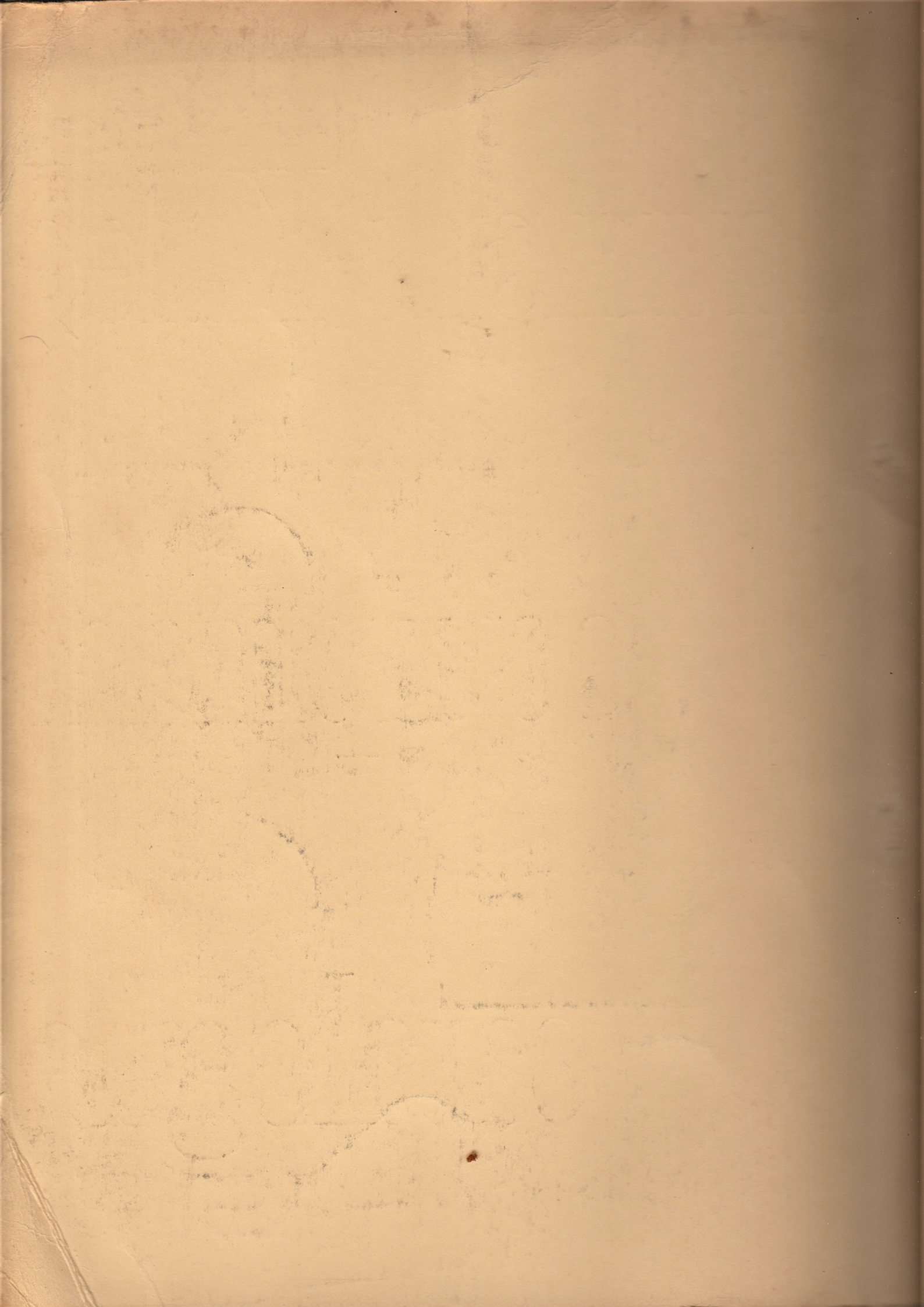


CAT 0037

Gaumont-Kalee

equipment

catalogue



G.B-KALEE LTD

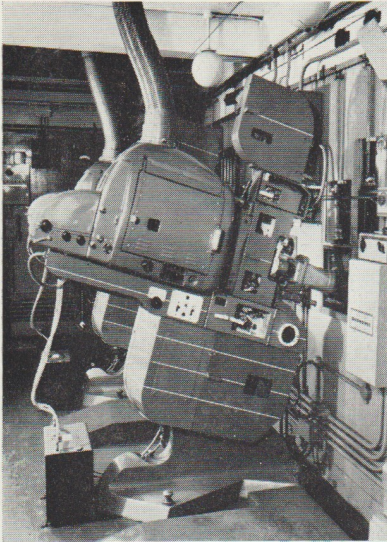
Everything for the motion picture industry

Within the Rank Precision Industries Group are a number of specialist companies, each with its own factory. These companies bring an unrivalled wealth of experience and technical knowledge to the design, development and manufacture of everything for the Motion Picture Industry. The products of this Group have a high reputation for quality and reliability amongst exhibitors and film makers all over the world.

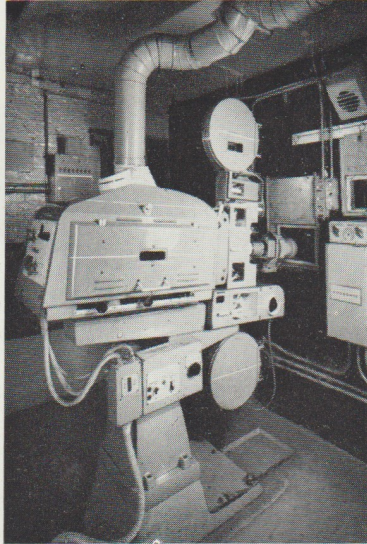


Gaumont-Kalee equipment

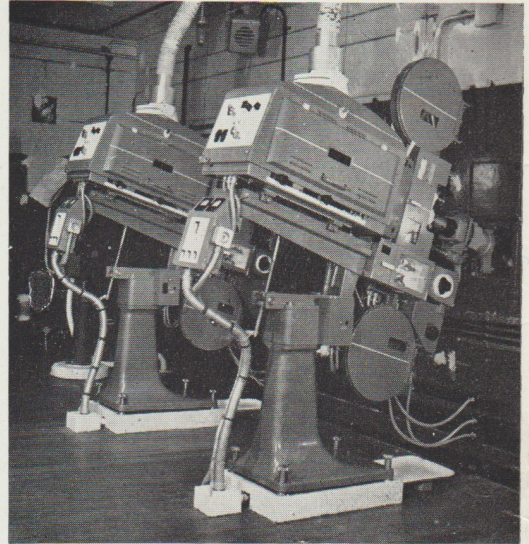
PROJECTION AND SOUND EQUIPMENT



Gaumont-Kalee projection and sound equipment with '21' stand, Magnetic soundhead, 'Varamorph', Gaumont-Kalee Mole-Richardson High Power arc lamp.

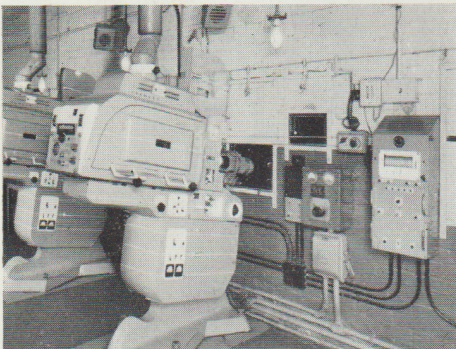


Gaumont-Kalee projection and sound equipment with box-type stand, magnetic soundhead, 'Varamorph', 'President' arc lamp.

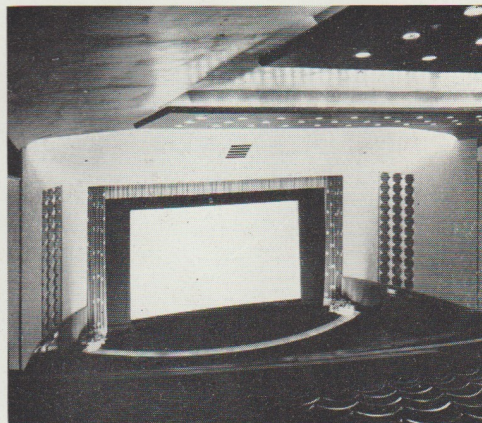


Gaumont-Kalee projection and sound equipment with pedestal-type stand, optical soundhead only, 'Varamorph', 'President' arc lamp.

PROJECTOMATIC, SCREENS, SCREEN FRAMES AND MAGNASCOPIC MASKING GEAR



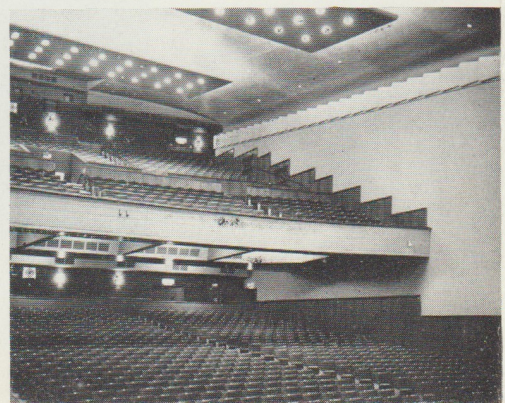
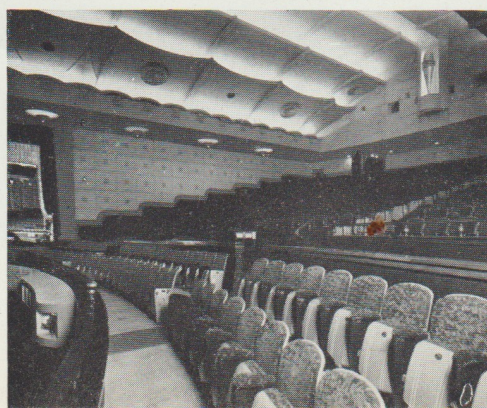
PROJECTOMATIC—a simple robot device—actuates the entire programme with split-second timing from parting the curtains, dimming lights, change-over of projectors (normal and stereophonic sound), raising lights, etc. for intervals—to closing the show.



Gaumont-Kalee 'PERLUX' screen and screen frames with electrically or hand-operated magnascopic masking for two or more picture ratios.

SEATING

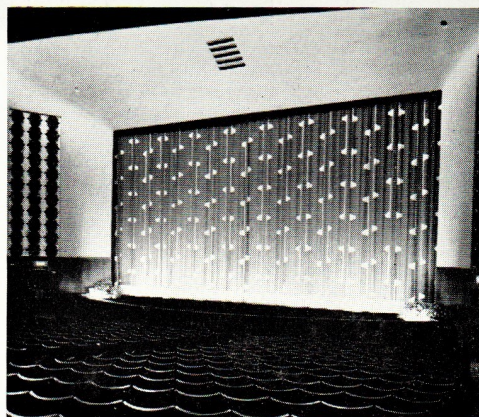
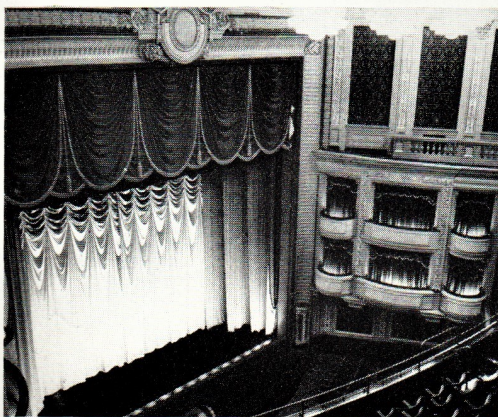
Gaumont-Kalee manufacture an extensive range of seating for every type of auditorium. It ranges from the purely practical, for installation in a tropical open-air cinema, to the most luxuriously comfortable, for a modern super cinema.



and some recent installations

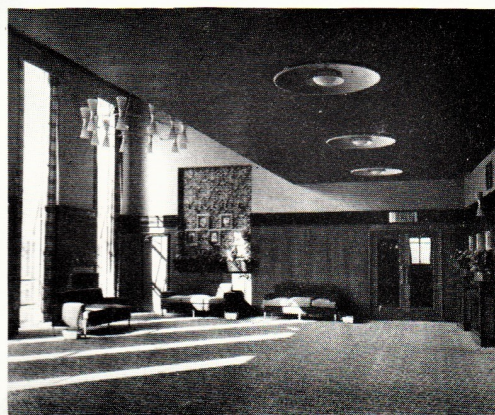
STAGE CURTAINS AND STAGE EQUIPMENT

Twenty-five years of experience goes into the making of every Gaumont-Kalee curtain. The quality of workmanship and the materials available are second-to-none. Gaumont-Kalee's experience covers all types of drapery work for cinemas, theatres and stage and film productions.



CARPETS

Gaumont-Kalee offer an extensive range of carpets selected by specialists for their high quality and their suitability for use in theatres. All are produced by famous British carpet manufacturers, renowned for their long-lasting products. Carpets can be made to any required pattern or colour.



And for FILM STUDIOS AND LABORATORIES

35 mm and 16 mm Optical Sound Recording Equipment
35 mm and 16 mm Magnetic Sound Recording Equipment
Recording Mixing Console Units
35 mm and 16 mm Cabinet type combined Optical/
Magnetic Reproducing Equipment
Selsyn Motor Equipment

35 mm and 16 mm Preview Theatre Equipment
35 mm and 16 mm Motion Picture Cameras
Cooke Speed Panchro Lenses
Editing and Laboratory Equipment
Film Splicers and Printers
Flutter Meters

EVERYTHING FROM ONE SOURCE

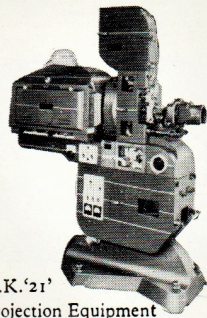
Get ALL your equipment from ONE SOURCE

G.B-KALEE LTD.

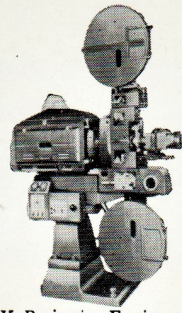
leading European manufacturers

and exporters of

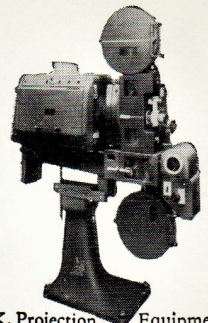
EVERYTHING FOR THE MOTION PICTURE INDUSTRY



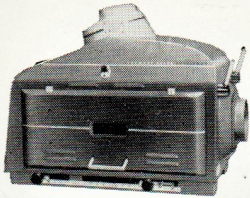
G.K.'21'
Projection Equipment



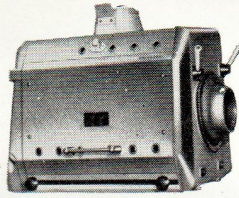
G.K. Projection Equipment



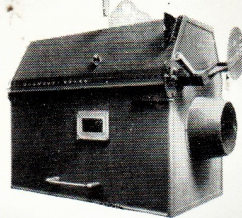
G.K. Projection Equipment



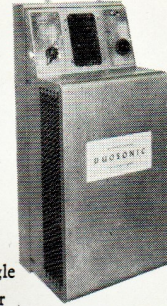
'President' arc lamp



'Universal' arc lamp



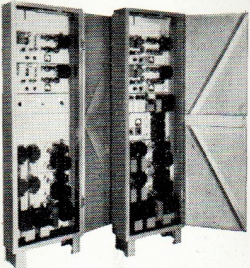
'Commander' arc lamp



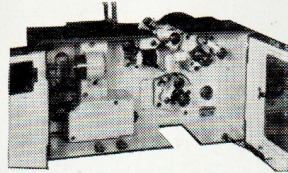
18w single
Amplifier



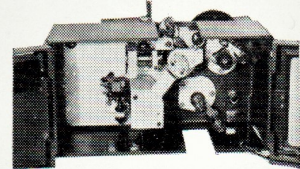
18w
dual
Amplifier



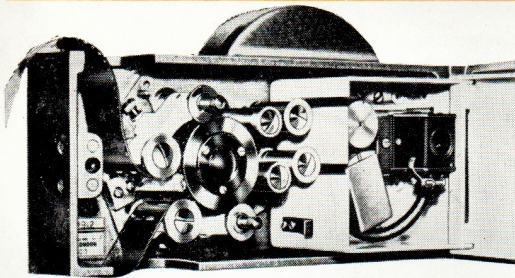
30w & 60w Amplifiers



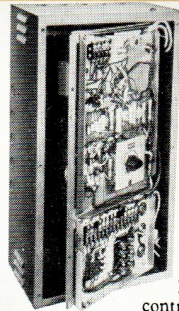
83 Soundhead



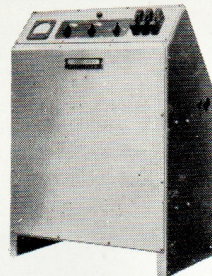
543 Soundhead



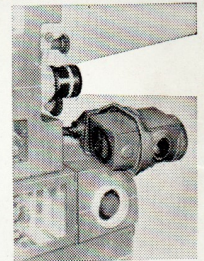
Magnetic Soundhead



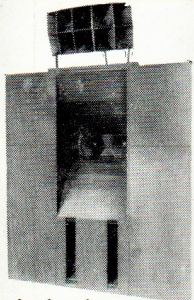
Effects
control unit



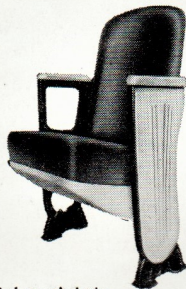
'80' Rectifier



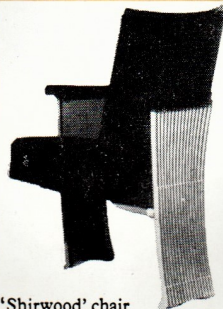
G.K. Lens & Anamorphs



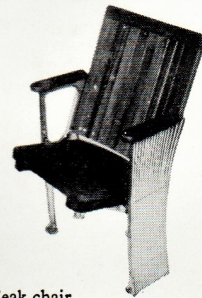
Stage loudspeaker



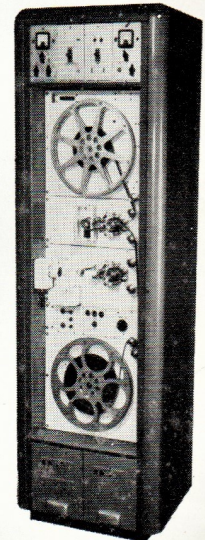
'Diplomat' chair



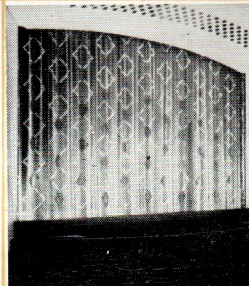
'Shirwood' chair



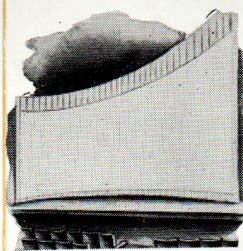
Teak chair



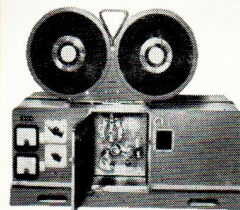
Optical/Magnetic
Reproducing Equipment



Curtains



'Perlux' screen



Optical Sound
Recording Camera

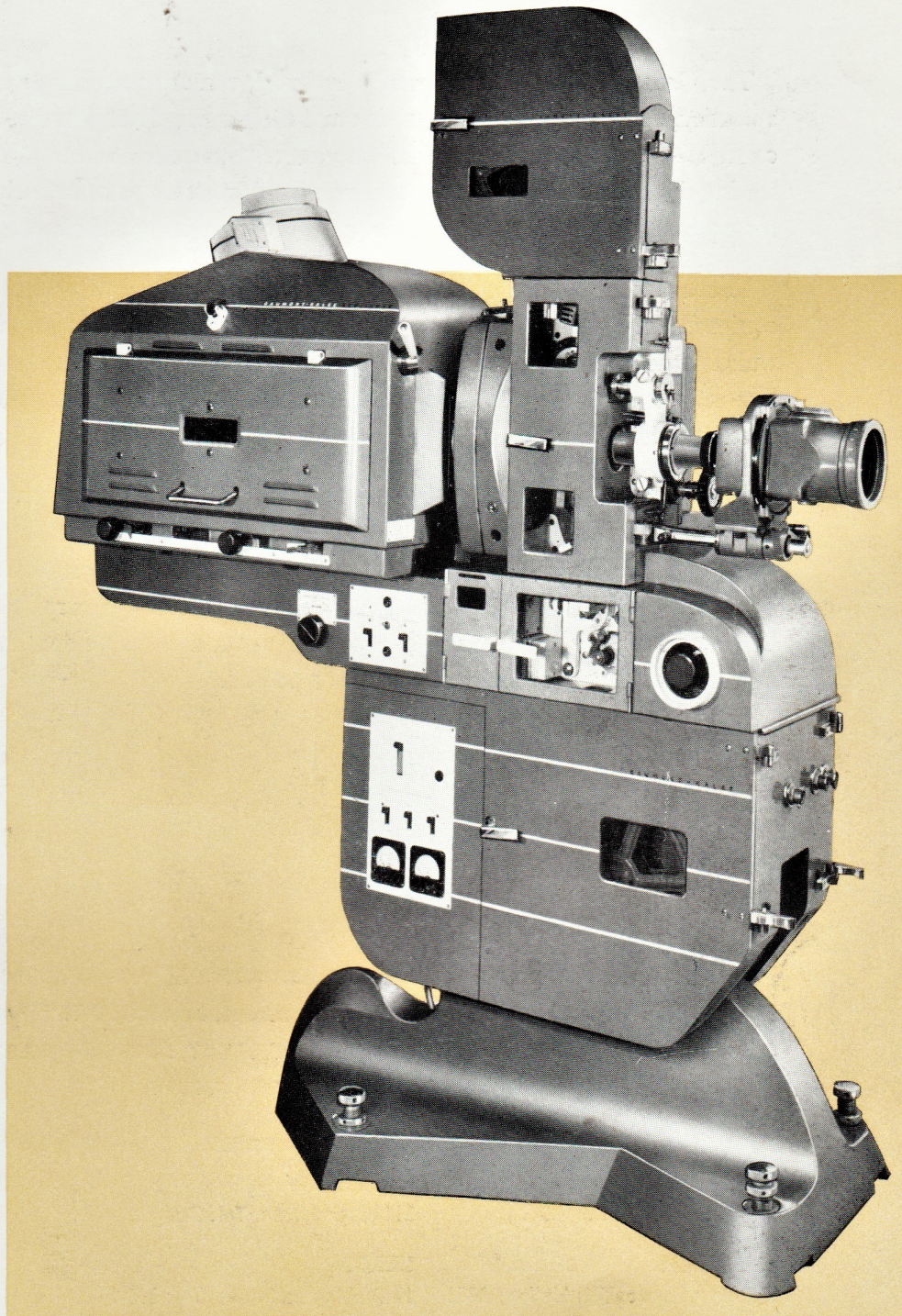
G.B-KALEE LTD Mortimer House, 37-41 Mortimer Street, London, W.1

Telephone: Museum 5432 Telegrams: "GEBEKAY, LONDON, TELEX"

A Member of the Rank Precision Industries Group

THE GAUMONT-KALEE '21' Projection and Sound Equipment

The Gaumont-Kalee '21' has established itself throughout the world. It is recognised as a new conception in motion picture equipment that is destined to set the standard for a long time to come. The quality of sound and picture presentation is acknowledged to be unsurpassed.



Modern in Conception—Unique in performance

It is modern; modern in every sense of the word, for it can be equipped with 'Varamorph' lenses and single or four-track magnetic soundheads for CinemaScope and other wide-screen systems. Revolutionary in thought and principle, boldly conceived in design, style and colouring, it presents an appearance that is at once pleasing and business-like. For the first time in the production of cinematograph equipment, the services of an industrial designer have been used to collaborate with the technicians and mechanical designers, resulting in an equipment that is a thing of beauty as well as being of the utmost efficiency. Its appearance is enhanced by an attractive and serviceable colour scheme of light stone and maroon with bright metal parts chromium finished.

The Gaumont-Kalee '21' is totally enclosed, thereby providing almost complete silence in operation, the maximum fire-protection and the utmost cleanliness throughout. All wiring and conduits—except the main services—are entirely concealed within the base of the equipment, leaving the floor of the projection room clear. Yet although completely enclosed, every part of the equipment is readily accessible for inspection, servicing and cleaning.

The Gaumont-Kalee '21' has been designed as a complete unit, including in one piece of equipment the various components such as projector, optical system, arc lamp and soundhead which hitherto have been treated as separate units. This has meant the closest co-operation between scientists and technicians, with the result that the Gaumont-Kalee '21' is a complete functional entity.

The equipment is of robust construction throughout. Projector, soundhead, spoolboxes and doors are ribbed castings, eliminating whip or drumming. It is a veritable masterpiece of British motion-picture development, precision engineering and scientific skill, and it brings to the screen a sound and picture presentation which is admittedly unsurpassed. The illustration on the front shows the equipment fitted with the 'President' arc lamp, and a 'Varamorph' variable prismatic anamorphic lens.



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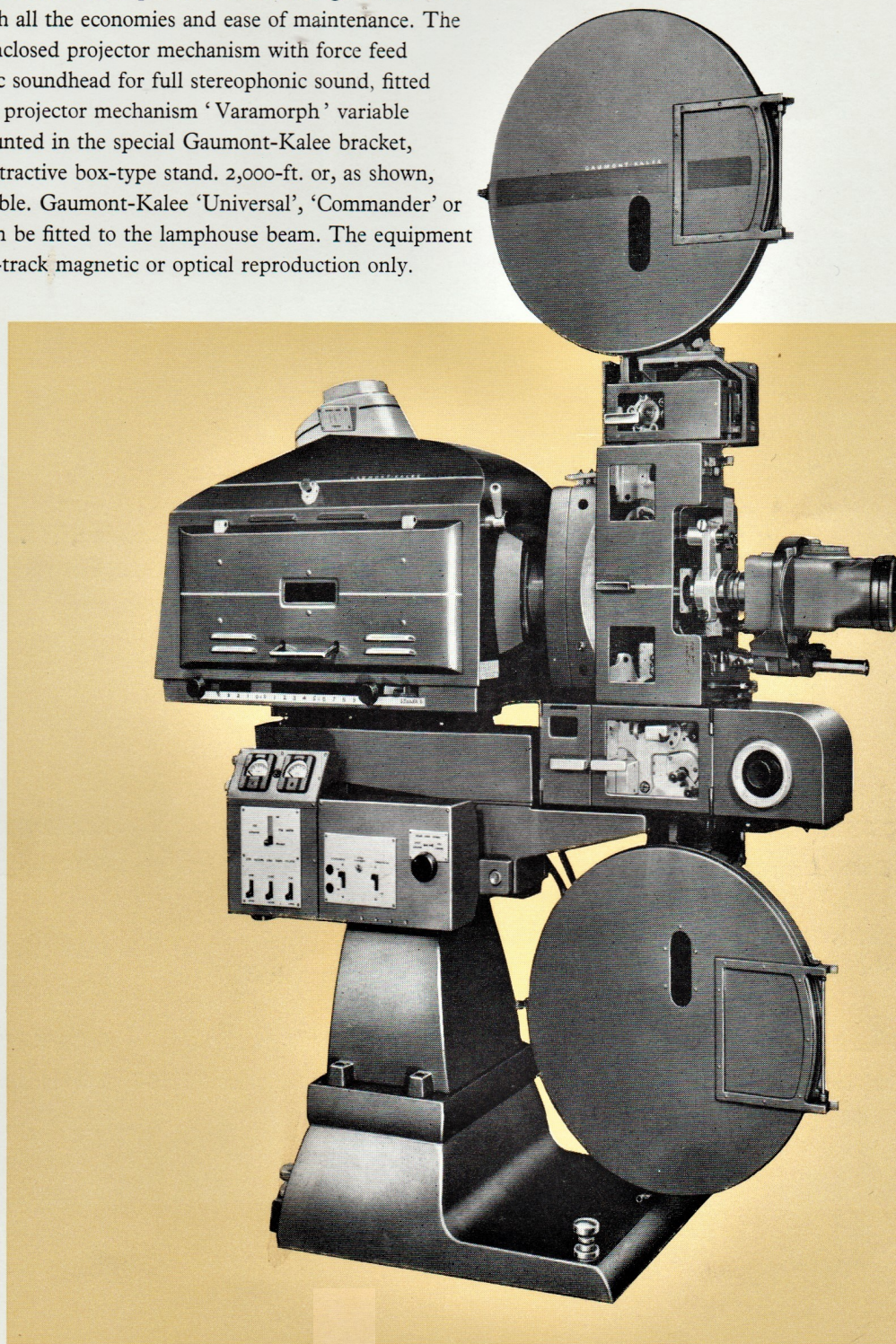
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GAUMONT-KALEE Projection and Sound Equipment

with totally enclosed type Projector Mechanism and Box-type Stand

This equipment makes available the many advancements in design of the famous Gaumont-Kalee '2r' at a much lower cost. It provides the same high standard of performance and reliability with all the economies and ease of maintenance. The illustration shows the totally enclosed projector mechanism with force feed lubrication, four track magnetic soundhead for full stereophonic sound, fitted between the top spool box and projector mechanism 'Varamorph' variable prismatic anamorphic lens mounted in the special Gaumont-Kalee bracket, 'President' arc lamp and the attractive box-type stand. 2,000-ft. or, as shown, 5,000-ft. spool boxes are available. Gaumont-Kalee 'Universal', 'Commander' or any other make of arc lamp can be fitted to the lamphouse beam. The equipment can also be supplied for single-track magnetic or optical reproduction only.





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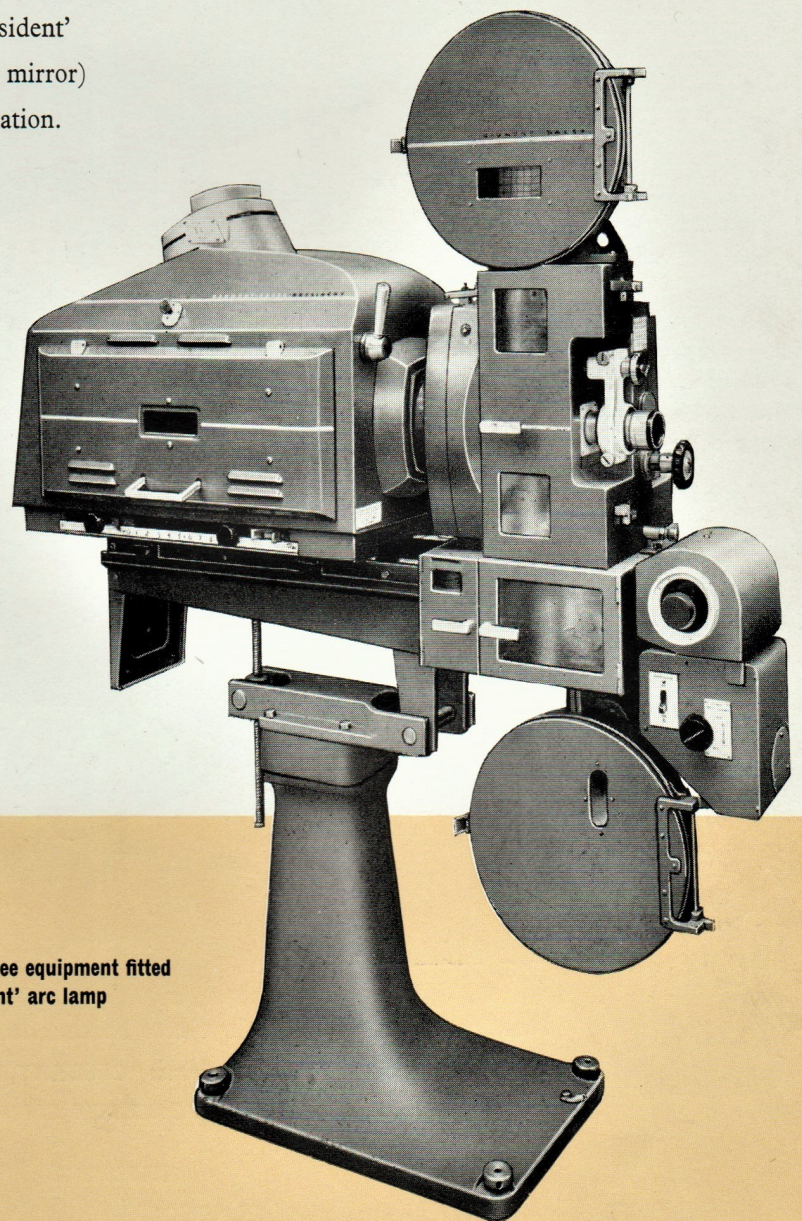
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GAUMONT-KALEE Projection and Sound Equipment

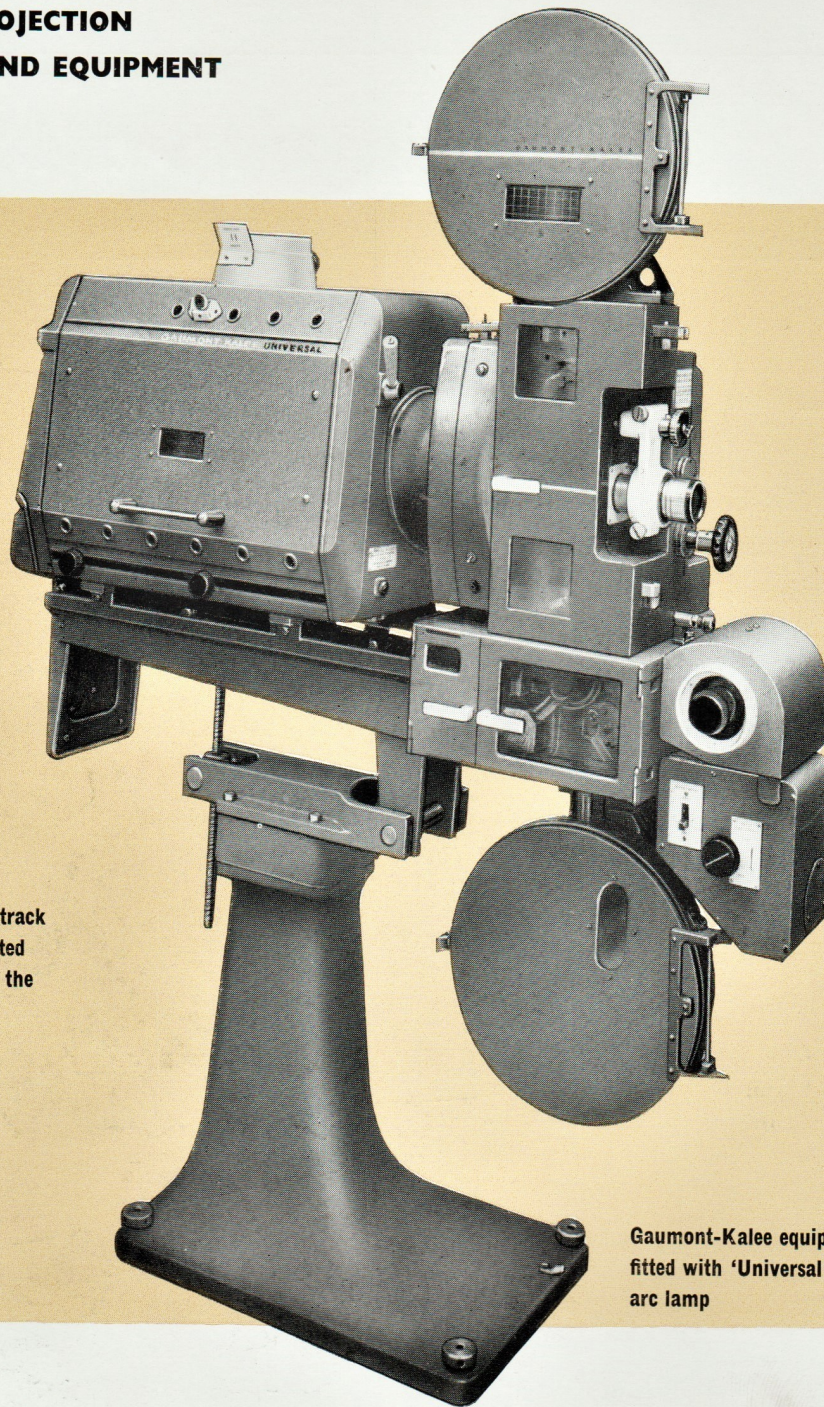
With totally enclosed Projector mechanism and pedestal stand

This equipment provides the highest standard of performance and reliability at a very reasonable cost. The totally enclosed oil bath projector mechanism with either the 'President' (14" mirror), 'Universal' or 'Commander' (12" mirror) arc lamp, ensures brilliant high quality presentation. Penthouse type sound heads for single or four-track magnetic reproduction and the 'Varamorph' with Gaumont-Kalee series 'S' high definition lenses can easily be fitted for presentation of all anamorphic films.



**Gaumont-Kalee equipment fitted
with 'President' arc lamp**

**GAUMONT-KALEE
PROJECTION
AND SOUND EQUIPMENT**



Penthouse type single or four-track magnetic soundheads can be fitted between the top spool-box and the projector mechanism.

Gaumont-Kalee equipment fitted with 'Universal' arc lamp



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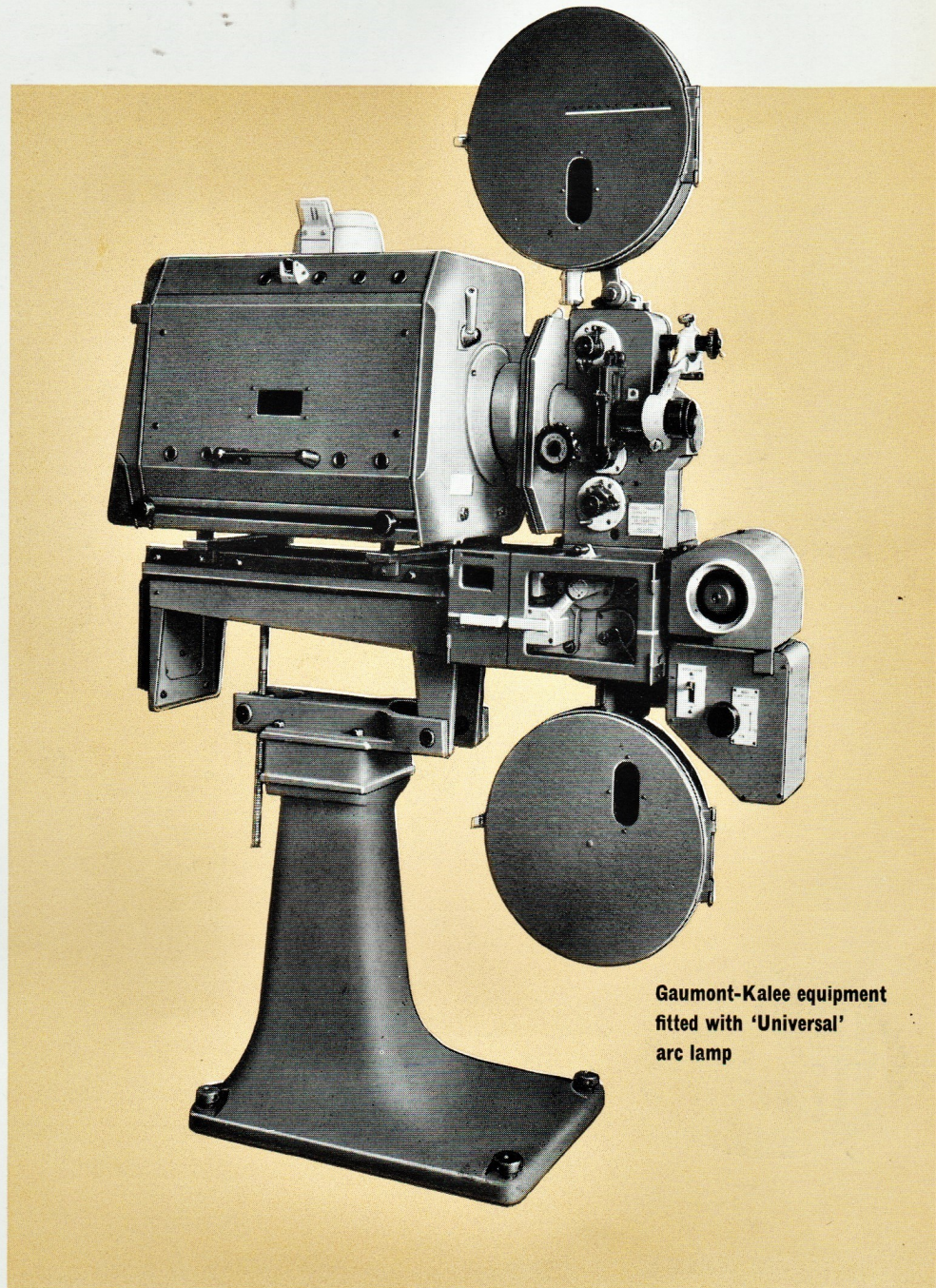
2 Cross Street Tel: 23038

GAUMONT-KALEE Projection and Sound Equipment

with Model '18' Open Access Projector

This is the lowest priced Projection and Sound Equipment offered in the Gaumont-Kalee range, and uses the G-K '18' Open Access Projector Mechanism which is manufactured and produced to the same exacting specification used on the more expensive projectors. There is a choice of three arc lamps, the 'Universal' and 'Commander' with 12" mirrors, or the 'President' with a 14" mirror and twin motor positive and negative carbon drive—all giving consistently brilliant and uniform illumination. Single or four-track magnetic soundhead can be fitted between the top spool box and the projector mechanism. It can also be equipped with Gaumont-Kalee 'Varamorph' anamorphic lens and bracket for the presentation of all modern wide screen systems.

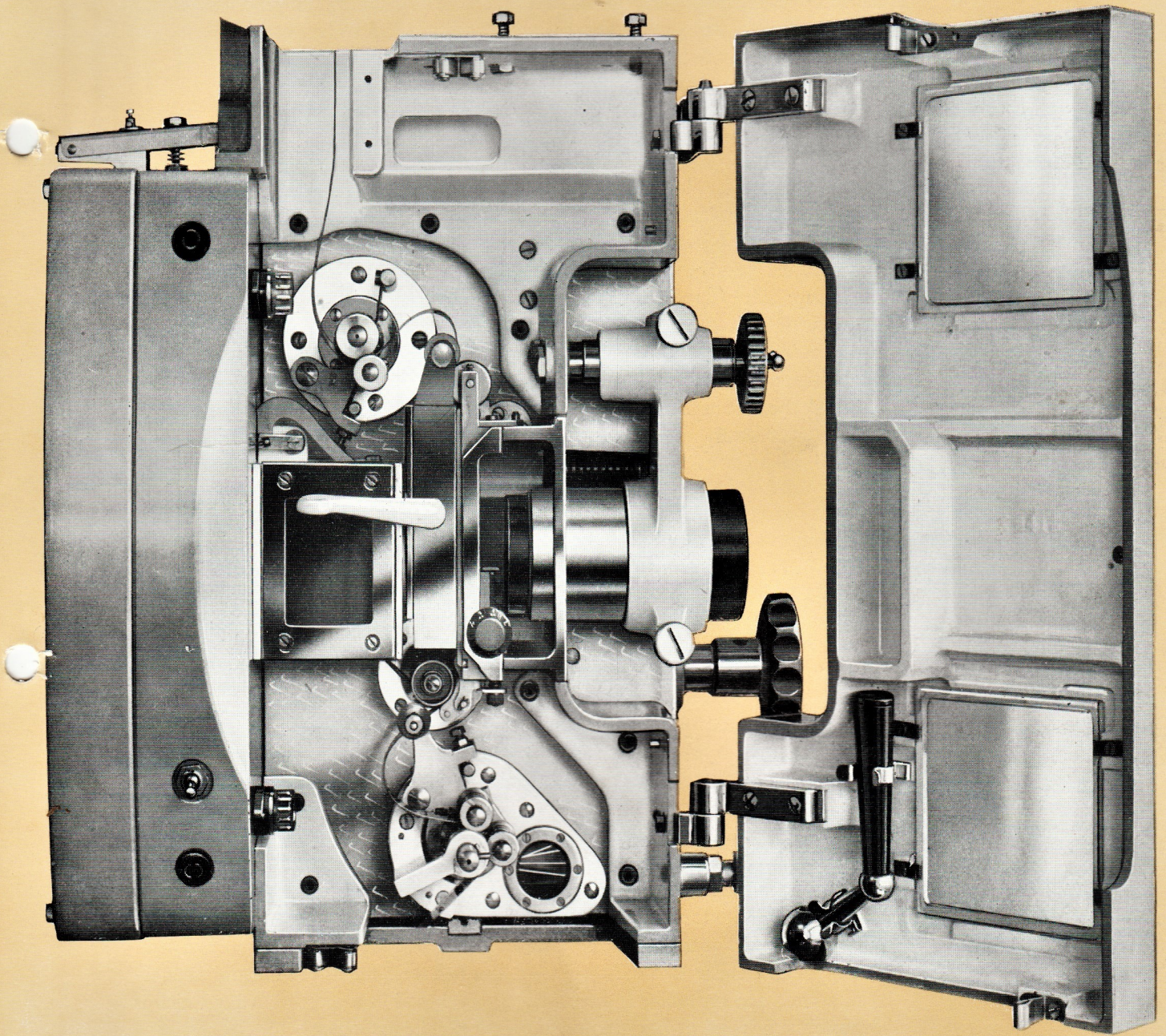
The complete equipment makes a very attractive and efficient assembly for use in the smaller cinema.



Gaumont-Kalee equipment fitted with 'Universal' arc lamp

THE GAUMONT-KALEE Projector Mechanisms

MODELS '21' '20' and '19'



Modern in conception — Unique in performance

The GAUMONT-KALEE

Projector Mechanisms Models '21' '20' and '19'

A range of totally enclosed projector mechanisms, precision built and rock-steady for the perfect presentation of all modern wide screen systems. Rigidity and maintenance of alignment of all spindles are ensured by the substantial box casting of the main frame. This serves also as an oil bath in which the mechanism operates in a constant stream of filtered oil circulated by a mechanical pump. The mechanism is constructed on unit lines throughout and dismantles into a few major assemblies removable as units and interchangeable for easy replacement and service. A hinged cover plate on the operating side makes the film path readily accessible for inspection, threading and maintenance. The special Gaumont-Kalee bracket for the anamorphic lens can be easily attached to the front of the main casting. It can also be fitted with a penthouse type single-track or four-track magnetic soundhead.

OUTSTANDING FEATURES

- Gate Assembly** Special attention has been given to the design of the parallel-action gate to ensure adequate heat diffusion. The mask aperture is screened by a heat reflector and the gate assembly is massively constructed to give an ample heat radiating surface. The front section of the gate is instantly detachable for cleaning purposes. The gate assembly can be supplied, to special order, for use with an air blower or with water cooling, or for use with both air and water cooling system (see back page). The mask plate is hardened and ground and the surfaces in contact with the film are highly polished. A framing aperture is supplied to facilitate the correct lacing of the film in the gate. The mask aperture in the plate is detachable and provides facilities for easy replacement or adjustment for any desired aspect ratio. The complete mask plate assembly is located in machined guides and is readily removable—no fixing screws are necessary.
- Threading Lamps** Twin threading lamps are embodied (controlled by separate switch) which operate from a built-in low voltage transformer arranged for mains connection.
- Film Guide Rollers** The entry roller assembly at the top of the gate is mounted on pivot bearings to ensure free running; provision is made for the adjustment of the roller for correct tracking. Adjustment of the tension applied to the gate runners is made by a readily accessible control knob which is marked in degrees for easy setting.
- Change-Over Device** The Gaumont-Kalee type '21' and '20' projectors incorporate a simple but effective picture change-over device electrically controlled from either machine and working between the film path and shutter. The action is electro-mechanical and incorporates the automatic safety shutter device.
- Note: The Gaumont-Kalee '19' does not include the automatic change-over device.*
- Shutter** The Gaumont-Kalee '21' projector incorporates an improved shutter with a single blade, running at twice the normal speed, thus cutting the light beam in half the time taken by the usual two-blade shutter. This gives approximately 20 per cent. increase in light efficiency with less flicker. The shutter blade has an integral counter-balance fitted and the whole shutter assembly is carried in a special bearing which is adequately lubricated by the main projector oil circulating system.
- The Gaumont-Kalee type '20' and '19' embody the standard two-blade normal speed shutter.*

Modern in conception

Masking Control handle located in most convenient position at front of projector giving positive picture mask without slip. Compensation of shutter, when masking, is obtained by a link and sliding gear action of very substantial construction.

MODERN IN CONCEPTION

Lubrication Automatic by driven gear-type pump. Oil is filtered before entering the pump, passed through an improved filter box incorporating magnets, and delivered to the components through pipes. The rear cover of the projector is fitted with a wired-glass panel, and serves as a clearly visible indicator of oil circulation. A window on the operating side with indicating lines shows the quantity of oil in the base of the mechanism when it is stationary.

Bearings and Spindles Designed to furnish correct lubrication and provided with specially designed "throw-backs" to return the oil to the pump. Spindles are of tough high-carbon steel, ground to extremely fine limits.

Focusing Micrometer focusing, critical and rigid due to the complete elimination of backlash; when set can be rigidly locked. Specially designed lens holder enables the extra-wide aperture 2.778-inch (70.56 mm.) diameter Gaumont-Kalee series 'S' high definition lens to be used.

Gearing The gear train is designed for everlasting wear and is on "unit replacement" basis with "hunting tooth" ratio, paired metallic and non-metallic, and is extremely silent and free running.

Adapter Gears The design of the projector allows the use of varying types of simple adapter gearing so that it can be employed with all well-known sound systems.

Guide Rollers Specially designed to give great freedom and long life. Fitted with snap action cradles.

Intermittent Unit This all-important component is constructed in the form of a complete self-contained unit. Easy access to the assembly is given by removing the cover on the non-operating side of the projector. The intermittent unit is then exposed and only requires the removal of a special securing nut and washer to withdraw the complete unit.

Maltese Cross This is the most vital part of the projector mechanism and may correctly be termed the heart of the projector. The material from which it is made is a special high tensile alloy steel, heat treated. The highest skill is employed in its manufacture, in conjunction with most accurate precision machinery, finished by grinding to extremely fine limits of accuracy. The cross is of large size, ensuring long life.

Oil Drain An oil drain plug is fitted at the base of the mechanism and a filter plug at the top.

The projector is attractively finished in standard Gaumont-Kalee colours of mid-stone, white and maroon with all bright metal parts heavily plated.

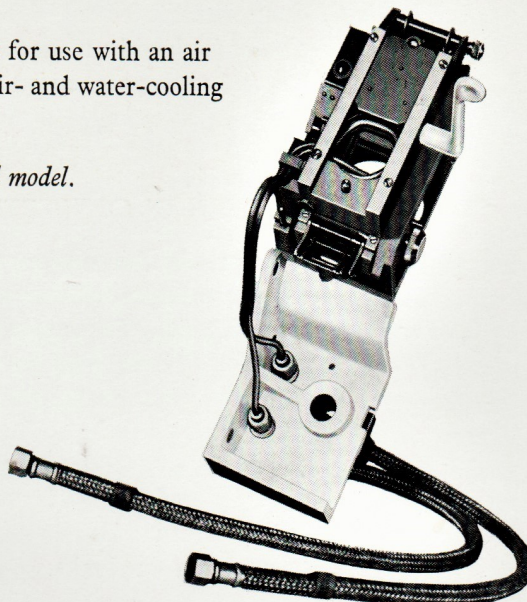
Every detail of the Gaumont-Kalee range of projectors has received the closest attention in design, selection of material, workmanship and finish, to produce in the completed machine the last word in projector construction.

Unique in performance

WATER-COOLED GATE

The gate assembly can be supplied to special order for use with an air blower or with water cooling, or for use with both air- and water-cooling system.

The illustration shows the water-cooled model.



WEIGHTS AND DIMENSIONS

SINGLE Gaumont-Kalee '21' or '20' Projector Mechanism

Case Dimensions: 29" x 25" x 27" (74 cm x 64 cm x 69 cm)

Gross Weight: 2 cwt. 0 qrs. 6 lb. (104 kilos.)

Nett Weight: 1 cwt. 0 qrs. 20 lb. (60 kilos.)

TWO Gaumont-Kalee '21' and '20' Projector Mechanisms

Case Dimensions: 41" x 29" x 27" (104 cm x 74 cm x 69 cm)

Gross Weight: 3 cwt. 3 qrs. 10 lb. (196 kilos.)

Nett Weight: 2 cwt. 1 qr. 12 lb. (120 kilos.)

SINGLE Gaumont-Kalee '19' Projector Mechanism

Case Dimensions: 29" x 25" x 27" (74 cm x 64 cm x 69 cm)

Gross Weight: 2 cwt. 0 qrs. 4 lb. (104 kilos.)

Nett Weight: 1 cwt. 0 qrs. 18 lb. (59 kilos.)

TWO Gaumont-Kalee '19' Projector Mechanisms

Case Dimensions: 41" x 29" x 27" (104 cm x 74 cm x 69 cm)

Gross Weight: 3 cwt. 3 qrs. 6 lb. (194 kilos.)

Nett Weight: 2 cwt. 1 qr. 8 lb. (118 kilos.)



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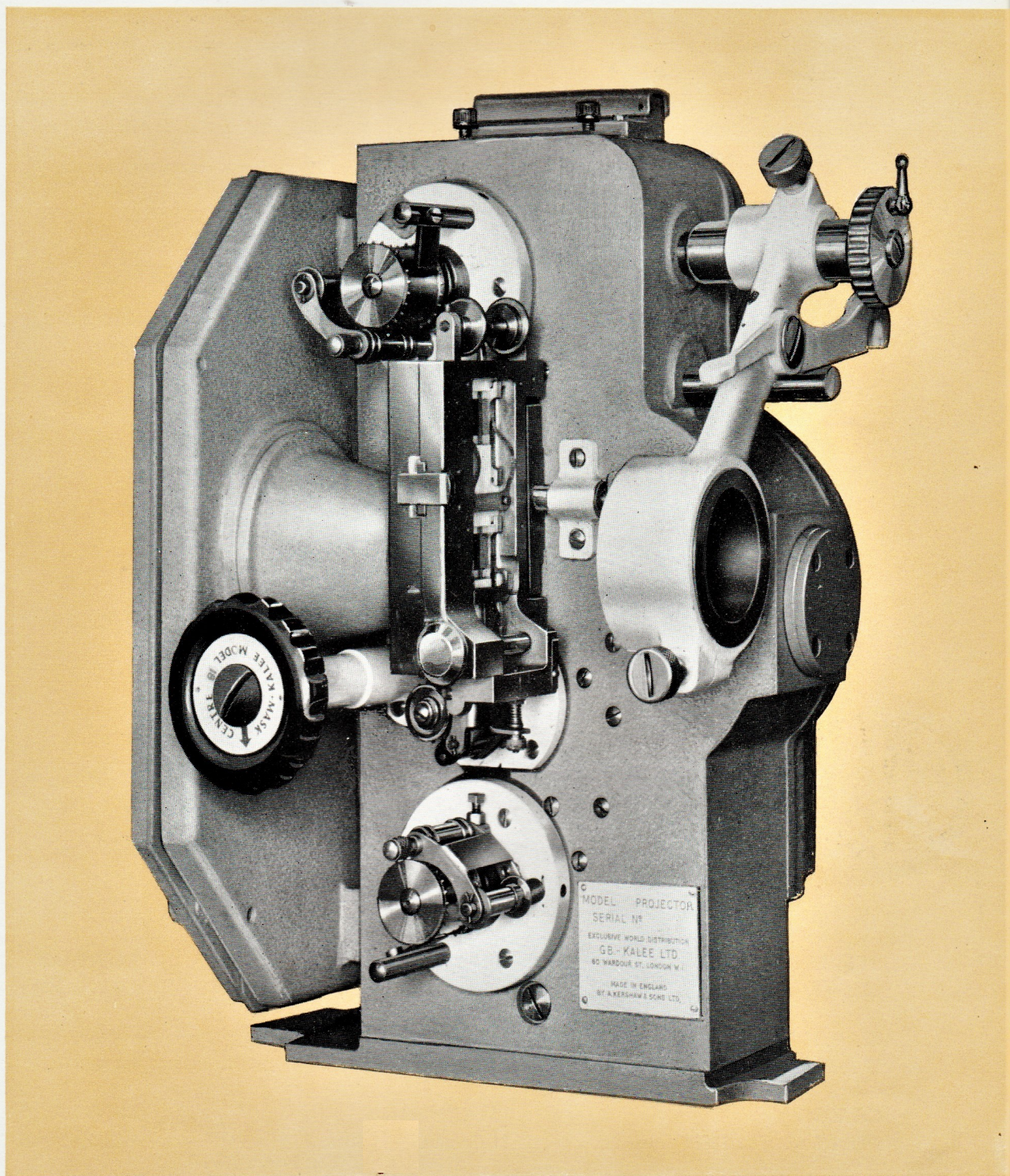
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THE GAUMONT-KALEE Model '18' *Open Access* Projector Mechanism

This mechanism is built to combine first-class performance with a thoroughly reasonable price. Its design is simple, but the finish, limits and tolerances are the same as on the most expensive projectors in the Gaumont-Kalee range.



The projector is fitted with a grouped oiling system with an oiling block at the top of the main frame. All spindles and bearings are lubricated through feed pipes terminating at this block. The Maltese cross and cam of the intermittent unit run in an oil bath and are housed in an oil-tight box casting.

Framing is carried out by rotating the intermittent unit around the inter-sprocket by means of the knob situated on the operating side and immediately beneath the light cone. A two-way clutch is incorporated in this knob which prevents picture creep. Shutter-timing compensation is automatically obtained by a quadrant and linkage sliding the spiral driving gear on the shutter shaft in synchronisation.

The gear train comprises cast-iron and fibre gears in pairs and all spindles are hardened and ground and run in cast-iron bushes. The driving gear adapting the projector to the soundhead is carried in the bottom of the projector main frame which is mounted to the soundhead by means of a readily-secured adapter plate. A single-fixing gear guard completely encloses the gear train of the projector.

The gate is rigidly constructed and fitted with an adjustable tension device operated by a knob on the front edge of the gate block, the rotation of which increases or decreases the spring tension on the film skates. The gate itself opens like a book, the hinge being held in position by a spring-loaded catch. When this is released the gate plate, complete with guide rollers and adjustable shoe for the intermittent sprocket, can easily be removed. The lens holder accepts standard 2.781 inch (70.6 mm.) diameter Gaumont-Kalee 'bloomed' lenses; this diameter being clear to 1 inch (25.4 mm.) of the film. An adapter is supplied suitable for the range of smaller lenses.

A fire shutter is fitted between the twin-bladed rear shutter and the gate. The fire shutter is directly linked with a centrifugal governor mechanism mounted on the top intermediate gear.

A 16-tooth hardened and ground intermittent sprocket is fitted and 24-tooth sprockets are mounted on the top and bottom shafts.

The projector is finished in the standard Gaumont-Kalee colour scheme of mid-stone, white and maroon.

NOTE: The Gaumont-Kalee Model '18' projector mechanism can be supplied for use with other makes of sound-reproducing equipment if adapter gearing is available.

WEIGHTS AND DIMENSIONS

SINGLE Gaumont-Kalee '18' Projector Mechanism

Case Dimensions: 21" x 20" x 22" (54 cm x 51 cm x 56 cm)

Gross Weight: 1 cwt. 1 qr. 16 lb. (71 kilos.)

Nett Weight: 0 cwt. 3 qrs. 10 lb. (43 kilos.)

TWO Gaumont-Kalee '18' Projector Mechanisms

Case Dimensions: 35" x 20" x 22" (89 cm x 51 cm x 56 cm)

Gross Weight: 2 cwt. 1 qr. 16 lb. (124 kilos.)

Nett Weight: 1 cwt. 2 qrs. 20 lb. (85 kilos.)

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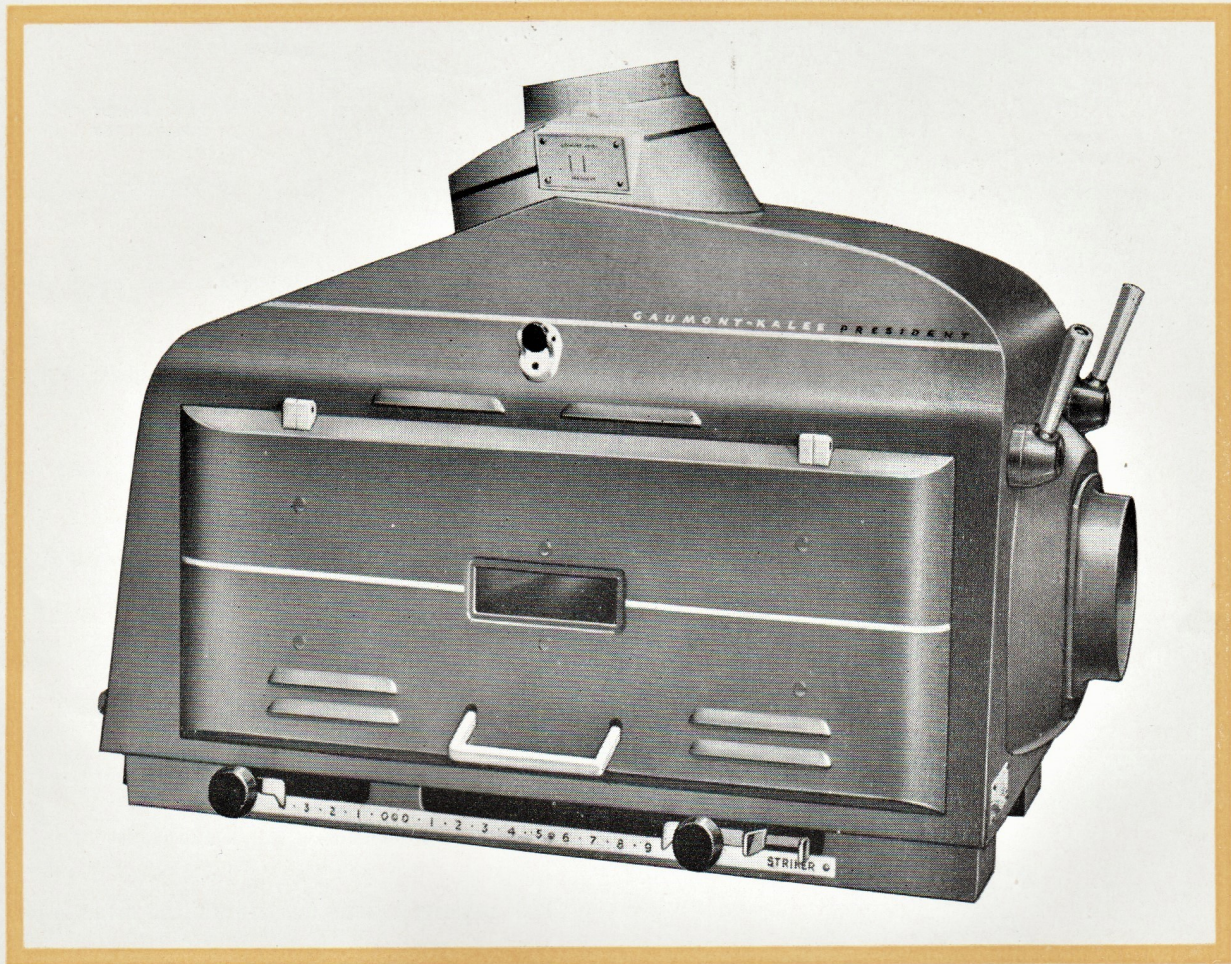
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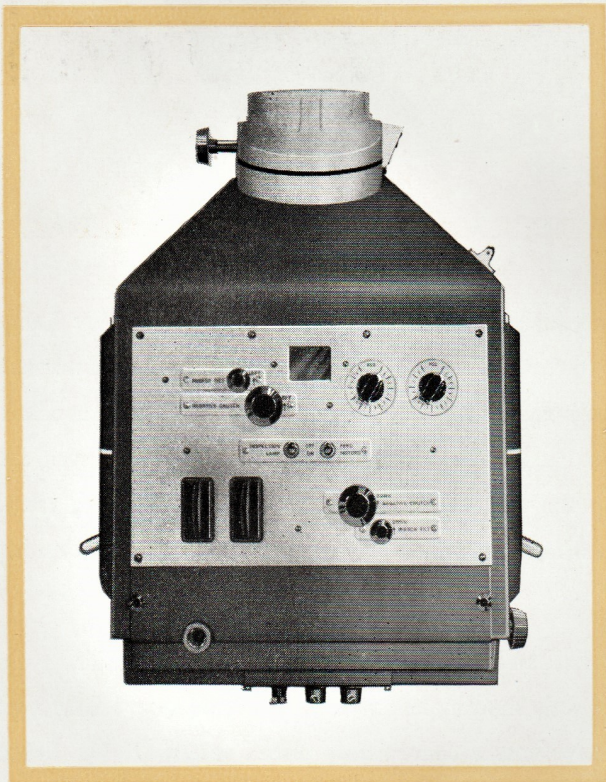
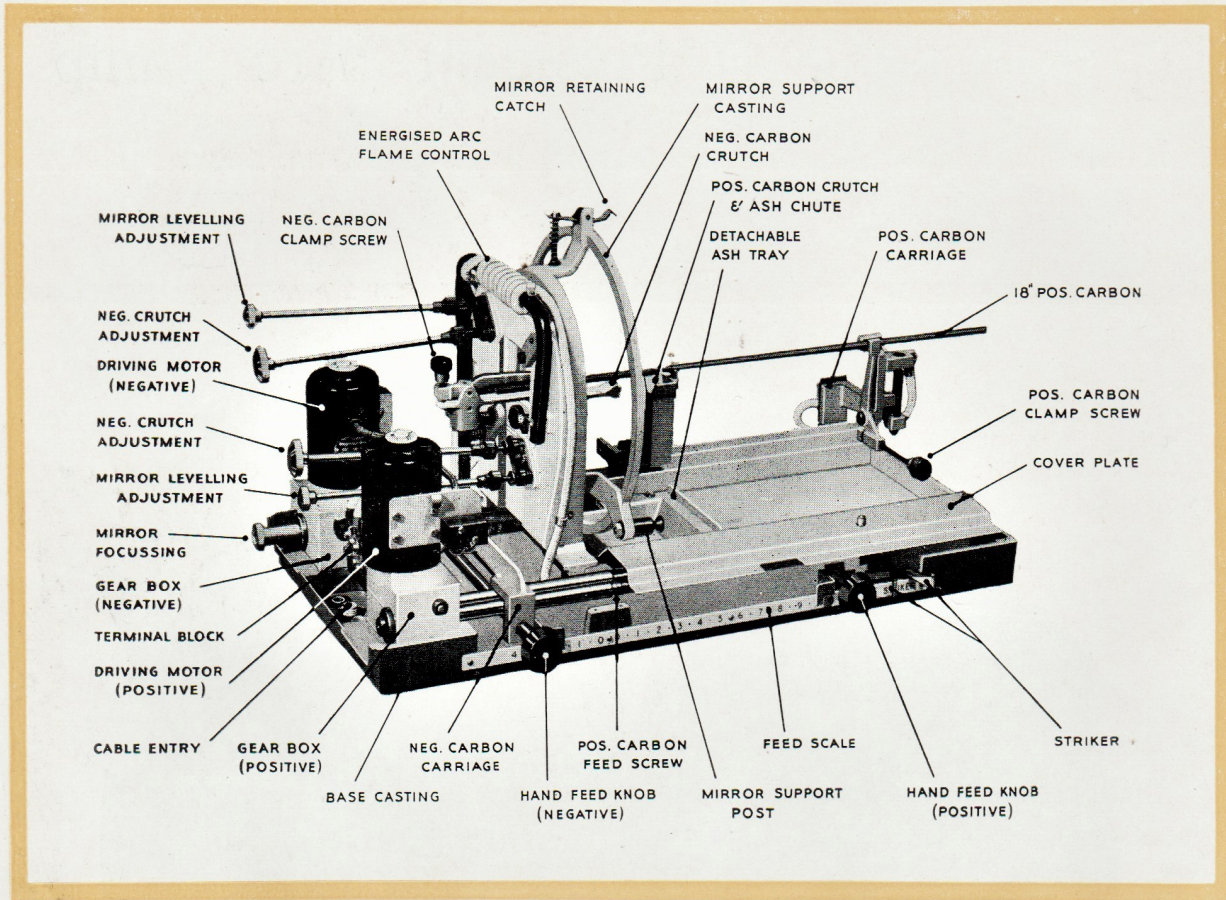
THE GAUMONT-KALEE 'President' Arc Lamp



The clean cut exterior of the 'President' gives an indication of a completely new departure in Arc Lamp design. One new and outstanding feature is the employment of twin motors to ensure accurate automatic feed whatever H.I. carbon combination is used between a range of 30/65 amps. The arc lamp accommodates up to 18" (460 mm) Positive carbon. Every detail has been appropriately designed and tested — even the lamp house chimney, which is tilted at 15° to allow for the easy connection of vents at all operating rakes. This care for detail combined with precision manufacture, simplicity of operation and adequate cleaning facilities, ensures many years of trouble-free service.

On each side the lamp house doors open to their full width and height for easy access to the interior. On the operating side is situated the hand carbon controls and scale showing length of carbon remaining, scissor type arc striking handles and periscope, projecting the arc image onto a conveniently placed screen. The linked dowsers and mirror screen can be operated from both sides of the lamp housing.

'PRESIDENT' arc lamp

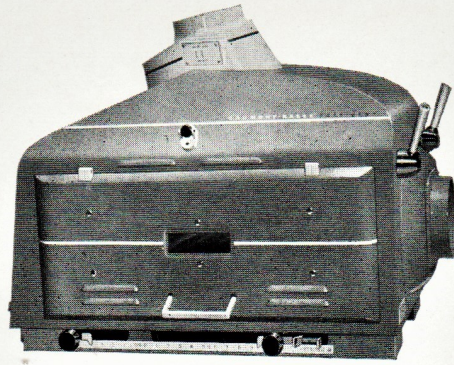


REAR CONTROL PANEL

The negative clutch and mirror tilt controls are conveniently situated and the different sizes of the knobs make them easily distinguishable. The mirror focussing knob is directly coupled with the mirror mounting and provides a backlash-free micrometer adjustment. The twin motor rheostats are fitted with scales to facilitate resetting if the carbon combination is changed.

SPECIFICATION

Gaumont-Kalee 'President' High Intensity arc lamp complete with 14" (355 mm) diameter elliptical metal back mirror, twin motor drive, potentiometer controls, external carbon scale, scissor type striker, flame control, interior inspection lamp, arc periscope, fitted in streamlined lamp house with control panel at rear, and finished in light stone colour, maroon and white, ready for use on DC supply.



CARBONS

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

'CEREX' POS.	'CERE' NEG.	AMPS.	ARC VOLTS
6 mm	5 mm	30-40	28-32
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

OPTIONAL EXTRA

The arc lamp can be fitted with an ammeter at extra cost if specified when ordering.

WEIGHTS AND DIMENSIONS

'President' Arc Lamp, Mirror and Foot Assemblies

Case Dimensions :	54" x 29" x 37" (138 cm x 74 cm x 94 cm)
Gross Weight :	368 lbs. (168 Kilos)
Nett Weight :	171 lbs. (78 Kilos)

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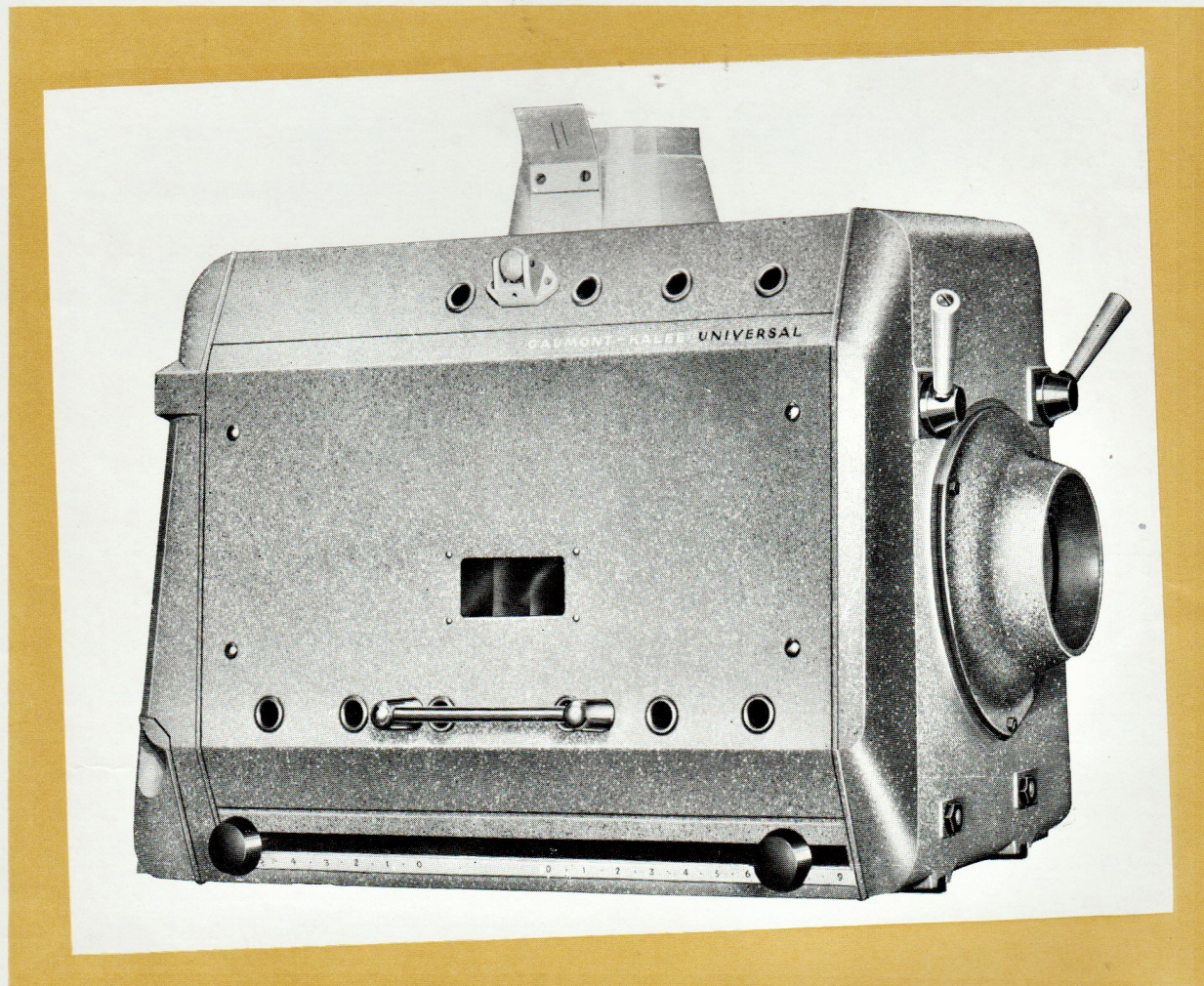
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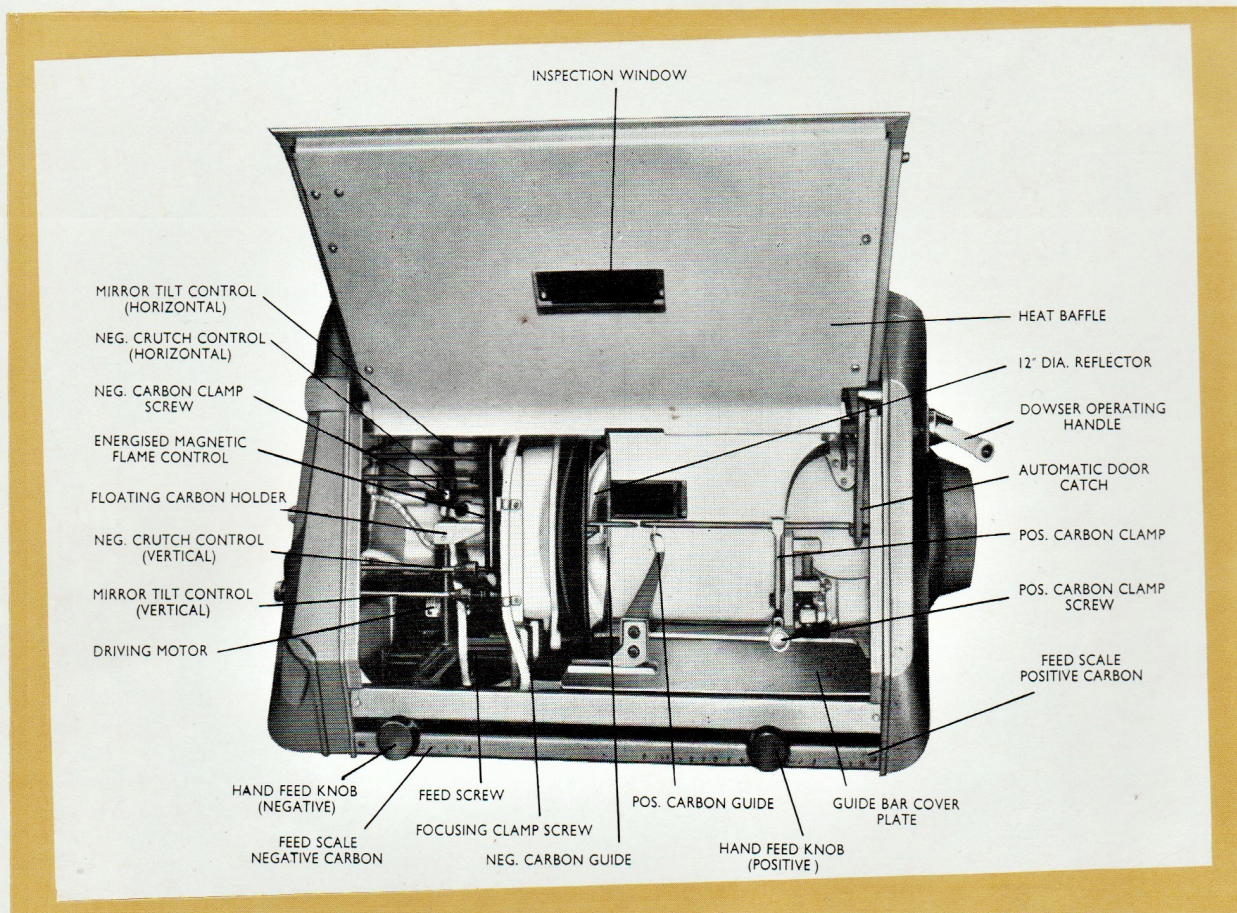
THE GAUMONT-KALEE 'Universal' Arc Lamp



This modern Gaumont-Kalee arc lamp, with automatic feed and 12 in. (305 mm.) elliptical metal-backed mirror is 'Universal' in the sense that it can be supplied for use with either High Intensity D.C./A.C., or Low Intensity Carbons. A feature of the lamp which is largely contributory to its simplicity and low cost is the incorporation of a direct driving gear train and constantly rotating feed screws for both positive and negative carbon carriages. This results in maintained uniformity of screen illumination, and the 12 in. (305 mm.) elliptical mirror of optimum collection angle assures high optical efficiency. A hand feed model is also available if desired. Economy in carbon consumption is made possible through the lamphouse being designed to accommodate a 14 in. (355 mm.) positive carbon with a 9 in. (230 mm.) feed.

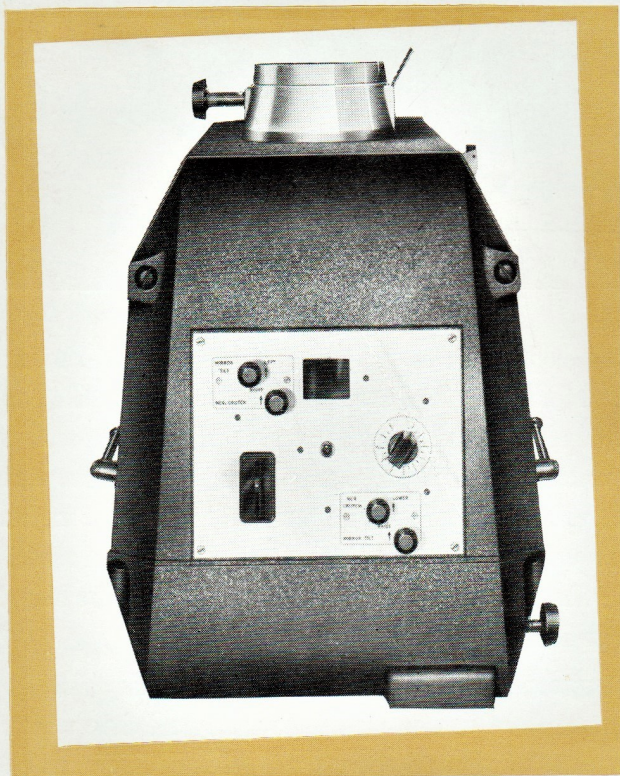
On each side, the large fully opening doors permit easy access to the interior. On the operating side are situated the hand carbon controls and scale showing length of carbon remaining, and periscope which projects the arc image on to a conveniently placed screen. The linked dowser and mirror screen can be operated from both sides.

'UNIVERSAL' arc lamp



THE OPERATING SIDE

Control knobs are provided on the operating side for fine adjustment of each carbon at any point of travel without interfering with the automatic drive. These are also available for rapid re-setting of the carbon carriages for a new trim. An external scale shows at a glance the available carbon length. An ammeter can be provided as an optional extra.



REAR CONTROL PANEL

Showing horizontal and vertical control knobs for mirror and negative carbon holder. Potentiometer motor control, motor fuse and rear inspection window.

SPECIFICATION

The Gaumont-Kalee 'Universal' Arc Lamp with motor drive, 12 in. (305 mm.) diameter elliptical metal-backed mirror, potentiometer, external carbon scale, flame control (with H.I. and L.I., D.C. models only), arc periscope, fitted in modern design lamphouse finished in light stone, maroon and white.

N.B. — It must be stated when ordering whether the arc lamp is for use with D.C. High Intensity or Low Intensity, or A.C., carbons so that the correct feed gears are fitted. It should be noted that when the arc is operated on A.C., the driving motor still requires a D.C. supply — obtained from a small rectifier unit incorporated in all Gaumont-Kalee inductors or alternatively from a separate 'Motoverter' unit.

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.		
6 mm.	5 mm.	35—45	28—35
7 mm.	6 mm.	45—55	31—37
8 mm.	7 mm.	60—70	38—43

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

A.C. SUPPLY

'ALTERNALUX'		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

OPTIONAL EXTRA

The arc lamp can be fitted with an ammeter at extra cost if specified when ordering.

WEIGHTS AND DIMENSIONS

'Universal' Arc lamp, Mirror and Foot Assemblies

CASE DIMENSIONS: 41 in. × 26 in. × 34 in. (104 cm. × 66 cm. × 86 cm.)

GROSS WEIGHT: 278 lb. (127 kgs.)

NETT WEIGHT: 132 lb. (60 kgs.)



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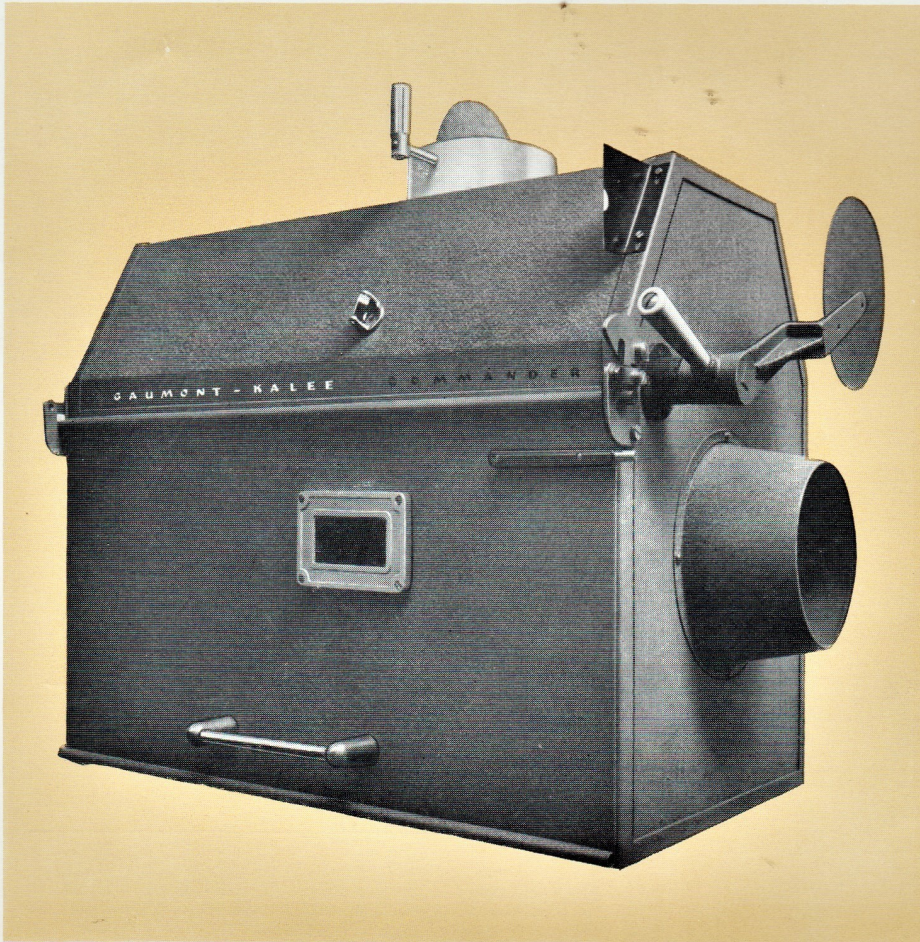
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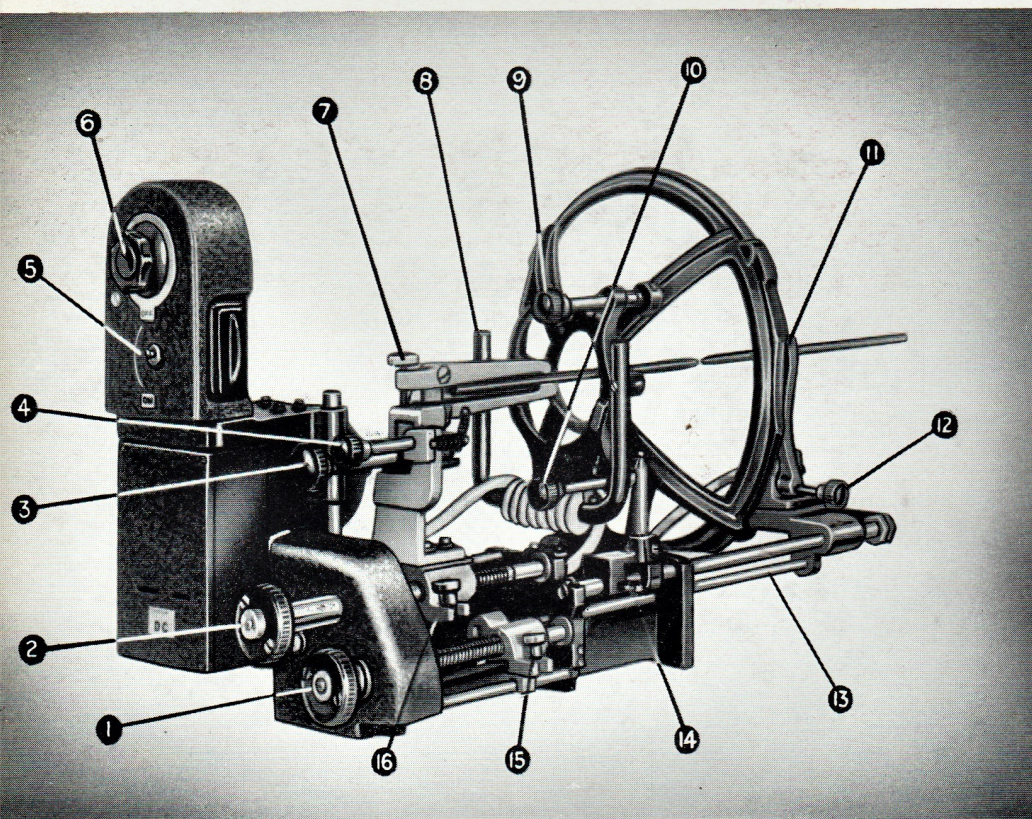
THE GAUMONT-KALEE 'Commander' Arc Lamp



A sturdy efficient arc lamp fitted with a 12 in. (305 mm.) elliptical metal-backed mirror, embodying refinements normally included in more expensive models. Can be supplied for use with either D.C. High Intensity or Low Intensity, or A.C., Carbons and there are hand or auto feed models. The motor and drive are situated behind the mirror in the cool parts of the lamphouse. An energised magnetic arc flame control is fitted ensuring arc stability and correct crater formation. Accommodates up to 14 in. (355 mm.) positive carbon.

A large full opening door fitted on the operating side of the lamphouse and a removable screwed panel on the non-operating side permits easy access to all parts of the arc lamp for cleaning and maintenance. An automatic catch ensures safe locking of the door when open. A linked mirror screen and dowsers is operated by a robust control handle situated on the front of the lamphouse assembly. Also fitted is a periscope for projecting the arc image on to a conveniently situated screen.

- The 'Commander' arc lamp is of the typical rugged construction associated with Gaumont-Kalee equipment. Built to withstand hard continuous operation, it presents the following outstanding features:
- Extra wide-angle light collection — obtained by the 12 in. (305 mm.) diameter short focus elliptical metal-backed mirror, designed to collect the maximum illumination from the specified carbon diameters.
- Gaumont-Kalee potentiometer-controlled automatic carbon feed of proved reliability. The potentiometer is 'shaded' to provide complete control from zero to maximum r.p.m. over the full range of motor speed.
- Positive carbon is definitely guided, ensuring maintenance of arc crater in correct focal position.
- All working mechanism is located behind the mirror in the cool part of the lamphouse and is instantly accessible for lubrication.
- Quick releases are fitted to facilitate re-carboning.
- Vertical and horizontal movements for negative carbon are provided.
- Periscope and image card screen with latitude limits provide a continuously visible image of arc crater.



- 1 Positive feed knob
- 2 Negative feed knob
- 3 Vertical movement to negative carbon
- 4 Horizontal movement to negative carbon
- 5 Motor switch
- 6 'Shaded' potentiometer carbon feed control
- 7 Negative carbon holder clamp
- 8 Energised arc flame deflector (D.C. lamps only)
- 9 Vertical movement to mirror
- 10 Horizontal movement to mirror
- 11 Positive carbon holder
- 12 Positive carbon clamp
- 13 Positive feed coupling bar
- 14 Mirror focusing clamp screw
- 15 Quick release positive carbon feed
- 16 Quick release negative carbon feed

SPECIFICATION

The Gaumont-Kalee 'Commander' arc lamp complete with 12 in. (305 mm.) elliptical metal-backed mirror, magnetic flame control and arc periscope, in steel lamphouse finished light stone. Supplied either for hand feed or with motor and 'shaded' potentiometer for automatic feed.

NOTE: When ordering, it must be stated whether the arc lamp is for use with D.C. High Intensity or Low Intensity, or A.C. carbons so that the correct feed gears are fitted. It should be noted that when the arc is being operated on A.C., the driving motor still requires a D.C. supply—obtained from a small rectifier unit incorporated in all Gaumont-Kalee inductors, or alternatively from a separate 'Motoverter' unit.

WEIGHTS AND DIMENSIONS

'Commander' arc lamp, Mirror and Foot assemblies.

Case Dimensions: 43 in. x 27 in. x 35 in. (109 cm. x 69 cm. x 89 cm.)

Gross Weight: 300 lb. (137 kgs.)

Nett Weight: 134 lb. (61 kgs.)

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



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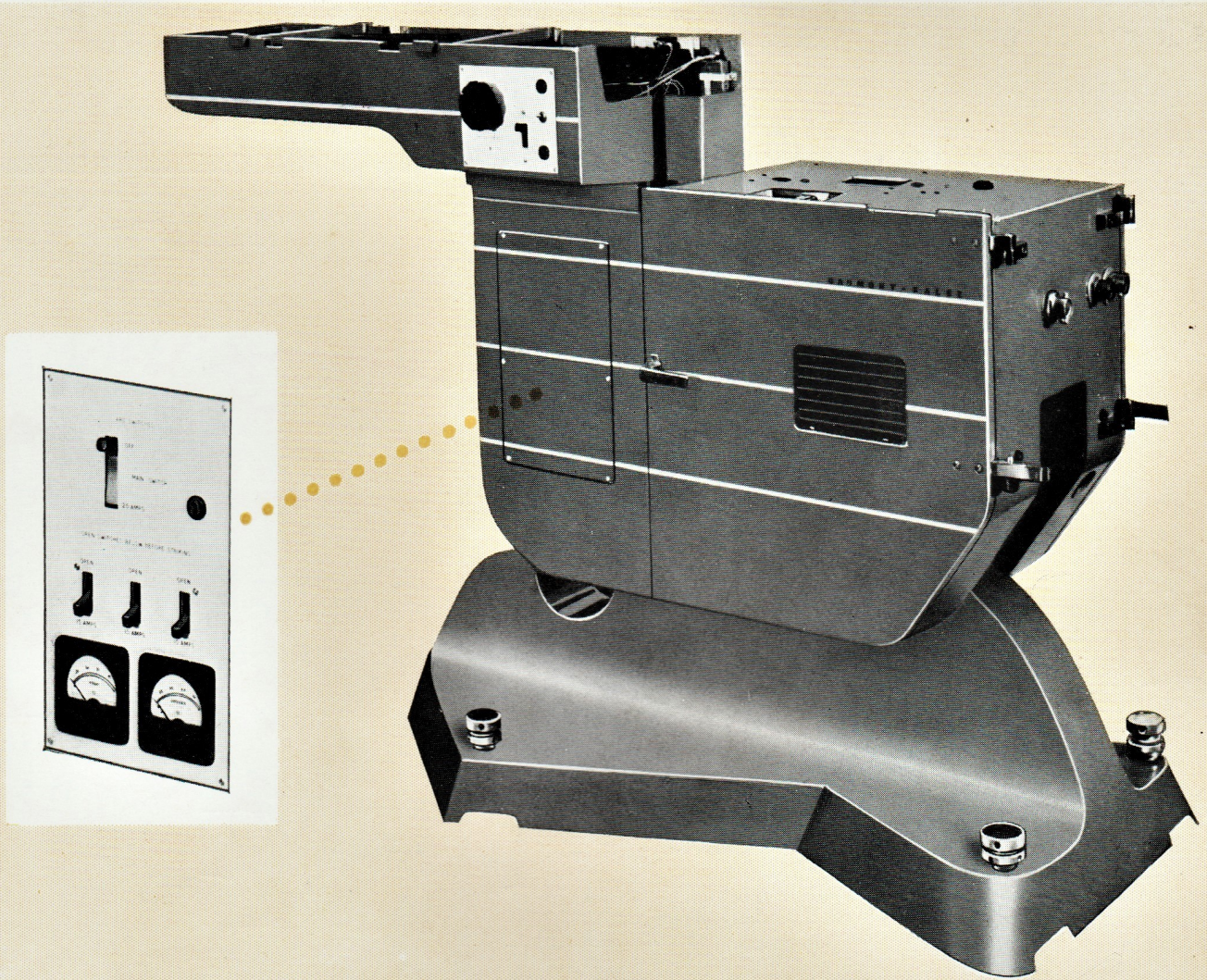
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2 Cross Street Tel: 23038

THE GAUMONT-KALEE '21' Projector Stand

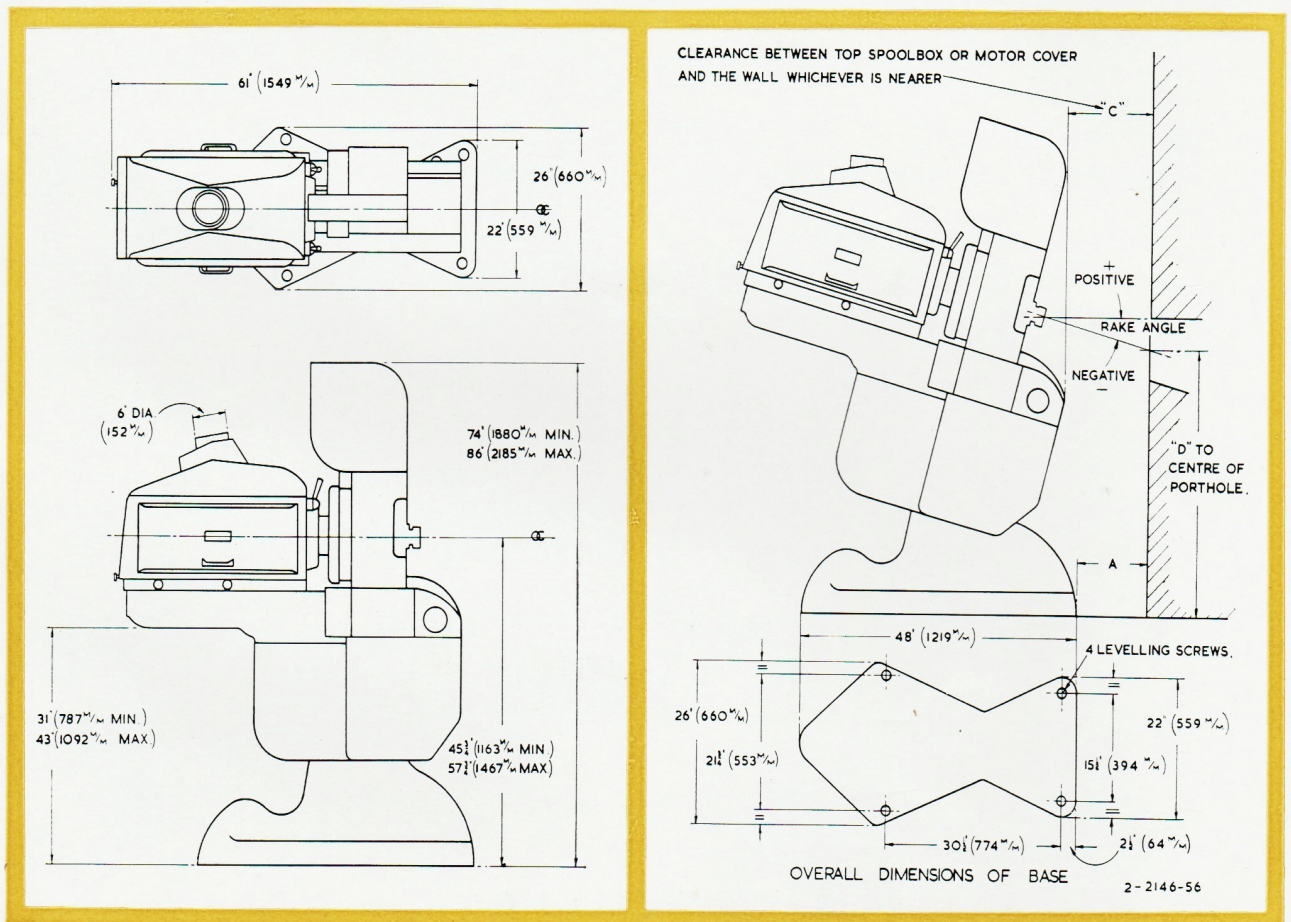
This Stand consists of a cast base which carries the soundhead and arc lamp platform. The lower spool box and all control switches and wiring are incorporated as an integral part of the stand.

The base is fitted with levelling screws, and bolted to it is a cast-iron central column (hidden in the picture by the spool box) on which is mounted a trunnion pivot bearing for the upper assembly. A jack screw passing through another pivoted trunnion block in the forward end of the base casting regulates the angle of tilt.



Alternative lengths of centre column and packing pieces are available, giving three different stand heights. At level rake the respective heights from floor level to optical axis are $51\frac{1}{4}$ inches (130 cm), $48\frac{1}{4}$ inches (123 cm), and $45\frac{1}{4}$ inches (115 cm). The maximum possible downward rake varies with the height of the centre column, being 30° with the high stand, 25° with the medium, and 20° with the low. The table on the opposite page gives the height from the floor to centre of projection aperture with each of the three different stands, and with every degree of rake from plus 5° to minus 30° , allowing 6 inches (15 cm) clearance between the wall and the upper or lower spool box, whichever comes closer to the wall. As already stated, the stand assembly incorporates the bottom spool box as an integral part. It also carries all the wiring associated with the soundhead, arc-lamp, and projector. This is installed in the factory and terminated at a distribution board at the front end of the stand where provision is made for cable entries. A door on the offside of the stand (corresponding to the spool box door on the operating side) gives access to this wiring and to the chain-driven take-up.

The wiring includes switches for the motor, exciter lamp and picture changeover. These are grouped on a panel beneath the arc lamp. A second panel carries arc control switches and meters (see small illustration), but this may be omitted if not required.



DIMENSIONAL & INSTALLATION DIAGRAM FOR GK 21 OUTFIT

PORTHOLE HEIGHT FOR HIGH STAND — MAX RAKE—30°— LEVEL OPTICAL CENTRE HEIGHT 51 3/4" (315 M/M)

RAKE	WHEN A=6" (152 M/M)				WHEN A=12" (305 M/M)				WHEN A=18" (457 M/M)				WHEN A=6" (152 M/M)				WHEN A=12" (305 M/M)				WHEN A=18" (457 M/M)				
	D		C		D		C		D		C		D		C		D		C		D		C		
+5°	55	1397	8 1/2	216	54 1/2	1384	14 1/2	368	53 1/2	1369	20 1/2	521	-13°	46	1169	7 1/2	197	44 1/2	1134	13 1/2	349	43 1/2	1096	19 1/2	502
+4°	54 1/2	1384	8 1/2	219	54	1372	14 1/2	372	53 1/2	1359	20 1/2	524	-14°	45 1/2	1159	7 1/2	194	44	1118	13 1/2	347	42 1/2	1080	19 1/2	499
+3°	53 1/2	1365	8 1/2	222	53 1/2	1359	14 1/2	375	53 1/2	1350	20 1/2	527	-15°	45 1/2	1146	7 1/2	190	43 1/2	1105	13 1/2	344	41 1/2	1064	19 1/2	495
+2°	53	1347	8 1/2	222	52 1/2	1343	14 1/2	375	52 1/2	1337	20 1/2	527	-16°	44 1/2	1137	7	178	43	1092	13	330	41 1/2	1048	19	483
+1°	52 1/2	1334	8 1/2	225	52 1/2	1327	14 1/2	378	52 1/2	1327	20 1/2	530	-17°	44 1/2	1124	6 1/2	165	42 1/2	1080	12 1/2	317	40 1/2	1032	18 1/2	470
0°	51 1/2	1315	9	229	51 1/2	1315	15	381	51 1/2	1315	21	533	-18°	43 1/2	1115	5 1/2	149	41 1/2	1064	11 1/2	302	39 1/2	1013	17 1/2	454
-1°	51 1/2	1302	8 1/2	225	51 1/2	1302	14 1/2	378	51 1/2	1298	20 1/2	530	-19°	43 1/2	1102	5 1/2	133	41 1/2	1048	11 1/2	286	39 1/2	997	17 1/2	438
-2°	50 1/2	1292	8 1/2	222	50 1/2	1286	14 1/2	375	50 1/2	1283	20 1/2	527	-20°	43	1092	4 1/2	121	40 1/2	1035	10 1/2	273	38 1/2	978	16 1/2	425
-3°	50 1/2	1283	8 1/2	222	50 1/2	1273	14 1/2	375	49 1/2	1264	20 1/2	527	-21°	40 1/2	1023	10 1/2	260	38	965	10	260	38	965	16 1/2	413
-4°	50	1270	8 1/2	219	49 1/2	1257	14 1/2	372	49 1/2	1248	20 1/2	524	-22°	39 1/2	1007	9 1/2	248	37 1/2	946	9 1/2	248	37 1/2	946	15 1/2	400
-5°	49 1/2	1257	8 1/2	216	49	1245	14 1/2	368	48 1/2	1229	20 1/2	521	-23°	39 1/2	994	9 1/2	232	36 1/2	927	9 1/2	232	36 1/2	927	15 1/2	384
-6°	49 1/2	1248	8 1/2	213	48 1/2	1232	14 1/2	365	47 1/2	1216	20 1/2	518	-24°	38 1/2	968	8 1/2	219	35 1/2	911	14 1/2	219	35 1/2	911	14 1/2	372
-7°	48 1/2	1235	8 1/2	210	47 1/2	1216	14 1/2	362	47 1/2	1197	20 1/2	514	-25°	38	965	8	203	35 1/2	895	14	203	35 1/2	895	14	356
-8°	48 1/2	1226	8 1/2	210	47 1/2	1204	14 1/2	362	46 1/2	1181	20 1/2	514	-26°	37 1/2	953	7 1/2	187	34 1/2	876	13 1/2	187	34 1/2	876	13 1/2	340
-9°	47 1/2	1213	8 1/2	206	46 1/2	1188	14 1/2	359	45 1/2	1165	20 1/2	511	-27°	36 1/2	936	6 1/2	172	33 1/2	860	12 1/2	172	33 1/2	860	12 1/2	324
-10°	47 1/2	1204	8	203	46 1/2	1175	14	356	45 1/2	1150	20	508	-28°	36 1/2	924	6	152	33 1/2	841	12	152	33 1/2	841	12	305
-11°	46 1/2	1191	7 1/2	200	45 1/2	1162	13 1/2	353	44 1/2	1131	19 1/2	505	-29°	35 1/2	908	5 1/2	136	32 1/2	825	11 1/2	136	32 1/2	825	11 1/2	289
-12°	46 1/2	1181	7 1/2	197	45 1/2	1146	13 1/2	349	43 1/2	1115	19 1/2	502	-30°	35 1/2	895	4 1/2	118	31 1/2	810	10 1/2	118	31 1/2	810	10 1/2	270

NOTE: —
TO ALLOW SPOOLBOX
DOOR TO OPEN
CLEARANCE 'C'
MUST NOT BE LESS
THAN 4 1/2" (113 M/M)

ALTERNATIVE HEIGHTS

6" (152 M/M) HIGHER	(HIGH STAND WITH 6" (152 M/M) PLINTH)	ADD 6" (152 M/M) TO 'D' ABOVE	MAXIMUM RAKE	30°
3" (76 M/M)	(MEDIUM " " 6" (152 M/M) ")	" 3" (76 M/M) " " " "	"	25°
3" (76 M/M) LOWER	(MEDIUM STAND)	SUBTRACT 3" (76 M/M) FROM 'D' ABOVE	"	25°
6" (152 M/M)	(LOW ")	" 6" (152 M/M) " " " "	"	20°

WEIGHTS AND DIMENSIONS

**TWO complete Gaumont-Kalee '21' Projector Stands
are normally packed in three cases:**

- Two cases each containing: 1 Stand Base, 1 Lamp Support, 2 Guards
- Case Dimensions: 56" x 34" x 24" (142 cm x 87 cm x 61 cm)
- Gross Weight: 6 cwt. 0 qrs. 10 lb. (310 kilos.)
- Nett Weight: 3 cwt. 3 qrs. 10 lb. (195 kilos.)
- and one case containing: 2 Lower Spool Box Casing assemblies
- 2 Rear Half Sections
- Case Dimensions: 50" x 40" x 25" (127 cm x 102 cm x 64 cm)
- Gross Weight: 4 cwt. 2 qrs. 20 lb. (238 kilos.)
- Nett Weight: 3 cwt. 0 qrs. 16 lb. (160 kilos.)

A GAUMONT-KALEE PRODUCT



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THE GAUMONT-KALEE Box Type Projector Stand

The stand incorporates a heavy cast-iron pedestal base fitted with levelling screws. A packing piece is available for inserting below a cap, which is fitted with a pivot bar at the front end carrying the main support casting and, at the rear end, a pivoted trunnion block through which the elevating screw passes. The main support casting carries the lamp beam, soundhead and driving motor. The motor, driving belts and projector drive gearing are enclosed by quickly detachable guards.

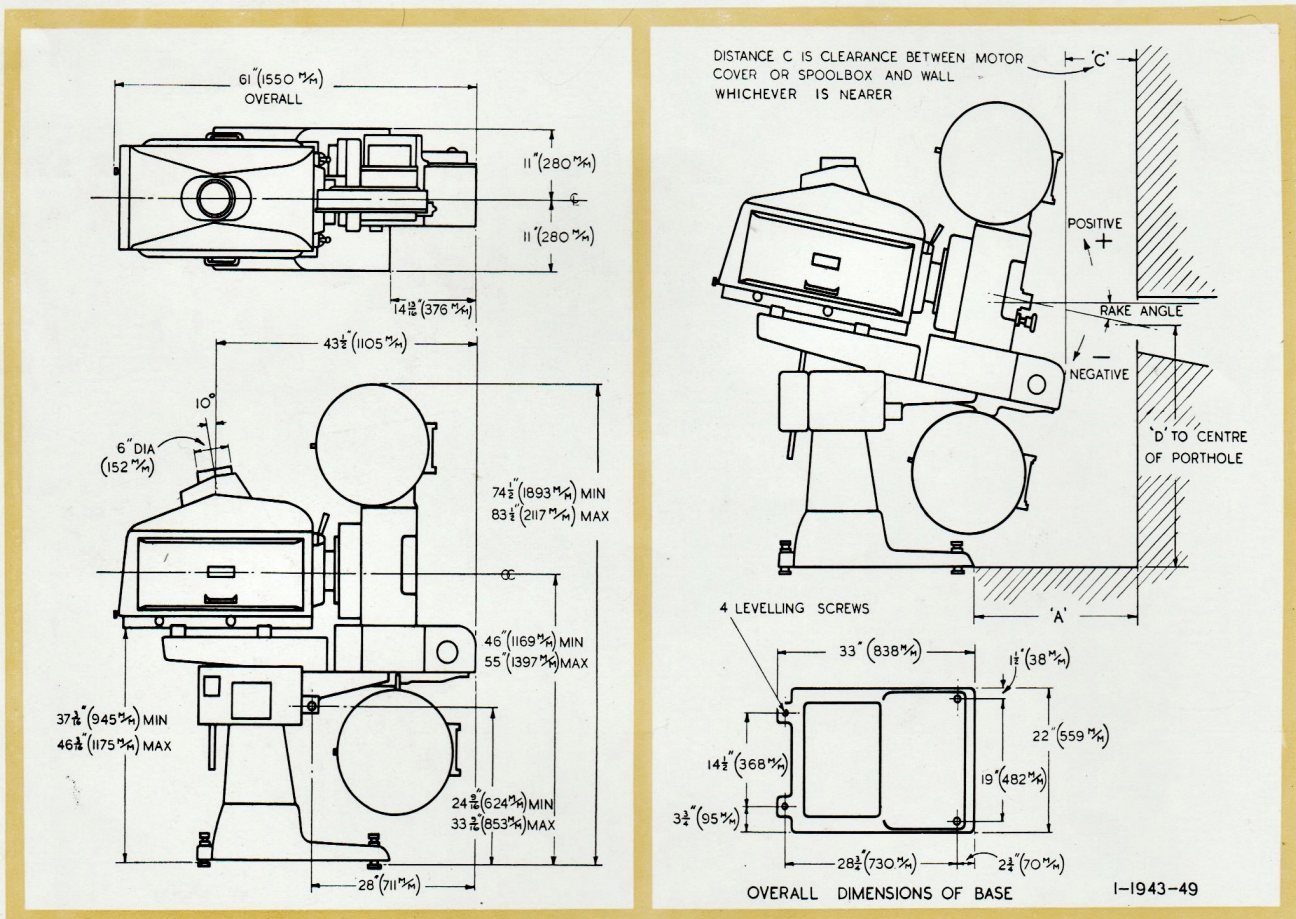


Dependent upon whether the packing piece is inserted, the level optical centre height of the equipment may be 46 inches (1168 mm.), 49 inches (1245 mm.), 52 inches (1321 mm.), and 55 inches (1397 mm.). The maximum tilt depends of course upon the height of the centre column and this, together with the required porthole height when the equipment is operating at a given rake and in a fixed position relative to the front wall of the operating box, is given in the table on the opposite page.

NOTE When referring to this table particular note should be taken of the 46 inches (1168 mm.) and 49 inches (1245 mm.) level optical centre height.

The stand is completely wired in the factory, and all such wiring terminates at a distribution board inside and at the front end of the box-casting on the operating side of the equipment. It includes the switch and starting resistance for the driving motor, exciter lamp, changeover switch and main arc switch. Variations in this arrangement are available according to exact requirements. Auxiliary arc switches, together with voltmeters and ammeters may be fitted if required.

An alternative arrangement for the stand incorporates a universal nose mounting suitable for use with most types of soundheads not of our manufacture and lamp-rails for the mounting of other makes of arc lamps. When these are supplied wiring arrangements are made accordingly on installation.





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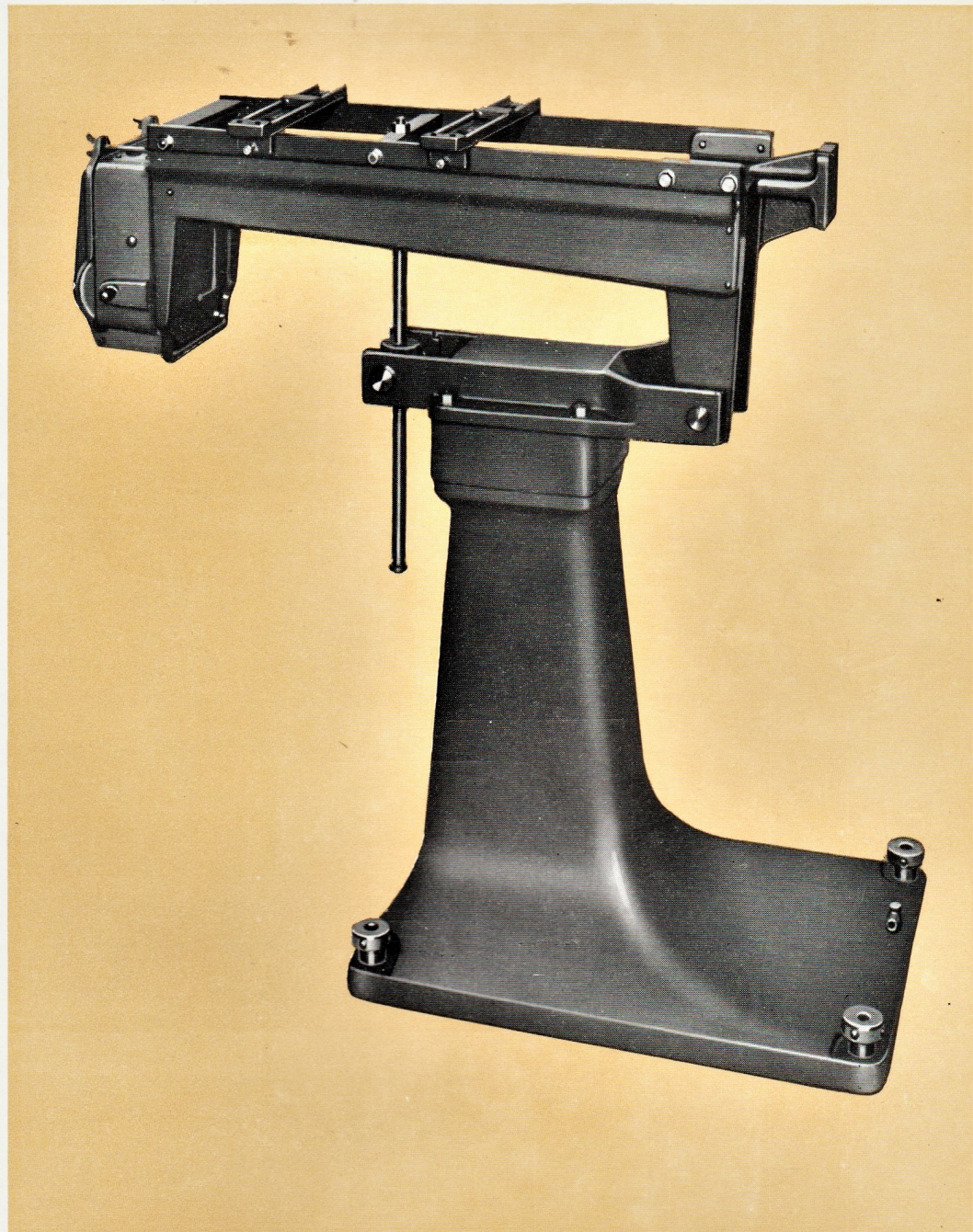
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THE GAUMONT-KALEE

Pedestal Type Projector Stand

The Stand incorporates a heavy cast-iron pedestal base fitted with levelling screws. Packing pieces are available for inserting below a cap which is fitted with a pivot bar at the front end carrying the nose bracket and rails and at the rear end a pivoted trunnion block through which the elevating screw passes. The driving motor is carried on an auxiliary casting in which is also included the main switch-box. This is situated in front and secured underneath the soundhead. The switch-box wired as a complete unit houses the motor switch, starting resistance and motor capacitor.

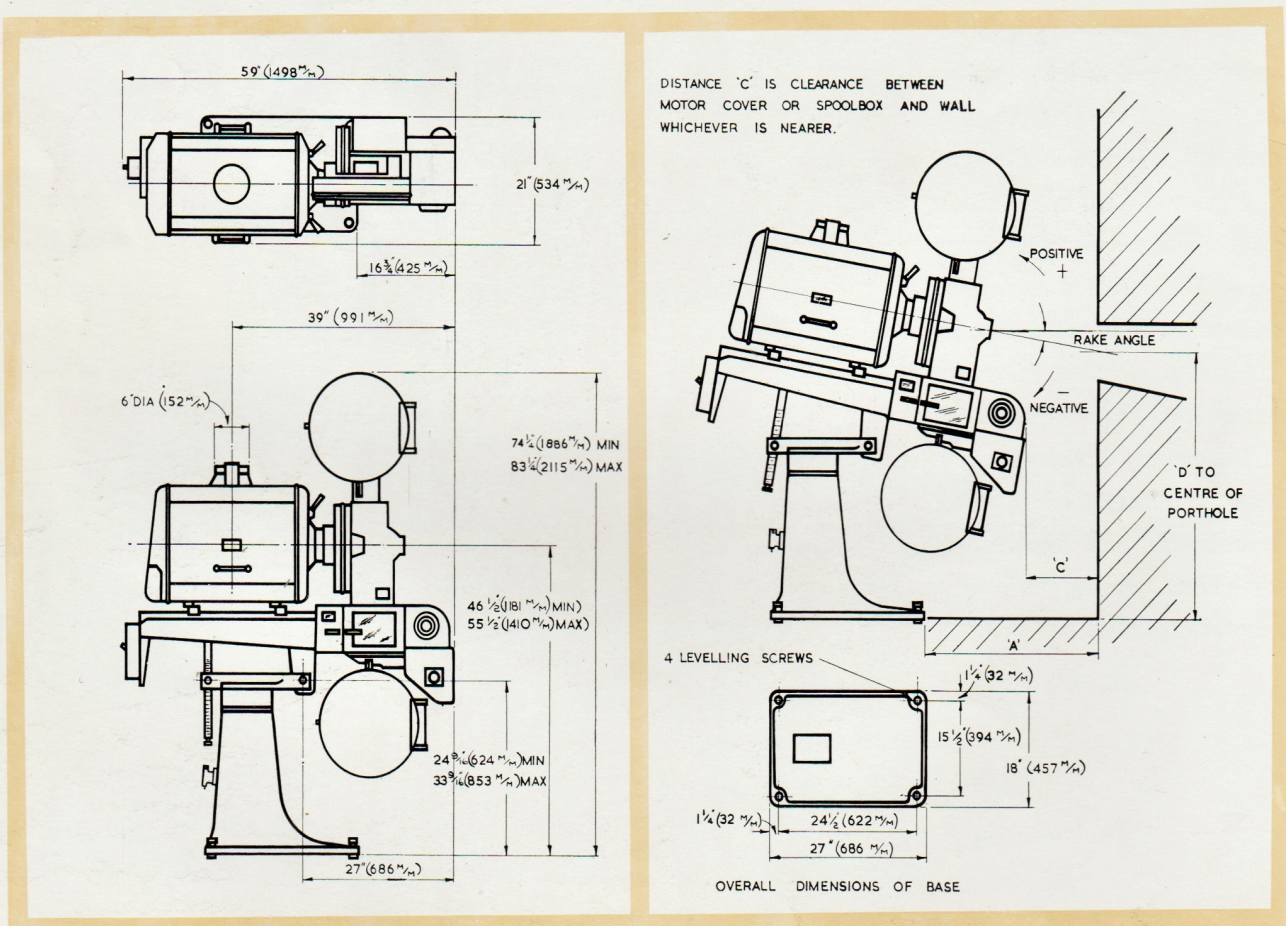


Provision is also made for connecting the lacing lamp circuit on the projector mechanism when required. The switch-box is not fitted for change-over control : separate wall-mounting boxes are supplied when required.

A packing piece can be inserted between the base and the pivot and trunnion beam to give level optical centre heights of the equipment of $46\frac{1}{2}$ inches (1181 mm.), $49\frac{1}{2}$ inches (1257 mm.), $52\frac{1}{2}$ inches (1333 mm.), or $55\frac{1}{2}$ inches (1409 mm.). The maximum tilt is, of course, dependent upon the height of the centre column and this, together with the required porthole height when the equipment is operating at a given rake and at a fixed position relative to the front wall of the operating box, is given by the table on the opposite page.

The equipment is normally supplied with a standard arc switch and bracket mounted at the end of the rails, but this can be replaced to house additional switches if required.

NOTE The Gaumont-Kalee Pedestal Type Projector Stand is suitable for all well-known makes of sound systems.



APPROXIMATE DIMENSIONAL & INSTALLATION DIAGRAM FOR GAUMONT-KALEE EQUIPMENT WITH PEDESTAL TYPE STAND

PORTHOLE HEIGHTS OF STAND FOR 52 1/2" (1333 M/M) LEVEL OPTICAL CENTRE

RAKE	WHEN A=26"(660 M/M)				WHEN A=32"(819 M/M)				WHEN A=38"(965 M/M)				RAKE	WHEN A=26"(660 M/M)				WHEN A=32"(819 M/M)				WHEN A=38"(965 M/M)			
	D		C		D		C		D		C			D		C		D		C		D		C	
	INS	M/M	INS	M/M	INS	M/M	INS	M/M	INS	M/M	INS	M/M		INS	M/M	INS	M/M	INS	M/M	INS	M/M	INS	M/M	INS	M/M
+5°	55 1/2	1403	9 1/2	251	55 1/2	1416	15 1/2	403	56 1/2	1428	21 1/2	556	-13°					43 1/2	1114	12 1/2	321	42 1/2	1079	18 1/2	474
+4°	54 1/2	1390	9 1/2	248	55	1397	15 1/2	400	55 1/2	1409	21 1/2	553	-14°					43 1/2	1095	12	305	41 1/2	1057	18	458
+3°	54 1/2	1374	9 1/2	244	54 1/2	1381	15 1/2	396	54 1/2	1387	21 1/2	549	-15°					42 1/2	1079	11 1/2	286	40 1/2	1038	17 1/2	439
+2°	53 1/2	1358	9 1/2	241	53 1/2	1365	15 1/2	393	53 1/2	1368	21 1/2	546	-16°					41 1/2	1060	10 1/2	270	40	1016	16 1/2	423
+1°	53	1346	9 1/2	238	53	1346	15 1/2	390	53 1/2	1349	21 1/2	543	-17°					41	1041	10	254	39 1/2	997	16	407
0°	52 1/2	1333	9 1/2	235	52 1/2	1333	15 1/2	387	52 1/2	1333	21 1/2	540	-18°					40 1/2	1022	9 1/2	238	38 1/2	974	15 1/2	391
-1°	52	1320	9 1/2	232	52	1320	15 1/2	384	51 1/2	1317	21 1/2	537	-19°					39 1/2	1006	8 1/2	222	37 1/2	955	14 1/2	375
-2°	51 1/2	1308	9	229	51 1/2	1301	15	381	51 1/2	1298	21	534	-20°					38 1/2	987	8 1/2	206	36 1/2	933	14 1/2	359
-3°	50 1/2	1292	8 1/2	225	50 1/2	1285	14 1/2	378	50 1/2	1279	20 1/2	530	-21°					38 1/2	968	7 1/2	190	35 1/2	904	13 1/2	343
-4°	50 1/2	1276	8 1/2	225	50	1270	14 1/2	378	49 1/2	1257	20 1/2	530	-22°									35	889	12 1/2	327
-5°	49 1/2	1263	8 1/2	219	49 1/2	1251	14 1/2	371	48 1/2	1238	20 1/2	524	-23°									34 1/2	866	12 1/2	311
-6°	49 1/2	1247	8 1/2	216	48 1/2	1235	14 1/2	368	48	1219	20 1/2	521	-24°									33 1/2	847	11 1/2	298
-7°	48 1/2	1235	8 1/2	213	47 1/2	1216	14 1/2	365	47 1/2	1197	20 1/2	518	-25°									32 1/2	822	11 1/2	283
-8°	48 1/2	1222	8 1/2	213	47 1/2	1200	14 1/2	365	46 1/2	1181	20 1/2	518	-26°									31 1/2	800	10 1/2	270
-9°	47 1/2	1206	8 1/2	210	46 1/2	1184	14 1/2	362	45 1/2	1158	20 1/2	515	-27°									30 1/2	777	10 1/2	257
-10°	46 1/2	1190	8 1/2	206	45 1/2	1165	14 1/2	358	44 1/2	1136	20 1/2	511	-28°									29 1/2	755	9 1/2	241
-11°	46 1/2	1174	8	203	45 1/2	1149	14	355	44 1/2	1120	20	508	-29°									28 1/2	733	9	229
-12°	45 1/2	1162	7 1/2	184	44 1/2	1130	13 1/2	336	43 1/2	1098	19 1/2	489	-30°									28 1/2	714	8 1/2	216

NOTE:—
TO ALLOW SPOOLBOX DOOR TO
OPEN CLEARANCE 'C' SHOULD
NOT BE LESS THAN 7"(178 M/M)

ALTERNATIVE HEIGHTS

3"(76 M/M) HIGHER—ADD 3"(76 M/M) TO 'D' ABOVE
3"(76 M/M) LOWER—SUBTRACT 3"(76 M/M) FROM 'D' ABOVE
6"(152 M/M) " " 6"(152 M/M) " " "

WEIGHTS AND DIMENSIONS

ONE Gaumont-Kalee Pedestal Type Projector Stand complete with Arc Switch and Guards

Case Dimensions: 33" x 24" x 36" (84 cm x 61 cm x 91 cm)

Gross Weight: 4 cwt. 0 qrs. 12 lb. (210 kilos.)

Nett Weight: 2 cwt. 3 qrs. 8 lb. (144 kilos.)

TWO Gaumont-Kalee Pedestal Type Projector Stands less Arc Switch and Guards

Case Dimensions: 47" x 43" x 28" (120 cm x 109 cm x 71 cm)

Gross Weight: 7 cwt. 0 qrs. 5 lb. (358 kilos.)

Nett Weight: 4 cwt. 3 qrs. 15 lb. (248 kilos.)

A GAUMONT-KALEE PRODUCT



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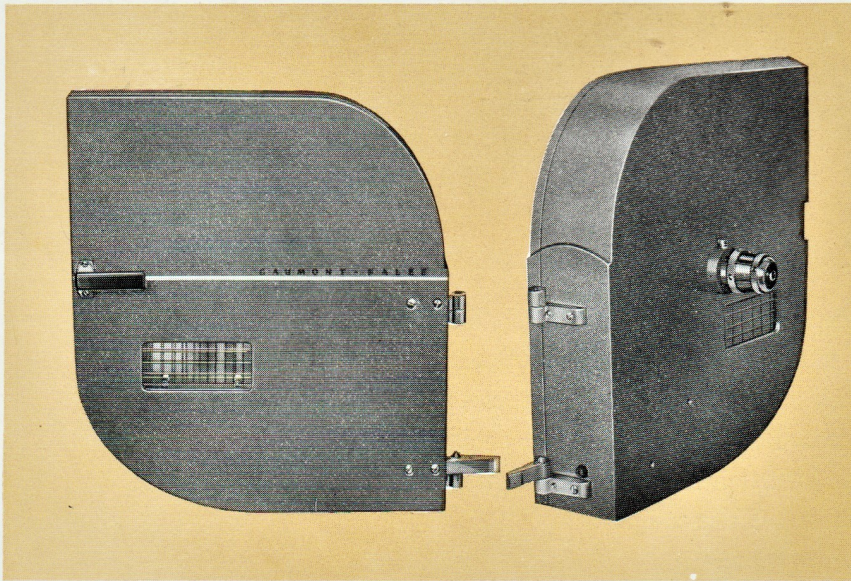
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GAUMONT-KALEE Spool Box Assemblies

for models '21' '20' and '19' Projectors



Angular type TOP BOX

The design of this unique top spool box is complementary to the streamlined Gaumont-Kalee '21' Projection and Sound Equipment. It is a metal casting ribbed internally for additional strength and fitted with a spool spindle with spring tensioned clutch. The box is finished in the standard Gaumont-Kalee colour scheme of mid-stone with white trim; the hinges and door handle are heavily plated.

Nett weight 28 lb. (13 kgs.)

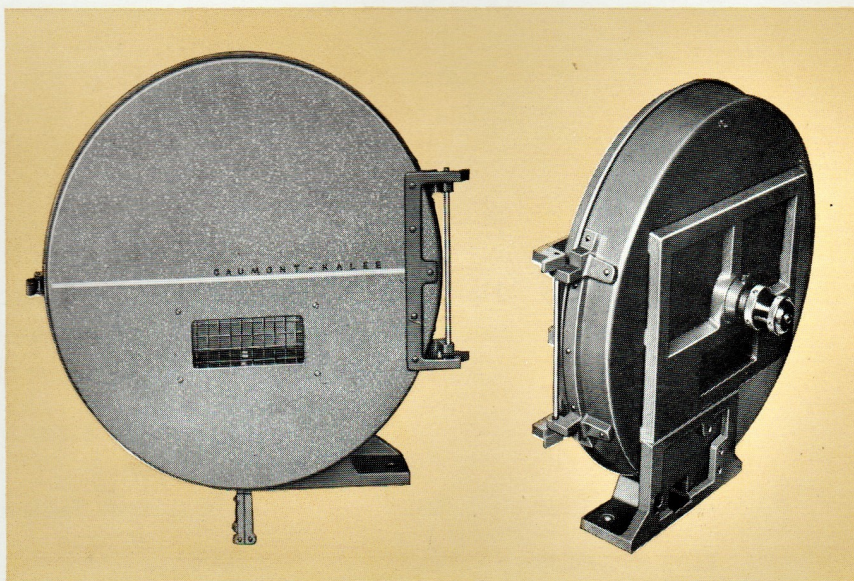
Normally packed with arc lamps

The bottom spool box for the complete Gaumont-Kalee '21' projection and sound equipment is an integral part of the stand.

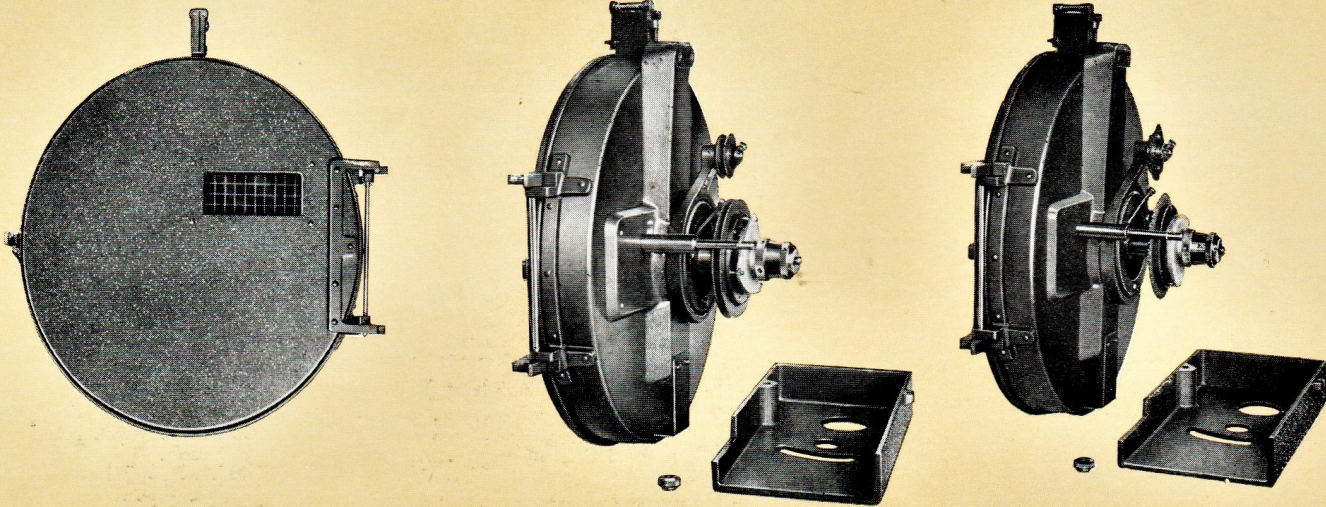
Circular type TOP BOX

Constructed of heavy gauge sheet steel. Complete with film trap and spool spindle fitted with spring tensioned clutch. Heavy cast hinges ensure a positive fitting of the lid which is secured by a spring catch. The box is mounted on a substantial cast arm for complete rigidity and absolute alignment. Glass inspection windows are fitted on both sides of the box which is finished in mid-stone.

17½ in. (44.5 cm.) diameter for 2000 ft. (600 metres) spools.



GAUMONT-KALEE TYPE 19/20 BOTTOM SPOOL BOX



Constructed of heavy gauge sheet steel and mounted on a substantial cast fixing-arm. When required for installation with types 83, 845 and 890 Gaumont-Kalee optical soundheads, a chain driven 'take-up' complete with a jockey sprocket is provided for the spool spindle. For types 543, 847 and 876 soundheads the 'take-up' is belt driven and pulleys are fitted. Both types of drive are completely enclosed by a readily detachable cast guard. The box is fitted with an accurately machined film trap and a glass inspection window. Finished in mid-stone to match complete Gaumont-Kalee equipment.

17½" (44.5 cm.) diameter for 2000 ft. (600 metres) spools.

NOTE: SPOOL SPINDLES can be $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", or 9 mm. diameter. Size required must be stated when ordering. All parts are replaceable. Gaumont-Kalee bottom spool boxes can be supplied for use with other makes of sound systems.

WEIGHTS AND DIMENSIONS

G.K.19/20/21 circular top spool box, nett 20 lb. (9 kgs.) G.K.19/20 bottom spool box, nett 34 lb. (15 kgs.)

Packed 2 top and 2 bottom per case.

Nett 3 qrs. 24 lb. (49 kgs.) Gross 1 cwt. 3 qrs. 8 lb. (93 kgs.)

Case Dimensions 43" × 25" × 25" (109 cm. × 64 cm. × 64 cm.)



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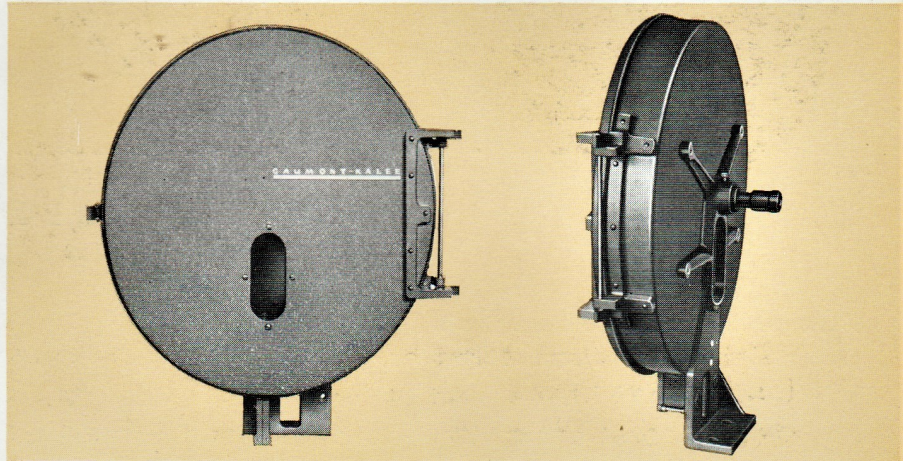
GAUMONT-KALEE Type '18' Spool Box Assemblies

for Gaumont-Kalee Open Access Projector Mechanisms

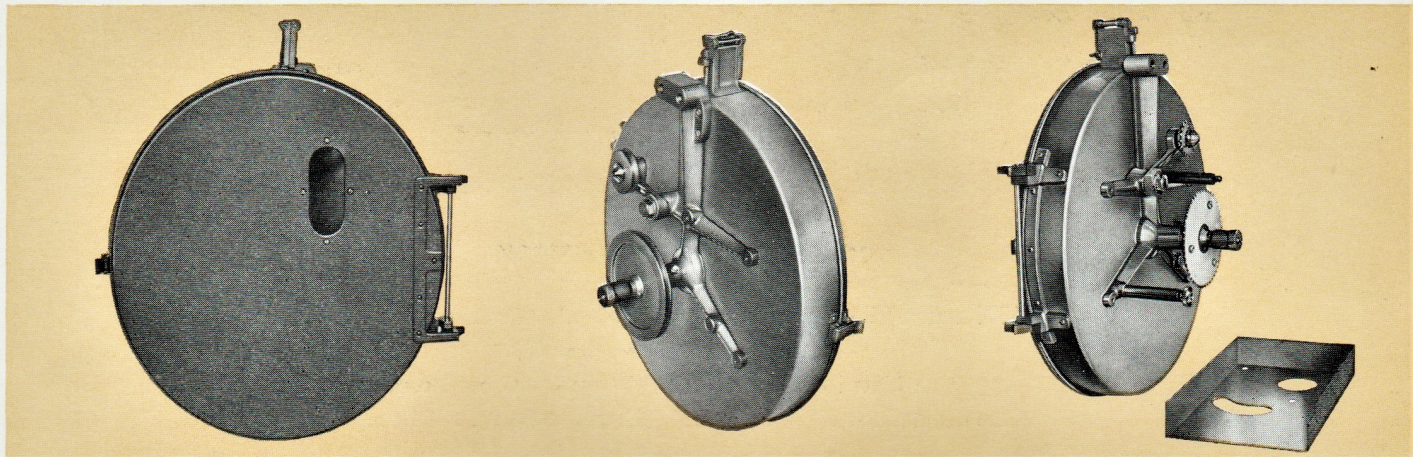
TOP SPOOL BOX

Constructed of heavy gauge sheet steel and complete with film trap and spool spindle fitted with spring tensioned clutch. Heavy cast hinges ensure a positive fitting of the lid which is secured by a spring catch. The box is mounted on a substantial cast arm for complete rigidity, and absolute alignment. An inspection window is fitted in the box which is finished in the standard Gaumont-Kalee colour mid-stone.

17½" (44.5 cm.) diameter for 2000 ft. (600 metres) spools.



BOTTOM SPOOL BOX



The bottom spool box is of sheet metal construction finished in mid-stone and is mounted on a substantial cast arm. When required for installation with types 543, 847 and 876 Gaumont-Kalee optical soundheads a belt driven 'take-up' complete with jockey pulley is provided for the

spool spindle. For types 83, 845 and 890 soundheads the 'take-up' is chain driven and sprockets are fitted. A readily detachable guard is supplied with the chain driven model only.

17½" (44.5 cm.) diameter for 2000 ft. (600 metres) spools.

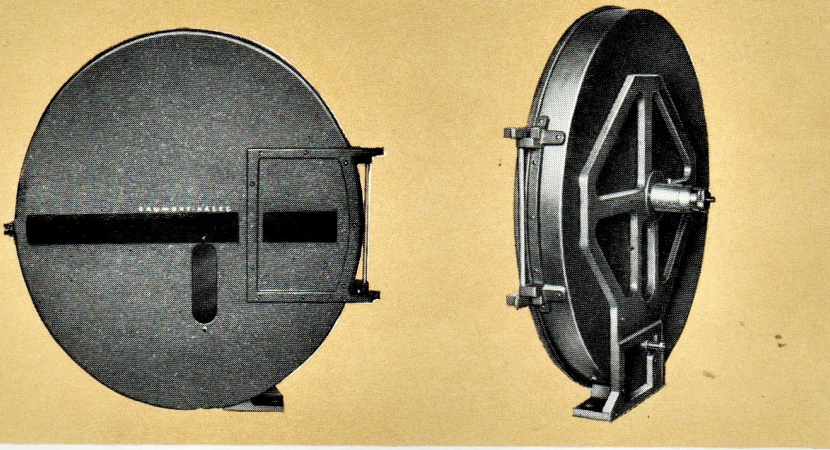
NOTE: SPOOL SPINDLES can be $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " or 9 mm. diameter. Size required must be stated when ordering. All parts are replaceable.

WEIGHTS AND DIMENSIONS

GK. 18 Top spool box, nett 24 lb. (11 kgs.) Bottom spool box, nett 24 lb. (11 kgs.)
 If packed separately from arc lamps, 2 top and 2 bottom per case
 Nett 3 qrs. 12 lb. (46 kgs.) Gross 1 cwt. 2 qrs. 24 lb. (87 kgs.)
 Case Dimensions 43" × 25" × 25" (109 cm. × 64 cm. × 64 cm.)

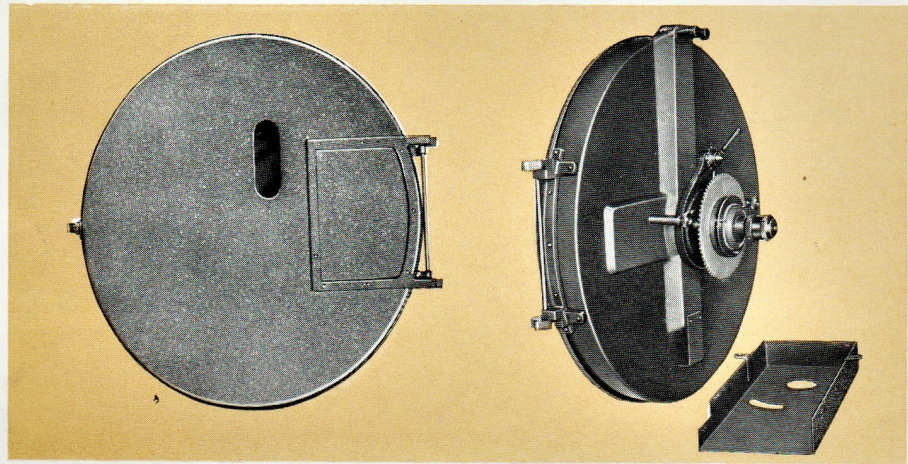
GAUMONT-KALEE 5000 ft. (1500 metres) Spool Box Assemblies

TOP SPOOL BOX



Constructed of heavy gauge sheet steel, and complete with spool spindle fitted with spring tensioned clutch. Heavy cast hinges ensure a positive fitting of the lid which is secured by a spring catch. The box is mounted on a substantial cast arm for complete rigidity and accurate alignment. An inspection window is fitted in the box which is finished in the standard Gaumont-Kalee colour mid-stone.

BOTTOM SPOOL BOX



The construction of the bottom spool box is similar to that described above but it is fitted with a special fixing bracket, and a chain driven 'take-up' complete with jockey sprocket is provided for the spool spindle. The drive is enclosed by a readily detachable guard. The spool box is for use with Gaumont-Kalee types 83, 845 and 890 optical soundheads.

Note: 5000 ft. spool boxes are normally supplied as standard with $\frac{1}{2}$ " (13 mm.) diameter spool spindles

WEIGHTS AND DIMENSIONS

5000 ft. (1500 metres) Top Spool Box, 43 lb. (20 kgs.) Bottom Spool Box, 54 lb. (25 kgs.)

Packed 2 top and 2 bottom per case.

Nett 1 cwt. 2 qrs. 26 lb. (88 kgs.) Gross 3 cwt. 0 qrs. 0 lb. (153 kgs.)

Case Dimensions 48" x 33" x 33" (122 cm. x 84 cm. x 84 cm.)



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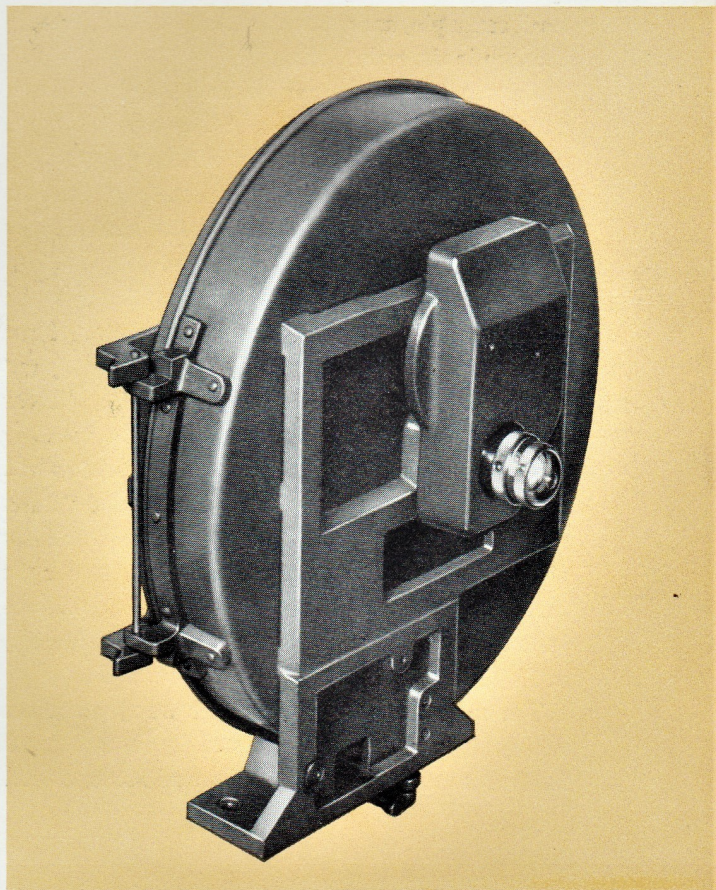
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THE GAUMONT-KALEE

Reel-end Alarm

for use with Gaumont-Kalee '21' '20' & '19' Projectors

- **AUDIBLE WARNING**
- **DOES NOT CONTACT FILM**
- **FIRE RISKS MINIMISED**
- **EFFICIENT AND TROUBLE-FREE**



Here is an entirely new type of Reel-end Alarm which will appeal to all exhibitors and projectionists who operate Gaumont-Kalee projection and sound equipment, because of its utter simplicity and efficiency.

The unit is a complete assembly and can readily be mounted on Gaumont-Kalee spool boxes used with Models '21', '20' and '19'.

It is a completely no-trouble design. There is no complicated machinery to go wrong; the entire

mechanism is on the outside of the spool-box and the important feature to note is that, whilst it gives audible warning of the approaching end of the reel, *it does not contact the film in any way*, thus avoiding any possible risk of film damage.

The risk of fire is also minimised because the Gaumont-Kalee Reel-end Alarm eliminates the general and very dangerous practice of opening the spool-box to see how much film is left upon the spool.

HOW THE REEL-END

ALARM OPERATES

As the film is drawn off the top spool at constant linear speed, the film drum is reduced in diameter and the rotation speed of the spool and spindle increases accordingly.

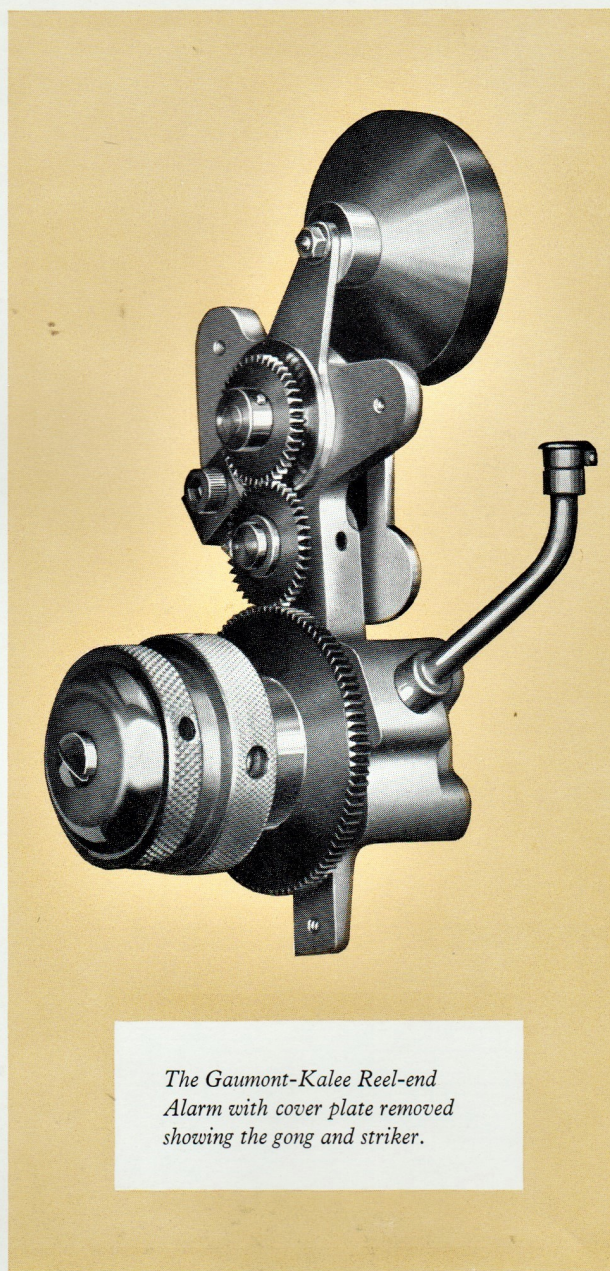
A suitable gear train is driven from the spool spindle and the last gear in this train, together with a small crank pin, are secured to a shaft which rotates in bearings in the main casting.

A pendulum hangs freely on the crank pin end. At a critical speed of the crank (i.e. that determined by the speed of the spool spindle at which the alarm is required) the oscillations of the pendulum reach the required amplitude to strike a gong mounted directly above.

The normal position of the gong in relation to the pendulum is, of course, vertical irrespective of the rake at which the equipment may be operated; and adjustment is provided for the repositioning of the gong around the axis of rotation of the pendulum.

The positioning of the gong in relation to the pendulum also determines the time lag from the alarm signal to the end of the film run. This is normally about 1½ to 2 minutes with the alarm ringing for the first 15 to 20 seconds of this period, but this can be adjusted to individual requirements whether 4" (102 mm.) or 5" (128 mm.) diameter spool hubs are used.

The mechanism comprising gear train, pendulum and gong is completely enclosed by a cast guard finished in the usual Gaumont-Kalee mid-stone colour.



The Gaumont-Kalee Reel-end Alarm with cover plate removed showing the gong and striker.



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GAUMONT-KALEE Optical Soundheads

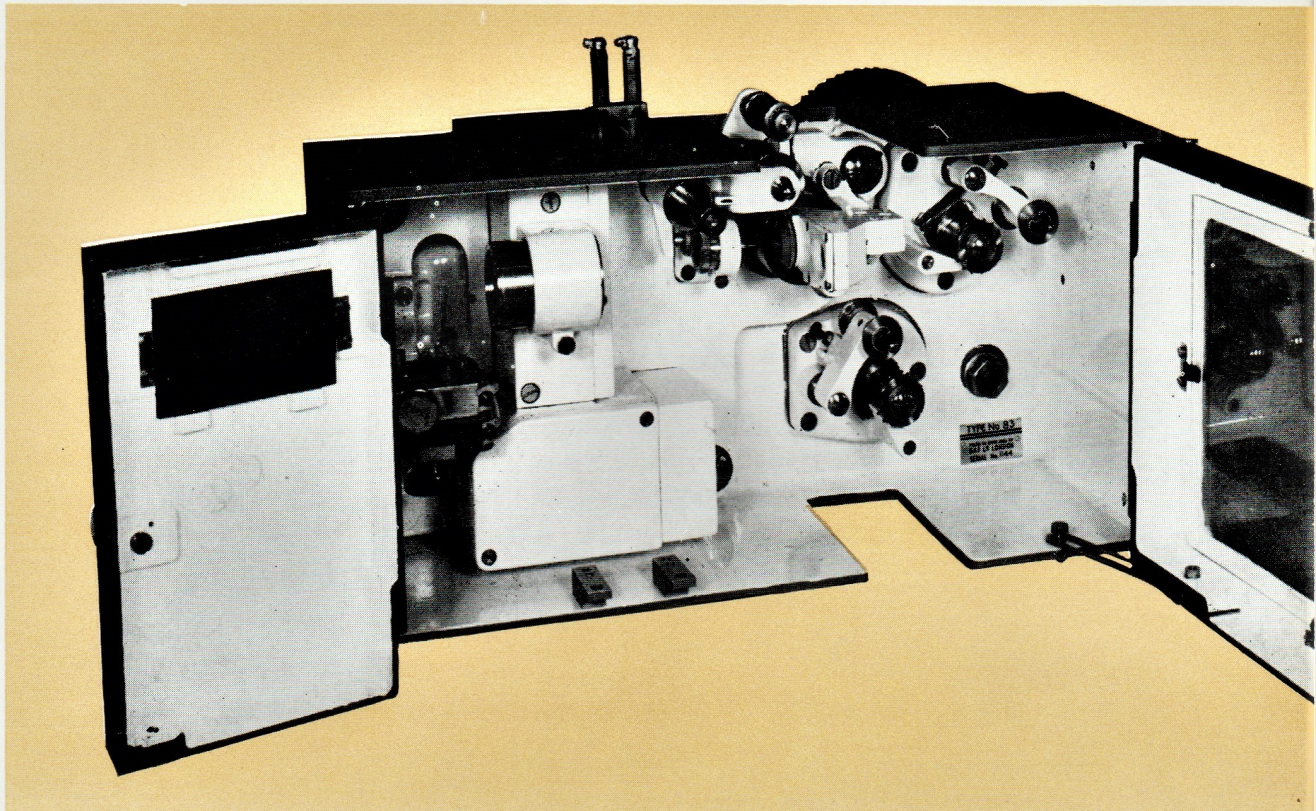
TYPE 83 and TYPE 845 (83 fitted with American type photocell holder)

FOR DE-LUXE SOUND AND PROJECTION INSTALLATIONS

- Fluid-flywheel Scanning
- Enlarged Image Optical System
- Long Life and Easy Service

MAIN FEATURES

- Bloomed, large aperture optical system
- Two driven film sprockets
- Chain drive to take up
- Exciter lamp 8 volt 32 watt
- Photocell
 - British (in type 83), CMG22, GSI6, CG8
 - American (in type 845), RCA 930
- Clean white enamel interior, mid-stone exterior

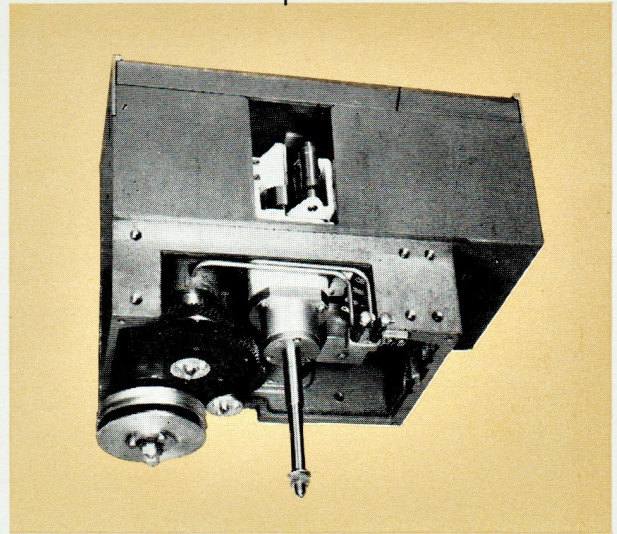


DESCRIPTION OF TYPES 83 AND 845

OPTICAL SOUNDHEADS

The Gaumont-Kalee type 83 soundhead has been designed to satisfy not only the most exacting theatre requirements but also to fulfil the high standards required for studio use. It incorporates a fluid-flywheel stabilised scanning drum, and a unique, enlarged image optical system. The soundhead is of clean and attractive appearance finished internally with porcelain-hard white enamel for cleanliness, and mid-stone externally to match other Gaumont-Kalee equipment.

The type 845 is identical to the Model 83, except for the photocell holder, which is modified to take an American type cell. Both soundheads are readily adaptable to most British and American projectors. The large aperture, bloomed optical system of this soundhead, magnifying the soundtrack image six times at the slit mask, allows for full visual operation of the track position in relation to the slit. The correct position of the soundtrack to the optical system is controlled by a micrometer adjustment positioning the lay-on roller assembly. The slit azimuth, pre-set at the works, requires no adjustment. The exciter lampholder can be rapidly adjusted for lamps of varying height. The motor drive to the soundhead is by two 'V' belts giving long life and silence in operation. For special synchronous speed studio requirements, a gear drive can be supplied. With the use of special types of adaptation gears, direct drive can be secured from the soundhead to most types of projector mechanisms. On the non-operating side, alternate steel and fibre gears give smooth, silent running. The scanning unit is shock absorber mounted, and the scanning drum and lay-on roller run on precision ball bearings. The design of this soundhead and the robust construction of all parts used, together with the accuracy ensured by rigid production and inspection control, ensures long life and trouble-free operation.



Reverse side of soundhead with flywheel removed, showing steel and fibre gears, oil feed pipes and belt pulley.

NETT WEIGHT without flywheel 40 lb. (18 Kgs)



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GAUMONT-KALEE Optical Soundheads

TYPE 543 and TYPE 847 (543 fitted with American type photocell holder)

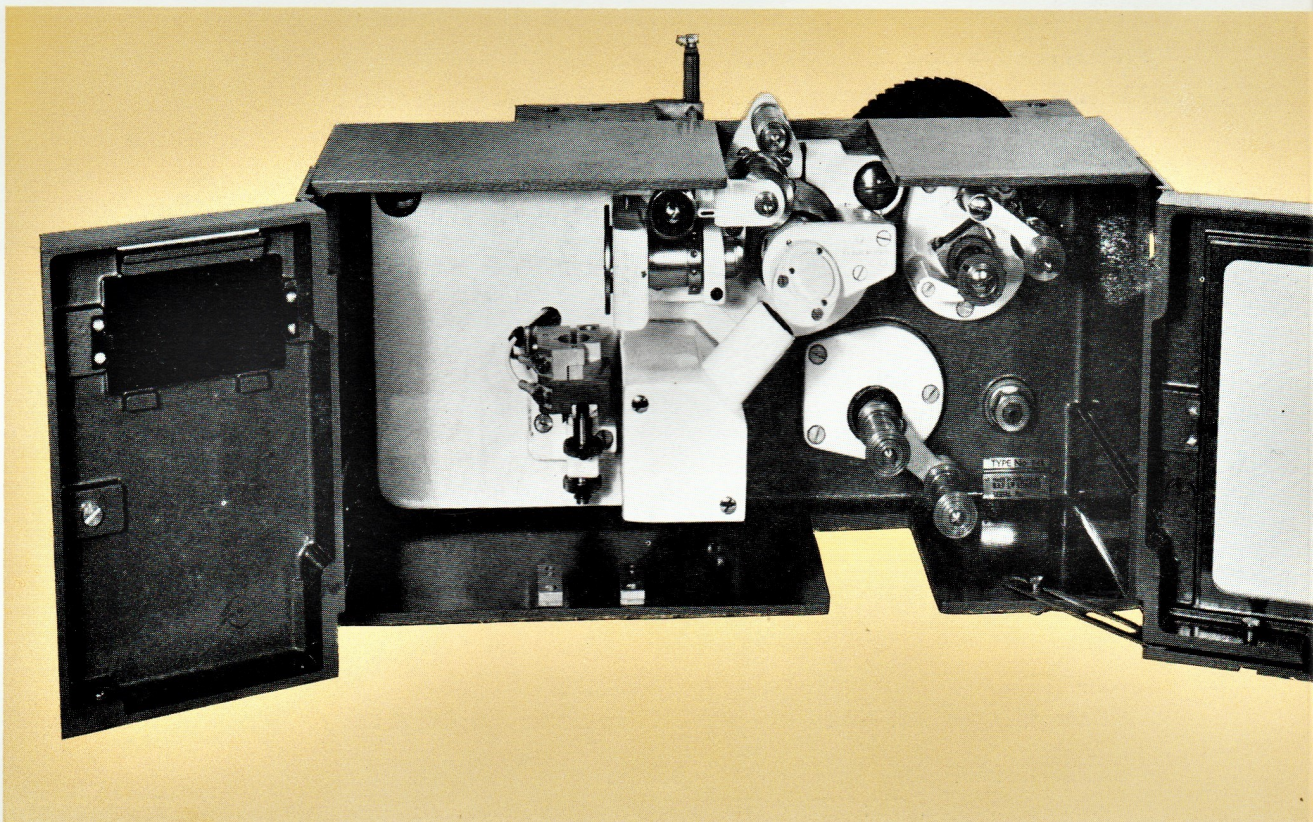
FOR ALL 35 mm. SOUND AND PROJECTION INSTALLATIONS

- Fluid-flywheel Scanning
- Projected Slit Optical System
- Long Life and Easy Service

MAIN FEATURES

- Bloomed, large aperture optical system
- Single film sprocket
- Belt drive to take-up
- Hammer finish in and out
- Exciter lamp 8 volt 32 watt
- Photocell

British (in type 543), CMG22, GS16, CG8
American (in type 847), RCA 930

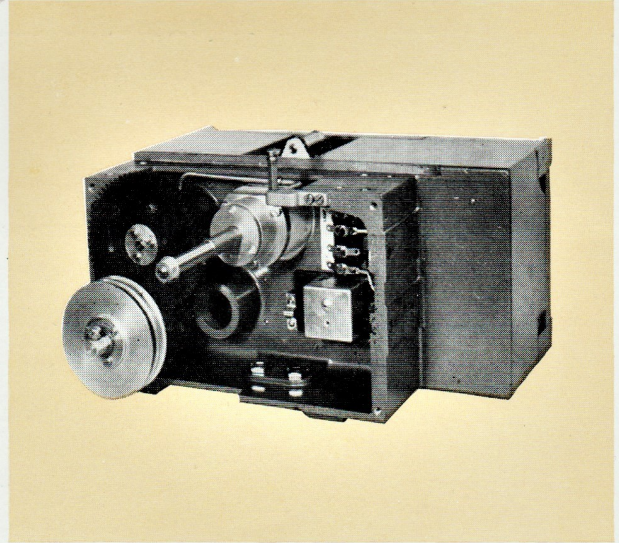


DESCRIPTION OF TYPES 543 AND 847

OPTICAL SOUNDHEADS

Designed to satisfy the most exacting theatre requirements, these soundheads incorporate a fluid-flywheel stabilised scanning drum, and a high efficiency optical system. A jockey roller situated in the film path following the sprocket prevents any disturbances reflecting back to the reproducer point. The type 847 is identical to Model 543 except for the photocell holder which is modified to take an American type cell. Both models are readily adaptable to most British and American projectors. The conventional projected-slit optical system in this soundhead has all optical surfaces bloomed. The azimuth of the slit-mask, mounted within the condenser tube, is pre-set at the works. The lay-on roller can be adjusted laterally in relation to the scanning drum to correctly control the position of the soundtrack in relation to the optical system. The exciter lampholder can be rapidly adjusted to compensate for slight lamp variations.

The motor drive to the soundhead is made by two 'V' belts giving long life and silence in operation. For special synchronous speed studio requirements a gear drive can be supplied as an alternative. By using various types of adaptation gears, direct drive can be secured from the soundhead to most types of projector mechanisms. On the non-operating side, alternate steel and fibre gears give smooth silent running. The scanning unit is shock-absorber mounted and the scanning drum and lay-on roller run on precision ball-bearings. The design of these soundheads and the robust construction of all parts used, together with the accuracy ensured by rigid production and inspection control, guarantee a long life and trouble-free operation.



Reverse side of soundhead with flywheel removed, showing steel and fibre gears and belt pulley.

NETT WEIGHT without flywheel 36 lb. (16.5 Kgs)



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GAUMONT-KALEE Optical Soundheads

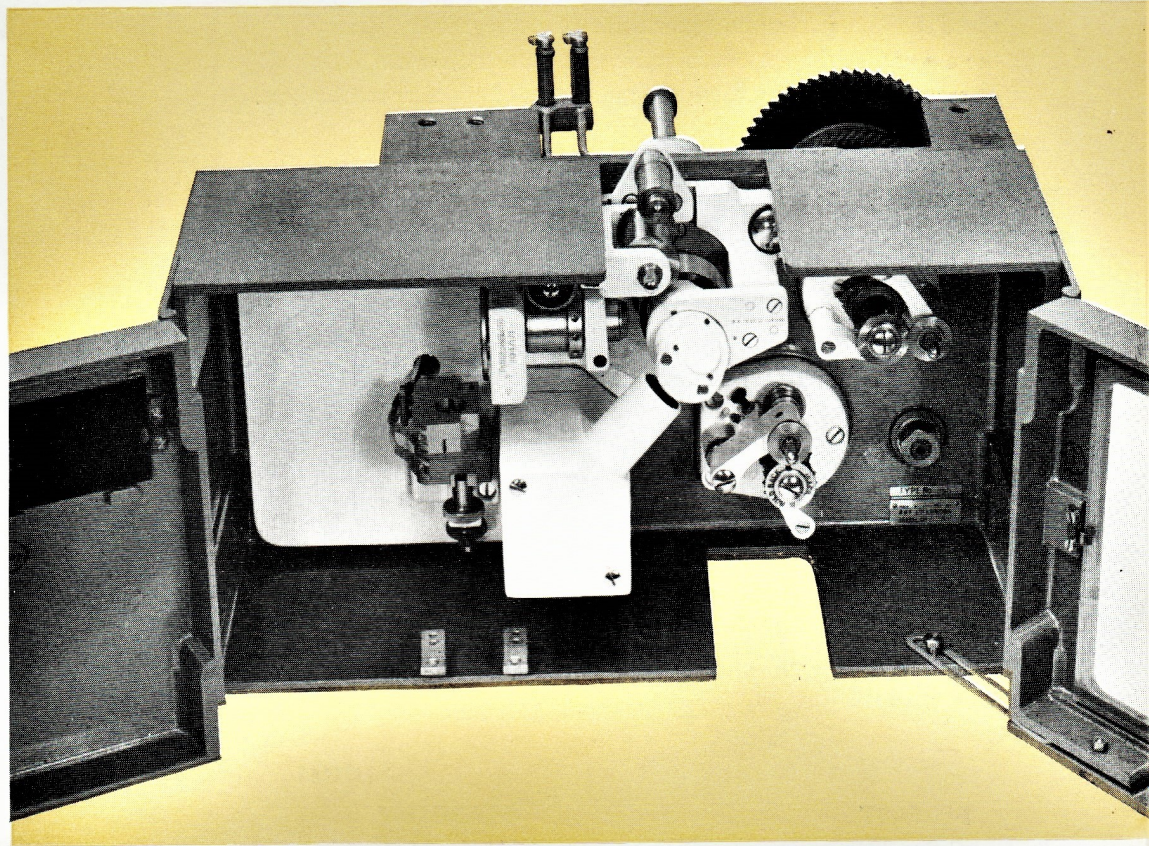
Types 876 and 890

- **Fluid-flywheel Scanning**
- **Two Driven Film Sprockets**
- **Projected Slit Optical System**
- **Long Life and Easy Service**

BRITISH OR AMERICAN TYPE PHOTOCELL HOLDER

CHAIN DRIVE OR BELT DRIVE TO LOWER SPOOLBOX

Exciter supply	8 volt. 32 watt.
Photocell type 876	RCA 930 (American)
type 890	CMG 22. GS 16. CG 8. (British)



DESCRIPTION OF TYPES 876 AND 890

OPTICAL SOUNDHEADS

Designed to satisfy not only the most exacting theatre requirements, but also to fulfil the high standards required for Studio use. The soundheads incorporate a fluid-flywheel stabilised scanning drum and a high efficiency optical system.

They are of modern design and clean, attractive appearance.

Both models can be readily adapted to most British and American projectors.

The main differences between the two types are in the drive to the lower spoolbox.

In the 876 a pulley and idle-roller are provided for belt-drive. In the 890

a driven chain sprocket and an idle sprocket are provided.

The type 876 is fitted with a photocell holder for the

American type octal base and the 890 for the normal four-pin

British photocell type. The conventional projected slit

optical system in this soundhead has all optical surfaces

bloomed. The azimuth of the slit-mask within the condenser

tube is pre-set at the works and requires no adjustment.

The correct position of the soundtrack to the optical system

is controlled by a micrometer adjustment, positioning the

lay-on roller assembly. The exciter lampholder can be

rapidly adjusted to compensate for any variation of

filament height in exciter lamps.

The motor drive to the soundhead is by two 'V' belts giving

long life and silence in operation. For special synchronous

speed studio requirements a gear drive can be supplied. With

the use of special types of adaptation gears, direct drive can

be secured from the soundhead to most types of projector mechanisms.

On the non-operating side, alternate steel

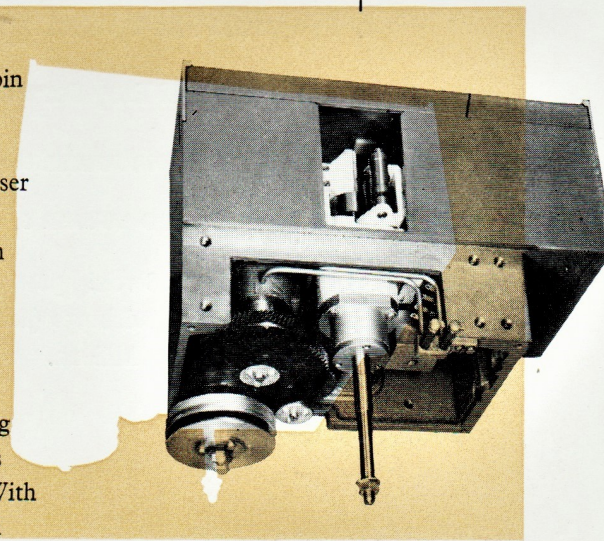
and fibre gears give smooth, silent running. The scanning unit is shock absorber

mounted, and the scanning drum and lay-on roller run on precision ball bearings.

The design of this soundhead and the robust construction of all parts used,

together with the accuracy ensured by rigid production and inspection

control, ensure long life and trouble-free operation.



Reverse side of type 890 chain drive soundhead with flywheel removed, showing steel and fibre gears and oil feed pipes. Type 876, belt drive, is fitted with a pulley instead of a chain sprocket

NETT WEIGHT without flywheel 36 lb. (16.5 Kgs)



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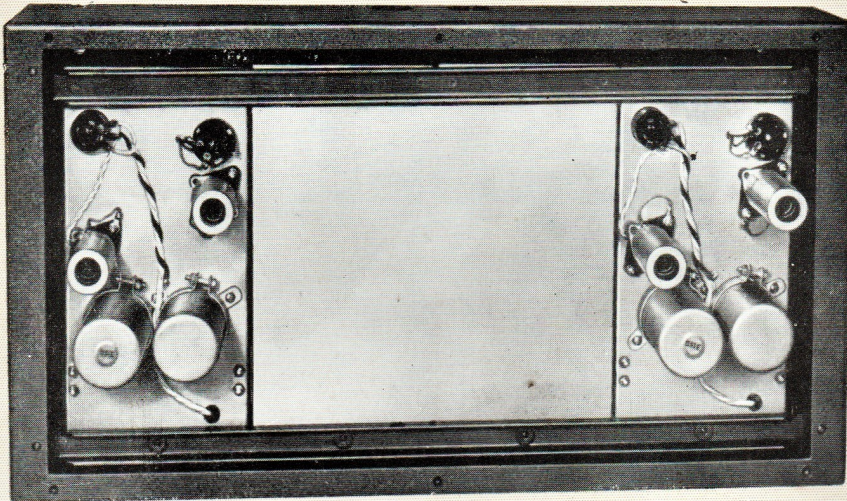
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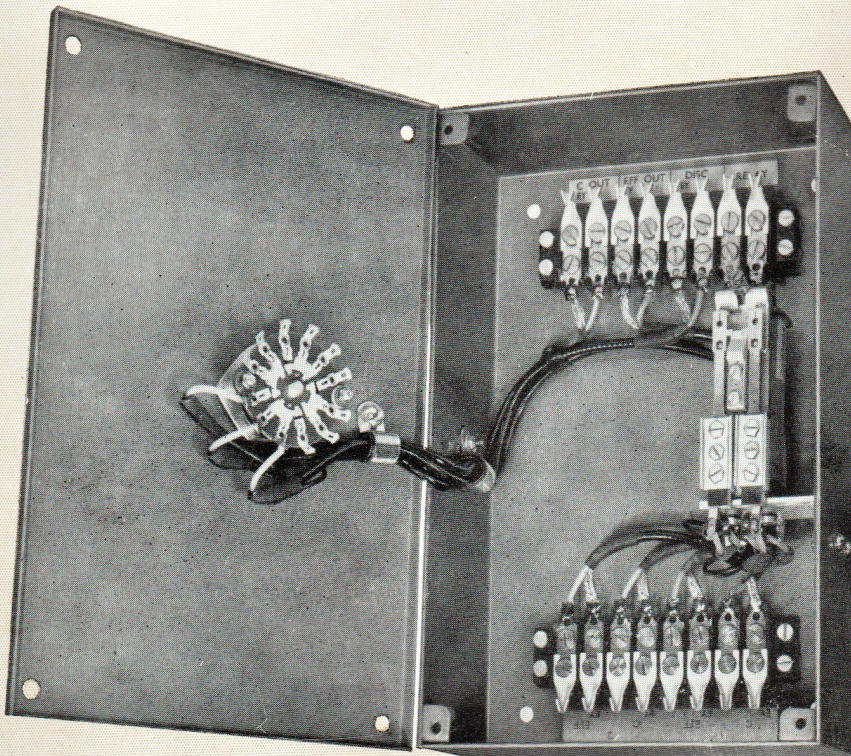
NEWCASTLE

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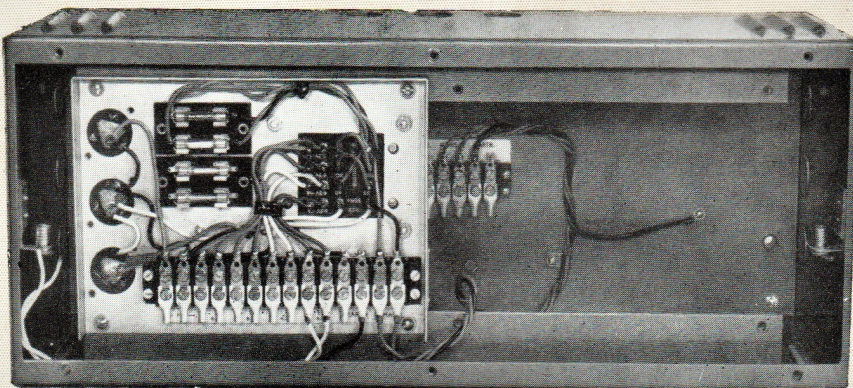
Magnetic Channel Pre-Amplifier

Fitted with two independent amplifiers, one for each soundhead on two projectors. Each output is amplified by two EF 86 valves to a level suitable for the power amplifiers installed in most theatres. A pre-set gain control permits the outputs of the two soundheads to be balanced. An equalising network gives the correct frequency response for the theatre requirements.



Selector Switch and Change-Over Relay Unit

Provides the necessary switching for the addition of single track magnetic to an existing sound system. A rotary switch selects NORMAL or MAGNETIC as required, while magnetic change-over is effected by a relay operated from the existing change-over switching.



Power Supply Unit

For power supply to the pre-amplifiers from mains of 95-130 and 210-250 volts at 25 or 40-100 cycles. The chassis can be easily removed for servicing. Fuses are directly accessible.



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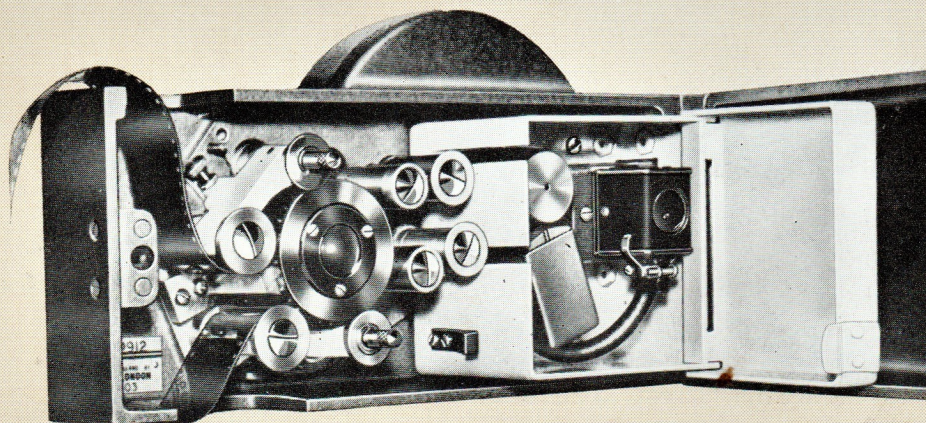
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MORE THAN YOUR EYES HAVE EVER SEEN!
WITH THE
CINEMASCOPE
PICTURE

GAUMONT-KALEE Single track magnetic Sound System

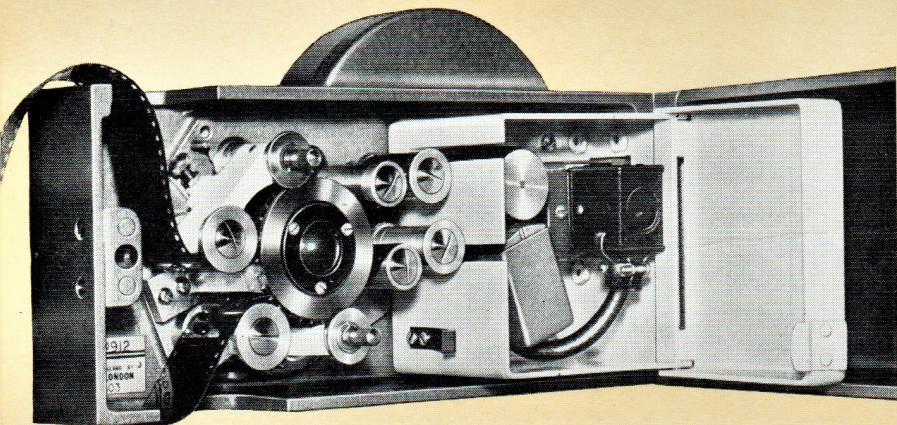
Existing equipment can be quickly and easily converted at very moderate cost to show CinemaScope '55' pictures with their perfected definition, full picture width 2.55:1 and all the fidelity and range of magnetic recording. The Gaumont-Kalee 'penthouse' soundhead fits most current models of projector mechanisms and can be adapted to the majority of amplifier systems. The result is better pictures with full, clear, true-to-life sound—Gaumont-Kalee sound.

By the subsequent addition of amplifier channels this equipment can be enlarged economically to four-track full stereophonic sound.



Single Track Magnetic Soundhead

No. 2 track of the four-track CinemaScope Magnetic recording is scanned by the special pick-up head. The magnetic head is pre-aligned and plug connected for easy maintenance and replacement. Tight loop system eliminates all gears and belts. The magnetic head is completely shielded in a mu-metal screening box. Adaptor brackets available to fit all standard projectors.

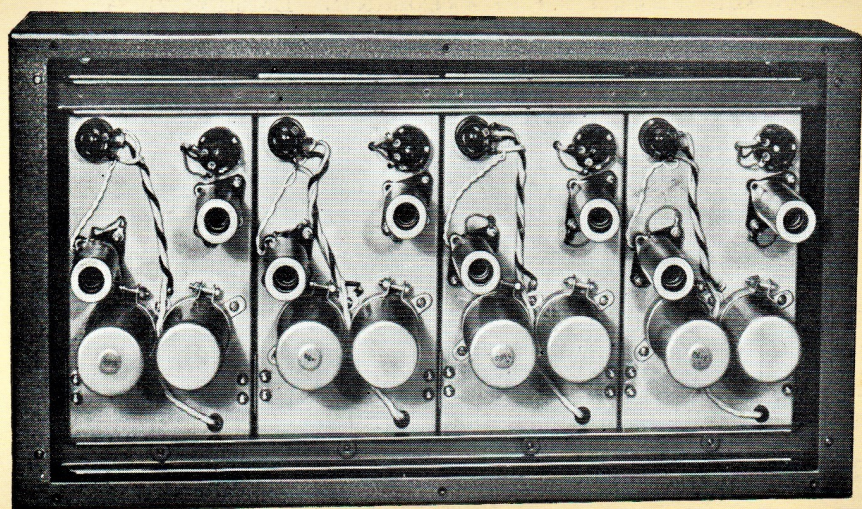


MAGNETIC SOUNDHEAD Type 912

The four-track magnetic head is pre-aligned and plug connected for easy maintenance. The tight-loop filter system ensures flutter free reproduction—no gears or belts.

The magnetic head is completely screened by a mu-metal box. Adaptor brackets available to fit most standard makes of projector mechanisms.

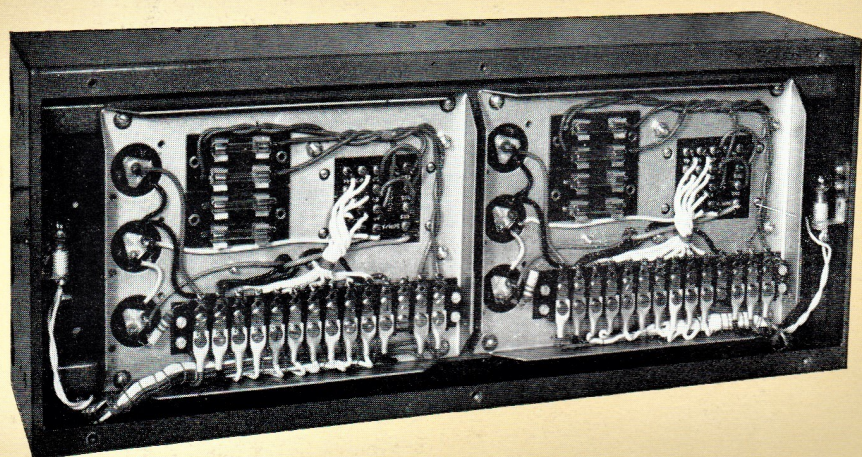
<i>Height (maximum)</i>	5 $\frac{3}{4}$ in. (145 mm.)
<i>Width</i>	11 $\frac{1}{2}$ in. (290 mm.)
<i>Depth</i>	6 in. (150 mm.)
<i>Weight (nett)</i>	14 $\frac{1}{2}$ lb. (6.25 kgs.)



FOUR CHANNEL MAGNETIC PRE-AMPLIFIER Type 914

One pre-amplifier group is used for each soundhead. Each unit contains four type 904 chassis; the fourth is used as a spare in three-channel systems. All four are interchangeable and powered from a common supply unit. Two EF.86 valves give adequate amplification for each channel and pre-set gain controls permit the balancing of all channel outputs.

<i>Height</i>	10 $\frac{1}{2}$ in. (270 mm.)
<i>Width</i>	20 in. (510 mm.)
<i>Depth (with fixing)</i>	7 in. (175 mm.)
<i>Weight (nett)</i>	30 lb. (14 kgs.)



POWER SUPPLY UNIT Type 931

The unit contains two chassis, one to supply each pre-amplifier group from mains of 95-130, 210-250 volts, 25-100 cycles. Fuses are directly accessible and the chassis can easily be removed for servicing.

<i>Height</i>	8 $\frac{3}{4}$ in. (210 mm.)
<i>Width</i>	20 $\frac{3}{4}$ in. (525 mm.)
<i>Depth (with fixing)</i>	5 $\frac{1}{2}$ in. (140 mm.)
<i>Weight (nett)</i>	27 lb. (12.25 kgs.)



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GAUMONT-KALEE Photographic Amplifiers

Type 808 SINGLE · Type 810 and 811 DUAL

- **18 watts or 36 watts output, single or dual installation**
- **Built-in power supplies for Amplifier and Exciter Lamps**
- **Built-in Monitor Speaker**
- **Complete Amplifier chain from photocell input to stage output**



Type 808 Amplifier is designed for single installations, and the 810 and 811 together, as the 'A' and 'B' amplifiers in dual installations. The amplifier power supplies and built-in monitor loudspeaker are identical in each type; the difference being in the switching. Improvements in these new Gaumont-Kalee 18 watt amplifiers include a universal mains transformer so that they can be run on 100-125 volts or 210-250 volts at 40-100 cycles.

SINGLE AMPLIFIER TYPE 808

The amplifier has a Film/Disc/Mic switch to connect the input required. The 'Disc' and 'Mic' inputs are switched to the second stage as they require less amplification than the photocell input. An On/Off switch is provided to isolate the stage loudspeakers and to automatically connect a 20 ohm loading resistor across the output, when the stage speakers are not required. Sound changeover is effected by switching exciter lamp supplies from one soundhead to the other. A small 'pre-heat' voltage is provided for the lamp which is not in use.

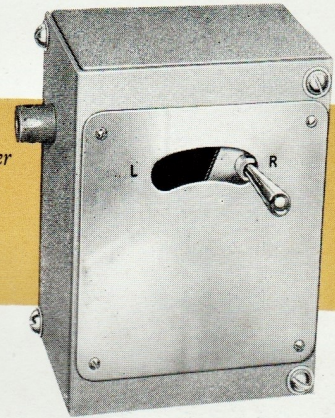
SPECIFICATION

Output 18 watts
Mains Supplies 100-125 volts or 210-250 volts
40-100 cycles

WEIGHT AND DIMENSIONS

Height 2 ft. 3½ in. (690 mm.)
Width 1 ft. 1½ in. (340 mm.)
Depth 11½ in. (290 mm.)
Weight (nett) 89 lb. (33.2 kgs.)

Remote Changeover
Switch Box
Type 522,150



DUAL AMPLIFIERS TYPE 810 & 811

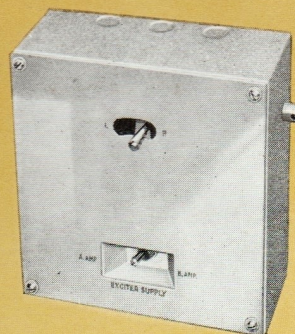
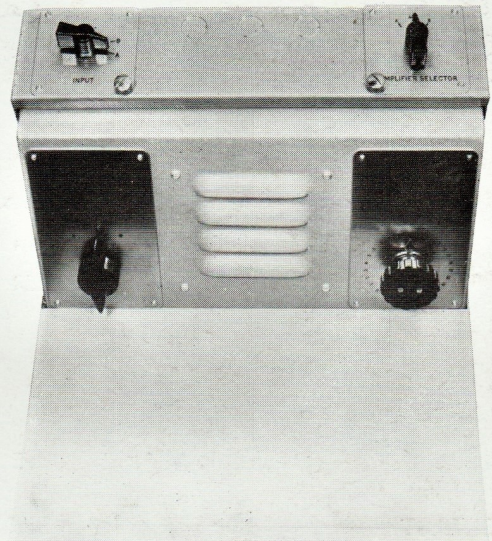
Both 'A' and 'B' amplifiers have a Film/Disc/Mic switch and an On/Off switch to isolate the stage loudspeakers and to automatically connect a 20 ohm loading resistor across the output, when the stage speakers are not required. Switches on the 'A' amplifier connect the inputs and output to the 'A' or 'B' amplifier for 18 watt output, or 'A' and 'B' in parallel for 36 watt output when required. With the first arrangement the amplifier not in use is carried as a standby and may be switched into operation should an emergency arise. Sound changeover is effected by an external changeover switch box 814,001, provided with the 810 and 811 amplifiers. An exciter supply selector switch in this box allows the exciter lamps to be supplied from the 'A' or 'B' amplifier as required.

SPECIFICATION

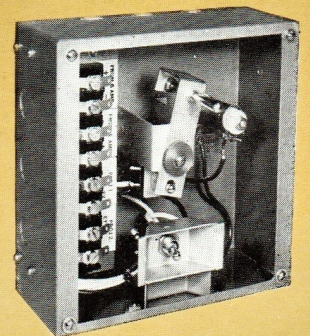
Output (in parallel) 36 watts
Mains Supplies 100-125 volts or 210-250 volts
40-100 cycles

WEIGHT AND DIMENSIONS

Each Amplifier
Height 2 ft. 3½ in. (690 mm.)
Width 1 ft. 1½ in. (340 mm.)
Depth 11½ in. (290 mm.)
Weight (nett) 89 lb. (33.2 kgs.)



EXTERIOR



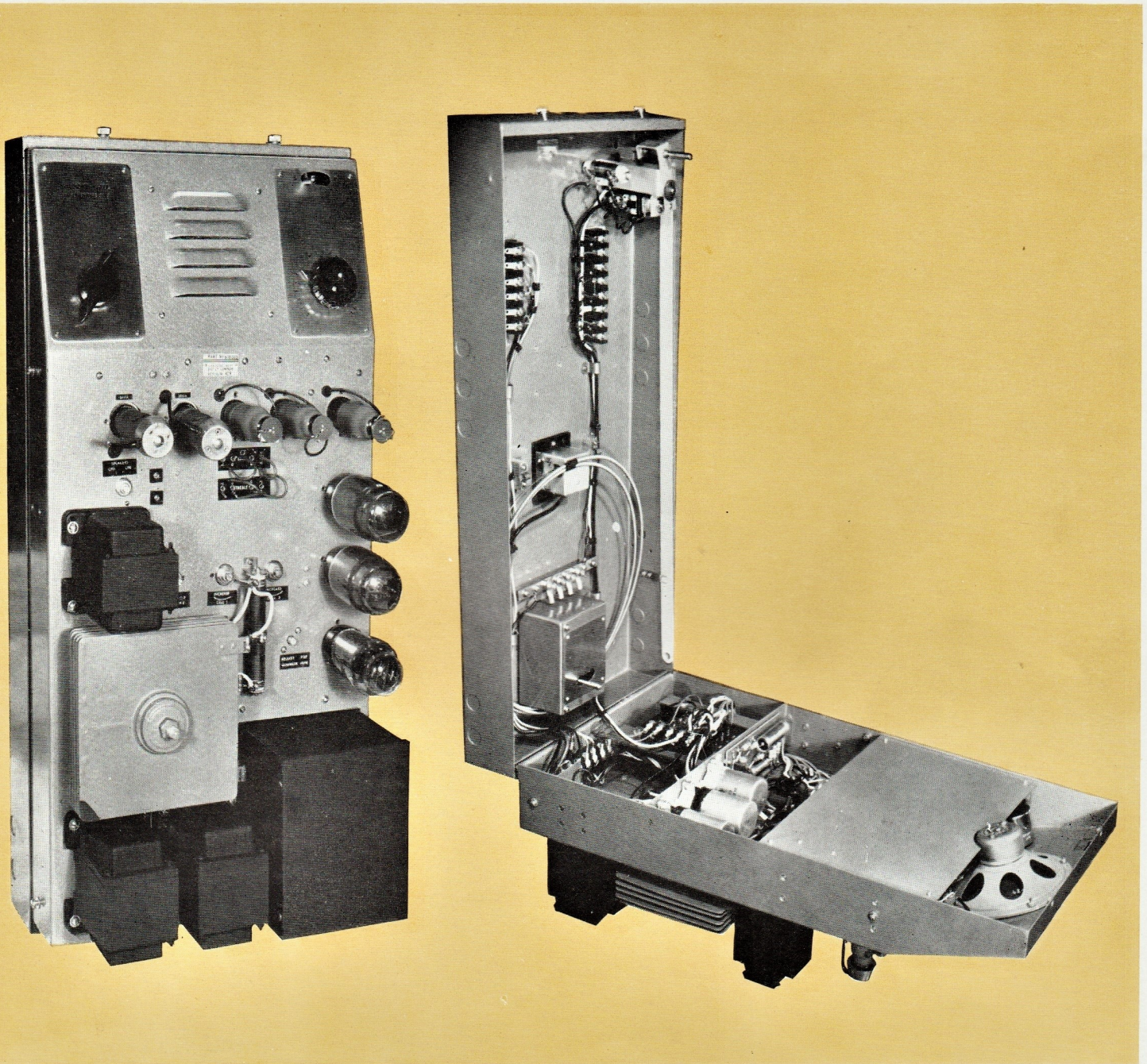
INTERIOR

Remote Changeover Switch Box, Type 814,001

The amplifier chassis is hinged to the back tray and connected to terminal blocks in the tray by two cableforms. It can be operated whilst opened to a horizontal position for easy access to all components when servicing. The complete chassis can easily be removed for replacement or maintenance.

The chassis contains the complete amplifier equipment from photocell input to the output to the stage loudspeakers. Exciter lamp supplies are taken from a metal rectifier bridge across a special winding on the mains transformer. Pre-set tone controls allow the frequency response to be varied where required. When the amplifiers leave the works their response is flat between 50 and 8,000 cycles.

Remote changeover facilities are provided.





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THE GAUMONT-KALEE Photographic Amplifier Type 1074

- **Remote Volume Control**
- **18 watt Output**
- **Built-in Power Supplies for Amplifiers and Exciter Lamps**
- **Built-in Monitor Speaker**
- **Complete Amplifier Chain from Photocell Input to Stage Output**

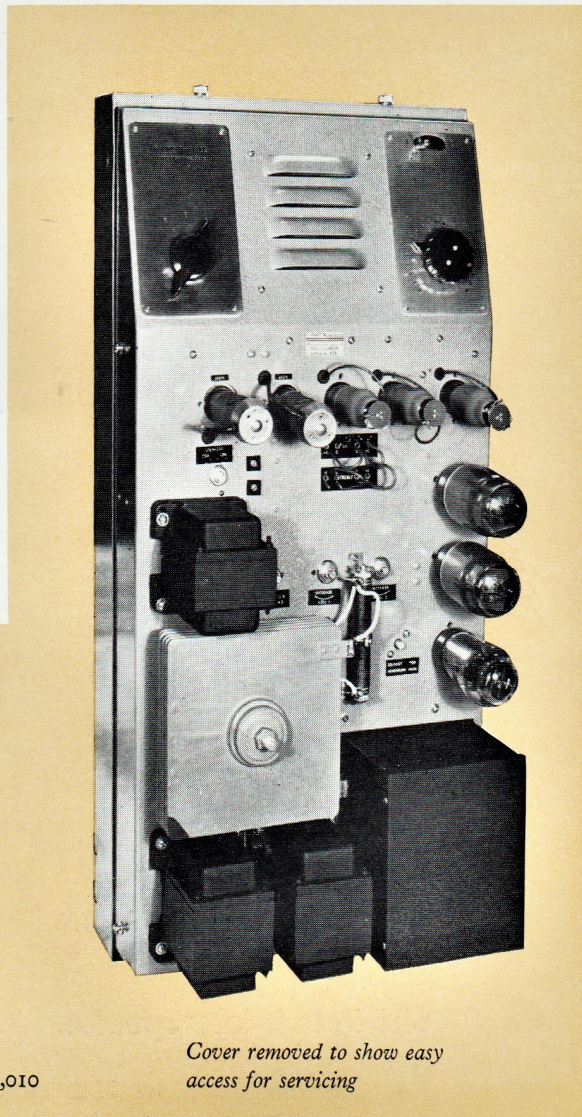


Type 1074 Amplifier is a special development of the Gaumont-Kalee 18 watt range, to provide remote volume control by mechanical means. The complete installation includes a 1074,010 Remote Control Box. The single 18 watt amplifier has a built-in power supply with a universal mains transformer for mains of 100-125 or 210-250 volts at 40-100 cycles. With the exception of the fader arrangements, this amplifier is in all other respects the same as Type 808.

The amplifier chassis is hinged to the back tray and connected to terminal blocks in the tray by two cableforms. It can be operated whilst opened to a horizontal position for easy access to all components when servicing. The complete chassis can easily be removed for replacement or maintenance.

The chassis contains the complete amplifier equipment, from photocell input to the output to the stage loudspeakers. Exciter lamp supplies are taken from a metal rectifier bridge across a special winding on the mains transformer. Pre-set tone controls allow the frequency response to be varied where required. When the amplifiers leave the works their response is flat between 50 and 8,000 cycles. A Film/Disc/Mic. Switch is provided and sound changeover is effected by switching the exciter lamp supplies from one soundhead to the other. A small 'pre-heat' voltage is provided for the exciter lamp which is not in use. Remote sound changeover is operated from the 1074,010 remote control box by means of Bowden wire. The twenty-step stud contact fader can be operated through the same unit by Teleflex cable and special Teleflex fittings built into the back tray of the amplifier.

The amplifier has a built-in Monitor Loudspeaker and Monitor Volume Control. An ON/OFF switch is provided to isolate the stage loudspeakers, and automatically to connect a 20 ohm loading resistor across the output, when the stage speakers are not required.



Remote Control Box 1074,010

Cover removed to show easy access for servicing

SPECIFICATION OF AMPLIFIER

Output	18 watts
Mains Supplies	100-125 volts or 210-250 volts 40-100 cycles

WEIGHT AND DIMENSIONS

Weight (nett)	89 lb. (33.2 kgs.)	Height	2 ft. 3½ in. (690 mm.)
Width	1 ft. 1½ in. (340 mm.)	Depth	11½ in. (290 mm.)



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THE GAUMONT-KALEE Twin 18 watt Amplifier Type 1064

- **Low Cost**
- **Tailor-made for Stereophonic Sound**
- **Built-in Monitor Speakers**
- **Built-in Power Supplies**
- **One 36 watt or Two Independent 18 watt outputs**

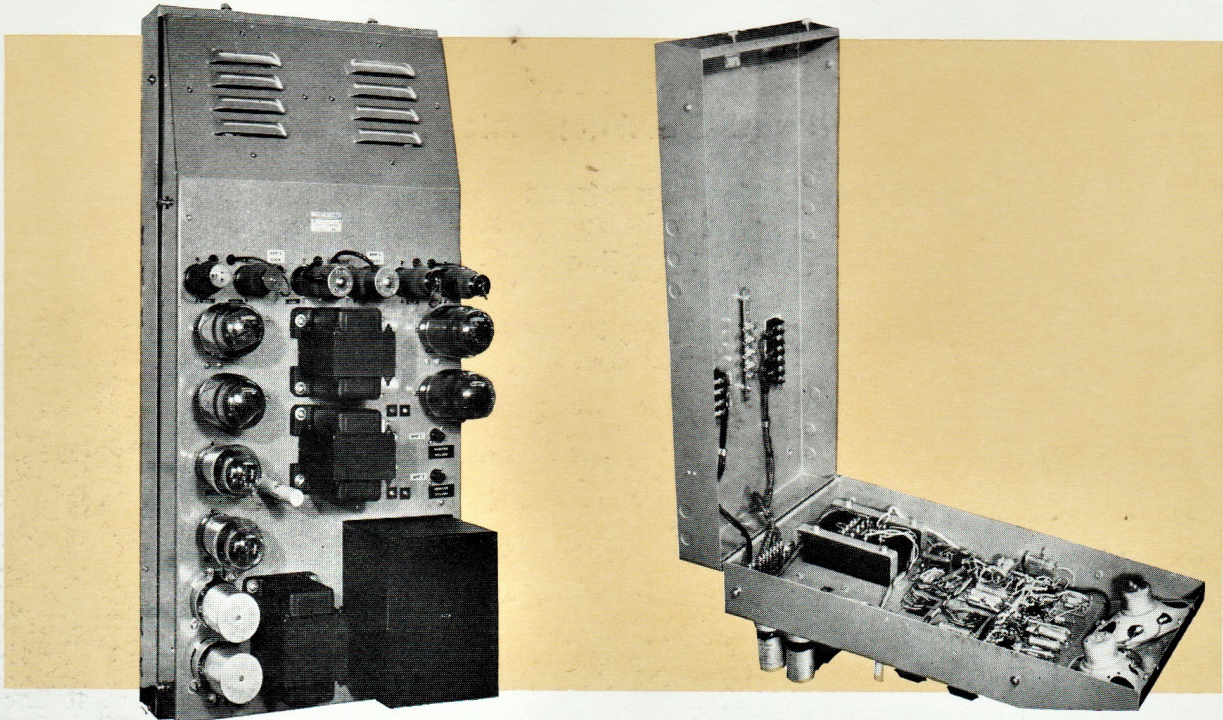


The Gaumont-Kalee type 1064 twin 18 watt Amplifier was designed to convert, at an economical cost, existing Gaumont-Kalee 18 or 36 watt photographic installations to three or four channel working.

Two identical Power Amplifiers with a common power supply are built in one cabinet. They give the high quality output necessary for the wide frequency range of magnetic soundtracks. Each amplifier will give an output of 18 watts and has its own monitor loudspeaker for the independent monitoring of each channel. A simple change in the wiring connects the two amplifiers in parallel, making an output of 36 watts available.

The chassis fits into a case the same size as the standard Gaumont-Kalee 18 watt amplifier, and carries both amplifiers and their power supplies mounted for easy access and maintenance. The mains transformer operates off 100-125 volt or 210-250 volt 40-100 cycle supply. Full H.T. smoothing is provided, and the transformer is protected from overloads by a fuse.

The two identical amplifiers each have two resistance-capacity coupled stages, driving push-pull output stages. A 250,000 ohm variable gain control is connected in each second stage. Pre-set tone controls allow variation of the frequency response for special circumstances.



SPECIFICATION

Output 18 watts per channel, 36 watts paralleled
 Power Supplies 40-100 cycle mains. 100-125 volt or 210-250 volt
 Rectifiers (Power Supply) Two U52 or 5U4G
 Valves Six EF37a or 6J7. Four KT66

WEIGHT AND DIMENSIONS

Height 2 ft. 3½ in. (700 mm.)
 Width 1 ft. 1½ in. (340 mm.)
 Depth 11½ in. (290 mm.)
 Weight (nett) 77 lb. (35 kgs.)



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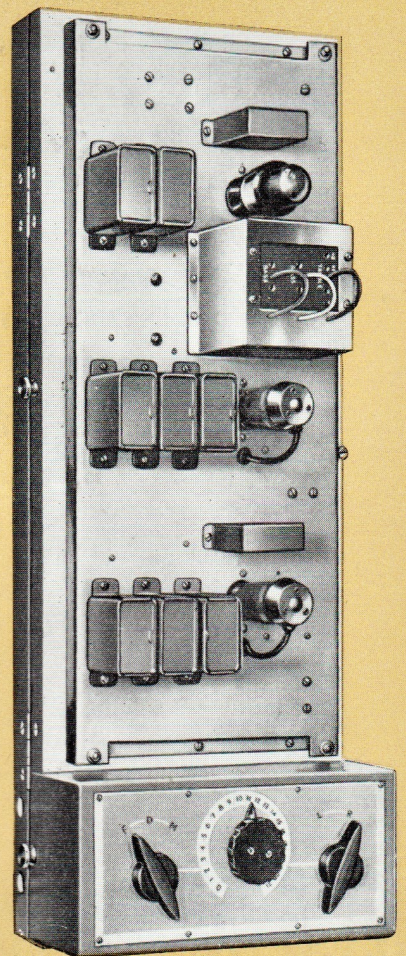
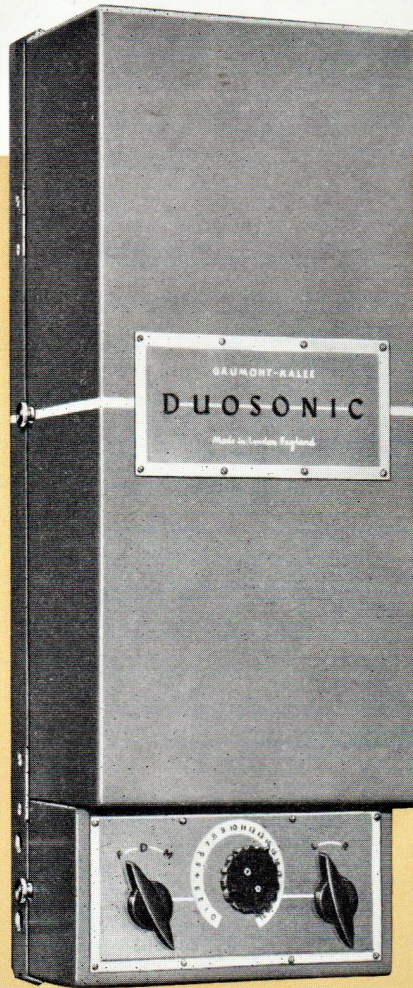
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2 Cross Street Tel: 23038

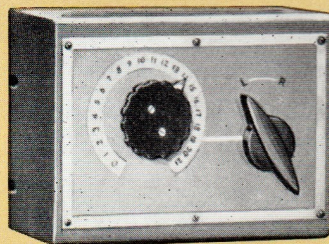
THE GAUMONT-KALEE Optical Pre-amplifier

Forming part of Gaumont-Kalee 30^w or 60^w De Luxe Sound Equipment

- **Wall Mounting**
- **Direct or Remote Fader and Changeover**
- **Film/Disc/Microphone Switching**
- **Tone Control Unit**
- **Silent Changeover**
- **Duplicate Installations**



Cover removed to show components



Remote Control Unit
Type 71

The Optical Pre-Amplifier fits into a wall mounting case with standard Gaumont-Kalee finish. In the case with the three-stage amplifier are the control panel, tone control unit (type 113) and cell voltage balancing unit. Alternative control panel switching, with a line transformer, can be provided where duplicate pre-amplifiers are required.

Two 6J7G valves and one 6J5G with the other components, rated for continuous tropical use, are mounted on the front of a rustproofed panel which is accessible on removal of the cover.

The tone control unit 113, allowing variation of HF and LF response is also mounted on the front. The back-tray of the case is rigidly fixed to the wall, and the hinged main-amplifier panel gives instant access to the wiring, in one plane on the rear of the panel, for servicing. On installation, the unit can be mounted with the control panel at the top or bottom as convenient, and wiring can be taken in at either end.

Used with Gaumont-Kalee soundheads, the pre-amplifiers give the frequency response recommended by the Academy of Motion Picture Arts and Sciences. Frequency response correction can be made by adjustment of the type 113 tone control unit. The Film/Disc/Microphone switch mounted on all control panels connects Disc or Microphone inputs, as required, to the second stage of the pre-amplifier. The changeover switch is condenser isolated from the amplifier to prevent switch-noise. The cell voltage control, mounted in the back-tray, allows the inputs from the cells to be balanced. In units for duplicate installations, the changeover switch is replaced by an emergency switch, allowing the use of a single amplifier in the unlikely event of any fault. The line transformer enables the output to be stepped down to a changeover and fader unit (type 106) which can be in any convenient position.

Remote control of changeover and fader, from a second position in the projection room, can be provided by a type 71 remote control box, mechanically coupled to the fader and changeover switch.

VALVES Two 6J7G pentodes.
One 6J5F triode.

WEIGHT AND DIMENSIONS

Height 26 in. (660 mm)
Width 10 in. (250 mm)
Depth 6 in. (150 mm)
Nett Weight 42 lb. (19 Kgs)



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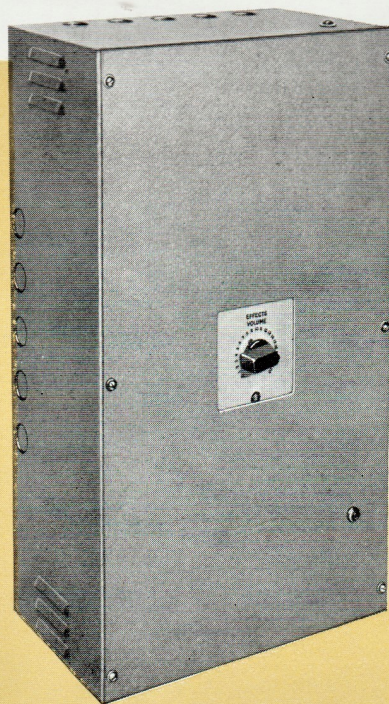
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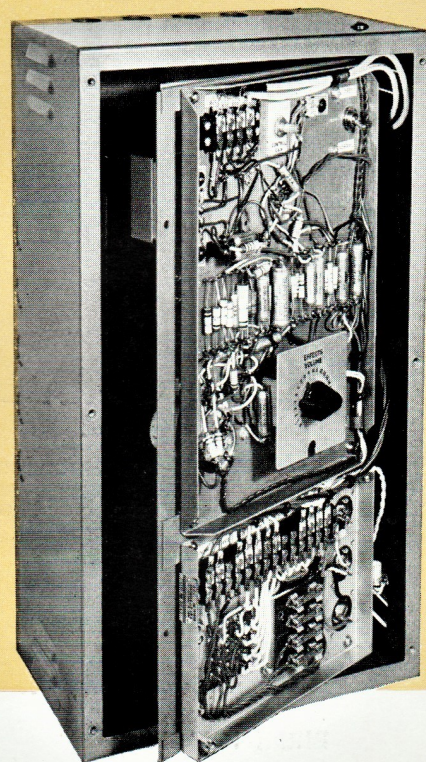
2 Cross Street Tel: 23038

THE GAUMONT-KALEE Type 968 Effects Control Unit

- **Four-track Stereophonic OR**
- **Two-track magnetic sound recordings**
- **Electronic Switching**
- **Effects Loudspeakers Control**
- **Noiseless Operation**
- **Easy access for maintenance**
- **Built-in Power Supply**



Cover removed to show components



The type 968 Effects Control Unit is an integral part of the complete range of Gaumont-Kalee Stereophonic Sound Equipment. It is an electronic switch for bringing into operation the effects speakers controlled by impulses on the effects track of four-track stereophonic, or two-track magnetic sound recording. Incorporated in the unit is an effects volume control, giving control of the effects speakers independently of the stage speakers.

On CinemaScope film, the effects sound-track is narrower than the three main sound-tracks and thus has a lower signal-to-noise ratio. Because it is modulated only at irregular intervals, electronic switching is provided by a 12 Kc/s signal, superimposed on the sound-track.

When the effects sound-track is modulated, the control signal operates to switch the signal through to the Effects Power Amplifier. The use of this type of switching not only prevents noise coming from the effects speakers when the effects track is not modulated, but also ensures that the effects sound is brought into operation unobtrusively.

The 968 Effects Control Unit is contained in a wall mounting case, with its own power supply chassis and type 968,031 attenuator assembly. Removal of a single sheet metal cover gives access to the fuses and wiring and to the hinged frame which permits easy and rapid servicing of the control and power-supply chassis, and the replacement of valves situated on the reverse side.

The Power-Supply Chassis incorporated, type 902, is identical and interchangeable with the unit used to supply the Gaumont-Kalee Magnetic Pre-amplifier. It has a mains transformer with two main primary windings, connected in parallel for 95-135 volts, or in series for 210-250 volts, 25-100 cycles. High tension supplies are through two metal rectifiers, and have adequate smoothing. A heater winding is provided, and a third secondary winding energises a pilot lamp, which indicates when the mains transformer is switched on.

WEIGHT AND DIMENSIONS

Height 20½ in. (520 mm)

Width 12½ in. (320 mm)

Depth with spacers 8½ in. (215 mm)

Nett Weight 34 lb. (15.7 Kgs)



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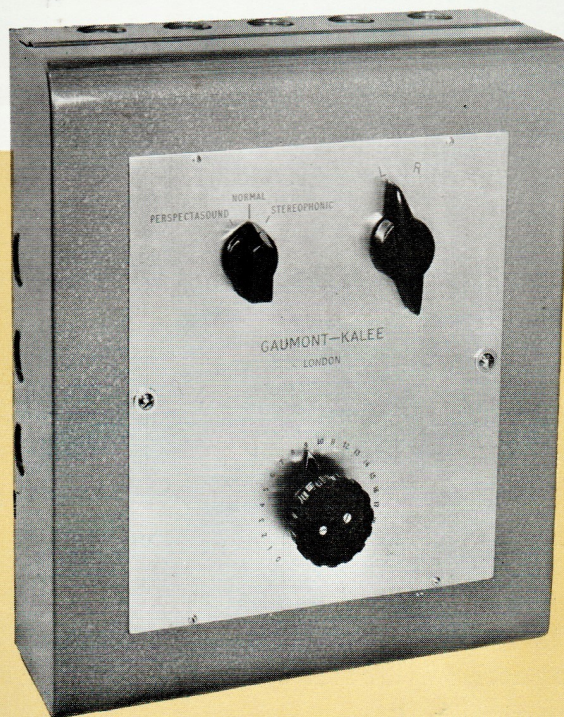
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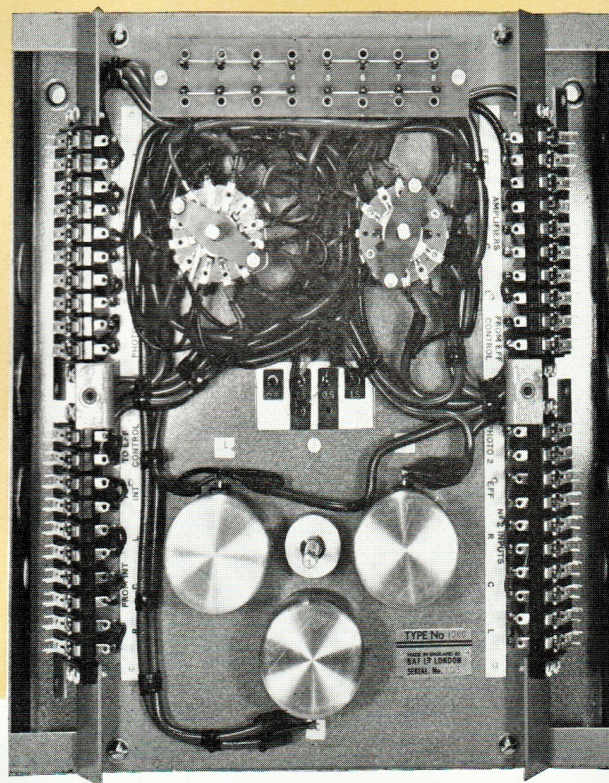
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THE GAUMONT-KALEE Type 1066 Main Volume Control



- **Three-channel ganged volume control**
- **Magnetic sound changeover**
- **Stereophonic/normal/Perspectasound selector switching**

Cover removed to show components



The type 1066 Main Volume Control provides easy conversion from single to three- or four-channel sound installations. The system selector switch allows immediate switching from optical single track sound to optical 'Perspecta' sound (single track three-channel) or to a position which connects the magnetic pre-amplifiers to the three power amplifiers and to an Effects Control Unit, where fitted, for three- or four-channel stereophonic sound. Also incorporated are the sound changeover switch and a triple ganged volume control, allowing simultaneous control of the volume of three stage loudspeaker channels. Volume for the effects channel, where this is used, is controlled by a separate volume control incorporated in the Effects Control Unit, which is supplied on all four-channel installations.

A link panel allows variation of the internal connections to any Gaumont-Kalee two-machine 18 watt single, dual or 36 watt installation, any 30 watt or 60 watt installation, or any single 20 watt installation.

The type 1066 Main Volume Control is constructed in three parts, a wall mounting back tray, a removable chassis and a cover. The switches, volume controls, terminals and link panel are mounted on the chassis, together with a line transformer which can be connected in circuit in installations where necessary.

With Gaumont-Kalee 20, 30 or 60 watt amplifier installations, remote control for volume and changeover is provided. With 18 watt single, dual or 36 watt amplifiers remote volume control is available as an optional extra, and must be ordered with the main amplifier equipment.

WEIGHT AND DIMENSIONS

Height 12½ in. (320 mm)

Width 11 in. (280 mm)

Depth 6 in. (153 mm)

Nett Weight 16 lb. (7.3 Kgs)



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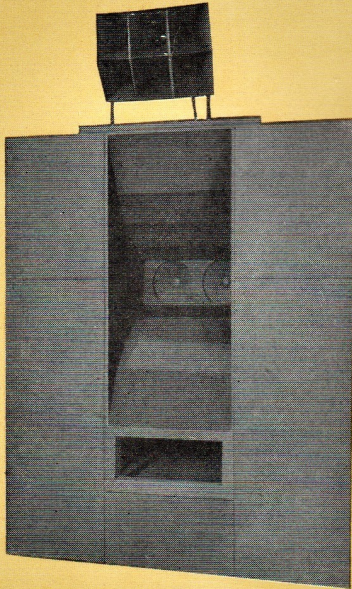
GAUMONT-KALEE Loudspeaker Assemblies

- There is a range of five models of Gaumont-Kalee stage loudspeakers to match exactly the requirements of every size and type of auditorium. Ranging from the type '802' for the small hall, through the 'Duosonic' models numbers 1, 2, 3 and 4 for the medium and larger auditoria.
- Selection of the correct model depends upon the shape and acoustic conditions as well as the size of the auditorium and no general recommendations can be given for a theatre of a specified seating capacity. A survey of the hall or examination of the plans is always advisable.
- Full 'Duosonic' reproduction and continued reliability of performance is assured by the perfection of their design and the care taken at every stage of manufacture.
- All models are fitted with permanent magnet units which in the 'Duosonic' models have the low frequency units fitted in the direct flare-type horns. There is no sound emanation from the rear. The all-metal multi-cellular H.F. horns give an even distribution of sound throughout the auditorium.
- The Frequency Dividing Networks for use with 'Duosonic' models 1, 2, 3 and 4 are designed for a cross-over frequency of 500 c.p.s. and an emergency switch is provided so that the whole input to the speaker is fed to the L.F. units in the unlikely event of damage to the H.F. unit occurring.
- Careful thought has been given to their design in relation to installation and servicing in the limited space on a stage. They are compact in size without sacrificing high quality performance.

GAUMONT-KALEE 'DUOSONIC' LOUDSPEAKER ASSEMBLIES

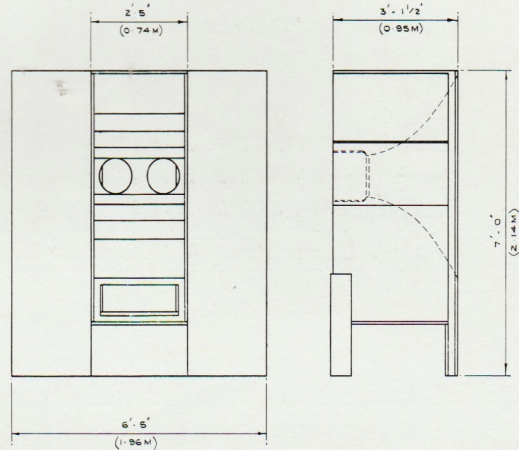
Models 1, 2, 3 and 4

No. 1 'Duosonic' loudspeaker has two 12 in. (305 mm.) LF units, permanent magnet cone type with moving coil, and one type 379 HF unit on a single throat multicellular horn.

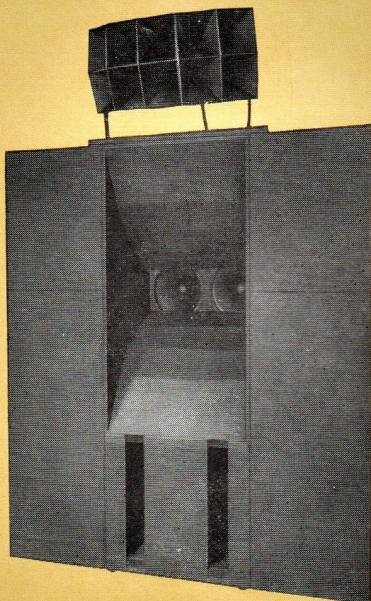


DIMENSIONS (Without HF horn and unit)

Height	7 ft. (2140 mm.)
Width overall	6 ft. 5 in. (1960 mm.)
Width of one wing	2 ft. (610 mm.)
Depth	3 ft. 2 in. (965 mm.)
Weight (nett) including HF horn and unit	588 lb. (267 kgs.)

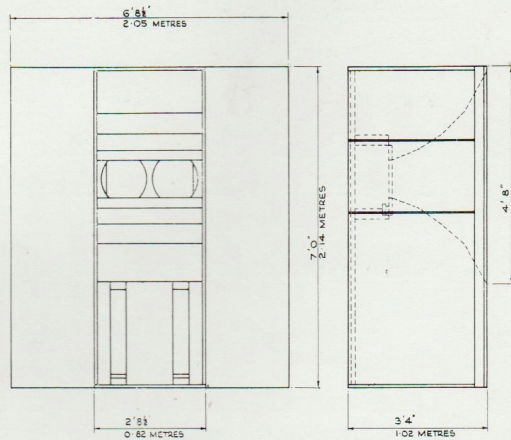


No. 2 'Duosonic' loudspeaker has two 15 in. (381 mm.) LF units, permanent magnet cone type with moving coil, and one type 379 HF unit on a single throat multicellular horn.

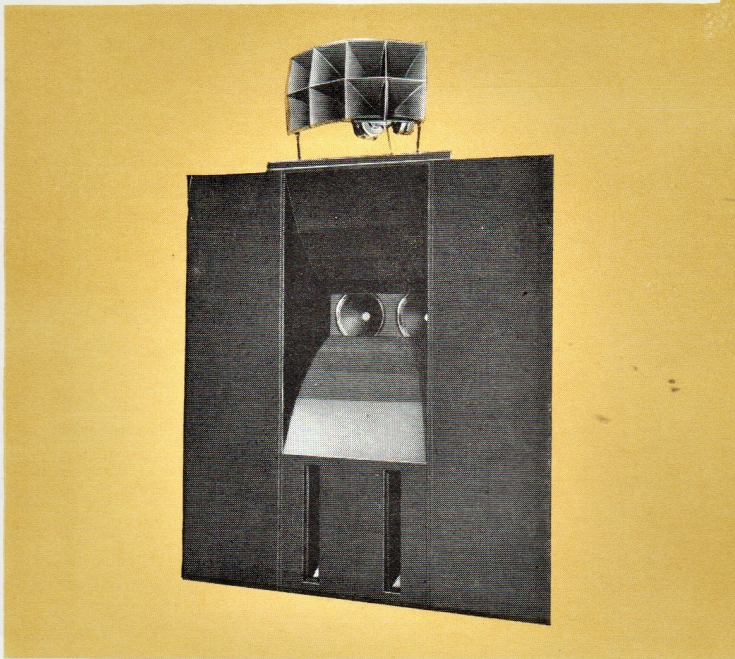


DIMENSIONS (Without HF horn and unit)

Height	7 ft. (2140 mm.)
Width overall	6 ft. 9 in. (2060 mm.)
Width of one wing	2 ft. (610 mm.)
Depth	3 ft. 4 in. (1020 mm.)
Weight (nett) including HF horn and unit	719 lb. (326 kgs.)

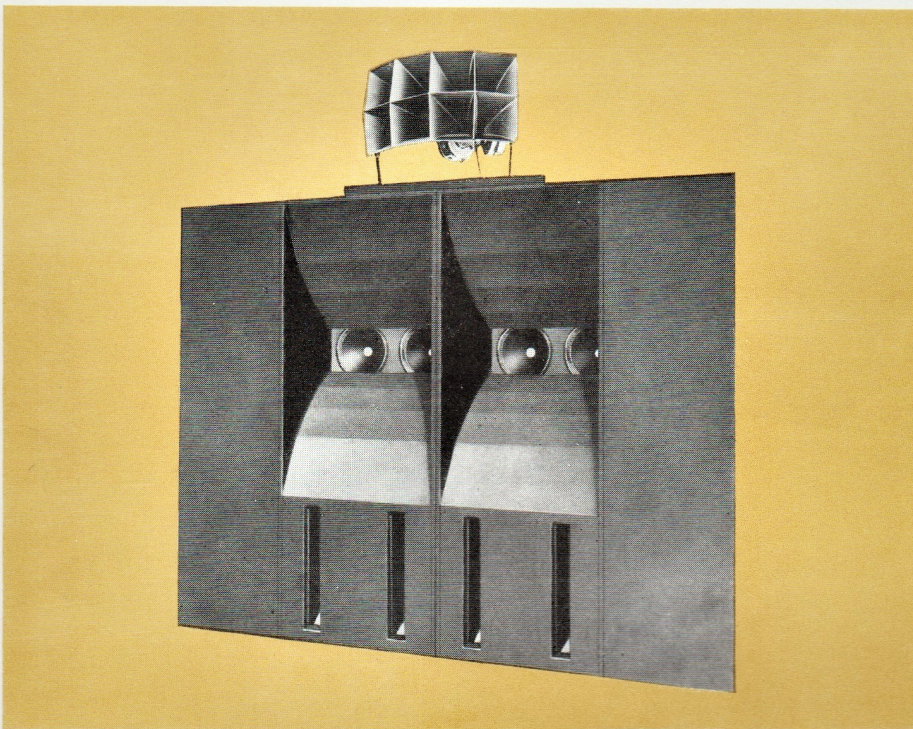
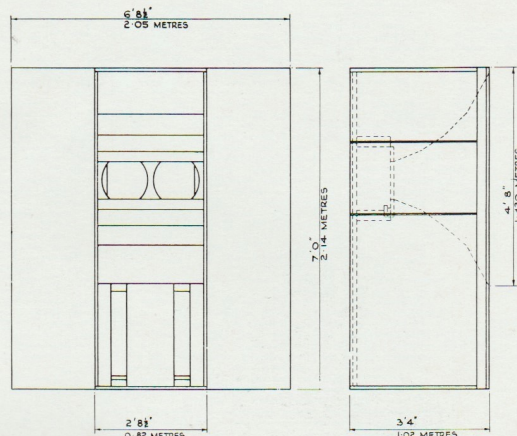


No. 3 'Duosonic' loudspeaker has two 15 in. (381 mm.) LF units, permanent magnet cone type with moving coil, and two Type 379 HF units on a 'Y' throat multicellular horn.



DIMENSIONS (Without HF horn and unit)

Height	7 ft. (2140 mm.)
Width overall	6 ft. 9 in. (2060 mm.)
Width of one wing	2 ft. (610 mm.)
Depth	3 ft. 4 in. (1020 mm.)
Weight (nett) including HF horn and units	742 lb. (338 kgs.)

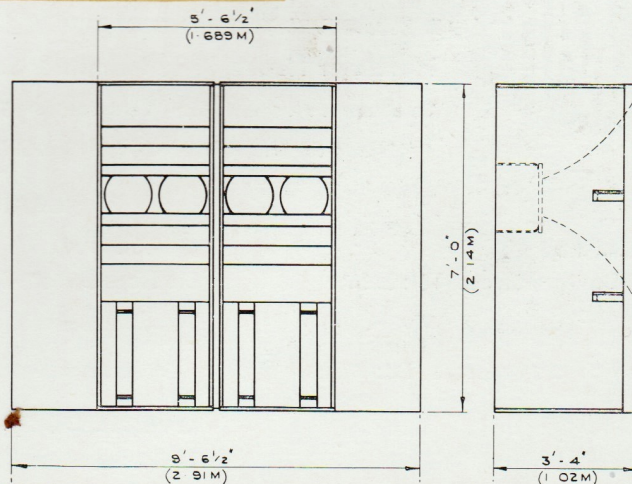


No. 4 'Duosonic' loudspeaker has four 15 in. (381 mm.) LF units, permanent magnet cone type with moving coil, connected in series parallel, an impedance matching transformer, and two type 379 HF units on a 'Y' throat multicellular horn.

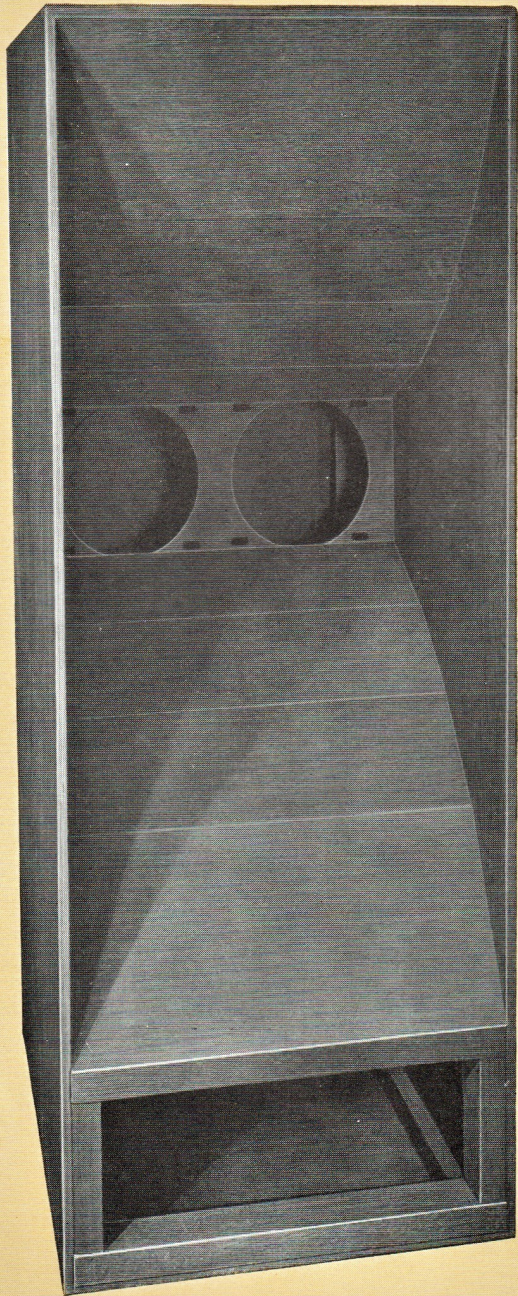
DIMENSIONS

(Without HF horn and unit)

Height	7 ft. (2140 mm.)
Width overall	9 ft. 6 in. (2890 mm.)
Width of one wing	2 ft. (610 mm.)
Depth	3 ft. 4 in. (1020 mm.)
Weight (nett) including HF horn and units	1232 lb. (560 kgs.)



'Duosonic' loudspeakers are intended for vertical use but if necessary they can be installed horizontally and in difficult situations the side wings dispensed with. This would result in a slight loss of LF response.



For Export requirements all 'Duosonic' loudspeakers can be supplied less the low frequency horn woodwork. Each consignment then includes all other components normally comprising each model of the 'Duosonic' range, together with constructional drawings for local manufacture and assembly. The approximate shipping weights of the 'Duosonic' loudspeakers less woodwork are as follows:—

	Nett	Gross
No. 1.	196 lb. (89 kgs.)	328 lb. (150 kgs.)
No. 2.	215 lb. (98 kgs.)	308 lb. (141 kgs.)
No. 3.	238 lb. (108 kgs.)	364 lb. (166 kgs.)
No. 4.	330 lb. (150 kgs.)	440 lb. (200 kgs.)

The LF, flare type horn chamber of the No. 1 'Duosonic' Loudspeaker



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THE GAUMONT-KALEE Type 379 H.F. Unit

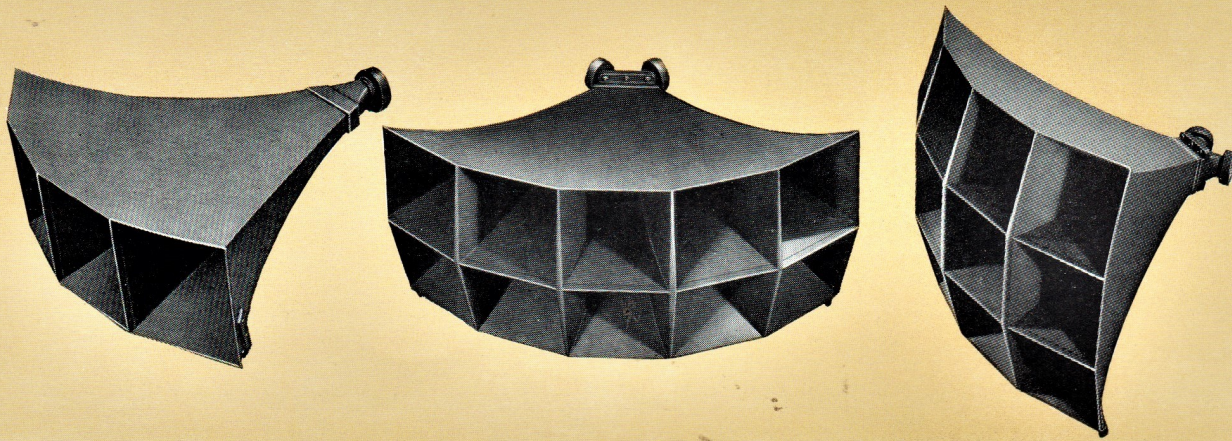
Fine precision engineering and care and checking at every stage of manufacture are the reasons for the excellent high frequency response and sensitivity of the Gaumont-Kalee Type 379 High Frequency Unit. The cylindrical permanent magnet has a very high flux density, resulting in a very high efficiency. Another important feature is the interchangeable diaphragm mounting, dowelled and pre-centred, to simplify replacement on site.

H.F. Horns for 'Duosonic' Loudspeakers

The Gaumont-Kalee range of all-metal multicellular horns includes :

- **Three to six cells in a single layer**
- **Six to twelve cells in two layers**
- **Nine to eighteen cells in three layers**
- **Horns with nine cells and less have a single throat**
- **Ten cells or more, single or 'Y' throats as required**

The number of cells required depends on the seating layout of the theatre and the desired horizontal and vertical angles of sound distribution. Each cell of the treble horn covers a horizontal and vertical angle of approximately 20 degrees, e.g. an eight cell in two layers covers approximately 80 degrees horizontally and 40 degrees vertically.



(Where plans of the theatre are not available or insufficient details are provided a twelve cell H.F. horn is supplied)

DIMENSIONS OF TYPICAL H.F. HORNS

Length includes driving unit

HORN	HEIGHT	WIDTH	LENGTH
8 cell (4 × 2)	1 ft. 4 in. (406 mm)	2 ft. 6 in. (760 mm)	3 ft. (910 mm)
10 cell (5 × 2)	1 ft. 4 in. (406 mm)	3 ft. (910 mm)	3 ft. 2 in. (965 mm)
12 cell (6 × 2)	1 ft. 4 in. (406 mm)	3 ft. 6 in. (1070 mm)	3 ft. 3 in. (990 mm)
12 cell (4 × 3)	2 ft. (610 mm)	2 ft. 6 in. (760 mm)	3 ft. 3 in. (990 mm)
15 cell (5 × 3)	2 ft. (610 mm)	3 ft. (910 mm)	3 ft. 4 in. (1020 mm)
18 cell (6 × 3)	2 ft. (610 mm)	3 ft. 6 in. (1070 mm)	3 ft. 6 in. (1070 mm)



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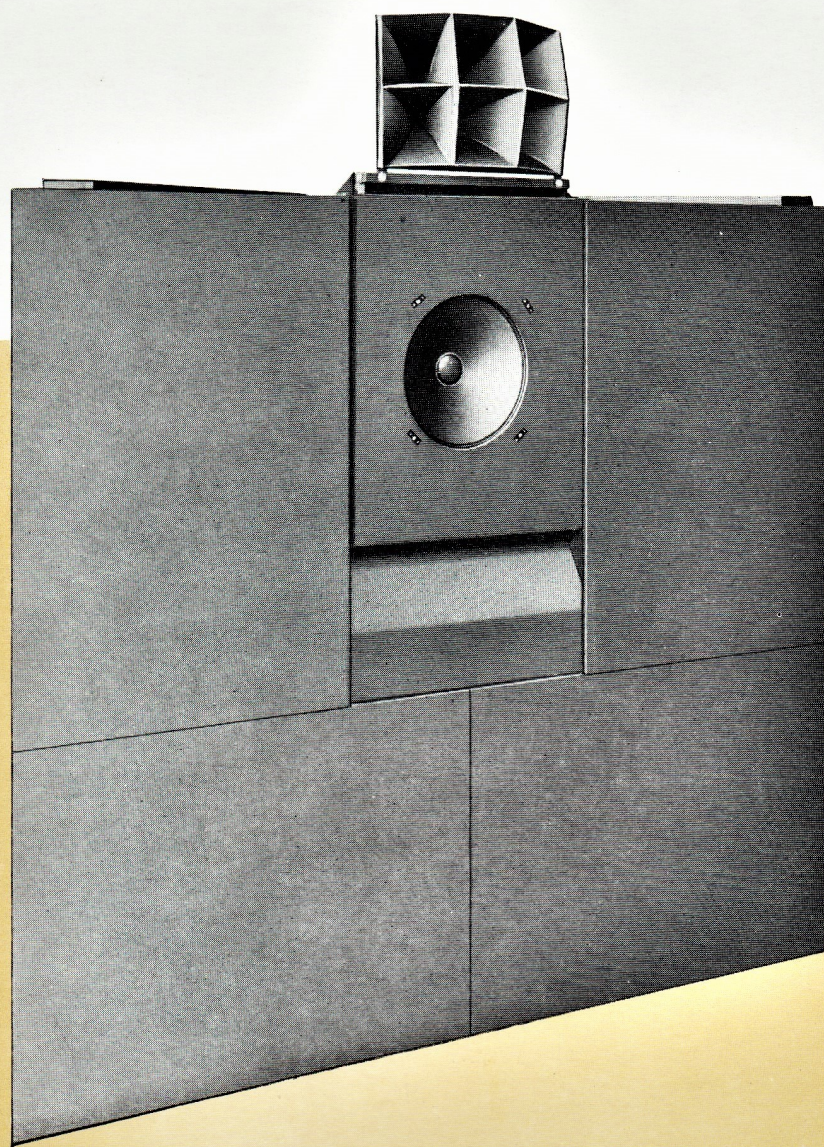
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THE GAUMONT-KALEE Loudspeaker Assembly Type 802

The Gaumont-Kalee Type 802 loudspeaker assembly is designed and priced to meet the needs of the smaller theatre and differs in design from the larger 'Duosonic' loudspeakers. It has a crossover frequency of 1800 cycles, and the bass reproducer unit is mounted in a reflex cabinet, the internal acoustic damping being assisted by the inclusion of fibre-glass pads. There is no sound emanation from the rear.



Because of the high crossover frequency a short all-metal multicellular horn is used for the H.F.; this can only be supplied with a single throat and six cells. The permanent magnet H.F. unit is also smaller than that used on the 'Duosonic' range.

Specially designed for the smaller theatre, the 802 speaker's back-to-front depth is the minimum for high-quality sound reproduction. Access to the L.F. unit is possible from the back or the sides of the

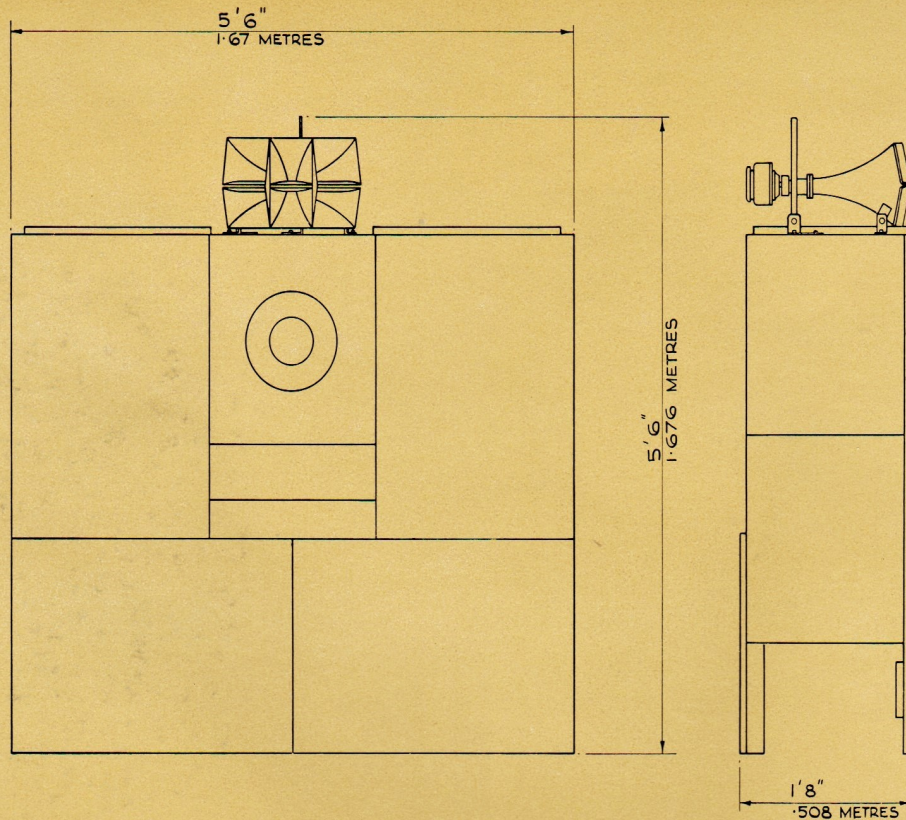
cabinet according to available space in the installation.

The dividing network is in the cabinet and is readily accessible by the removal of a panel. The 12 in. permanent magnet L.F. unit is the same moving coil type as fitted in the No. 1 'Duosonic' loudspeaker assembly.

An emergency switch is provided so that the whole input to the speaker is fed to the L.F. unit in the unlikely event of damage to the H.F. unit.

WEIGHT AND DIMENSIONS

Height	5 ft. 6 in. (1650 mm.)
Width	5 ft. 6 in. (1650 mm.)
Depth	1 ft. 8 in. (500 mm.)
Nett Weight	196 lb. (88 kgs.)
Including H.F. horn and unit	



For Export requirements the loudspeaker assembly can be supplied less reflex cabinet woodwork. The items then included are:
 Six-cell Horn, short type, and permanent magnet H.F. Unit.
 Horn support. Frequency Dividing Network.
 12" (305 mm.) permanent magnet Bass Unit.
 2 Fibre-glass Acoustic Pads for interior of Reflex Cabinet.
 1 set Nuts, Screws, Washers, etc. 1 set Constructional Drawings.
 Nett Weight 84 lb. (38 kgs.)



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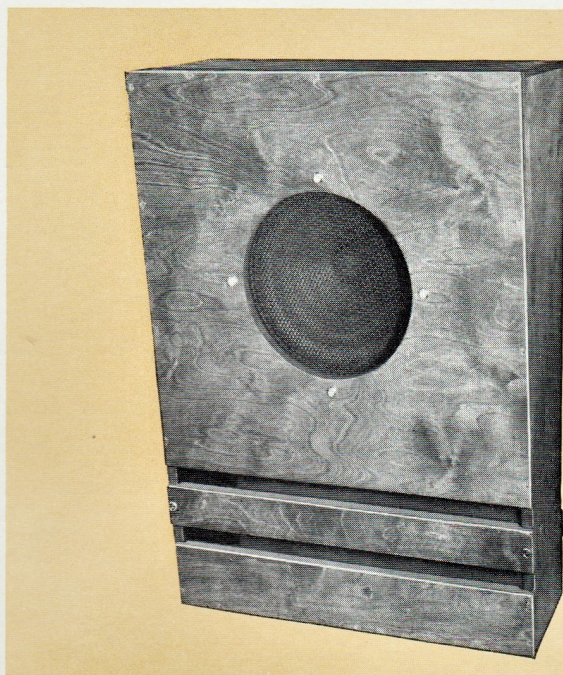
GAUMONT-KALEE Effects Loudspeakers

Types 978 and 1071

The important feature of CinemaScope Stereophonic Films is the contribution to realism obtained by the reproduction of the 'effects' track through the auditorium loudspeakers, emphasising the illusion to the audience that they are participating in the action on the screen. This illusion is assisted if the 'effects' sound cannot be identified as coming from any particular source, and for this reason Gaumont-Kalee have developed simple but highly efficient speakers which, because of their low price can be used in sufficient numbers to install with reasonably close spacing round the auditorium. No general recommendation of quantity to be installed can be advised without a survey or examination of the plans of the auditorium.

EFFECTS LOUDSPEAKER TYPE 978

This loudspeaker consists of a 12 in. (305 mm.) permanent magnet, moving coil, cone type unit mounted in a reflex cabinet specially designed to give the frequency response recommended for CinemaScope effects reproduction. The woodwork is finished preservative to allow the cabinet to be installed in any auditorium and painted to match existing decorations.



WEIGHT AND DIMENSIONS

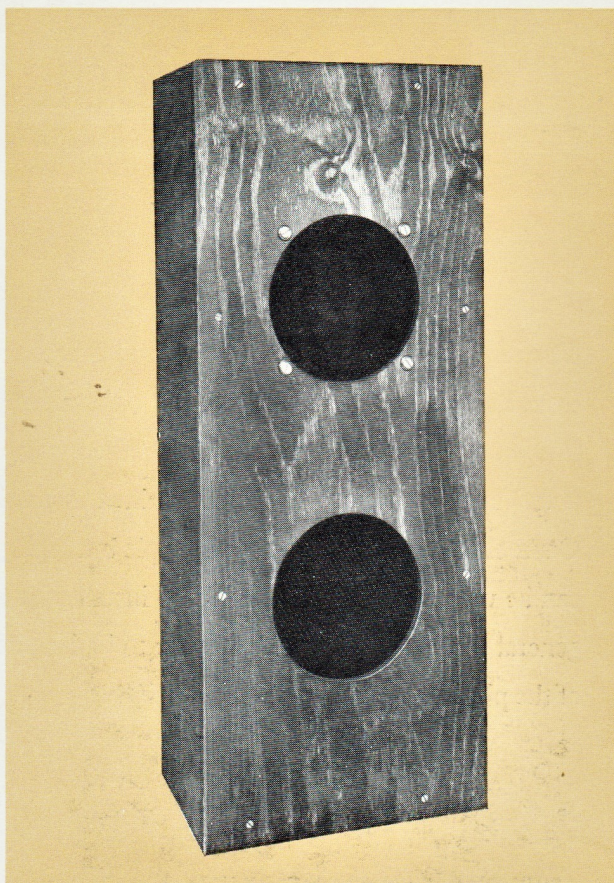
<i>Height</i>	2 ft. 7½ in. (800 mm.)
<i>Width</i>	1 ft. 11¼ in. (590 mm.)
<i>Depth Top</i>	1 ft. 1 in. (330 mm.)
<i>Depth Bottom</i>	9 in. (225 mm.)
<i>Nett Weight</i>	54 lb. (24.5 kgs.)

EFFECTS LOUDSPEAKER TYPE 1071

This model has an 8 in. (200 mm.) permanent magnet, moving coil, cone type unit mounted in a simple reflex cabinet which can be mounted vertically or horizontally.

The cabinet has two identical apertures, one carrying the speaker unit, the second assisting in the whole design to cover the frequency response recommended for CinemaScope effects reproduction.

The woodwork is finished preservative so that it can be painted to match existing decorations.



WEIGHT AND DIMENSIONS

Height 2 ft. 7½ in. (800 mm.)

Depth 9½ in. (240 mm.)

Width 1 ft. 1 in. (330 mm.)

Nett Weight 21 lb. (9.5 kgs.)

PUBLIC ADDRESS SPEAKER TYPE 1017

Type 1017 loudspeaker is a special modification of the type 978 Effects Speaker to make it suitable for Public Address installations. Dimensions and weights are the same.



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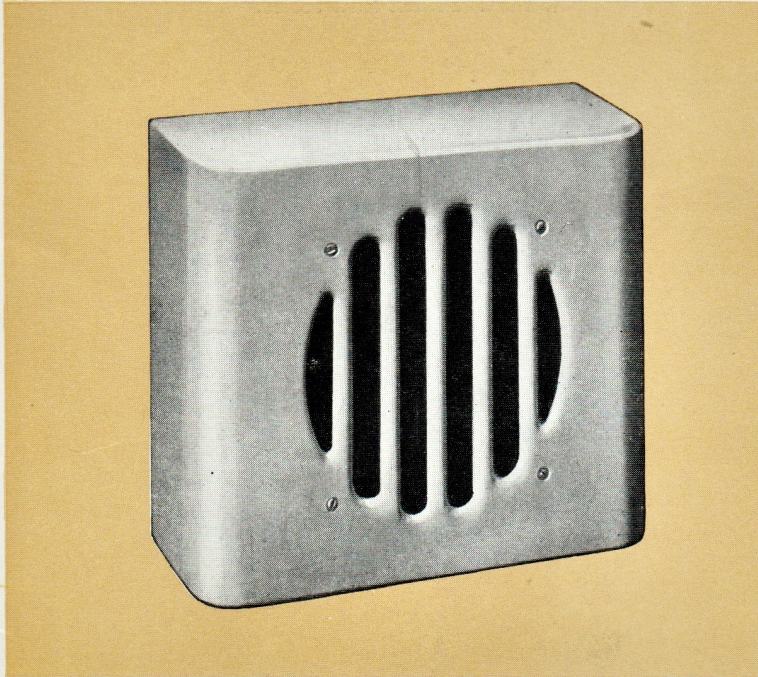
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GAUMONT-KALEE Type 92 Monitor Loudspeaker

and Control Boxes



MONITOR LOUDSPEAKER

- For use with Gaumont-Kalee 30- or 60-watt Sound Equipment in the projection box, or wherever a small monitor loudspeaker is required.
- Can be installed adjacent to the projectors.
- Remote control ON/OFF switch available, illustrated overleaf.

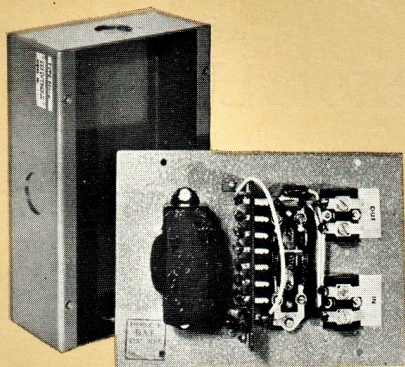
An efficient 6 in. (153 mm) moving coil cone loudspeaker gives good quality sound at an adequate volume for every projection room. The attractive cast aluminium cabinet is finished

mid-stone, and can be supported, at any desired angle, from the wall or ceiling. Louvres are fitted in the rear of the cabinet and the speaker unit is protected from dust by a light fabric cover.

WEIGHT AND DIMENSIONS

Height	9 $\frac{3}{4}$ in. (250 mm)
Width	7 $\frac{3}{4}$ in. (200 mm)
Depth	6 in. (153 mm)
Nett Weight	7 $\frac{1}{2}$ lb. (3.5 Kgs)

TYPE 89 MONITOR CONTROL BOX

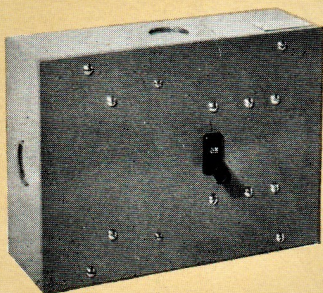


The control box contains a monitor speaker ON/OFF switch and components to give pre-set attenuation of the monitor volume. It is constructed of sheet metal with all components mounted on the lid. These include a transformer, a tag board with resistor network, terminal blocks marked 'IN' and 'OUT' (to the monitor speaker) and the switch. Connected to the switch is a resistor providing a load when the speaker is switched off. Finish mid-stone.

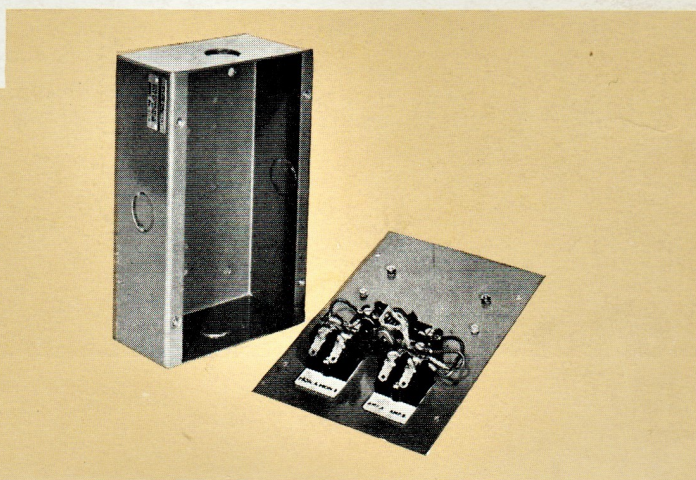
WEIGHT AND DIMENSIONS

Height	7 $\frac{3}{4}$ in. (200 mm)
Width	5 $\frac{1}{4}$ in. (134 mm)
Depth	2 $\frac{3}{4}$ in. (70 mm)
Nett Weight	4 $\frac{3}{8}$ lb. (2.25 Kgs)

TYPE 341 MONITOR CONTROL BOX



Designed specifically for use with the Gaumont-Kalee Monitor and Deaf Aid Amplifier. Since the amplifier has built-in attenuation, the control



box only contains the switching and terminal blocks. External appearance and dimensions are the same as Type 89 control box.

Nett Weight 3 lb. (1.4 Kgs)*



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