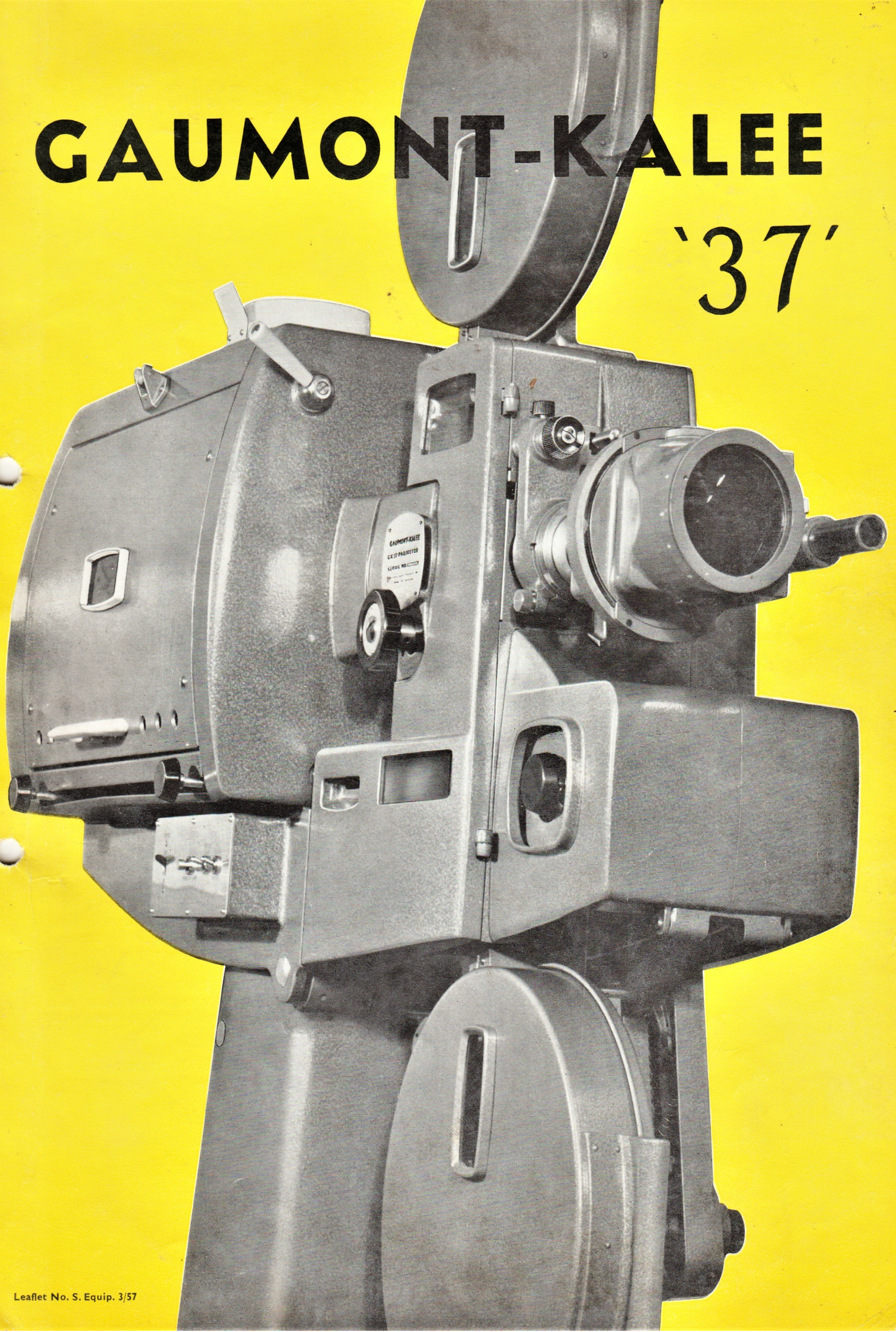


GAUMONT-KALEE

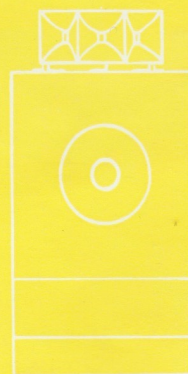
'37'



Gaumont-Kalee Projection



'37'



**A PRODUCT OF
THE LEADING EUROPEAN
GROUP OF CINEMA
EQUIPMENT FACTORIES**

RANK PRECISION INDUSTRIES LTD.

INCORPORATING

RANK PRECISION INDUSTRIES, (B.A.F.) LTD., (formerly BRITISH ACOUSTIC FILMS LTD.) LONDON, makers of high quality sound reproducers (The DUOSONIC Sound System) since 1925.

RANK PRECISION INDUSTRIES LTD., KERSHAW DIVISION, LEEDS, (formerly A. KERSHAW & SONS) established 1888, makers of precision projectors and arc lamps, (KALEE & GAUMONT KALEE) since 1910.

TAYLOR, TAYLOR & HOBSON, LTD., LEICESTER, makers of fine optics (including the world famous Cooke lenses), since 1886.

Quality Presentation · Trouble-free Service

and Sound Equipment

The Gaumont-Kalee '37' is a product of the Rank Precision Industries Group of Companies. The organisation that introduced the Gaumont-Kalee '21', the first projection and sound equipment designed as one complete streamlined unit.

The new model '37' is of modern unit block construction, designed to provide high quality picture and sound performance at very moderate cost.

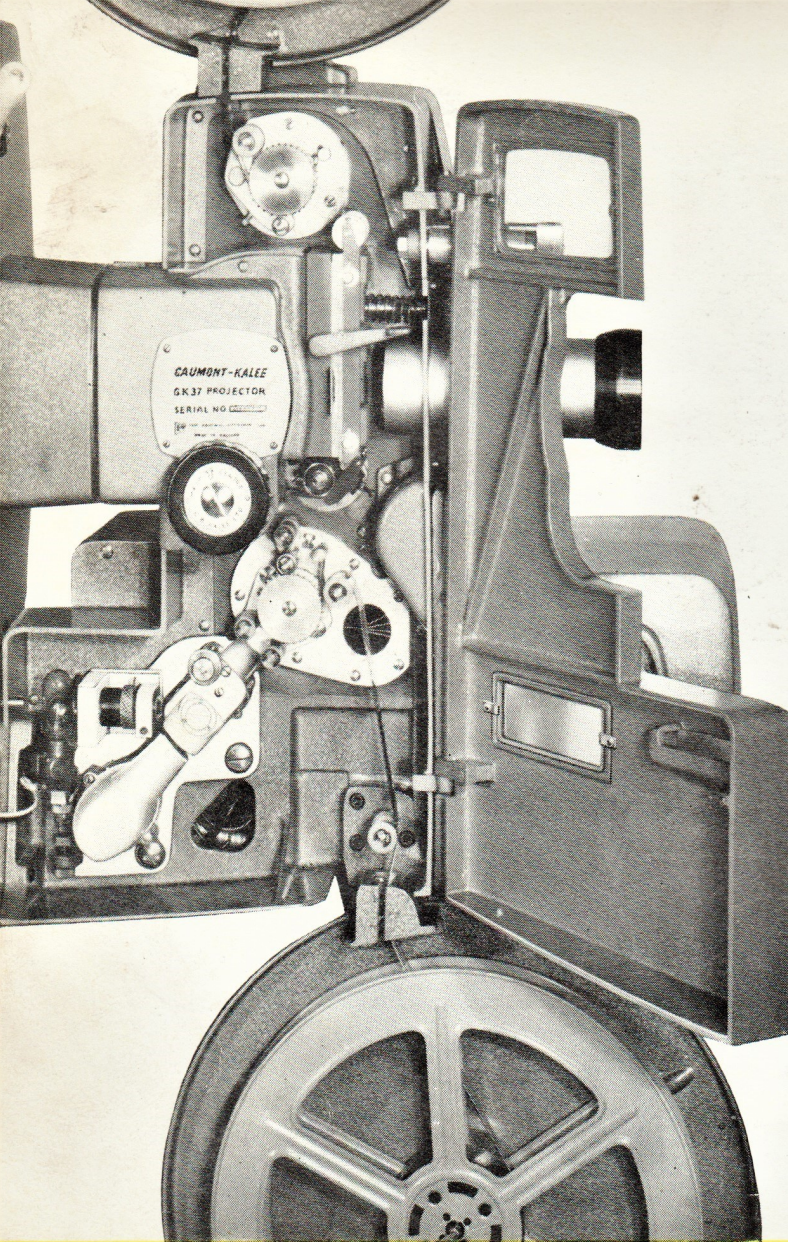
Great care and attention given to even the smallest detail, plus modern methods of precision manufacture ensure years of trouble free service under the most exacting climatic conditions.

The equipment is designed for the presentation of Cinema-Scope and other wide screen techniques but in the basic form is supplied for presentation of standard ratio direct projection films.

More than half a century of experience in the design and manufacture of equipment for the motion picture industry explains why Gaumont-Kalee equipment has gained a reputation all over the world for quality and reliability.

The illustration on the front cover shows the equipment fitted with a Gaumont-Kalee "Varamorph" lens and bracket in position, and on the opposite page also with a penthouse magnetic soundhead.

**Adaptable for
SINGLE AND MULTI-TRACK MAGNETIC SOUND,
AND ANAMORPHIC PRINTS**



GAUMONT - KALEE '37' PROJECTOR MECHANISM WITH BUILT-IN SOUNDHEAD

- * **Totally enclosed**
- * **Automatic filtered lubrication**
- * **Magoptical sprockets**
- * **Removable gate assembly**
- * **Illuminated framing aperture**

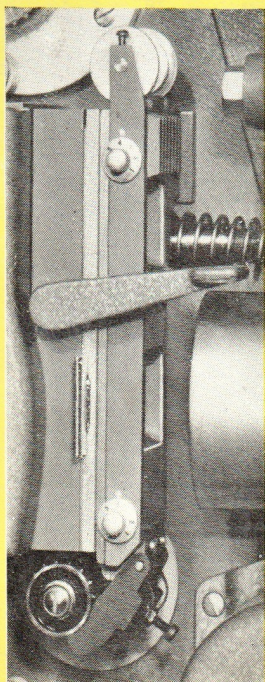
The projector mechanism and soundhead is constructed as a single unit. It is precision built and projects a rock-steady picture for the perfect presentation of wide screen systems. The rigidity and maintenance of alignment of all spindles are assured by the substantial box casting of the main frame. This also serves as an oil bath in which all internal components operate in a constant stream of filtered oil circulated by a mechanical pump.

A hinged cover plate on the operating side totally encloses the film path, and opens fully for inspection, threading and maintenance. A threading lamp gives ample illumination for framing the film.

All sprockets and steel parts are treated for rust prevention.

Provision is made for the attachment of special brackets (optional extras), for the Gaumont-Kalee 'Varamorph' lens and a penthouse type, single or four track magnetic soundhead.

REMOVABLE GATE ASSEMBLY



Parallel action with an ample heat radiating surface. The complete front section with roller, skates and intermittent sprocket shoe, is located in accurately machined guides and is easily removed for cleaning purposes. Control knobs at the top and the bottom of the gate, allow adjustment of the tension of the two pairs of skates. The framing aperture amply illuminated by a threading lamp (controlled by a separate switch) facilitates correct film lacing. A removable mask aperture plate permits rapid change for any desired picture ratio. This can be accomplished without removing film from gate.

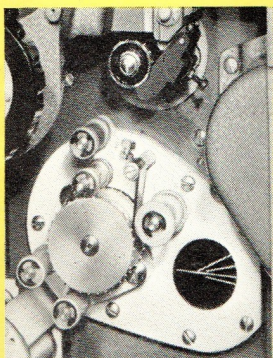
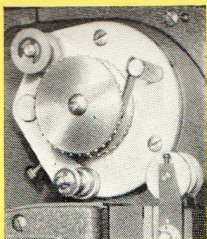
DRUM SHUTTER



The shutter is of the drum type incorporating centrifugally operated safety shutter blades.

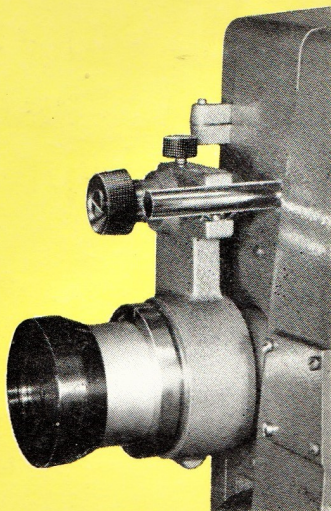
POSITIVE MASKING

The control handle situated on the operating side gives positive picture masking and can be operated without opening the projector door.



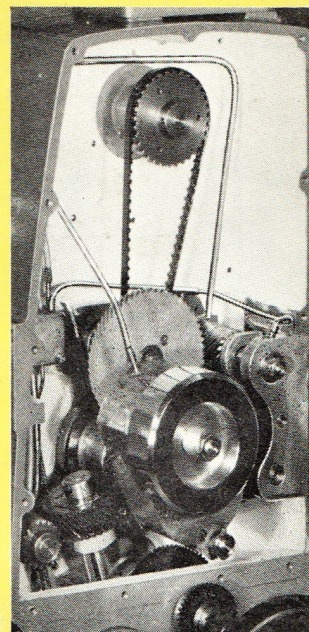
FEED SPROCKETS

The film feed sprockets have 32 teeth, the top being the feed sprocket from the spool box and the lower a combined soundhead and take-up sprocket. The hardened and ground intermittent sprocket and the hobbled feed sprockets are made of high quality steel treated for rust prevention. The same standard of manufacture of all sprockets is maintained, thus ensuring precision and long life. Sprockets suitable for magnetic CinemaScope and the new Magoptical prints are fitted as standard.



RIGID LENS ARM

The rigidly-held lens holder has micrometer focussing. The holder has an internal diameter of 82.5 mm which permits the use of interchangeable prefocus sleeves and the Gaumont-Kalee series 'S' high definition lens.

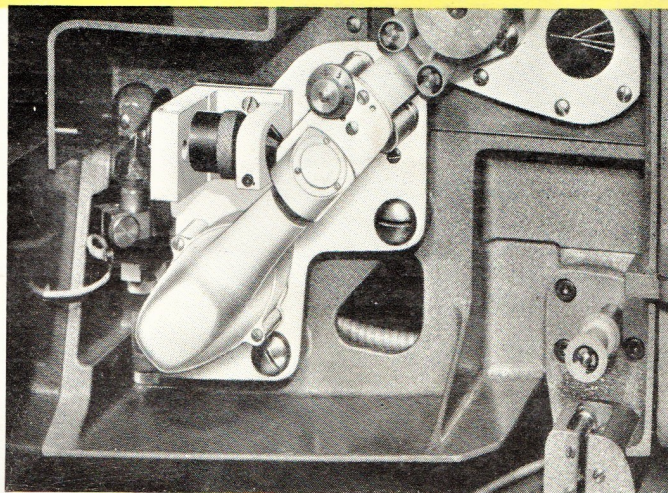


LUBRICATION

Automatic lubrication is by a driven gear-type pump. Oil is filtered through a filter box incorporating magnets and delivered to the components by pipes. A filter is also situated at the filler cap. A window on the operating side shows the quantity of oil in the mechanism. Indicator lines on the window show the correct oil level to be maintained at varying angles of projection.

OPTICAL SOUNDHEAD

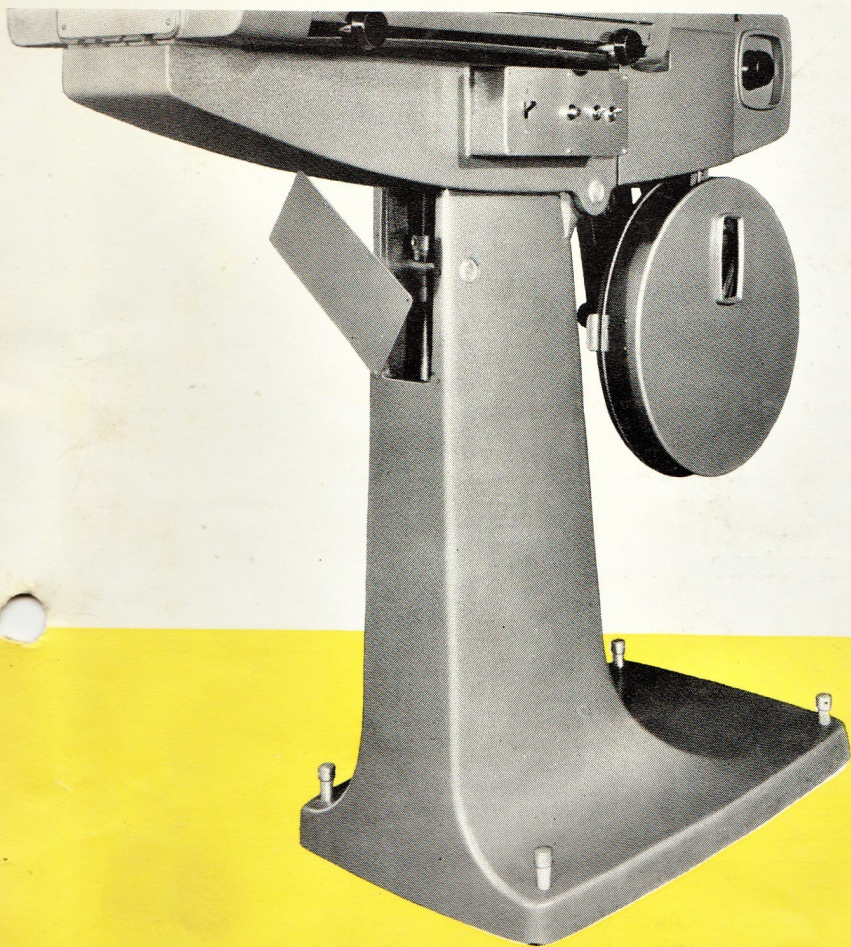
- * **Projected Slit Optical System**
- * **Single Film Sprocket**
- * **American type photocell when required**



The soundhead employs a mechanical filter system of the tight loop type. The bottom sprocket acts as a feed on one side and as a holdback on the other side. The soundhead optical system is of the highest quality projected slit type; a solid flywheel is used. Lateral adjustment is provided for the guide roller to correct the possible displacement of the sound track to the optical system. Provision is made for fitting an American type cell when required. A standard 8 volt 4 ampere exciter lamp is used.

OPTIONAL EXTRAS

Water and/or air cooled gate • Electrical changeover system • Penthouse type magnetic soundhead • Anamorphic lens bracket and Gaumont-Kalee 'Varamorph' • Projection lens • Film spools



PEDESTAL STAND

The stand incorporates a heavy cast-iron pedestal base giving rigid support, and a fixed optical height of 48" (122 cms). Four levelling screws are fitted in the base and an elevating screw, housed within the column provides for normal rakes between 5° positive and 30° negative. The projector control and sound changeover switches are mounted in the lamp support casting, and an arc switch (optional extra), can be fitted below the lamp-house beam.

MOTOR

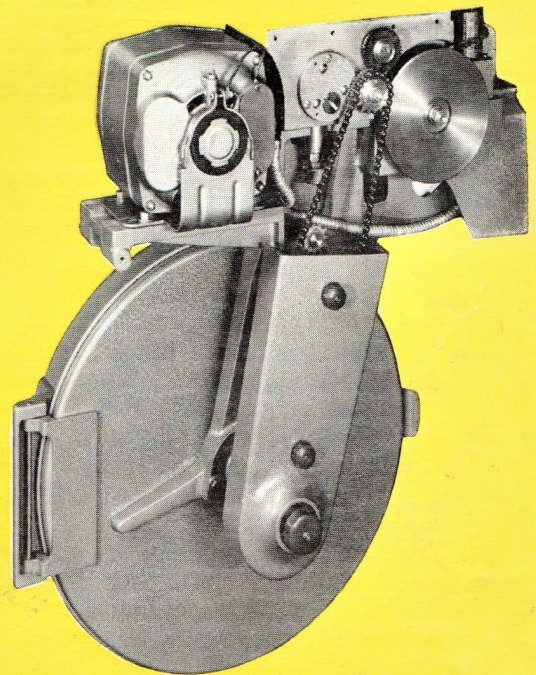
A split-phase $\frac{1}{4}$ h.p. 1,425 r.p.m. driving motor is mounted in front of the projector, with belt drive direct to the projector. It is fitted with a manual "inching knob".

SPOOL BOXES

2,000 ft. (600 metres), spool-boxes are supplied as standard. They are constructed of heavy gauge sheet steel and are complete with fire traps. Both boxes are fitted with inspection windows. The spool spindles are fitted with a spring tensioned clutch. Heavy cast hinges ensure a positive fitting of the deep section to the back tray, which is mounted on a substantial cast arm for rigidity and absolute alignment. The chain driven take-up for the bottom spool and the jockey sprocket are completely protected by a readily detachable guard. 5,000 ft. (1,500 metres) spool boxes are available at extra cost. NOTE: Film spools are additional to the equipment.

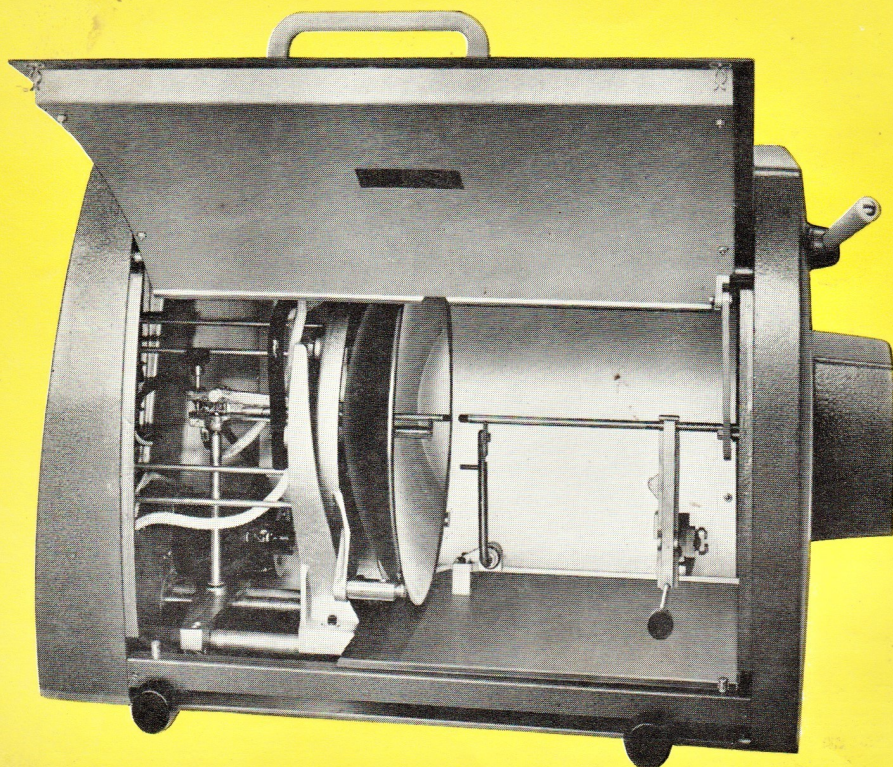
AMPLIFIER

The Gaumont-Kalee '37' Amplifier is described in a separate leaflet.



STAGE LOUDSPEAKER

The highly efficient Gaumont-Kalee loudspeaker has a crossover frequency of 1,800 cycles. The 12 in. (305 mm.) permanent magnet L.F. unit is mounted in a cabinet which is fitted with thick fibre glass pads for acoustic damping. There is no sound emanation from the rear. The H.F. unit is fitted with a three cell all-metal horn with a single throat. The dividing network forms part of the speaker assembly and is readily accessible. The complete speaker occupies the minimum space possible for high quality sound reproduction.



GAUMONT-KALEE

'37'

Arc Lamp

- * Automatic feed
- * High intensity D.C. or A.C., or Low intensity
- * 14" ellipsoidal reflector
- * Maintained uniformity of illumination
- * Trouble free operation

This new and attractive arc lamp was specially designed for the Gaumont-Kalee '37' equipment, and incorporates many of the features proved in other models of the Gaumont-Kalee range. It is universal, inasmuch as it can be supplied for use with either High Intensity D.C. or A.C., or Low Intensity carbons.

A feature of the lamp, which is largely contributory to its simplicity and high efficiency, is the use of a direct gear train for both positive and negative carbon carriages. This maintains uniformity of screen illumination and trouble-free operation.

An elliptical mirror of optimum collection-angle assures high optical efficiency, and an energised magnetic arc-flame control ensures arc stability and correct crater formation. A 12" (305 mm) mirror can be substituted if desired, for the 14" (355 mm) diameter mirror fitted as standard, simply by altering the position of the mirror supports.

The positive carbon is definitely guided for maintenance of the arc crater in the correct focal position.

On the operating side are situated the hand carbon controls, a periscope which projects the arc image on to a conveniently placed screen, and a handle operating a linked dowser and mirror screen.

At the rear of the lamphouse, a panel carries the controls for the vertical and horizontal movement of the mirror and negative carbon, together with the potentiometer and fuse for the feed motor. Easy access to all parts of the arc lamp, for cleaning and maintenance, is provided by a large door fully opening on the operating side. The door is automatically and securely locked in the open position and is fitted with an arc inspection window. There is also a window at the rear end of the lamphouse.

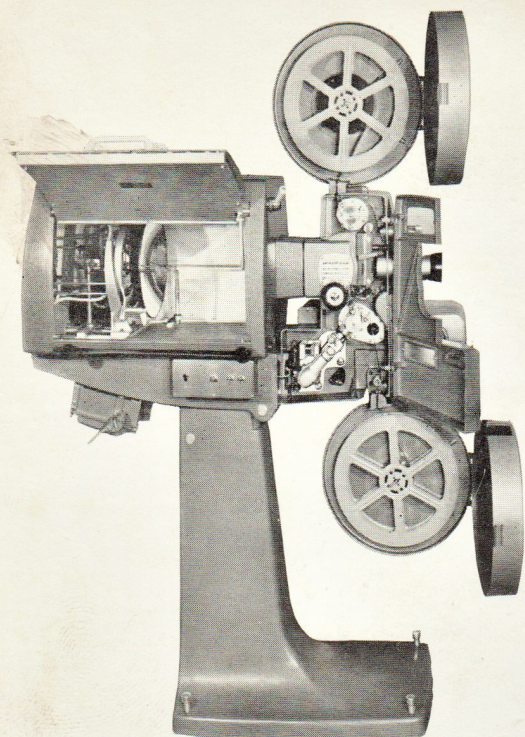


CARBONS The following 'SHIP' Carbon combinations, voltages and amperages are recommended.

HIGH INTENSITY

'CEREX' POS.	'CERE' NEG.	AMPS	ARC VOLTS
6 mm	5 mm	30-40	28-33
7 mm	6 mm	40-55	32-38
8 mm	7 mm	60-65	40-42
'CERELITE' POS.	'CERE' NEG.	AMPS	ARC VOLTS
6 mm	5 mm	35-45	28-35
7 mm	6 mm	45-55	31-37
8 mm	7 mm	60-70	38-43

'ALTERNALUX' A.C.		AMPS	ARC VOLTS
7 mm	7 mm	65-75	25-26
8 mm	8 mm	80-90	25-26
9 mm	9 mm	95-105	26-28
LOW INTENSITY			
'LUXO' POS.	'LUXO' NEG.	AMPS	ARC VOLTS
10 mm	7 mm	15-20	45-50
11 mm	8 mm	20-25	48-52
12 mm	9 mm	25-30	48-52
13 mm	9 mm	30-35	48-52
14 mm	10 mm	35-40	50-55



DUAL GAUMONT-KALEE '37' PROJECTION AND SOUND EQUIPMENT comprises

TWO GAUMONT-KALEE '37' Projectors complete with soundhead, driving motor, lamp support beam and guards. All switches, wiring, etc., are included in the assembly. NOTE: Voltage and frequency of supply must be stated when ordering. An electrical changeover is available as an extra and when ordered will be supplied built into the projector with the additional wiring and operating switch. The projector gate allows for the fitting of water and air cooling, as an extra, and would be built into the projector if specified when ordering. The basic equipment does not include lenses or lens adaptors.

TWO GAUMONT-KALEE '37' Arc Lamps complete, either H.I., L.I., or A.C., as specified, with 14" (355mm) or 12" (305mm) mirror as ordered. NOTE: The arc switch is available as an extra and when ordered will be supplied attached to the arc lamp beam casting.

TWO Pedestal Stands complete with levelling screws and mounting cups, for level optical height of 48" (1219mm).

TWO Top Spool Boxes 2,000ft (600 metres) complete with arms. NOTE: Diameter of spool spindle, $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " or 9mm must be stated when ordering.

TWO Bottom Spool Boxes 2,000ft (600 metres) complete with arms and take-up assembly. NOTE: Diameter of spool spindle must be stated when ordering.

ONE GAUMONT-KALEE amplifier as detailed on separate leaflet.

ONE GAUMONT-KALEE Stage Loudspeaker complete with 12" (305mm) L.F., unit mounted in cabinet with glass fibre pads, and H.F., unit with three cell all-metal horn.

OPTIONAL EXTRAS

SPOOLS (600 metres) in pack of 12 spools, diameter of bore must be stated when ordering.

"VARAMORPH" variable prismatic anamorph. Two complete with mounting brackets.

See special notes against each item of equipment when ordering. Voltage and frequency of supply must also be stated.

WEIGHT AND CASE DIMENSIONS (approximate)

Nett	Gross
Packed one case	
252 lbs	364 lbs
115 kilos	165 kilos
Case:	
52" × 48" × 32"	
132 cms × 122 cms × 81 cms	
Packed two cases each	
129 lbs	280 lbs
59 kilos	127 kilos
Case:	
42" × 28" × 34"	
107 cms × 71 cms × 86 cms	
398 lbs	564 lbs
181 kilos	256 kilos
Case:	
54" × 42" × 32"	
137 cms × 107 cms × 81 cms	
One top and one bottom spool box are packed with each arc lamp.	
—	
109 lbs	196 lbs
50 kilos	90 kilos
Case: 49" × 31" × 26"	
125 cms × 79 cms × 66 cms	
—	
40 lbs	84 lbs
18 kilos	38 kilos
Case: 24" × 26" × 19"	
61 cms × 66 cms × 48 cms	
56 lbs	117 lbs
25 kilos	53 kilos
Case: 25" × 25" × 18"	
64 cms × 64 cms × 46 cms	



G.B.-KALEE LTD

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A Member of the Rank Precision Industries Group