

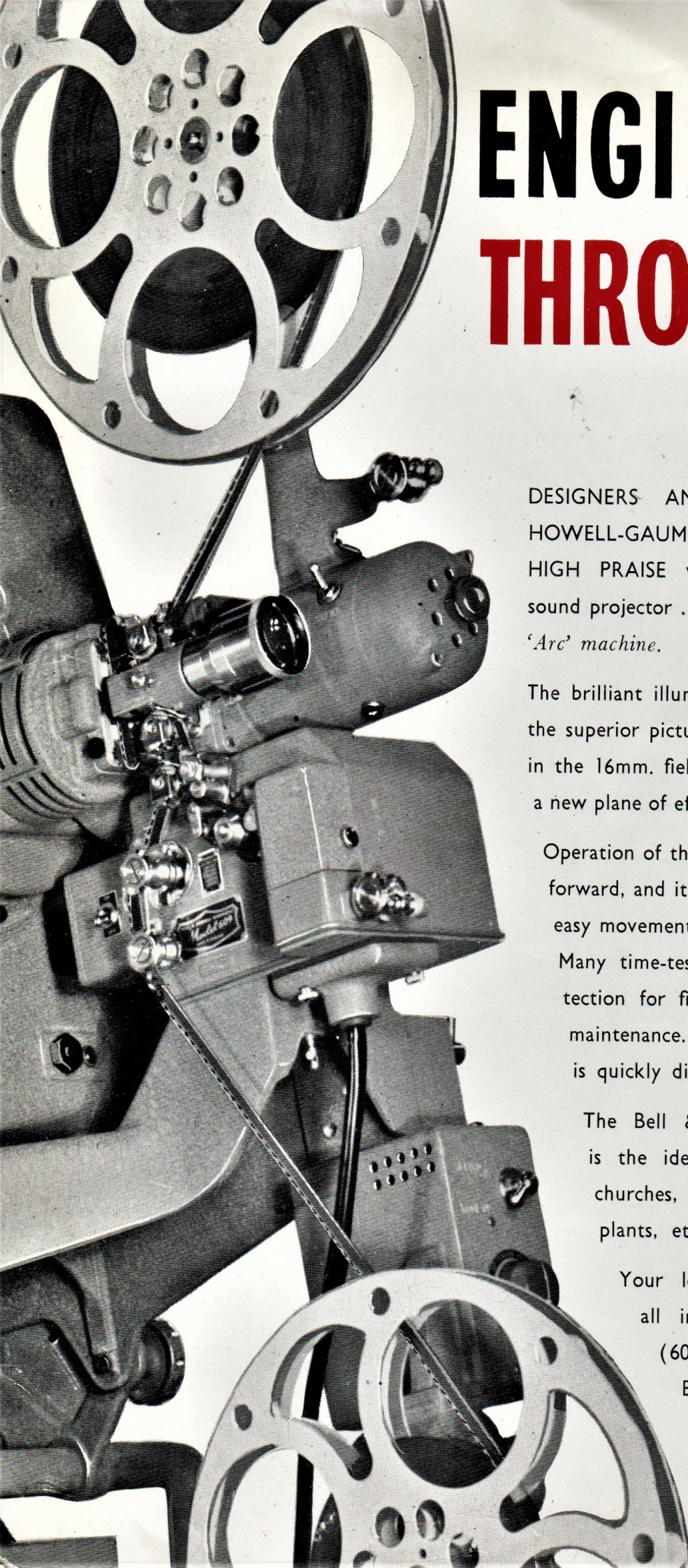
The **New** Bell & Howell-Gaumont **16mm. ARC** PROJECTOR



POWERFUL

BRILLIANT

**THEATRE-QUALITY
PERFORMANCE**



ENGINEERED THROUGHOUT

DESIGNERS AND ENGINEERS OF BELL & HOWELL-GAUMONT PRODUCTS HAVE EARNED HIGH PRAISE with this most powerful 16mm. sound projector . . . *precision-built throughout as an 'Arc' machine.*

The brilliant illumination provided by the Arc, and the superior picture quality attained are unsurpassed in the 16mm. field. Sound reproduction is lifted to a new plane of efficiency.

Operation of the Arc projector is safe and straightforward, and its ingenious roll-away stand provides easy movement with absolute rigidity while in use. Many time-tested features assure complete protection for film, correct threading and ease of maintenance. For transportation, the equipment is quickly dismantled without the use of tools.

The Bell & Howell-Gaumont Arc Projector is the ideal installation for static cinemas, churches, hotels, hospitals, schools, industrial plants, etc., *and for all large auditoriums.*

Your local dealer will gladly give you all information on this latest model (609) in Bell & Howell-Gaumont's British-made range of world-famous cine-equipment.

as an arc projector..

The **High Intensity Arc** gives nearly one hour of continuous projection with one pair of carbons burning at 30 amps. The arc is held to a uniform gap by the motor-driven carbon feed to maintain even illumination. An image of the arc is projected to a small screen above the lamphouse for visual monitoring. Quick-release clips for inserting new carbons.

Arc Lamp Controls are conveniently grouped at rear of lamphouse. Separate controls for adjustment of negative carbon and mirror.

Lamphouse is generously designed for ease of maintenance and cleaning; protective dark window, fume vent, manual light cut-off when striking the arc or changing over to second machine, and interior inspection light for quick replacement of carbons. Specially hardened standard 12-inch mirror.

Metal Rectifier requires no valves or moving parts. Feeds 30 amps. D.C. to the carbons. All controls—on/off switch, ammeter and 3-position current selector switch—are located on the top panel.

"Flickerless" Pictures with the famous Bell & Howell-Gaumont Intermittent Movement of 9 to 1 ratio and highly efficient shutter.

Side Tension Springs control film at aperture.

Removable Pressure Pad for easy cleaning.

Safe-Lock Sprocket Guards. New type "Skirted" Guards prevent damage to film and ensure correct threading.

Sound or Silent Films. Just flick a switch and change from sound to silent speeds. Governor controlled for constant speeds.

Metered Lubrication guards against over-oiling. Feeds just the required amount of lubrication as needed.

Self - Compensating, Constant - tension Take - up assures even film tension for all reel sizes. Spring-loaded snubber roller prevents "snatch" on starting motor.

Distributors:

G.B. EQUIPMENTS LIMITED

SERVICE AGENTS AND ACCREDITED DEALERS THROUGHOUT THE COUNTRY

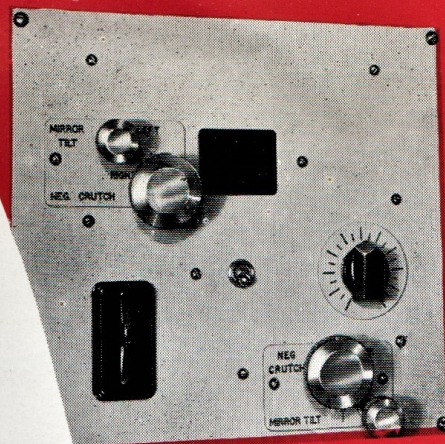
'Double-quick' Rewind is effected by the motor-powered rewind system.

Full Film Protection. For protection against heat damage to the film: (1) the motor is placed in front of the film mechanism to allow rapid dissipation of motor heat; (2) a special heat absorbing filter is placed between the arc and the film; (3) the design and construction of both the arc lamp and the projector mechanism housings ensure rapid heat dissipation; (4) a fan cools the projector mechanism and the film, and baffles prevent spilled light from reaching the aperture.

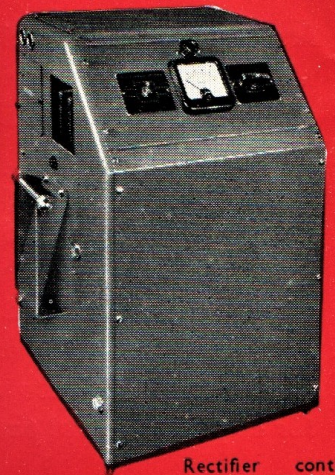
"Flutterless" Sound. Rotating sound drum with patented Bell & Howell-Gaumont Oscillatory Stabiliser plus balanced fly-wheel and third sprocket ensure absolute steadiness of reproduction.

Capacity. Up to 2,000-foot reels. Varying hub diameters are automatically compensated for by take-up clutch.

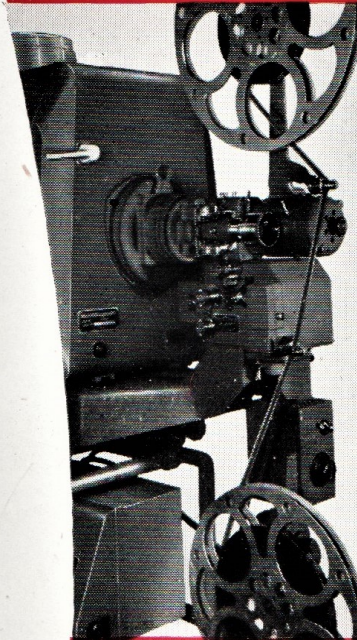
Standard 3-inch f/1.8 TAYLOR-HOBSON LENS for finest definition. Full range of extra TAYLOR-HOBSON lenses from 1 inch to 4 inch focal lengths are available. Vernier focussing with lens lock for micrometer accuracy.



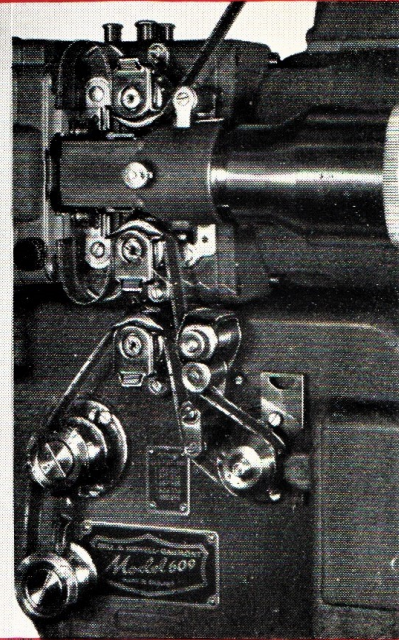
Arc Lamp controls at rear of lamphouse.



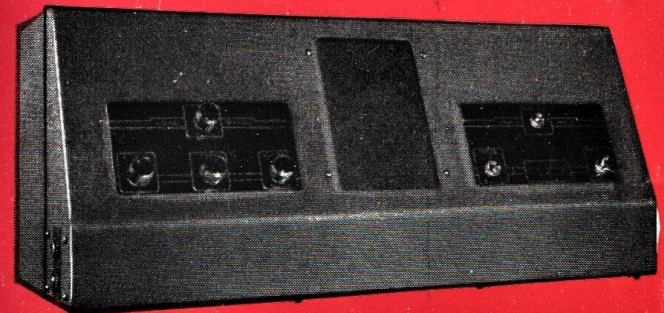
Rectifier controls are grouped on top panel.



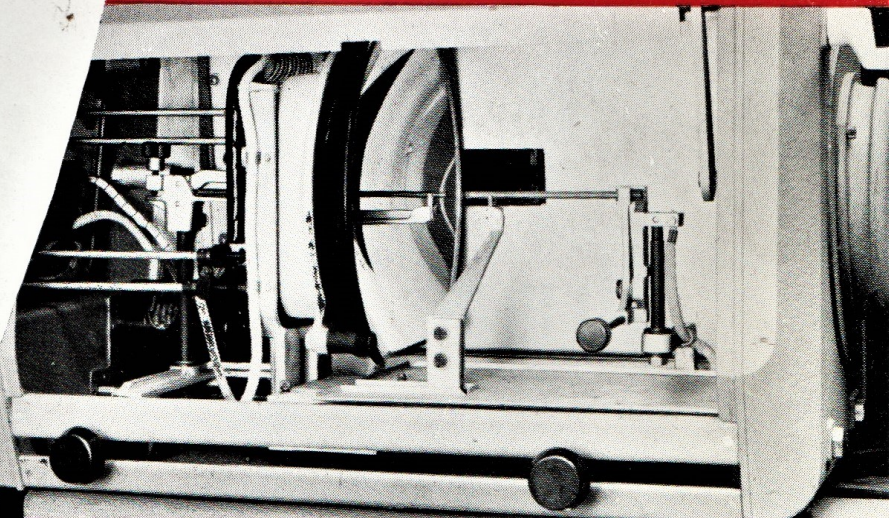
Motor-powered rewind from motor driving take-up spool.



Projector mechanism and Safe Lock sprocket guards.



AMPLIFIER. Monitor Speaker is built in the control panel.



Interior of the Arc Projector Lamphouse.

Amplifier Control Panel is ultra-modern in design, with all necessary provisions for sound regulation and projector mechanism control. Speech output 25 watts undistorted. Full-range tone control. Twin projectors are provided for— independent switches for sound and motor effect change-over from one to the other. Separate inputs for microphone and record player allow independent or "mixed" operation during projection. *Monitor speaker with separate volume control is built-in the amplifier control panel.*

Exciter Lamp. 4 volts, .75 amps. fitted to pre-focussed holder for instant replacement.

Twin Speaker System. Because of the powerful undistorted output produced by the amplifier, two 12" high fidelity, permanent magnet speakers, in carrying cases, are included as standard equipment. *Alternative speakers are available.*

Easily Moved. The projector's roll-away stand moves freely on ball-bearing, tyred, swivel wheels. For projection, the stand rests firmly on its rear legs. For moving, rear wheel is adjustable to lift legs clear of the floor. Right rear leg is adjustable to compensate for uneven floors. The stand may be quickly dismantled and compactly stowed.

Tilt. The entire lamphouse and mechanism tilts through a wide range—elevates to 16° and depresses to 25°.

Completely Portable. All units are quickly detachable without tools for easy transportation.

Finish. Grey crinkle, chromium plated metal parts.

Overall Dimensions:

Height (inc. feed reel), 73" (no Rake)

Width (back to front), 44"

Base (at floor level), 32" x 24"

Power Supplies:

Picture Head: 200/250v. 50 cycles or 100/125v.
60 cycles from outlet in Amplifier.

Amplifier: 200/250v. 50 cycles or 100/125v.
60 cycles fitted with separate mains switch.

Rectifier: 200/250v. 50 cycles or 100/125v.
60 cycles with separate fuses and mains input. Pilot light to indicate when Rectifier is switched on.

Units also available for alternative electric supplies to meet special requirements.

Single Unit for operation on A.C. voltages 200/250, 50 cycles, or 100/125, 60 cycles, includes: Picture Head fitted with 3" f/1.8 Taylor-Hobson projection lens, Lamphouse, Roll-away Stand, Amplifier, Rectifier and two Loudspeakers.

For dual operation. In addition to the equipment for a Single Unit, a second Picture Head with 3" Lens, Lamphouse, Roll-away Stand and Rectifier is supplied.

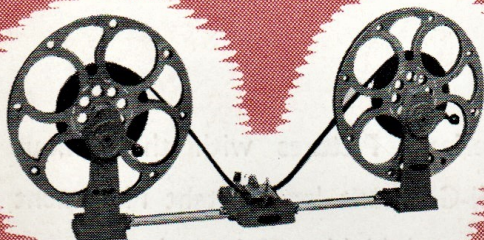
The
Bell & Howell - Gaumont
ARC LAMP
16 mm. SOUND FILM PROJECTOR
MODEL 609

Bell & Howell - Gaumont

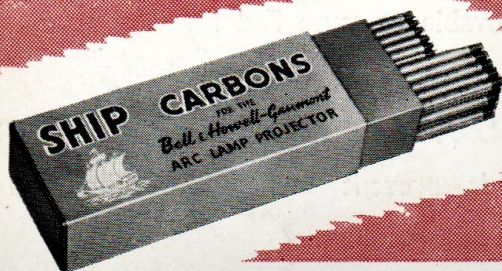
ACCESSORIES

REWINDER-SPLICER

The Bell & Howell-Gaumont Rewinder and Splicer assembled as one combined unit—splicer replacing base plate of rewinder. Entire unit is quickly disassembled. Splicer and Rewinder also supplied as independent units.



CARBONS for the Bell & Howell-Gaumont Arc Projector are packed twenty-five pairs in this convenient carton ready for mailing.



Descriptive literature is available on the range of Bell & Howell-Gaumont projectors and cameras.

Please write for full information.



FOR THE FINEST 16mm. FILMS

From G.B. you have the pick of the finest films in 16mm. . . . British and American feature films, in Technicolor and black and white; over 450 classroom films produced by G-B Instructional; a first-class variety of 500 selected entertainment short films; and Movie-Paks . . . to buy and keep for your own film library.

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A Company within the J. Arthur Rank Organisation

By Appointment Manufacturers of Cinema Equipment to H.M. The King

RECORD PLAYER. Plays up to 12" records through the Bell & Howell-Gaumont amplifier and speaker. Fitted with special "Decola" pick-up head with sapphire needle, heavy duty motor, entirely portable. Provision for installation of microphone mixer unit. *Model 610*

MIXER UNIT. Enables both record player and microphone together to be used with the Bell & Howell-Gaumont amplifier. Incorporates fading controls. *No. 225000*



CRYSTAL MICROPHONE

For public address and general purposes. Equipped with 6ft. lead and "Press to speak" switch in handle.

Type D.104HS.

HAND AND DESK MICROPHONE

Moving coil, high-impedance, also available.



16mm. PROJECTION LENSES made by Taylor, Taylor & Hobson specially for Bell & Howell-Gaumont sound and silent projectors. Hard-coated, wide aperture, giving brilliant pictures and sharp definition. Available in a wide range of focal lengths from 1" to 4". All lenses are instantly interchangeable.



There's a Bell & Howell-Gaumont Accessory for every purpose. Please write for descriptive brochure.

