

Outstanding in design Brilliant in performance



The **NEW**
"PRESIDENT"
Arc Lamp

Incorporating many new
and exclusive features which
make it the most advanced,
efficient and reliable Arc
Lamp now available to the
Cinematograph Industry

A GAUMONT-KALEE Product

The

PRESIDENT

H.I. Arc Lamp

The clean-cut, streamlined appearance of this new lamp is a prelude to its practical design. It is a lamp which combines every modern refinement and operating convenience in a desirable trouble-free construction: a lamp which can be relied upon to maintain a brilliant uniform picture; a lamp which is truly automatic. Designed for modern High Intensity carbons, it has flexibility to cover the full range of carbon-current combinations recommended by manufacturers, with a capacity to take an 18" carbon and a full 10" positive feed.



AUTOMATIC DRIVE : *The positive and negative feed screws are independent, each driven by its own variable speed motor to which it is directly coupled by a totally enclosed reduction gear box.* The feed rates are independently controlled by variation of the speed of the individual motors, by means of control rheostats mounted on the rear panel. The generously proportioned motors are slow running to ensure years of trouble-free service without attention. The speed variation covers the range of recommended high intensity burning conditions.



MANUAL CONTROL : Each positively driven, constantly rotating feed screw, meshes with a worm wheel keyed to a shaft carried in its corresponding carbon carriage, and extended to a hand knob outside the lamp. Each shaft is held against rotation by a dual friction clutch. Whilst so held, the worm wheel is engaged as a nut by the rotating feed screw which thus traverses the carbon. Turning the knob by hand overcomes the grip of the clutch and rotates the worm wheel, which, working into the lead screw like a rack, provides a simple sensitive hand feed and also rapid traverse for re-setting.



CARBON SCALE : A clearly marked scale outside the lamp on the operating side gives visual indication of the length of carbon travel.



STRIKER : A sensitive scissors type striker is fitted towards the front end on the operating side.

CARBON GUIDES : Both carbons are guided near the crater by renewable heat resistant crutches. The positive guide incorporates a chute leading to a removable ash tray. The negative guide is adjustable vertically and horizontally for accurate carbon alignment, with micrometer control by knobs on the rear panel, with an inspection window for visual check.

CARBON GRIPS : These are of heat-resistant material and simple effective screw clamp type, to accept any carbon size. Their insulated clamping knobs are placed out of the glare of the lamp and remain cool to handle. Both grips are self aligning to the carbon guides.



MIRROR : Of heat resisting "Pyrex" glass, 14" diameter, of accurate elliptical figure having optimum collection angle, is carried in a precision 3-point suspension in which it is retained by a single spring loaded catch. Sensitive backlash-free micrometer levelling adjustments are provided, operated by knobs on the rear panel, together with a micrometer focus adjustment, also operated from the back of the lamp. The mirror is metal-backed, which prevents disintegration even when severely cracked.



MIRROR SCREEN & DOWSER : These are linked together and can be operated from either side of the lamp. The mechanism is simple and robust without springs or complicated linkages and provides a two-piece mirror screen which completely encircles the negative carbon, thus fully protecting the mirror from splashes during striking.

FLAME CONTROL : This is of the energised type, self adjusting to variation in operating conditions.



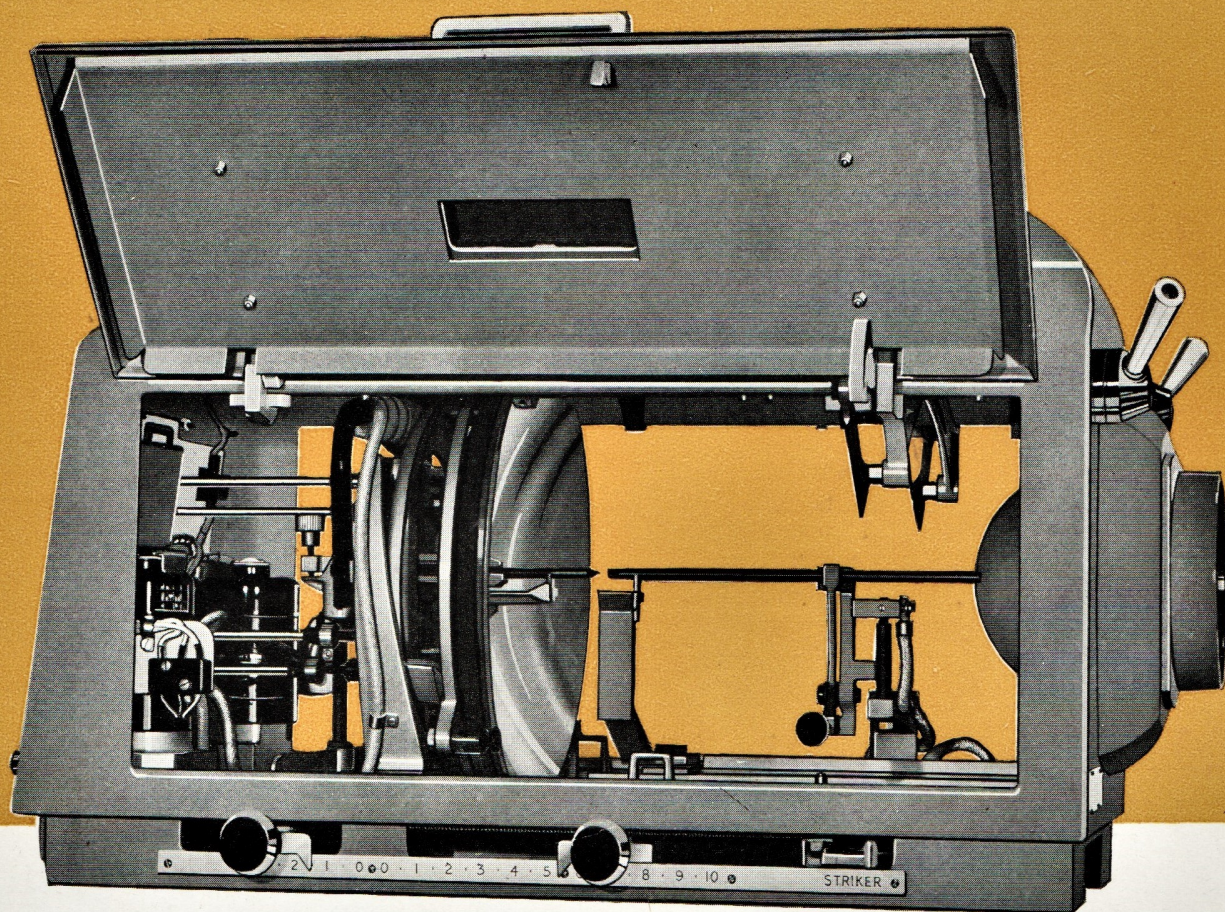
ELECTRICAL : All wiring is brought to a terminal panel in the rear of the lamp, accessible by removing a readily detachable cover plate. A detachable entry panel caters for variation in conduit entry fitting. The rear panel which carries the motor control rheostats, motor fuses and the switch and associated wiring, also the switch and wiring for the internal inspection lamp, is easily detachable as a unit to give access to this wiring and to the lamp mechanism. The fuses are of standard "cartridge" type.



GENERAL : The whole of the mechanism is carried on a rigid cast aluminium tray which forms the base of the lamp. The lamphouse is of one piece welded sheet metal construction, mounted upon the cast base. The motors are situated behind the mirror, in the coolest and cleanest part of the lamp. The base in front of the mirror is completely covered by a detachable sheet metal tray, fitted with an auxiliary removable ash tray, beneath the crater position, for collection of copper droppings.

Outstanding in design

a GAUMONT-KALEE *product*



ACCESSIBILITY : On each side the lamp-house doors open to their full width and height for easy access and are held in the open position by safety catches which lock automatically. Both doors are fitted with large inspection windows, which, with the window fitted in the rear panel, allow for complete visual inspection.



CHIMNEY and PERISCOPE : The lamp house chimney is tilted at 15° to allow for easy connection of vents at all operating rakes. A periscope throws a very clear and enlarged image of the arc on to a screen on the operating side at the base of the chimney.

SPECIFICATION

THE GAUMONT-KALEE "PRESIDENT" H. I. 14" MIRROR ARC LAMP

Complete with twin motor drive, potentiometers, flexible copper leads terminating at a terminal block, striker, 14" diameter metal-backed mirror, magnetic arc flame control, external feed scale, inspection lamp, periscope and arc image screen, dual-operated internal light cut-off and mirror dower. Allen keys for 2BA Cap Head Screws, 2BA Grub Screws and $\frac{1}{4}$ " B.S.F. Cap Head Screws are supplied with each pair of lamps. Completely enclosed in stream-lined lamphouse finished in light stone, white and maroon.

Or in mid-stone "crackle" finish instead of hard gloss, £145.

PRICE £150

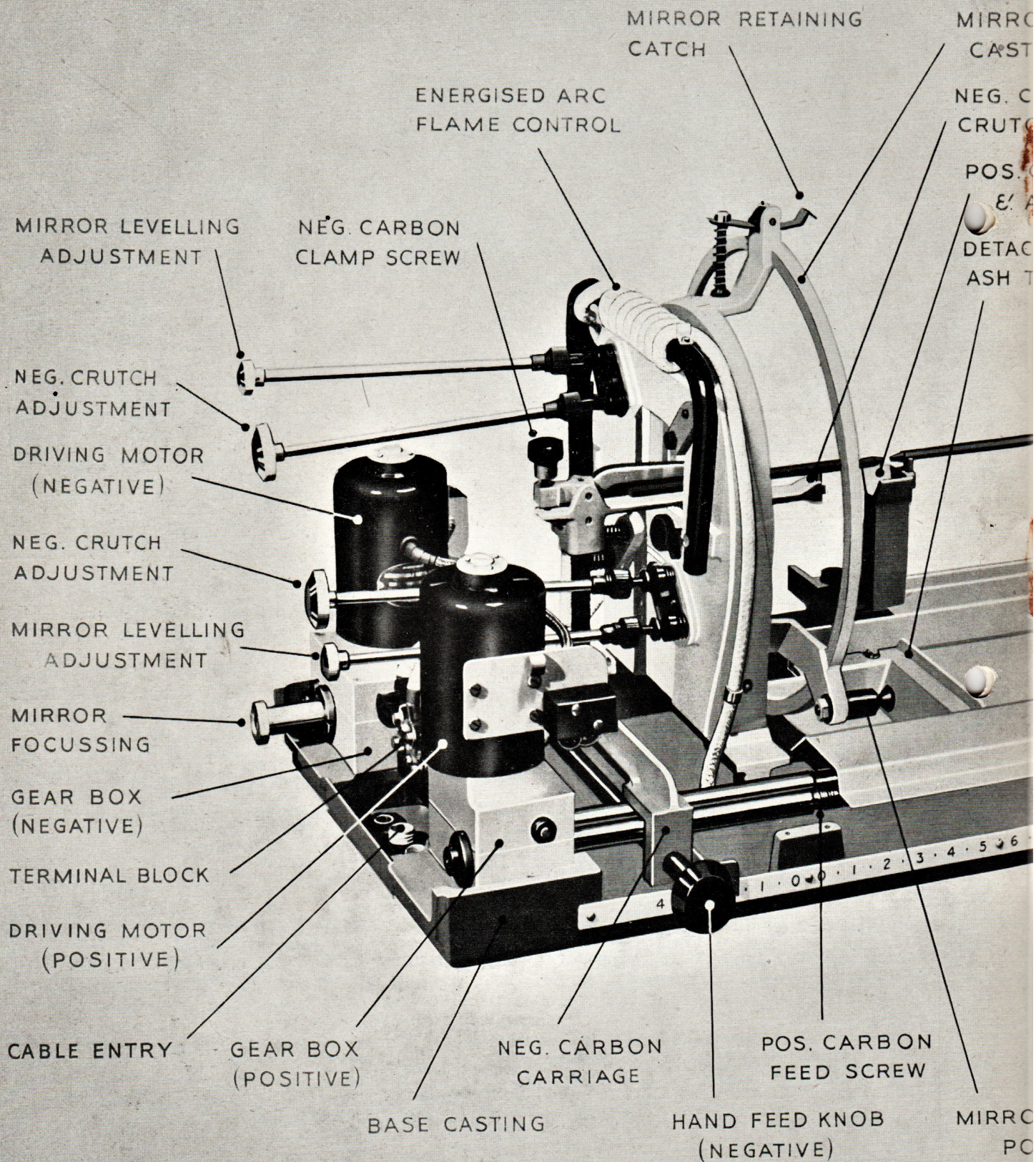
An attractive allowance will be made for your present arc lamps. If desired, the "President" Arc Lamp will be supplied on Hire Purchase terms over 1, 2 or 3 years.

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OR SUPPORT
ING

CARBON
H

CARBON CRUTCH
SH CHUTE

HABLE
RAY

POS. CARBON
CARRIAGE

18" POS. CARBON

POS. CARBON
CLAMP SCREW

COVER PLATE

FEED SCALE

STRIKER

R SUPPORT.
ST

HAND FEED KNOB
(POSITIVE)

CARBONS

The following Carbon combinations,
Voltages and Amperages are
recommended

SHIP "Suprex"

POS.	NEG.	Amps	Arc Volts
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"

POS.	NEG.	Amps	Arc Volts
6 mm	5 mm	35-45	32-38
7 mm	6 mm	45-55	34-41
8 mm	7 mm	56-65	38-42

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THE CONTROL PANEL at the REAR of LAMPHOUSE

The negative crutch and mirror tilt controls are conveniently situated, and in view of the different sizes of the knobs, are easily distinguishable. The mirror focusing knob is situated apart from the other controls and is directly coupled to the mirror mounting, giving a backlash-free micrometer adjustment.

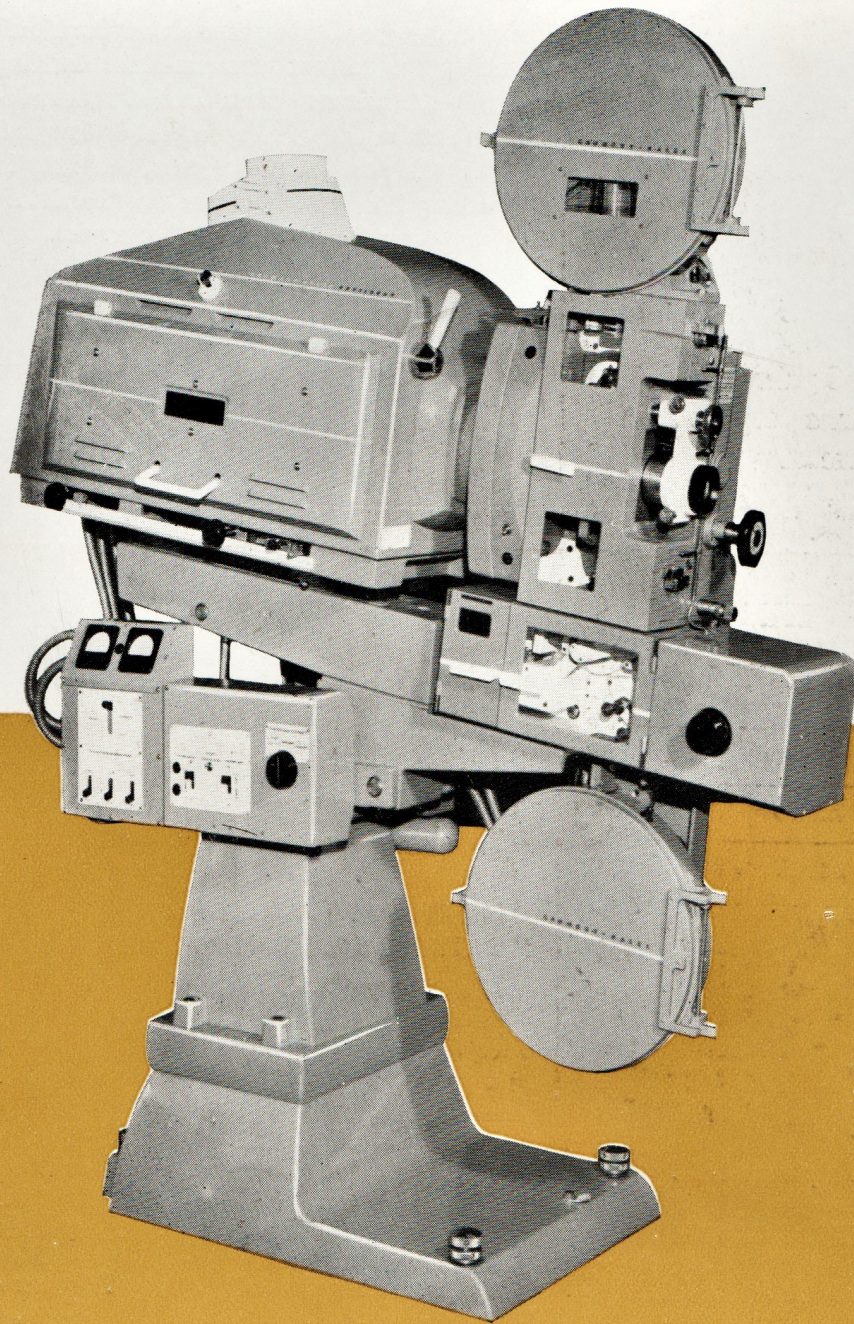
Each of the twin motor rheostats is fitted with a scale to facilitate the resetting of motor speeds if the carbon combinations are changed.

The arc inspection window is conveniently placed to give a full and uninterrupted view of the flame formation and positive carbon crater.

The terminal block, etc., may readily be exposed by releasing the two securing screws and removing the detachable cover plate.

Can be used with any type of

a GAUMONT-KALEE product



The GAUMONT-KALEE "20" with the "PRESIDENT"

The "President" Arc Lamp is standard equipment on the famous Gaumont-Kalee "20" Projection and Sound Equipment, as illustrated above, where it is giving distinguished service in hundreds of cinemas throughout the world . . . but it can be purchased separately for use with any other make and type of Projector Mechanism.

Projector and Sound Equipment

The appearance of the modern streamlined exterior of the "President" Arc Lamp is enhanced by the brilliant Gaumont-Kalee finishing colours of light stone, white and maroon. Each detail of both mechanism and lamphouse has been carefully and appropriately designed. These features, combined with precision manufacture, simplicity in design and adequate cleaning facilities will ensure the "President" Arc Lamp giving many years of long trouble-free service.



Marketed throughout the World by

G.B.-KALEE LTD

HEAD OFFICE :

**MORTIMER HOUSE,
37-41 MORTIMER ST., LONDON, W.1**

Museum 5432



Branches at

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