.A.S. Threaded. The Huyghenian and orthoscopic types are by Messrs. BROADHURST CLARKSON Ltd.

<u>Huyghens.</u>	$1\frac{1}{2}$ " $\frac{1}{8}$ " $\frac{1}{2}$ " $\frac{1}{2}$ "	- £3. 3. 0d.
	1/3rd. & 1/4	- £3. 10. 0d.
	1/5th & 1/6th.	- £4. 4. 0d.

Orthoscopic  $\frac{3}{8}$ "  $\frac{1}{2}$ "  $\frac{1}{2}$ "  $1\frac{1}{2}$ "  $2\frac{1}{2}$ " - £7. 7. 0d.

Ramsden.  $1\frac{1}{3}$ "  $\frac{1}{2}$ " - £3. 3. 0d.

$\frac{1}{2}$ "  $\frac{1}{2}$ "  $1\frac{1}{2}$ "  $1\frac{1}{2}$ "  $2\frac{1}{2}$ " £2. 11. 0d.

Kelner. "ComeT" eyepieces.  $1\frac{1}{2}$ "  $1\frac{1}{2}$ "  $2\frac{1}{2}$ " - £4. 5. 6d.

Tolles.  $1\frac{1}{3}$ " "Planetary" eyepiece - £4.10. 0d.

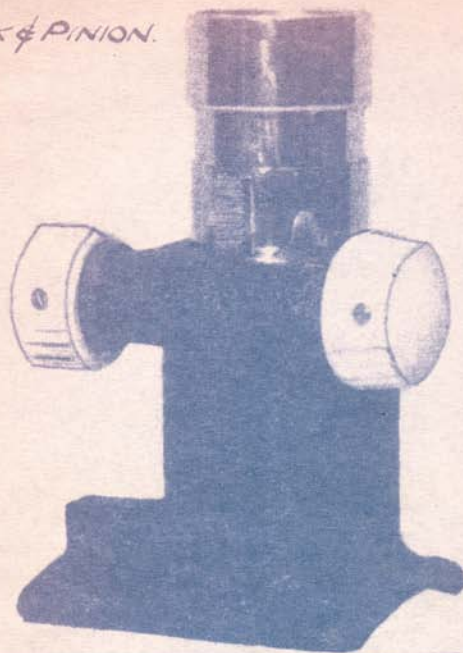
"Erfle". These eyepieces have a huge field of view, and when used in conjunction with a Barlow lens, they give breath-taking views of the Moon. They are getting scarce now and I can supply only  $\frac{3}{8}$ " and  $\frac{1}{2}$ ".

PRICE: £5. 0. 0.

"Finder" Scope with firing bracket

PRICE: £9. 0. 0.

## RACK & PINION.



## DOUBLE OR TREBLE YOUR TELESCOPES POWER.

By using one of my Achromatic Barlow lenses, you can increase the power of your telescope by up to three times that given by the eyepiece alone. At the same time you keep a large apparent field of view AND you loose LESS light than you would with a high-power eyepiece of similar value. To obtain up to three times amplification, an  $\frac{1}{2}$ " draw-tube is needed; up to 2 $\frac{1}{2}$  times amplification a  $6\frac{1}{2}$ " draw-tube is necessary.

BARLOW LENS IN CELL. (Fitting my draw-tubes) PRICE: £4. 10. 0d.

## SUN DIAGONALS

By BROADHURST CLARKSON LTD. The Sun Diagonal allows you to view without danger from the Sun's Rays.

PRICE: £6. 0. 0d.

## STAR DIAGONALS

The Star Diagonal (chiefly for Refractors) enables you to view in comfort stars at high altitude and near the Zenith.

Both the above items have R.A.S. threads.

PRICE: £6. 15. 0d.



## 6" & 8½" KITS (EQUATORIALLY MOUNTED).

These two kits contain everything necessary to construct a fully Equatorially mounted Newtonian Reflector Telescope.

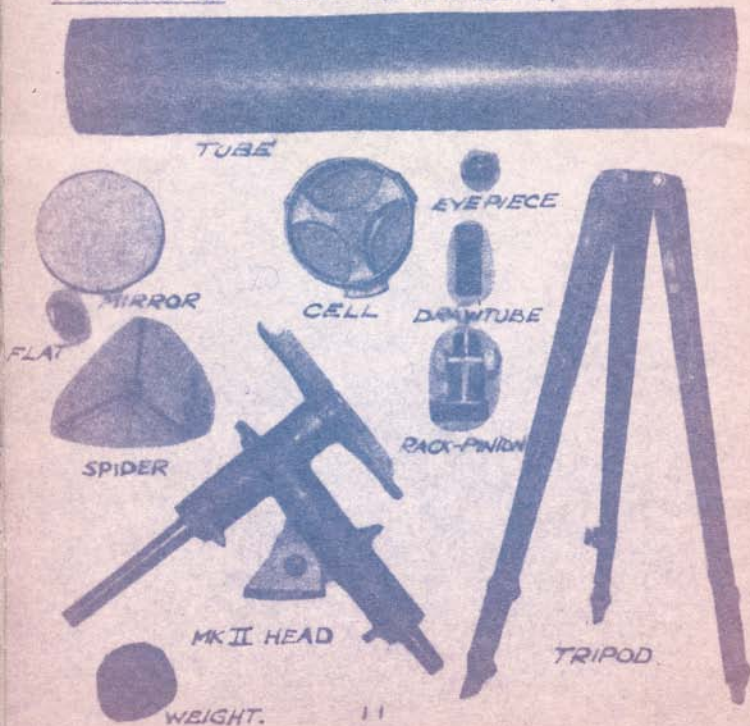
NEVER BEFORE HAS THE AMATEUR HAD THE OPPORTUNITY TO OWN THIS SIZE OF TELESCOPE AT SUCH A LOW PRICE. The optics are EXACTLY the same as those described on page 9. The Equatorial is the MK.II (p.1 & 2.), and all other parts are the unpainted versions of the illustrated types. The PARABOLICAL  $\frac{1}{4}$  wave mirror and flat are GUARANTEED to perform to the theoretical limits on nights of "Good-seeing". Instructions are included and the only tools necessary are a screwdriver, pliers, hand-drill or gimlet, rule and paint brush.

Further accessories can be added to your finished 'scope from these lists. The Mount is fully adaptable for Driven etc.

EACH KIT COMPRISES:- F.8  $\frac{1}{4}$  wave Parabolical mirror with elliptical flat. Mirror Cell; Spider flat support; Rack and Pinion focusing mount; Rigid Plastic Tube; one eyepiece; the MK.II Equatorial Mount on tripod, and all instructions.

6" FULLERSCOPE KIT. PRICE:- £35. 0. 0. (plus 30/- carriage)

8" FULLERSCOPE KIT. PRICE:- £47.10. 0. (plus 40/- carriage)



FINDER



STAR DIAGONAL



## WEDDING.

"Messrs. BROADBENT CLARKSON are pleased to announce the marriage of their famous 8" Refractor to the New MK.III "FULLERSCOPE" Equatorial Mount." ..... You will not see this notice in the "Announcements" column of "The Times", but it will be widely discussed by those of the Telescope Fraternity. The finest of British optics will bring you needle-sharp images and the fine detail that is so difficult to obtain, AND once in the field of view, Celestial objects are easy to follow and hold with the MK.III. You (Fully adaptable to setting-Circles, drives etc. of course). The Telescope, illustrated above, comes complete with one eyepiece and 5" 6" folding tripod.

PRICE: £48. 10. 0d.

### ACCESSORIES.

Star Finder with fixing rings -

PRICE: £6-0-0

Star Diagonal -

PRICE: £6-15-0.

## THE LITTLE GIANT. (2" REFRACTOR)

This Refractor is a highly efficient telescope having a 2" achromatic Objective lens 40" focus, with the latest "Clear Blooming". It is supplied with a Standard R.A.S. Drawtube, and  $\frac{1}{2}$ " Eyepiece 80x. Supplied in carrying tube. **PRICE** - £12. 12. 0

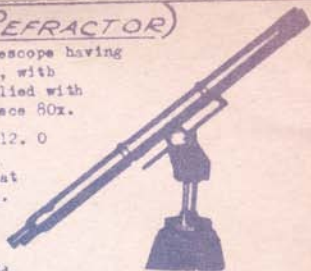
### ACCESSORIES

Portable Clamp Stand (Altazimuth) Fixes at once to any fence, post etc. £1. 17. 6d.

Special Tripod and Altazimuth Mount 6" (part-illustrated R.) **PRICE**: £10.

Barlow Lens in Special Draw-Tube.

Gives powers 96x to 240x. **PRICE**: £3. 19. 6d.



## THE 6" & 8½" (ELECTRIC) FULLERSCOPE DELUX

ONCE AGAIN TO BREAK THE PRICE BARRIER, come two Reflectors. The 6" and 8½" (Electric) "FULLERSCOPE" Delux. Each is a bargain in its own right. Look at the illustration opposite, (6" model) and the description following, then compare with any other 'scopes on the market. These two "FULLERSCOPES" are described together in order to save space, as they differ only in size and price. REMEMBER, THE 8½" HAS NEARLY TWICE THE LIGHT GATHERING POWER OF THE 6", AS WELL AS GREATER RESOLVING POWER.

### COMPRISING:-

6" or 8½" Paraboloidal mirror  $\frac{1}{4}$ th. wave, Alluminised & Silica hard coated  
1½" or 1.9" Elliptical Flat. " " " " " "  
Fully adjustable Mirror Cell.  
Fully adjustable "Spider" Flat support.  
Rigid Plastic Tube, (to eliminate convection currents.)  
Rack & Pinion focusing mount, with R.A.S. Draw-tube.  
1" Achromatic Finder-scope with cross hairs.  
Eye piece-Barlow combination. (see "Powers" below).

### AND

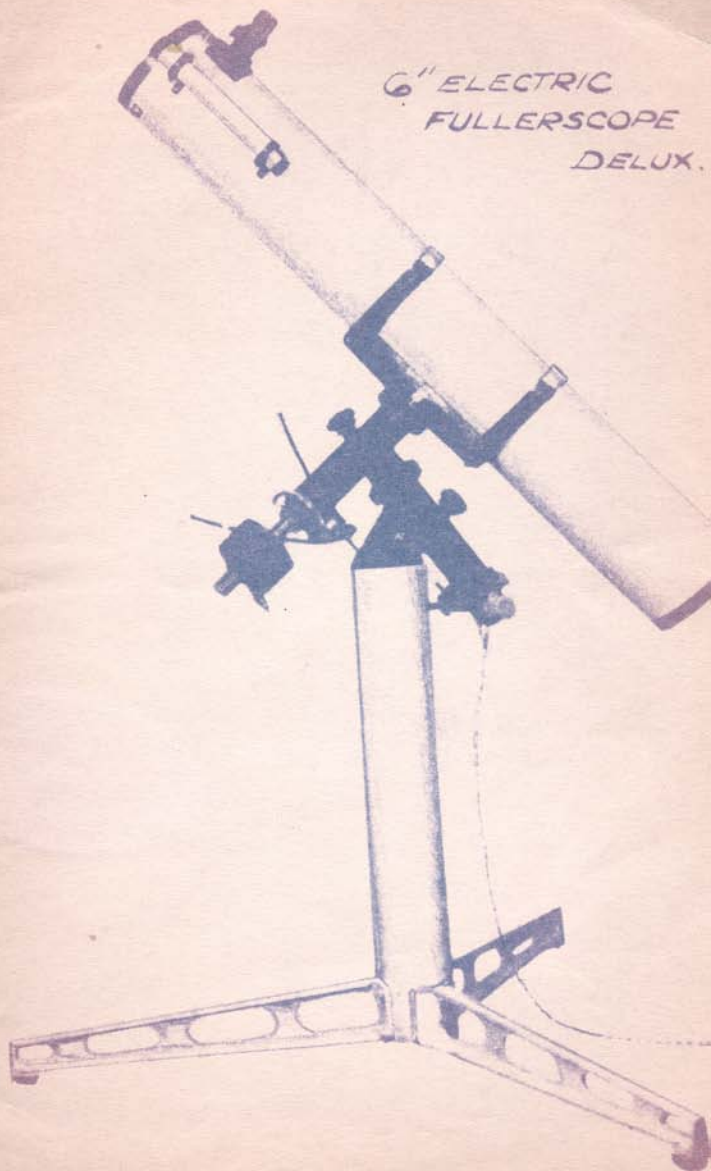
The MK.III EQUATORIAL MOUNTING, Complete as follows:-  
MK.III Equatorial head on Pedestal mount, Slow-Motion in Dec. (Manual)  
Slow-Motion in R.A. both manual AND Electrically driven by the  
"FULLERDRIVE", synchronous electric motor, fully slip-clutched so that  
the telescope may be swung on its axis, WITHOUT having to dis-engage  
the gears. Accurately divided Setting Circles by CHARLES FRANK are  
included, also counter-weight. The tube is fully rotatable in the  
special cradle, and can be released from the mounting in a matter of  
seconds. Finish is a White cellulosed tube, with Black wrinkle  
accessories, all interior fittings are black non-reflection coated,  
and other fittings are plated.

The 6" (Electric) "FULLERSCOPE" Delux.	( $\frac{1}{4}$ th. wave)	<b>PRICE</b>	- £85. 0. Od.
" " " " " "	( $\frac{1}{2}$ wave)	<b>PRICE</b>	- £80. 0. Od.
The 8½" (Electric) "FULLERSCOPE" Delux.	( $\frac{1}{4}$ th. wave)	<b>PRICE</b>	- £100. 0. Od.
" " " " " "	( $\frac{1}{2}$ wave)	<b>PRICE</b>	- £95. 0. Od.

**POWERS.** On 6" from 48x to 320x (carriage 50/-) or collect.

On 8½" from 64x to 427x

## 6" ELECTRIC FULLERSCOPE DELUX.



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For the beginner and the "Junior" Astronomer this Kit is ideal. It has easy to follow instructions and has everything necessary to construct a 4" Newtonian Telescope. (Mirror, flat, tube, cell, eyepiece, Altazimuth stand etc.) Makes a useful and instructive present.

PRICE: £6. 17. 6d.

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