

GAUMONT-KALEE

PROJECTOR MECHANISMS
AND ARC LAMPS

for use

with all Sound Systems



Leading the World in Projection and Sound Equipment

When the post-war range of complete GAUMONT-KALEE projection and sound equipment was conceived, an ideal that was never before thought possible to attain, was set before our designers, scientists and engineers. It was demanded that each separate unit, i.e., projector mechanism, arc lamp, stand and soundhead must be adaptable for use with a cinema's existing installation.

That this was achieved is now well known to many exhibitors who have replaced the whole, or parts of their equipment that were either worn out and costly to maintain, or were of old design and inefficient by modern standards with our post-war models.

GAUMONT-KALEE have made it possible to modernise your Projection Room section by section, and improve picture presentation at every step, an improvement which will be reflected in the box office. The cost can be spread over 1, 2 or 3 years on favourable Hire Purchase terms, if desired, thus making, when taking into consideration the generous allowances for your present equipment very little demand on capital.

Good wine needs no bush, and this could never be more aptly applied than to Gaumont-Kalee equipment. The fact that there are still very early silent-film type Kalee projectors and arc lamps in use is proof, if it were needed, of the long and reliable service which is built into every piece of equipment bearing our name.

This fine reputation, of which we are justly proud, coupled to a service that is second to none, is a guarantee to Exhibitors that our equipment can be ordered with every confidence.

We are prepared to demonstrate in your own cinema, and without any obligation, the merits and great advancements made by GAUMONT-KALEE in Projection and Sound Equipment.

Everything for the



Cinema and Theatre

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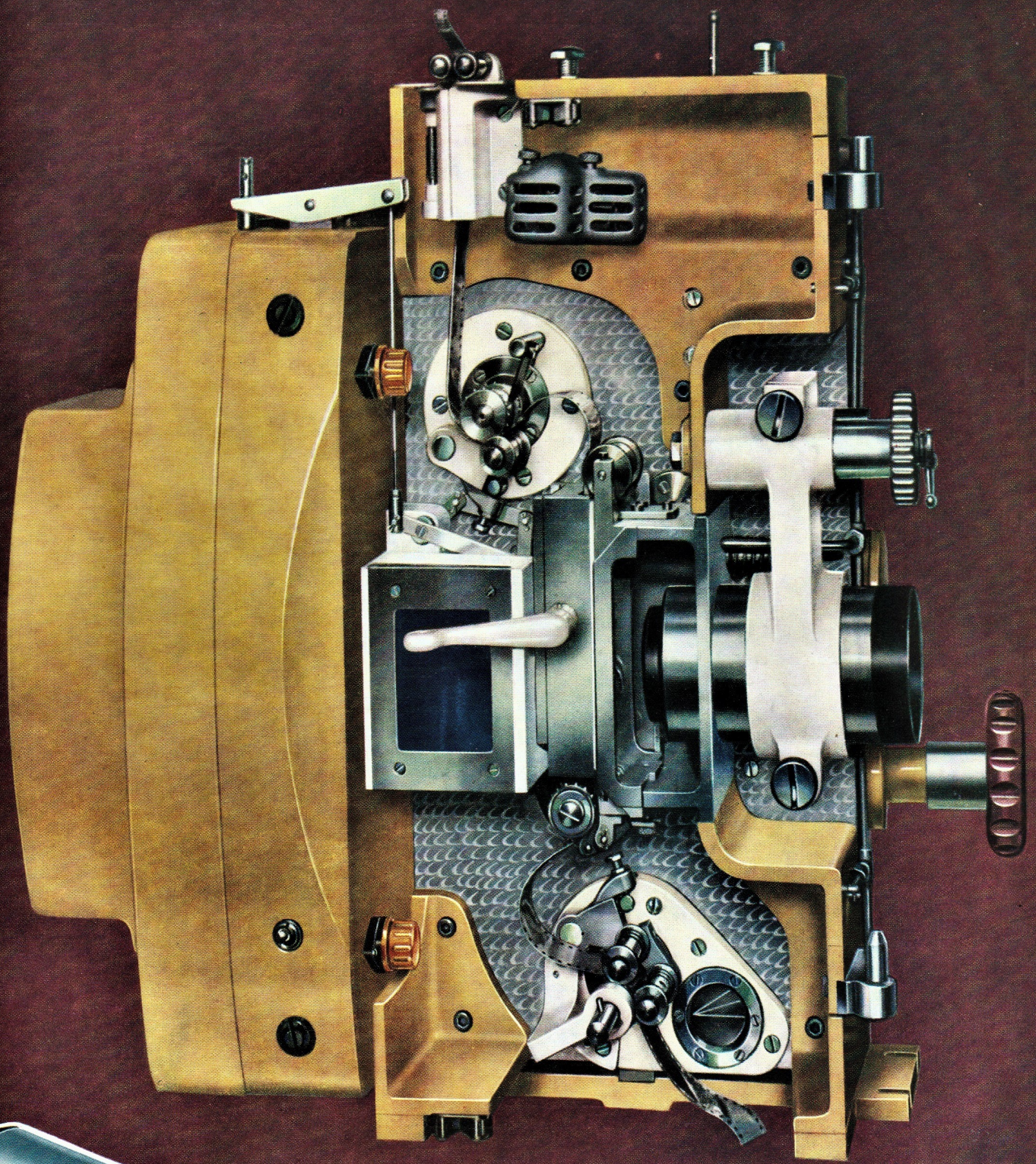
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Complete the perfect installation with the Gaumont-Kalee "bloomed" and colour-corrected Lens. Optional equipment at an extra charge.

The **GAUMONT-KALEE**

Models '21', '20' and '19'

PROJECTOR MECHANISM

OUTSTANDING FEATURES OF THE GAUMONT-KALEE Projector

Models "21," "20" and "19"

- GATE:** Special attention has been given to the design of the parallel-action gate, to eliminate the extra heat inevitably associated with more light on the screen. The aperture itself is screened by a heat reflector and the gate is massively constructed with ample radiating surface to ensure adequate heat diffusion and dissipation. Instantly detachable for cleaning.
- The sturdy gate construction, the rigidly supported intermittent unit accurate to .0001", the equally accurate hardened and ground sprocket with precise end location avoiding risk of shaft deflection, all contribute to give a rock-steady picture.
- FILM GUIDE
ROLLERS
ETC.** Incorporate two important distinguishing features:
- (1) Automatic film tracking
 - (2) Pivoted for free running
- Twin adjustable tension, light steel skates.
- GATE
FRAME:** The masking plate, quickly replaced, slides into position without any screws, etc., and incorporates double aperture:—
- (1) Upper aperture for masking
 - (2) Lower aperture for projection
- Twin threading lamps are embodied, controlled by separate switch, which operate from a built-in low voltage transformer for mains connection.
- 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-bladed shutter. This gives approximately 20 per cent. increase in light efficiency with less flicker as well as improved definition. The aluminium blade has an integral counter-balance in full-floating sleeve, along which oil is continually circulated. The Gaumont-Kalee Type "20" and "19" embody the standard two-blade normal speed shutter.
- MASKING:** Control handle located in most convenient position at front of projector is non-reversible, 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

- MAIN CASTING:** The Gaumont-Kalee Projector is totally enclosed, thereby providing almost complete silence in operation; maximum fire-protection and the utmost cleanliness throughout. All wiring for the threading lamps and electrically operated change-over device is entirely concealed within the casting. Although completely enclosed, every part of the Projector is readily accessible for inspection, servicing and cleaning.
- LUBRICATION:** Automatic, provided by a circular positive gear-type pump. Oil is filtered before entering the pump, passed through an improved filter box and delivered to the components by means of suitable 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 required when the mechanism is stationary.
- BEARINGS and SPINDLES:** Are designed to furnish correct lubrication and are provided with specially designed "throw-backs" to return the oil to the well. Spindles are of tough high-carbon steel, ground to extremely fine limits.
- FOCUSSING:** Micrometer focussing, critical and rigid due to the complete elimination of "backlash", and when set can be rigidly locked. Specially designed lens holder enables the extra wide aperture 2.778" diameter Gaumont-Kalee "bloomed" 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 construction of the Projector makes use of very simple adapter gears, so that it is readily connected to any make of sound system.
- 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 unit which can be quickly removed or replaced. When the back cover is removed, the intermittent unit is exposed and only requires the removal of two nuts 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:** A drain plug is provided for running off the oil, and at the top of the mechanism a filter plug is fitted.
- "PYRENE" AUTOMATIC FIRE EXTINGUISHER:** Provision has also been made for the fitting of the specially designed, built-in "Pyrene" Fire Extinguisher, which is optional equipment.

Every minute detail of the Gaumont-Kalee range of Projectors has received the closest thought in design, selection of material, workmanship and finish, to produce in the completed machine the last word in Projector Construction.

Unique in performance

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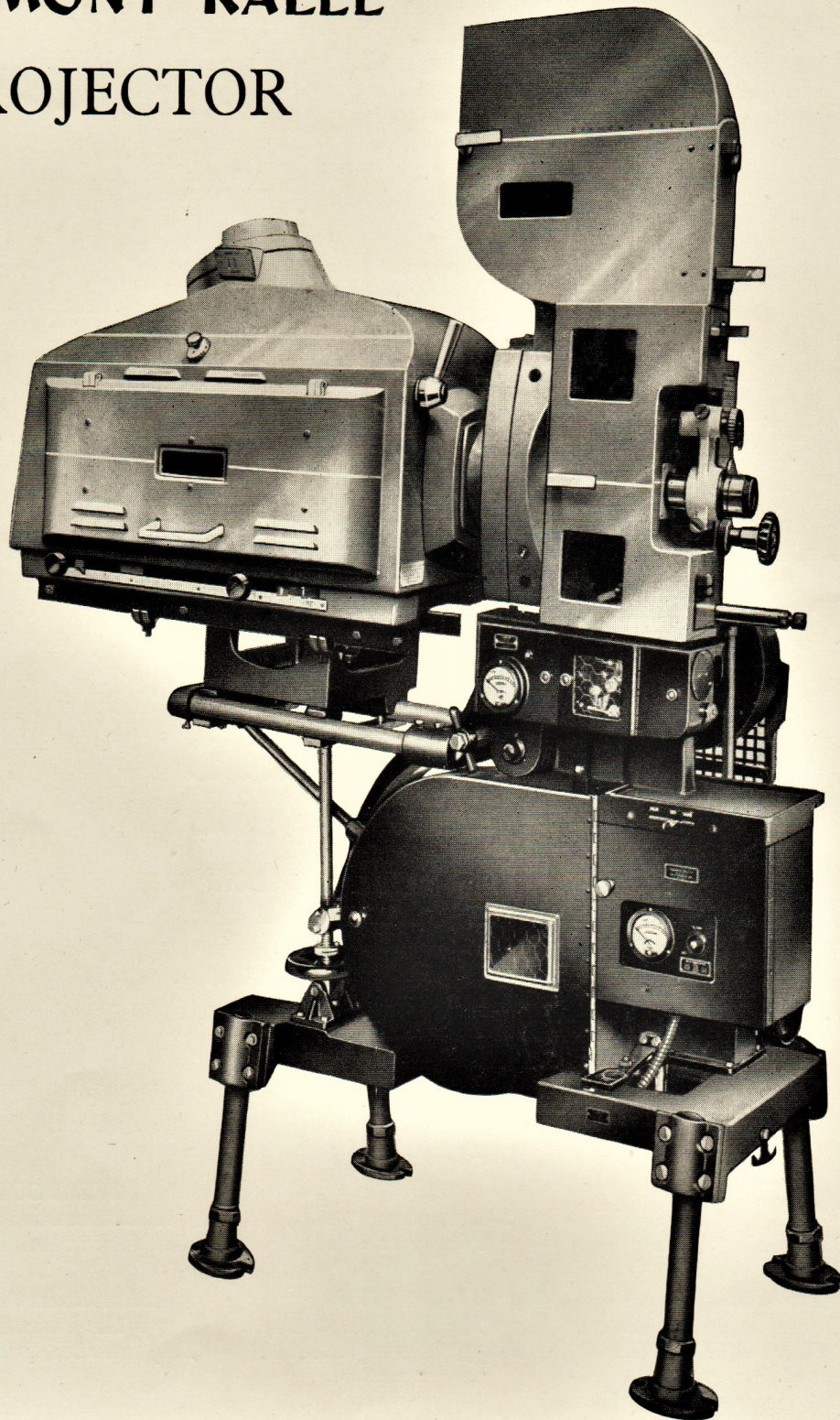
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Everything for the  Cinema and Theatre

GAUMONT-KALEE PROJECTOR



Adapted to the

WESTERN ELECTRIC
UNIVERSAL BASE
SOUND SYSTEM

Illustration shows the
GAUMONT - KALEE
totally enclosed oil bath
Projector with Angular
type Top Spool Box and
President Arc Lamp.

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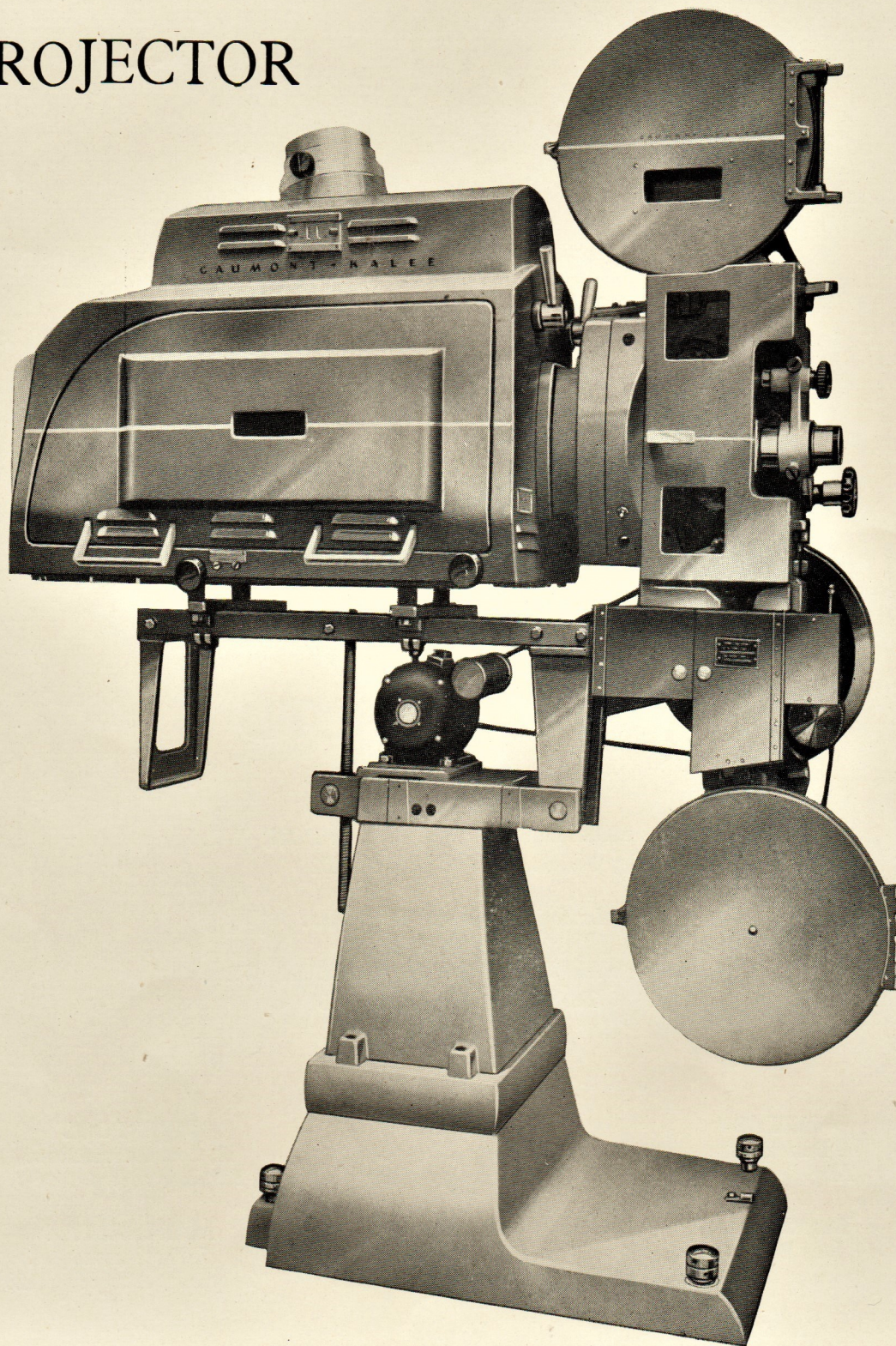
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GAUMONT-KALEE PROJECTOR



Adapted to the
WESTERN ELECTRIC
TYPES 3A & 4A
SOUND SYSTEM

Illustration shows the GAUMONT - KALEE totally enclosed oil bath Projector with Round Type Top and Bottom Spool Boxes, Lightmaster Arc Lamp and Box stand.

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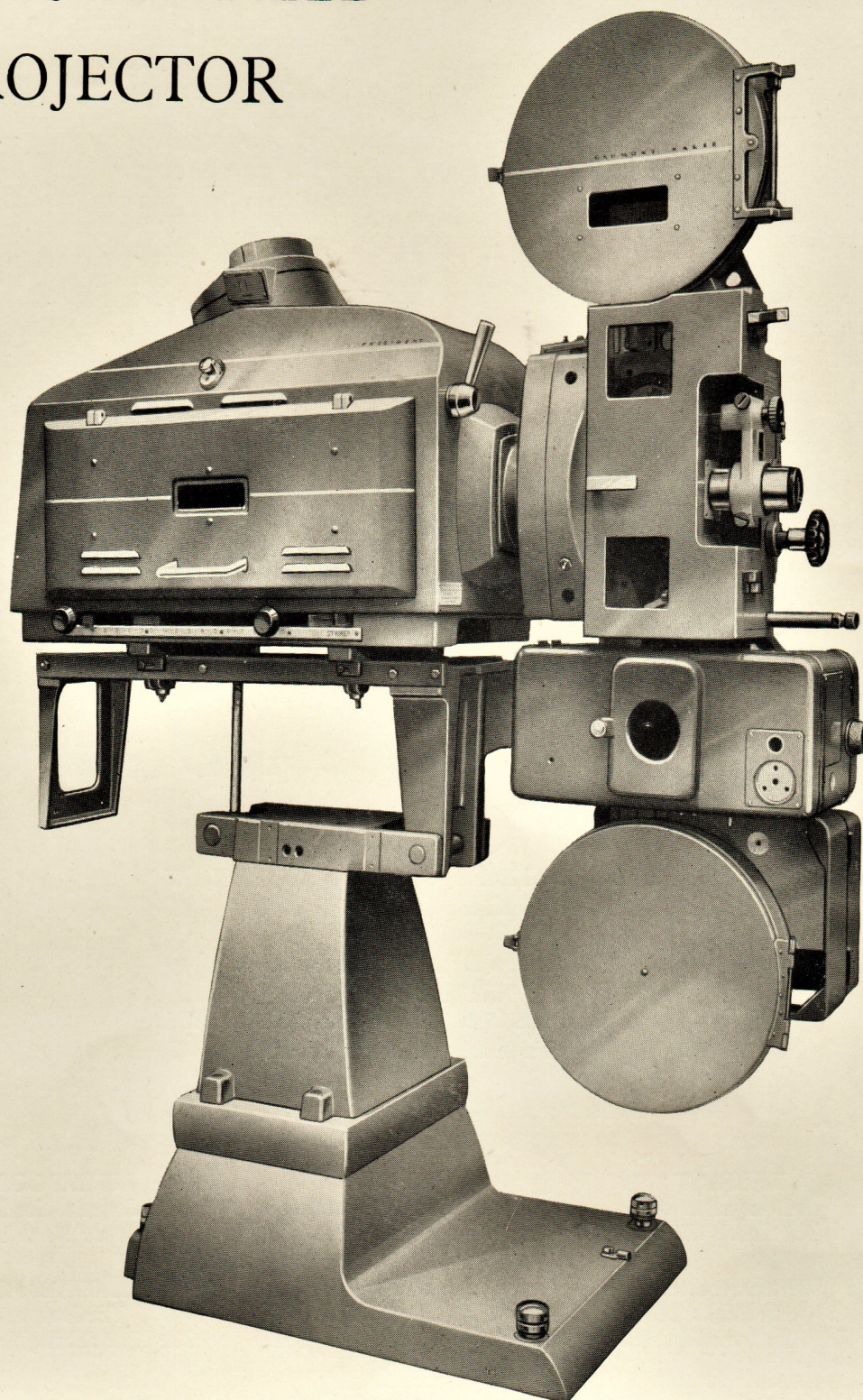
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GAUMONT-KALEE PROJECTOR



Adapted to the
WESTERN ELECTRIC
WESTREX R2002
SOUND SYSTEM

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GAUMONT - KALEE
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Projector with Round
Type Top and Bottom
Spool Boxes, President
Arc Lamp and Box Stand.

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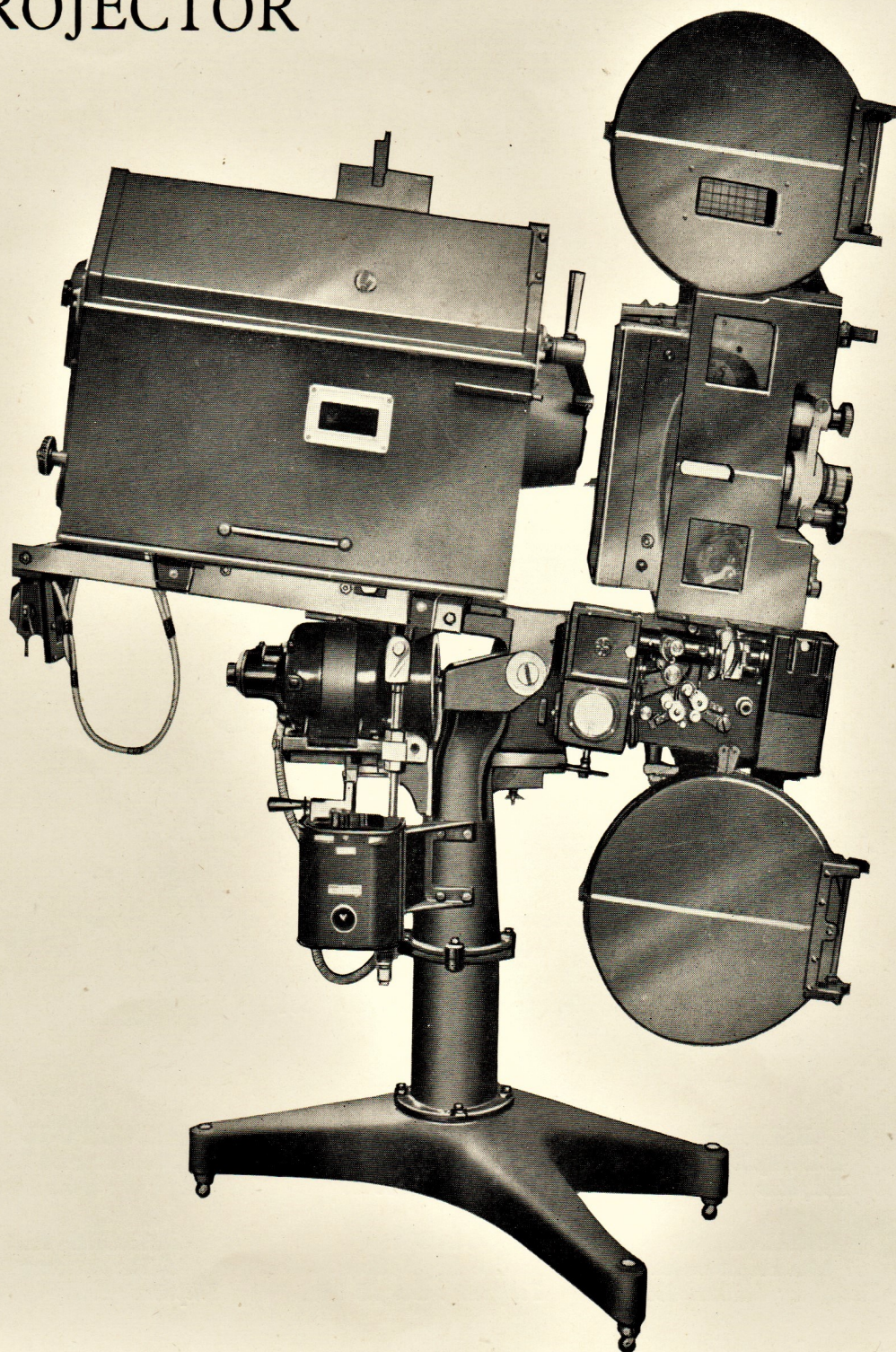
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GAUMONT-KALEE PROJECTOR



Adapted to the
B.T.H. Type "M"
SOUND SYSTEM

Illustration shows the
GAUMONT - KALEE
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Projector with Round
type Top and Bottom
Spool Boxes and Com-
mander Arc Lamp.

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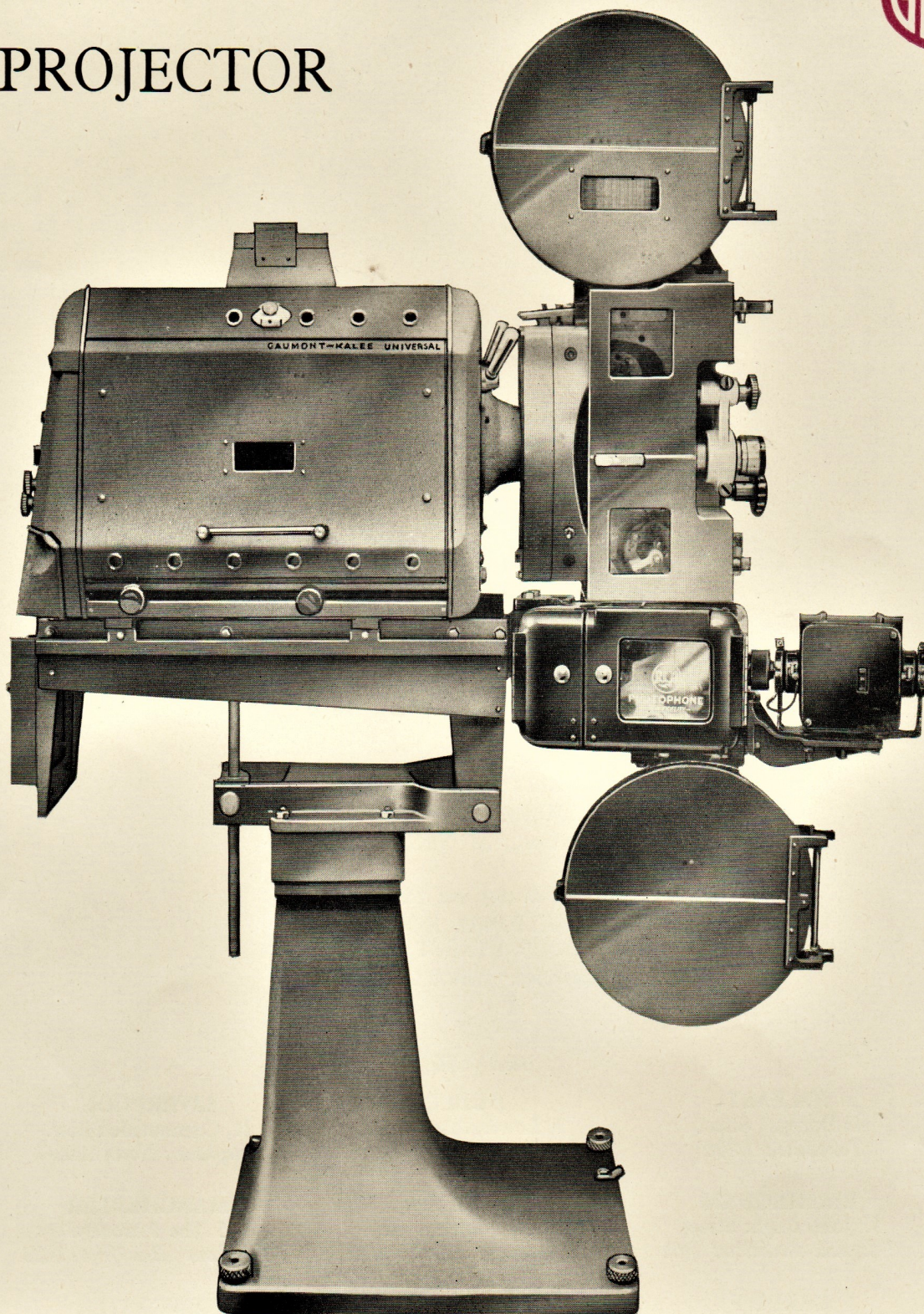
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GAUMONT-KALEE PROJECTOR



Adapted to the

R.C.A., Type 104I
SOUND SYSTEM

Illustration shows the GAUMONT - KALEE totally enclosed oil bath Projector with Round type Top and Bottom Spool Boxes, Universal Arc Lamp and Pedestal Stand.

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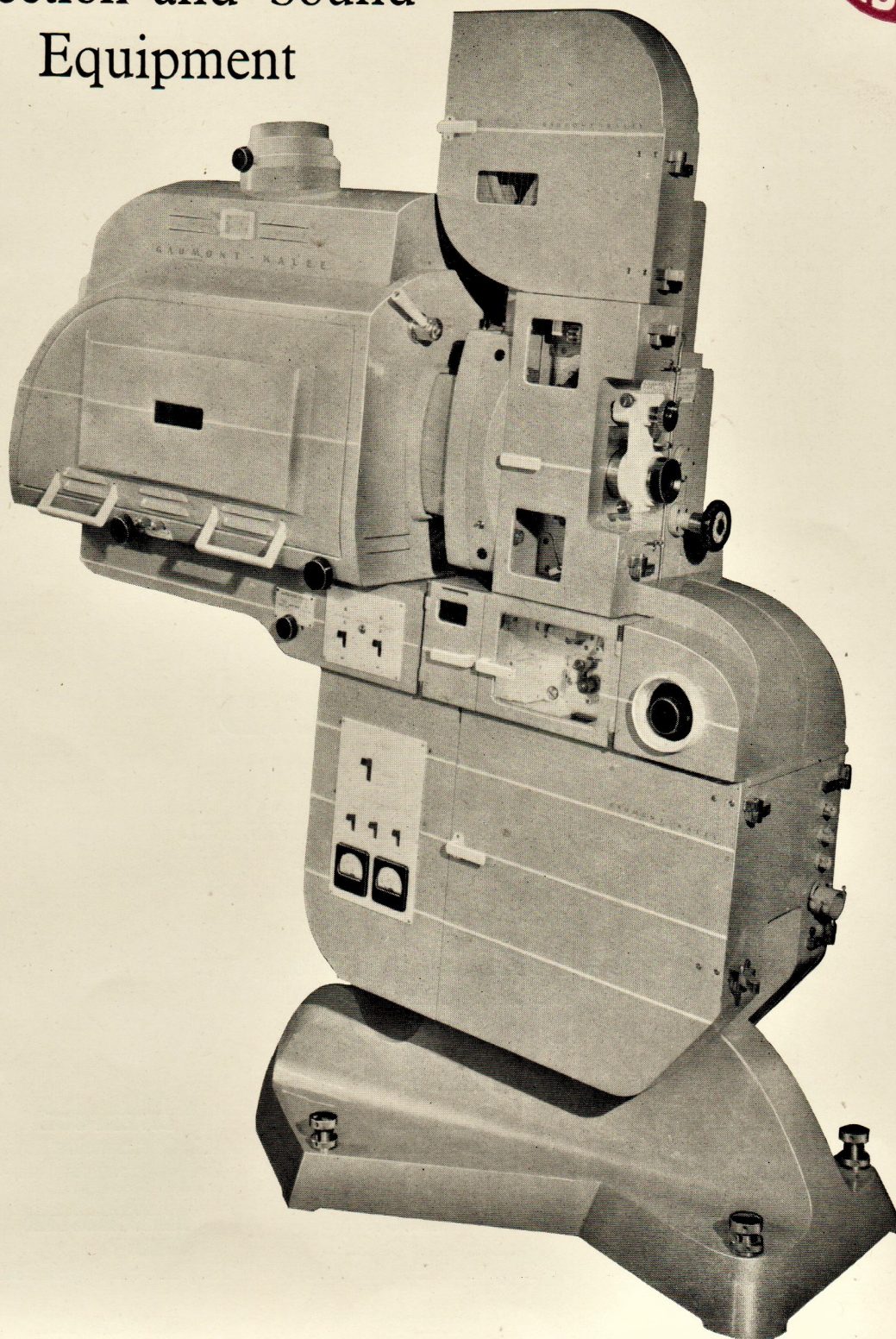
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The
GAUMONT-KALEE '21'
Projection and Sound
Equipment



The Gaumont-Kalee "21" was the first totally enclosed complete Projection and Sound equipment ever to be offered to exhibitors. Not only is it outstanding in its streamlined, graceful and practical design, but it gives a performance and reliability that is far in advance of any other equipment available. The Gaumont-Kalee "21" has made its mark in the theatres of the world, and has raised the standard of British equipment wherever cinemas are found. The massive "Lightmaster" arc lamp employs a 16-in metal-backed mirror.

A 24-page full coloured catalogue and prices are available on request. Attractive allowances for your present equipment. Hire purchase terms over 1, 2 or 3 years arranged if desired.

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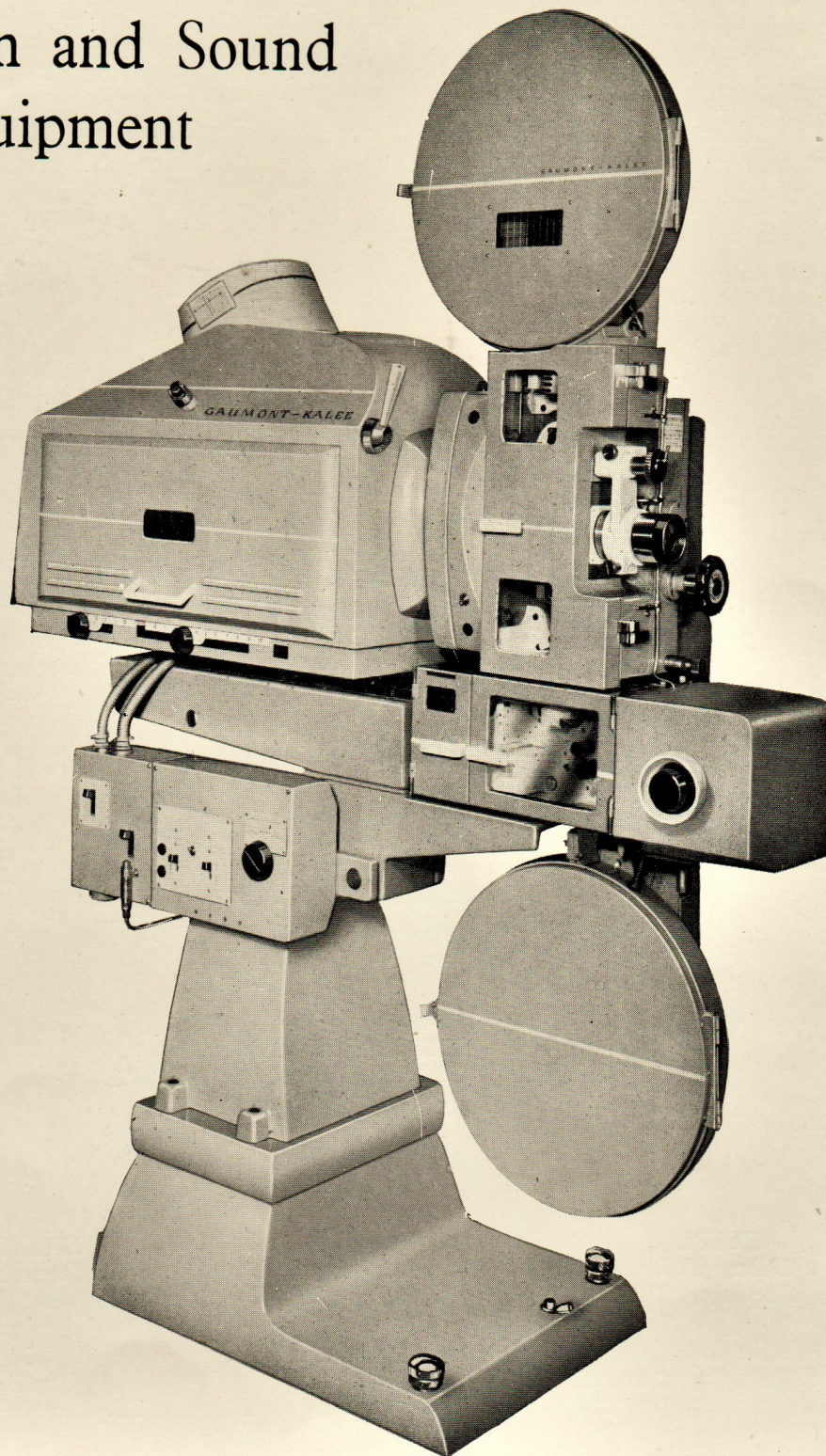
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GAUMONT-KALEE '20'

Projection and Sound Equipment



The Gaumont-Kalee "20" complete Projection and Sound equipment has been designed for Cinemas up to 1400 seats. It provides the same high standard of performance, dependability and accessibility achieved in the famous Gaumont-Kalee "21"—but at a much lower price.

Precision in every detail has been the foundation upon which this new equipment has been evolved. Our long experience in projection and sound equipment design, together with the unrivalled resources of our technical research departments and our manufacturing facilities, have assured highest efficiency with long and trouble-free service.

A fully illustrated catalogue and prices of the Gaumont-Kalee '20' are obtainable on request. Attractive allowances for your present equipment. Hire purchase terms over 1, 2 or 3 years arranged if desired.

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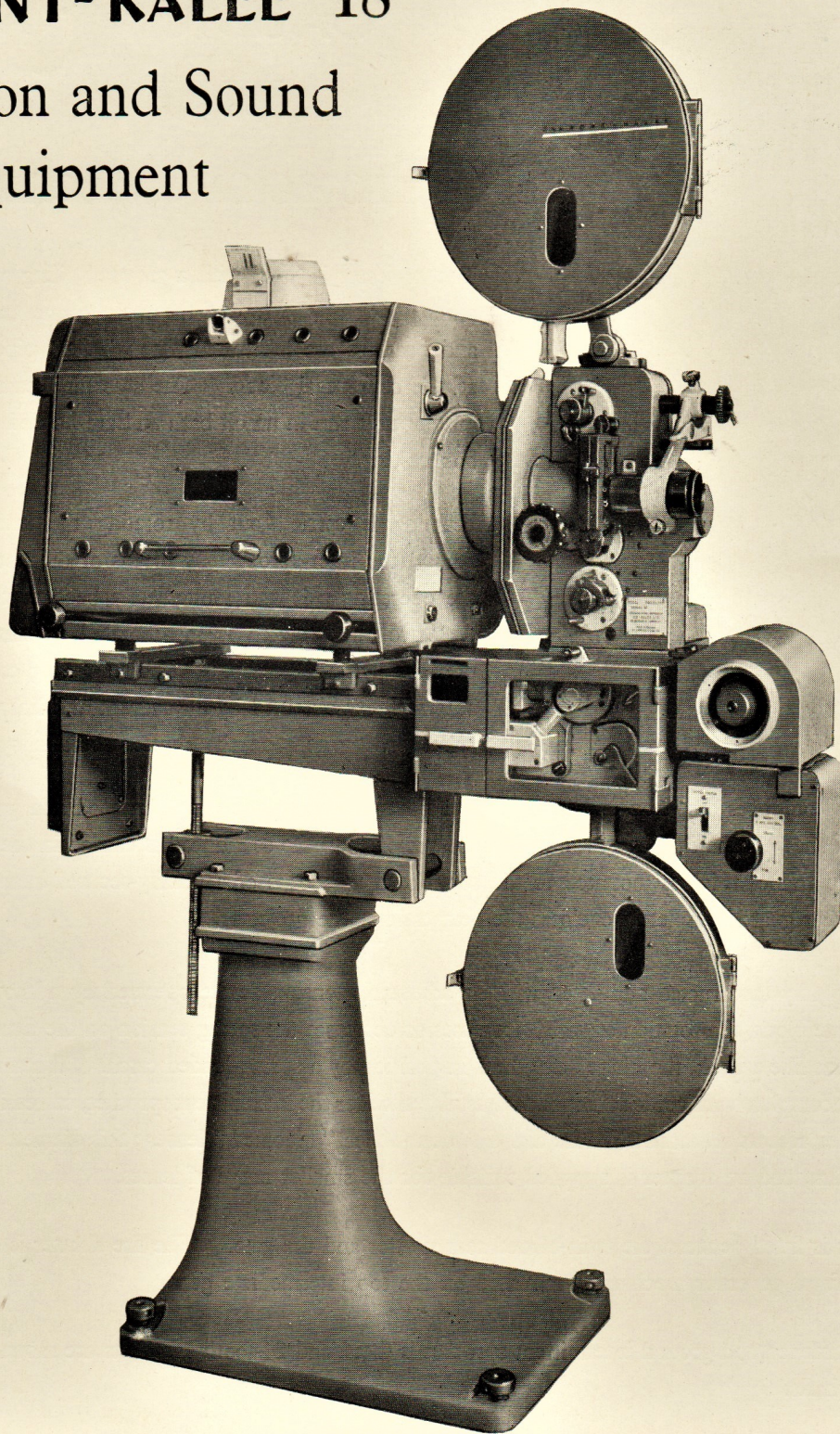
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The
GAUMONT-KALEE '18'
Projection and Sound
Equipment



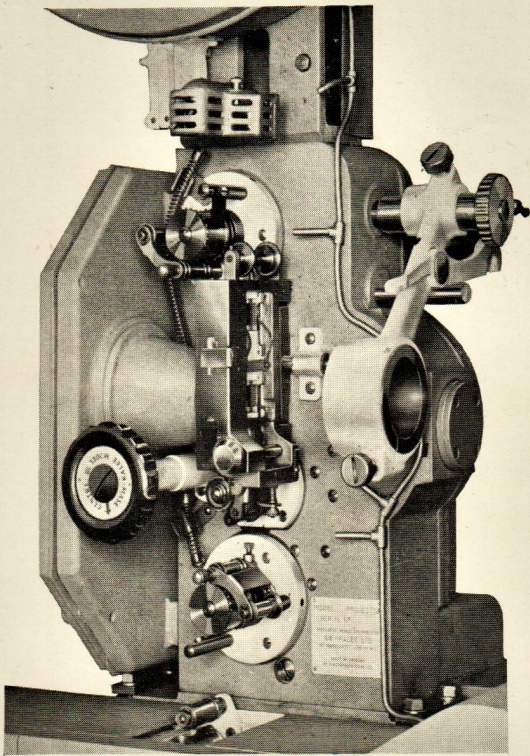
The Gaumont-Kalee "18" *complete* Projection and Sound equipment is of the same high standard of reliability and performance as its larger counterparts, but within a price field that will instantly appeal to even the smallest theatres. It embodies many advancements in design and manufacture ; improvements which make for better picture presentation, and all the economies in maintenance which have made the post-war range of Gaumont-Kalee equipment famous throughout the world.

A fully illustrated catalogue and prices of the Gaumont-Kalee '18' are obtainable on request. Attractive allowances for your present equipment. Hire purchase terms over 1, 2 or 3 years arranged if desired.

The GAUMONT-KALEE

MODEL '18'

Projector Mechanism



The projector is fitted with a grouped oiling system with an oiling block at the top of the main frame and all spindles and bearings are lubricated through feed pipes terminating at this communal block. The 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 in. dia. Gaumont-Kalee "bloomed" lenses; this diameter being clear to 1 in. of the film, and an adapter is supplied suitable for the smaller range of 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. Provision is made for the specially designed 'Pyrene' automatic fire extinguishing equipment as an integral part of the Projector when this optional equipment is ordered.

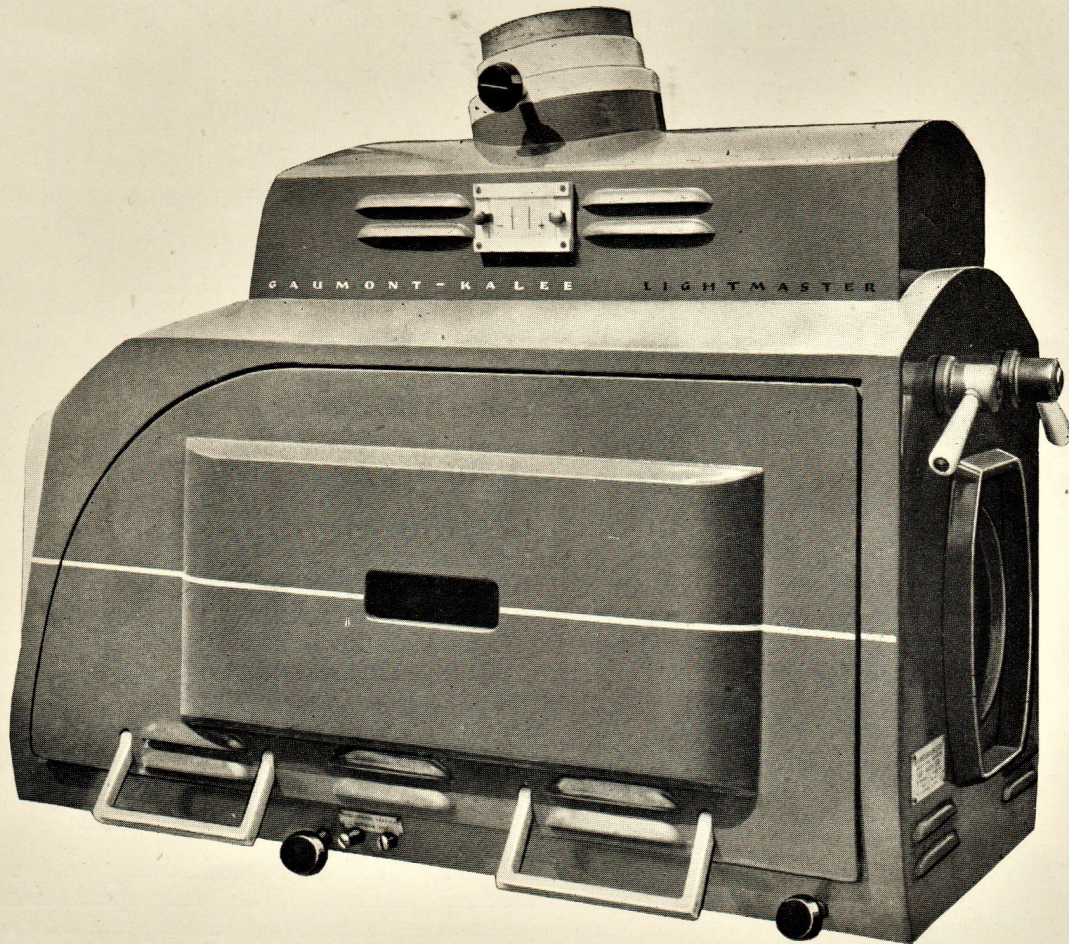


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The GAUMONT-KALEE

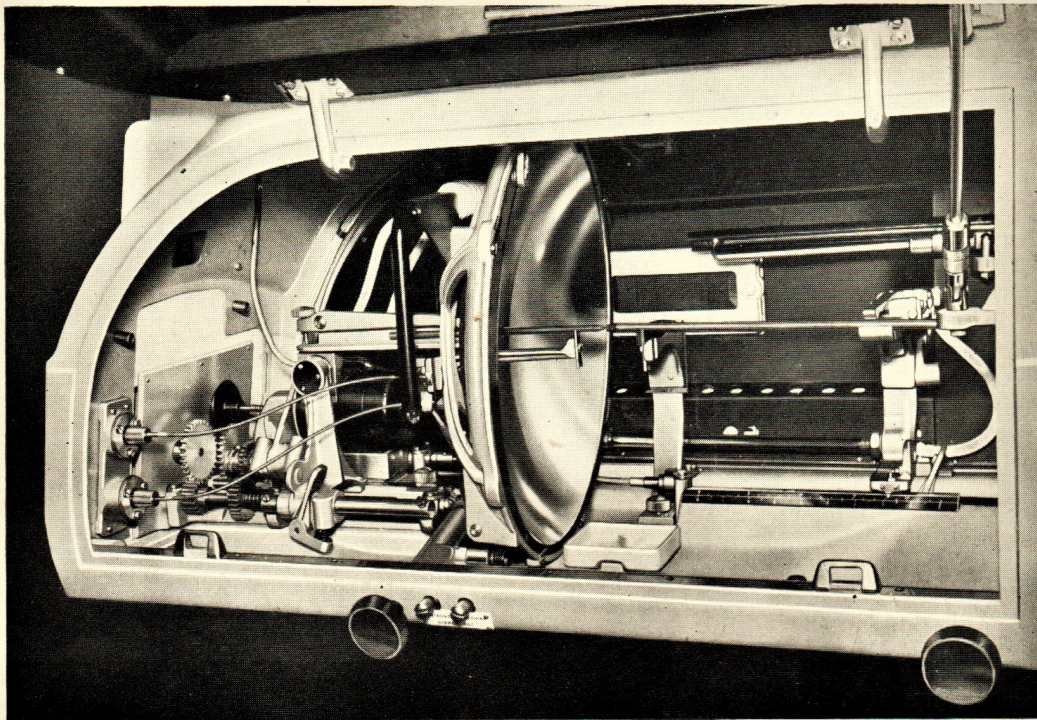
"LIGHTMASTER" Arc Lamp



Highly qualified designers, technicians and engineers with a wealth of unsurpassed experience were teamed to produce the Gaumont-Kalee "Lightmaster" Arc Lamp. It has been acknowledged all over the world as being truly great. Great in both performance and construction. It features a 16" elliptical mirror which gives a greater light output than ever before obtained, yet requires less critical focussing. Any H.I. carbon combination, with a 14" long positive, using up to 60-65 amperes is accommodated. The lamphouse is a rigid one piece streamlined shell with flush fitting doors opening to expose the full length. Every provision has been made for ease of operation and maintenance—push-button arc striker, interior illumination controlled by a door opening switch, and grouped control panel at rear.

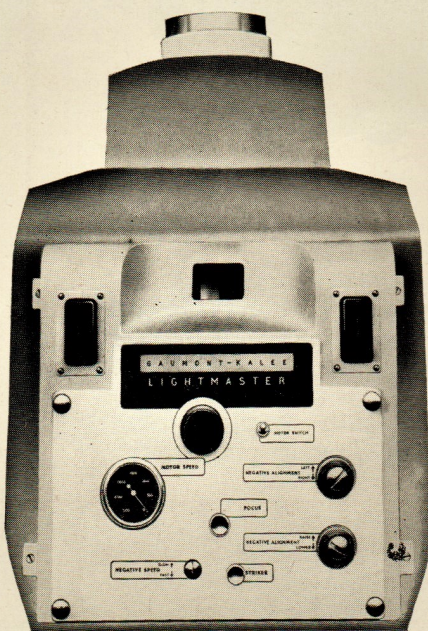
On the operating side of the lamphouse are situated the manual controls, which provide for rapid resetting of both positive and negative carbon carriages, a translucent screen, on which is projected an enlarged arc image by an optical system enclosed within the lamphouse, mirror tilt controls, slotted for coin or screwdriver adjustment, as a precaution against accidental disturbance. The linked dowser and heat resistant mirror screen can be operated from both sides.

Attractive allowances made for your present equipment. If desired hire purchase terms over 1, 2 or 3 years can be arranged.



SPECIFICATION

The Gaumont-Kalee "LIGHTMASTER" High Intensity Arc Lamp complete with 16" diameter elliptical metal backed mirror, motor drive with shaded potentiometer control, push button arc striker, interior illumination controlled by a door opening switch, translucent arc crater screen, energised magnetic flame control fitted in stream-lined lamphouse with control panel at rear, finished light stone, maroon and white; ready for use on D.C. supply.



The CONTROL PANEL

All the controls which are required during projection are conveniently situated. The motor speed control knob is adjacent to the motor switch and speed indicator dial. The lateral adjusting knob for the negative carbon is immediately above the vertical control. Focussing of the arc is obtained by one knob only, and speed of negative feed is adjusted by a control which can be altered by a coin or screwdriver. Cartridge fuses for the motor and interior lighting are situated on either side of the inspection window.

CARBONS

The following "SHIP" carbon combinations, Voltages and Amperages are recommended.

POS.	NEG.	"Suprex"		"Suprexa"	
		Amps	Arc Volts	Amps	Arc Volts
6 mm	5 mm	30-40	32-38	35-45	32-38
7 mm	6 mm	40-50	33-41	45-55	34-41
8 mm	7 mm	50-60	37-43	56-65	38-42

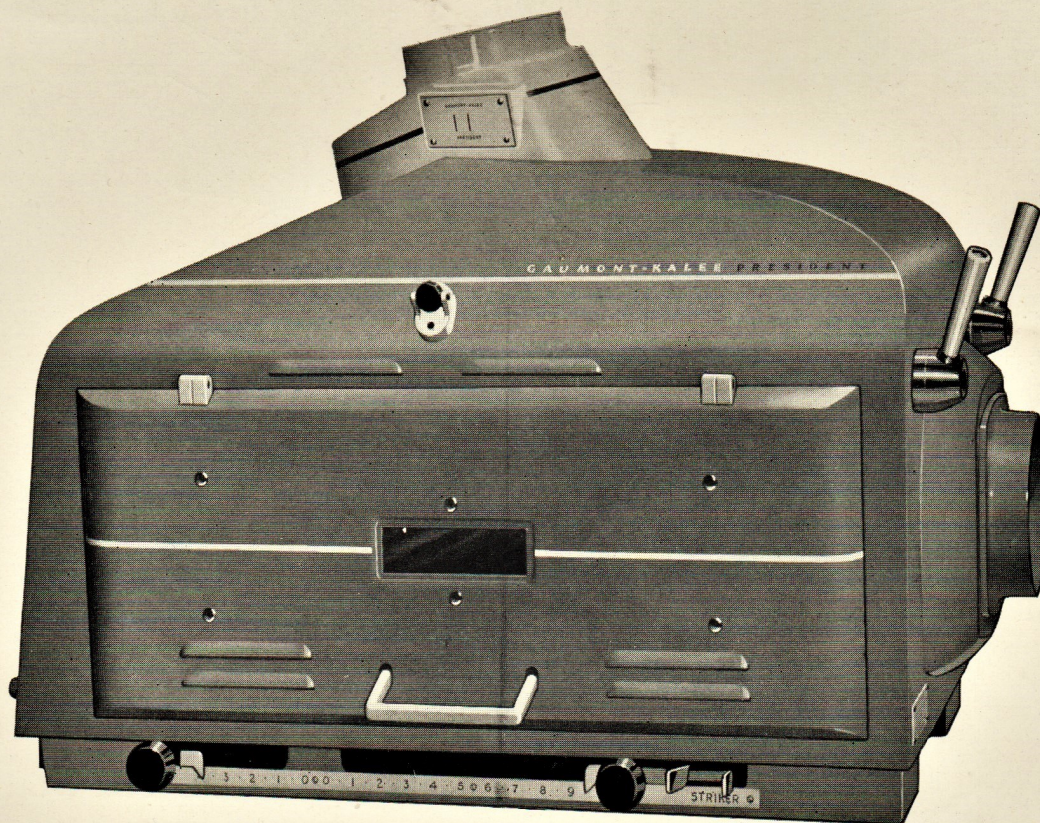


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The GAUMONT-KALEE



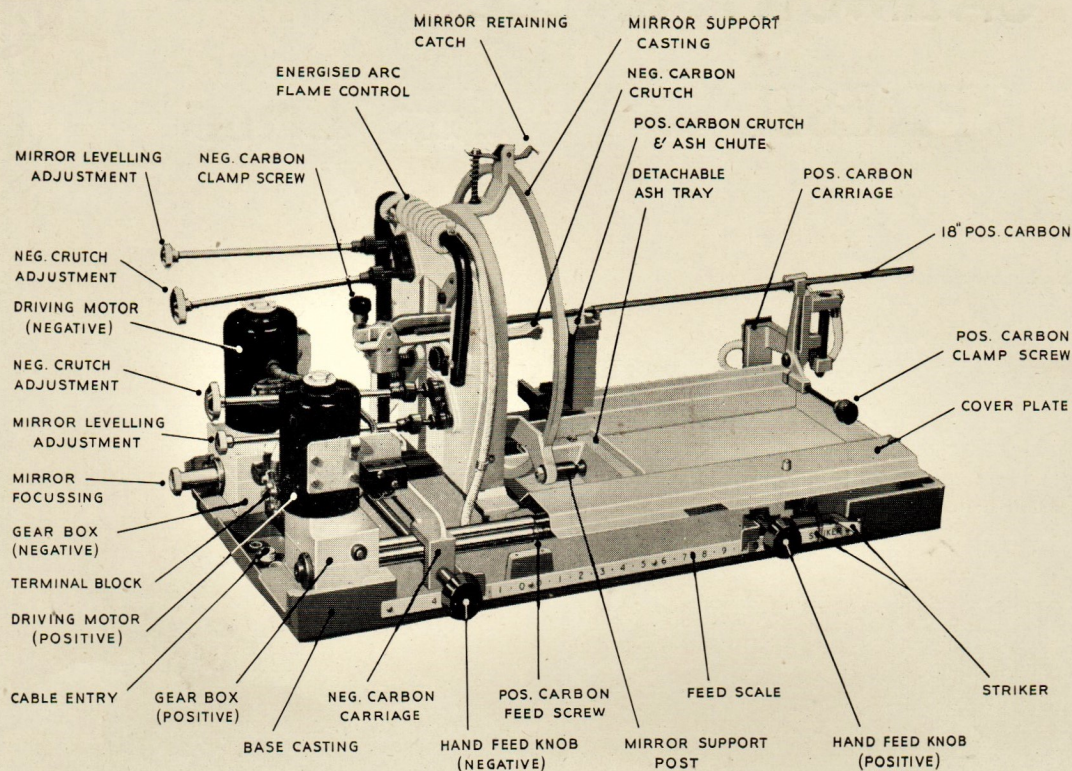
"PRESIDENT" Arc Lamp



The clean cut streamlined 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, between a range of 30-65 amps., is used. Accommodates up to 18" positive carbon. Every detail has been appropriately designed and tested—even to the lamphouse chimney which is tilted at 15° to allow for easy connection of vents at all operating rakes. This care of detail combined with precision manufacture, simplicity of operation, and adequate cleaning facilities, ensures many years of trouble-free service.

On each side the lamphouse doors open to their full width and height for easy access to 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 on a conveniently placed screen. The linked dowser and mirror screen can be operated from both sides.

Attractive allowances made for your present equipment. If desired hire purchase terms over 1, 2 or 3 years can be arranged.

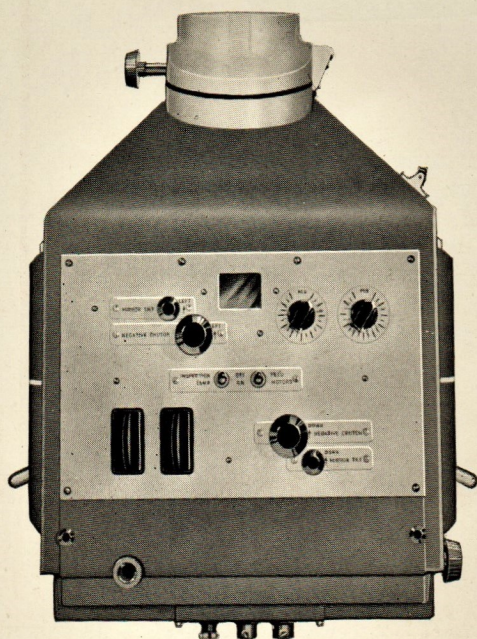


SPECIFICATION

The Gaumont-Kalee "PRESIDENT" High Intensity Arc Lamp complete with 14" diameter elliptical metal backed mirror, twin motor drive, potentiometer controls, external carbon scale, scissor type striker, flame control, interior inspection lamp, arc periscope fitted in stream-lined lamphouse with control panel at rear, and finished in light stone, maroon and white; ready for use on D.C. supply.

The CONTROL PANEL

The negative crutch and mirror tilt controls are conveniently situated and the different sizes of the knobs make them easily distinguishable. The mirror focusing 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.



CARBONS

The following "SHIP" carbon combinations, Voltages and Amperages are recommended.

POS.	NEG.	"Suprex"		"Suprema"	
		Amps	Arc Volts	Amps	Arc Volts
6 mm	5 mm	30-40	32-38	35-45	32-38
7 mm	6 mm	40-50	33-41	45-55	34-41
8 mm	7 mm	50-60	37-43	56-65	38-42

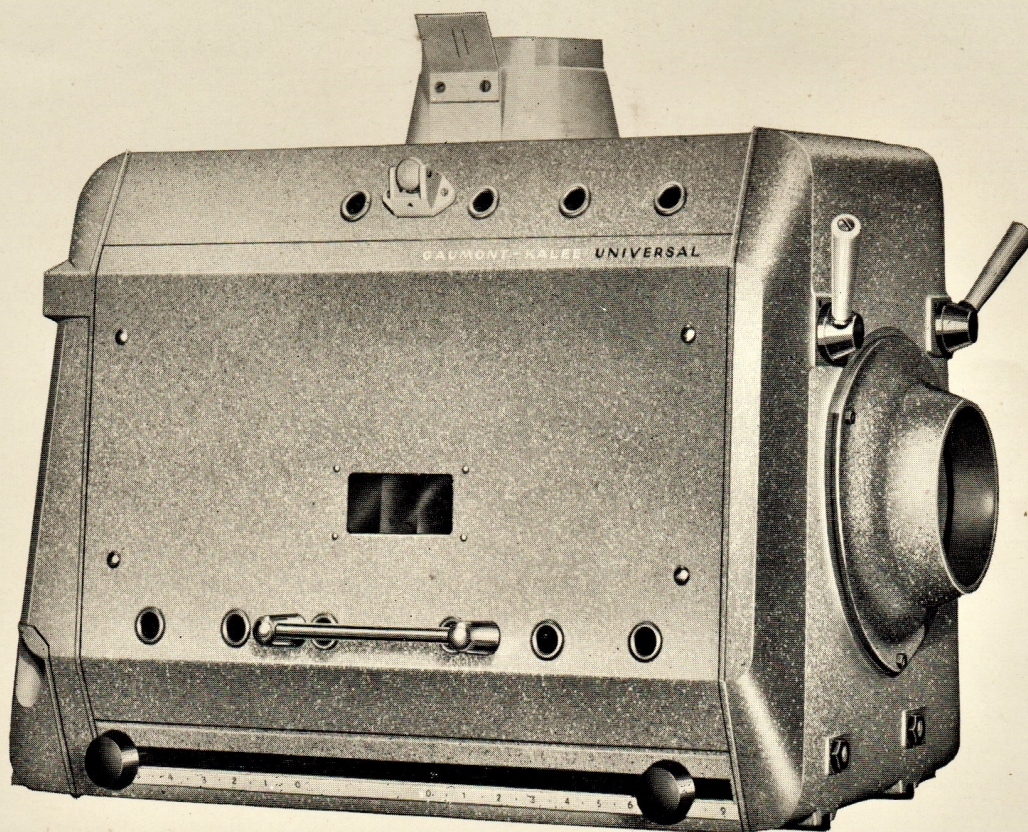


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The **GAUMONT-KALEE**



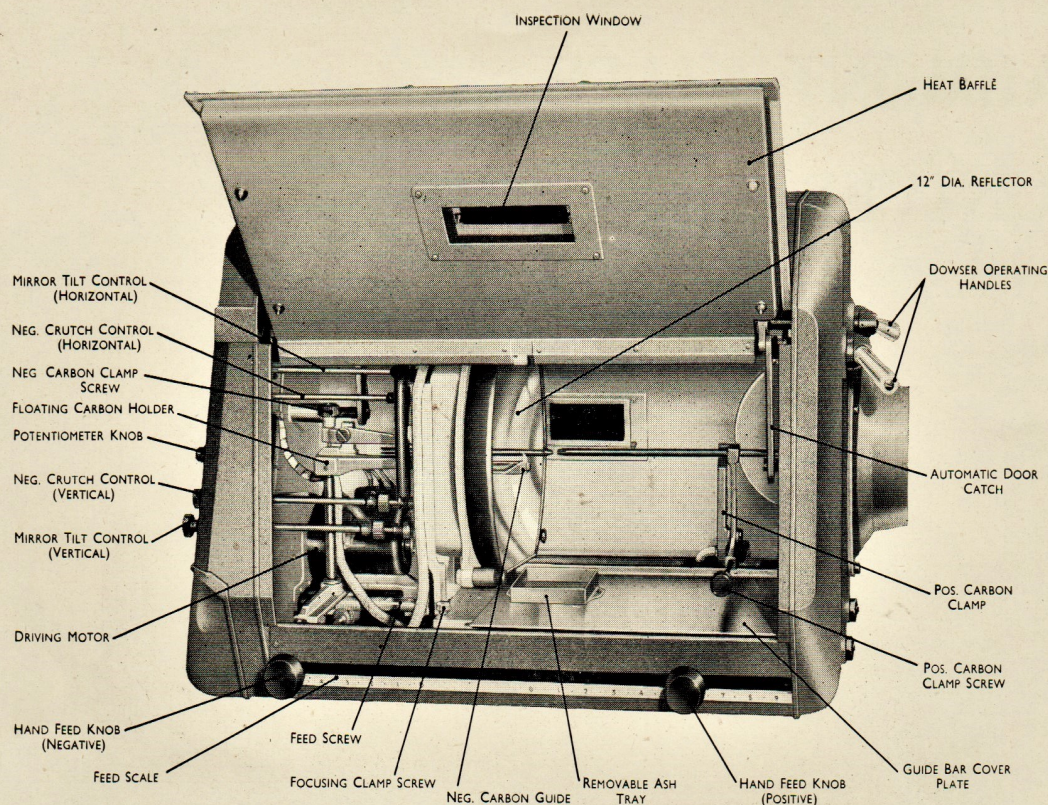
"UNIVERSAL" Arc Lamp



This modern Gaumont-Kalee arc lamp, with automatic feed and 12" 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" elliptical mirror of optimum collection angle assures high optical efficiency. Economy in carbon consumption is made possible through the lamphouse being designed to accommodate a 14" positive carbon with a 9" feed.

On each side the large full opening doors permit easy access to the interior. On the operating side is 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 dowsers and mirror screen can be operated from both sides.

Attractive allowances made for your present equipment. If desired hire purchase terms over 1, 2 or 3 years can be arranged.



SPECIFICATION

The Gaumont-Kalee "UNIVERSAL" Arc Lamp with motor drive, 12" 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 to be used for H.I., A.C., or L.I. carbons, so that the correct gears are fitted.

CARBONS

The following "SHIP" Carbon Combinations, Voltages and Amperages are recommended.

HIGH INTENSITY

	POS.	NEG.	Amps	Arc Volts
Ship SUPREX	6 mm	5 mm	30-40	32-38
	7 mm	6 mm	40-50	33-41
	8 mm	7 mm	50-60	37-43
Ship SUPREXA	6 mm	5 mm	35-45	32-38
	7 mm	6 mm	45-55	34-41
	8 mm	7 mm	56-65	38-42

LOW INTENSITY

	POS.	NEG.	Amps	Arc Volts
Ship LUXO	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

	POS.	NEG.	Amps	Arc Volts
Ship Alternalex	7 mm	7 mm	65-75	25-26
	8 mm	8 mm	80-90	25-26
	9 mm	9 mm	95-105	26-28



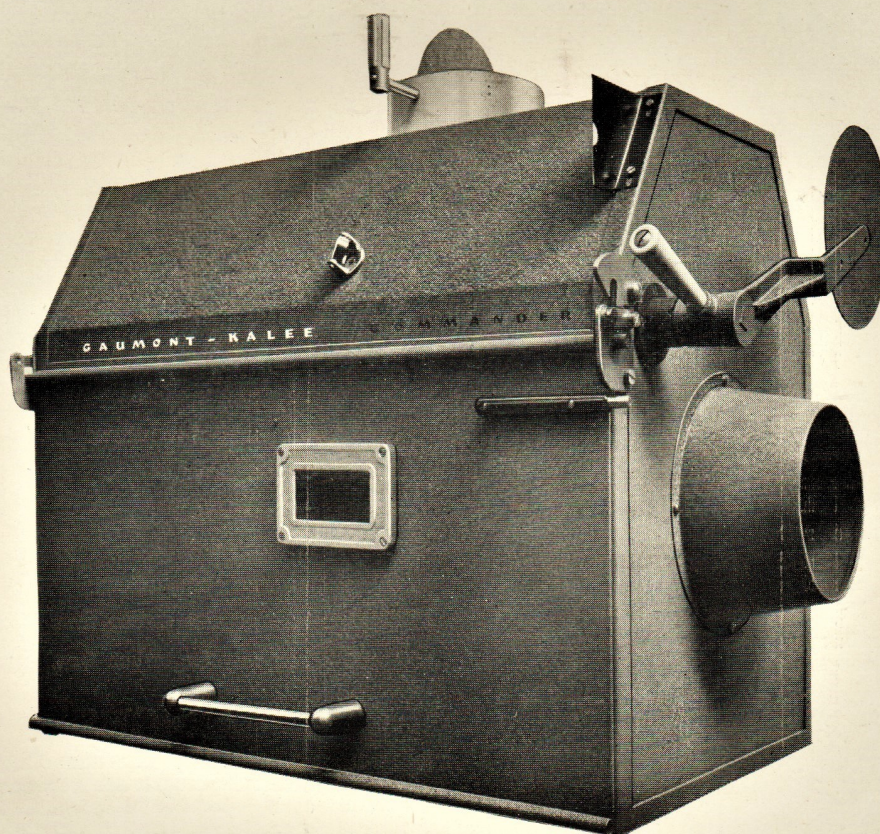
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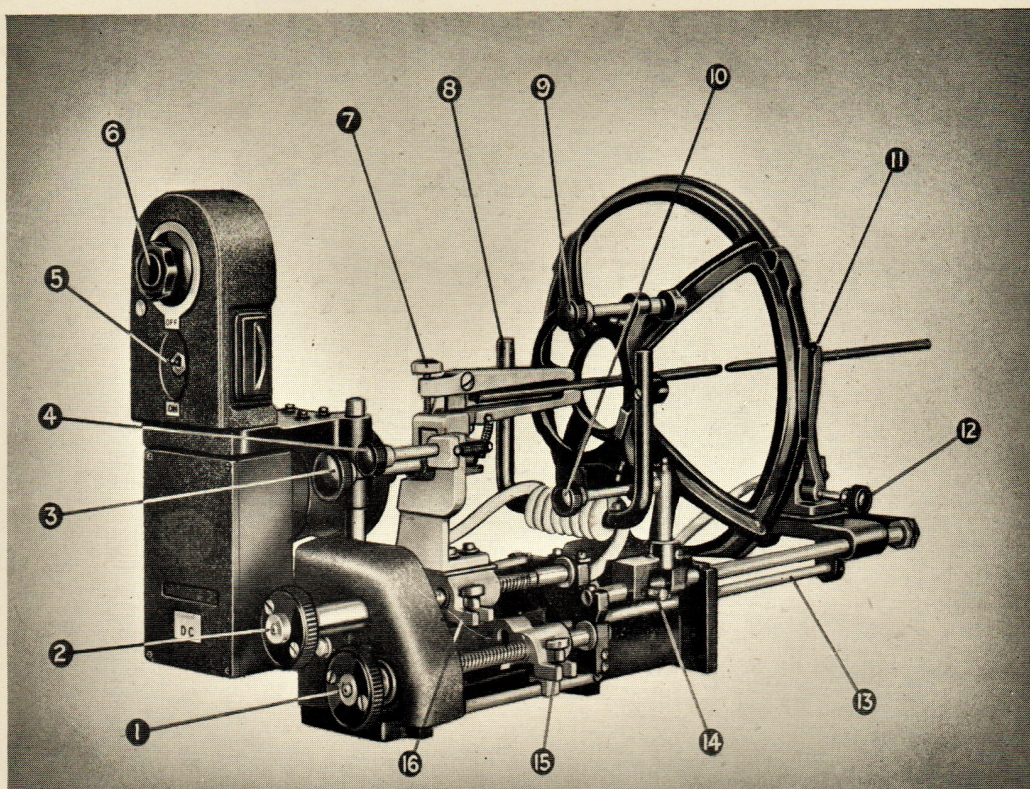
The **GAUMONT-KALEE**
"COMMANDER" Arc Lamp



A sturdy efficient arc lamp fitted with a 12" elliptical metal backed mirror, and embodying refinements normally included in more expensive models. It can be supplied for use with either High Intensity D.C./A.C., or Low Intensity 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" positive carbon.

Large full opening doors each side of the lamphouse permit easy access to all parts of the arc lamp for cleaning and maintenance. Automatic catches ensure safe locking when open. The linked mirror screen and dowsers can be operated from either side and on the operating side is fitted a periscope which projects the arc image on to a screen situated at the front of the lamphouse.

Attractive allowances made for your present equipment. If desired hire purchase terms over 1, 2 or 3 years can be arranged.



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

CARBONS

The following "SHIP" Carbon Combinations, Voltages and Amperages are recommended.

TYPE	POS.	NEG.	Amps	Arc Volts
SUPREX H.I.	6 mm	5 mm	30-40	32-38
	7 mm	6 mm	40-50	33-41
	8 mm	7 mm	50-60	37-43
SUPREXA H.I.	6 mm	5 mm	35-45	32-38
	7 mm	6 mm	45-55	34-41
	8 mm	7 mm	56-65	38-42
Alternalux A.C.	7 mm	7 mm	65-75	25-26
	8 mm	8 mm	80-90	25-26
	9 mm	9 mm	95-105	26-28
Ship LUXO L.I.	10 mm	7 mm	15-20	45-50
	11 mm	8 mm	20-25	48-52
	12mm	9 mm	25-30	48-52
	13 mm	9 mm	30-35	48-52
	14 mm	10 mm	35-40	50-55

SPECIFICATION

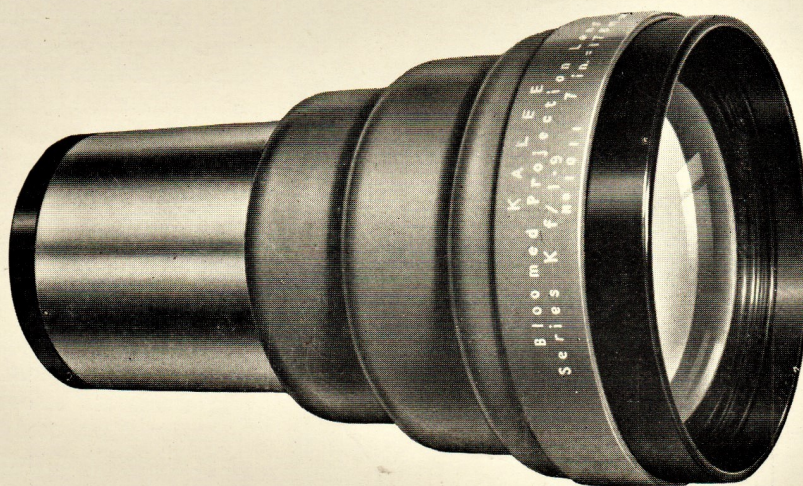
The Gaumont-Kalee "COMMANDER" Arc Lamp complete with 12" elliptical metal backed mirror, magnetic flame control and arc periscope in steel lamphouse finished light stone.

Supplied either for hand feed or with motor and "shaded" potentiometer for automatic feed.

N.B.—When ordering it must be stated whether the arc lamp is for use with A.C., H.I., or L.I. carbons so that the correct gears are fitted.



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GAUMONT-KALEE

“Bloomed” and Colour Corrected

PROJECTION LENSES

The Gaumont-Kalee Series “H” and “K” projection lenses have been computed by expert mathematicians, and embody the constant f value optical principle to provide maximum screen illumination irrespective of the focal length.

The lens surfaces are coated with a refractive medium, known as “blooming,” to increase light transmission and improve image contrast. This technique normally affects the colour of the light, but a special process has been developed by the Gaumont-Kalee scientists to obtain colour correction, thus providing a whiter and more brilliant light.

This process is patented, and exclusive to Gaumont-Kalee projection lenses.

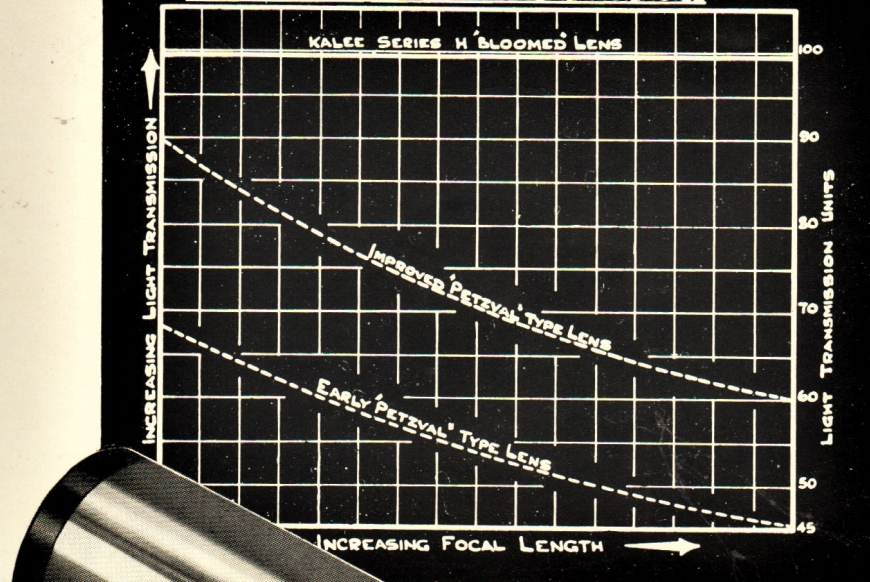
The lens surfaces are ground and polished to an accuracy of a few millionths of an inch. Special machinery and instruments were designed by experts skilled in modern methods of optical theory, production and testing, to ensure that every Gaumont-Kalee lens is perfect, and the finest that can be manufactured.

GAUMONT-KALEE
colour corrected
“BLOOMED”
LENSES

COLOUR CORRECTED
for Whiter Light

“BLOOMED”
for More Light

COMPARATIVE PROJECTION LENS EFFICIENCIES



CONSTANT f VALUE

The whole range of Gaumont-Kalee projection lenses possess a constant f value. This means that each lens, whatever its focal length, passes the same maximum amount of light to the screen as is graphically illustrated by the straight line on the chart. This feature has been achieved by making the diameter of the lenses increase in direct proportion to the focal lengths.

The chart also shows the considerable gain of light obtained by Gaumont-Kalee lenses.

A short back focus allows the fixing of the lens close to the film gate, and so collect the maximum amount of light—a vital necessity when used in conjunction with large diameter mirrors.

SERIES "H" $f2.2$

Gaumont-Kalee colour corrected "Bloomed" Lens. Constant f value over entire range. Focal length 3" advancing by $\frac{1}{4}$ " to 7". For standard lens holder 2.06" diameter. each £23 0 0

SERIES "K" $f1.9$

Gaumont-Kalee colour corrected "Bloomed" Lens. Constant f value over entire range. Focal length 4" advancing by $\frac{1}{4}$ " to 7". For standard lens holder 2.778" diameter. each £23 0 0

SELECTION of CORRECT FOCAL LENGTH

The focal length of the lens governs the size of the picture projected on the screen; the longer the focal length the smaller the picture. The projection chart (below) has been calculated for cinematograph projection lenses assuming a gate mask of .825" x .600" commonly used with sound-on-film systems.

Accurate selection may be made by using the formula shown in the next column.

D = distance from lens to screen (in feet).

P = width of picture (in feet).

M = width of mask (in inches).

F = focal length of projection lens (in inches).

Example for use of the formula :

To find the focal length of the projection lens necessary to project a picture 23 ft. wide at 120 ft. throw :

$$F = \frac{D \times M}{P} : F = \frac{120 \times .825}{23}$$

therefore $F = 4\frac{1}{4}$ "

PROJECTION TABLE FOR CINEMATOGRAPH LENSES

Showing width of Screen Picture at different distances with lenses of different focal lengths. The height of the picture is approximately $\frac{3}{4}$ of the width. "TALKIE" Mask aperture 0.825" wide.

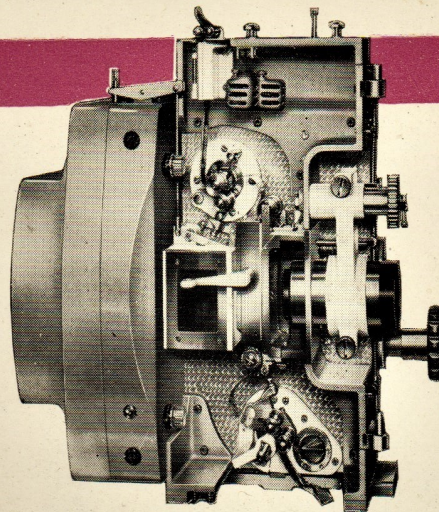
FOCUS OF LENS IN INCHES

Distance Lens to Screen. Feet.	3 in.	3 $\frac{1}{4}$ in.	3 $\frac{1}{2}$ in.	3 $\frac{3}{4}$ in.	4 in.	4 $\frac{1}{4}$ in.	4 $\frac{1}{2}$ in.	4 $\frac{3}{4}$ in.	5 in.	5 $\frac{1}{4}$ in.	5 $\frac{1}{2}$ in.	5 $\frac{3}{4}$ in.	6 in.	6 $\frac{1}{4}$ in.	6 $\frac{1}{2}$ in.	6 $\frac{3}{4}$ in.	7 in.
20	5 5	5 0	4 7	4 3	4 0	3 9	3 7	3 4	3 2	3 0	—	—	—	—	—	—	—
25	6 9	6 3	5 9	5 5	5 1	4 9	4 6	4 3	4 0	3 10	3 8	3 6	3 4	3 2	3 1	—	—
30	8 2	7 6	7 0	6 6	6 1	5 9	5 5	5 1	4 10	4 7	4 5	4 2	4 0	3 10	3 8	3 7	3 5
35	9 6	8 9	8 2	7 7	7 1	6 8	6 4	6 0	5 8	5 5	5 2	4 11	4 8	4 6	4 4	4 2	4 0
40	10 11	10 1	9 4	8 8	8 2	7 8	7 3	6 10	6 6	6 2	5 11	5 8	5 5	5 2	5 0	4 9	4 7
45	12 3	11 4	10 6	9 9	9 2	8 7	8 2	7 8	7 4	7 0	6 8	6 4	6 1	5 10	5 7	5 5	5 2
50	13 8	12 7	11 8	10 11	10 2	9 7	9 1	8 7	8 2	7 9	7 5	7 1	6 9	6 6	6 3	6 0	5 9
55	15 0	13 10	12 10	10 12	0 11	3 10	7 10	0 9	5 9	0 8	6 8	2 7	9 7	5 7	2 6	10 6	7 6
60	16 5	15 1	14 0	13 1	12 3	11 6	10 11	10 4	9 9	9 4	8 11	8 6	8 2	7 10	7 6	7 3	7 0
65	17 9	16 5	15 3	14 2	13 4	12 6	11 10	11 2	10 7	10 1	9 8	9 3	8 10	8 6	8 2	7 10	7 7
70	19 2	17 8	16 5	15 3	14 3	13 6	12 9	12 1	11 5	10 10	10 5	9 11	9 6	9 2	8 9	8 5	8 2
75	20 6	18 1	17 7	16 5	15 4	14 5	13 8	12 11	12 3	11 8	11 2	10 8	10 2	9 9	9 5	9 1	8 9
80	21 1	19 2	18 9	17 6	16 5	15 4	14 7	13 9	13 1	12 6	11 11	11 4	10 11	10 5	10 1	9 8	9 4
85	23 3	21 6	19 11	18 7	17 5	16 5	15 6	14 8	13 11	13 3	12 8	12 1	11 7	11 0	10 8	10 3	9 11
90	24 8	22 9	21 1	19 8	18 5	17 4	16 5	15 6	14 9	14 0	13 5	12 10	12 3	11 9	11 4	10 10	9 6
95	26 0	24 2	22 3	20 9	19 6	18 4	17 4	16 5	15 7	14 10	14 2	13 6	12 11	12 5	11 11	11 6	11 1
100	27 5	25 3	23 6	22 1	20 6	19 3	18 3	17 3	16 5	15 7	14 11	14 3	13 8	13 1	12 7	12 1	11 8
105	28 9	26 7	24 8	23 2	21 7	20 3	19 2	18 2	17 2	16 5	15 8	14 11	14 4	13 9	13 3	12 9	12 3
110	30 2	27 10	25 10	23 4	21 9	20 4	19 3	18 3	17 3	16 5	15 8	14 15	14 5	13 10	13 4	12 10	12 4
115	31 6	28 1	26 2	24 5	22 9	21 4	20 3	19 3	18 3	17 3	16 5	15 8	14 15	14 5	13 11	13 5	12 9
120	32 1	29 4	27 4	25 8	24 2	22 6	21 5	20 4	19 3	18 3	17 3	16 5	15 8	14 15	14 5	13 11	12 9
125	34 3	31 7	29 7	27 1	25 5	23 9	22 8	21 7	20 6	19 5	18 4	17 3	16 5	15 8	14 15	14 5	13 11
130	35 8	32 11	30 11	28 5	26 9	25 3	24 2	23 1	22 0	20 9	19 8	18 7	17 6	16 5	15 8	14 15	13 11
135	37 0	34 2	32 2	29 6	27 10	25 4	24 3	23 2	22 1	21 0	20 9	19 8	18 7	17 6	16 5	15 8	14 15
140	38 5	35 5	33 5	30 9	28 13	26 7	25 6	24 5	23 4	22 3	21 2	20 1	19 0	18 9	17 8	16 7	15 5
145	39 9	36 8	34 8	31 13	29 17	27 11	26 10	25 9	24 8	23 7	22 6	21 5	20 4	19 3	18 2	17 1	16 0
150	41 2	38 0	36 0	33 2	31 6	29 10	28 9	27 8	26 7	25 6	24 5	23 4	22 3	21 2	20 1	19 0	17 8

Width of Picture

PRICE LIST

Illustration shows the Projector mechanism with door cover removed



IMPORTANT : Attractive allowances will be made for your existing equipment. If desired, hire purchase terms over 1, 2 or 3 years can be arranged.

ONE GAUMONT-KALEE
Projector complete with circular type Top Spool Box and all the necessary Adaptation Gearing for use with the following Sound Systems.

	Gaumont-Kalee '18'			Gaumont-Kalee '19'			Gaumont-Kalee '20'			Gaumont-Kalee '21'		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
WESTERN ELECTRIC												
W.E. Universal Base	179	10	0	230	0	0	246	0	0	256	0	0
W.E. 3A and 4A	172	9	6	222	19	6	238	19	6	248	19	6
Westrex R2002	180	0	0	230	10	0	246	10	0	256	10	0
Westrex R2003	167	0	0	217	10	0	233	10	0	243	10	0
R. C. A.												
1041, 1051, 9001	164	0	0	214	10	0	230	10	0	240	10	0
9031	171	0	0	221	10	0	237	10	0	247	10	0
PS 20 ("H" type)	169	0	0	219	10	0	235	10	0	245	10	0
PS 22 ("J" type)	167	0	0	217	10	0	233	10	0	243	10	0
PS 24	168	0	0	218	10	0	234	10	0	244	10	0
B.T.H.												
Type M	179	0	0	229	10	0	245	10	0	255	10	0
Type R.M.	175	0	0	225	10	0	241	10	0	251	10	0
B.A.												
Type G 2 and G 3	181	15	0	232	5	0	248	5	0	258	5	0
B.T.P.												
Belt Drive.....	192	0	0	242	10	0	258	10	0	268	10	0
Gear Drive	197	0	0	247	10	0	263	10	0	273	10	0
Angular type TOP SPOOL BOX can be supplied with the GAUMONT-KALEE "21" Projector at £15 0 0 extra.												

There is a GAUMONT-KALEE PROJECTOR to fit any type of sound equipment

STANDS

In most cases a cinema's existing stands and bottom spool boxes can be utilised with the new GAUMONT-KALEE Projectors, but where it is desired to modernise the Projection Booth the following are recommended.

BOX TYPE Mark II for use with all types and makes of Sound Systems. Special heavy cast iron base with column to suit existing sound installation, and lamphouse rails for all makes of Arc Lamps	£70	10	0
If fitted with main arc switch only, <i>extra</i>	£8	5	0
If fitted with main arc switch, three selector switches high grade moving coil ammeter and voltmeter, voltmeter fuses etc. <i>extra</i>	£23	5	0
PEDESTAL TYPE Mark II for use with all types and makes of Sound Systems. Special heavy cast iron base with lamphouse rails suitable for all makes of Arc Lamps	£41	0	0
The Pedestal Mark II stand can also be fitted with the main arc switch etc., at the prices shown above.			
ANGLE BRACKETS when required for use with the above stands, <i>each</i>	£2	17	6

Attractive allowances for your present equipment. Hire Purchase Terms can be arranged over 1, 2 or 3 years.

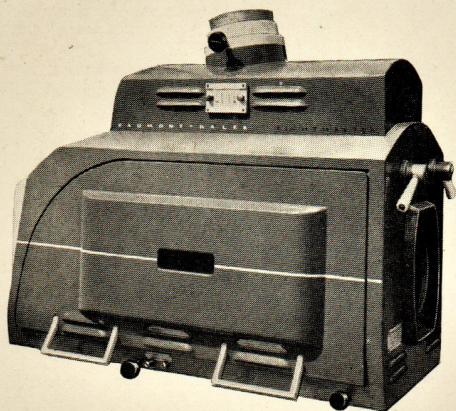


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GAUMONT-KALEE ARC LAMPS

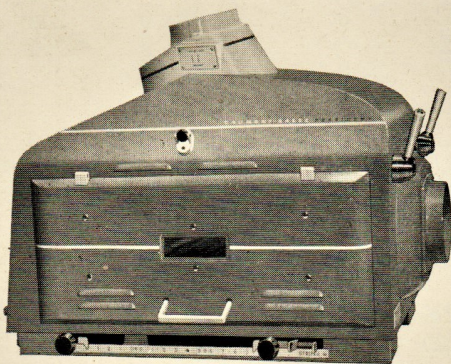


Attractive allowances made for your present arc lamps, and if desired Hire Purchase Terms can be arranged over 1, 2 or 3 years.

“ LIGHTMASTER ”

High Intensity, automatic feed, complete with 16" metal backed mirror, stream-lined lamphouse etc.

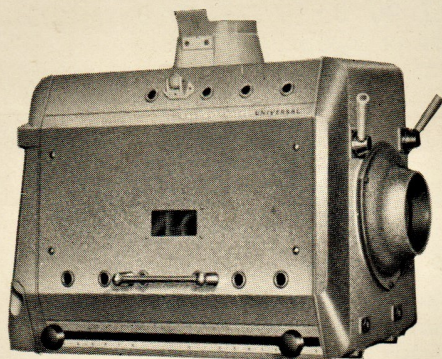
For use on D.C. supply each £199 0 0



“ PRESIDENT ”

High Intensity, automatic twin motor feed, complete with 14" metal backed mirror, stream-lined lamphouse, etc.

For use on D.C. supply each £150 0 0



“ UNIVERSAL ”

AUTOMATIC FEED High or Low Intensity A.C./D.C., complete with motor, 12" metal backed mirror and modern lamphouse, etc.

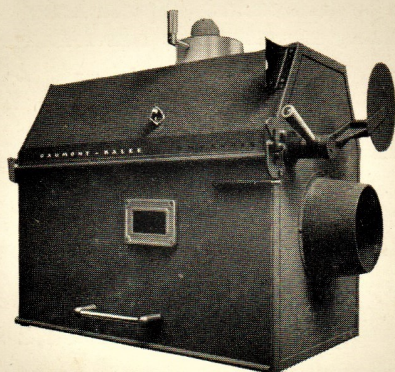
each £114 0 0

HAND FEED Low Intensity, complete with 12" metal backed mirror and modern lamphouse, etc.

each £95 0 0

Auto Feed Motor Unit for converting GAUMONT-KALEE “UNIVERSAL” hand feed arc lamp to auto feed

each £19 0 0



“ COMMANDER ”

AUTOMATIC FEED High or Low Intensity A.C./D.C., complete with motor, 12" metal backed mirror and modern lamphouse, etc.

each £97 10 0

HAND FEED Low Intensity, complete with 12" metal backed mirror and modern lamphouse, etc.

each £75 10 0

Auto Feed Motor Unit for converting GAUMONT-KALEE “COMMANDER” hand feed arc lamp to auto feed

each £22 0 0

Illustrations are not binding, alterations may be made as occasion arises. Prices are subject to alteration without notice,

