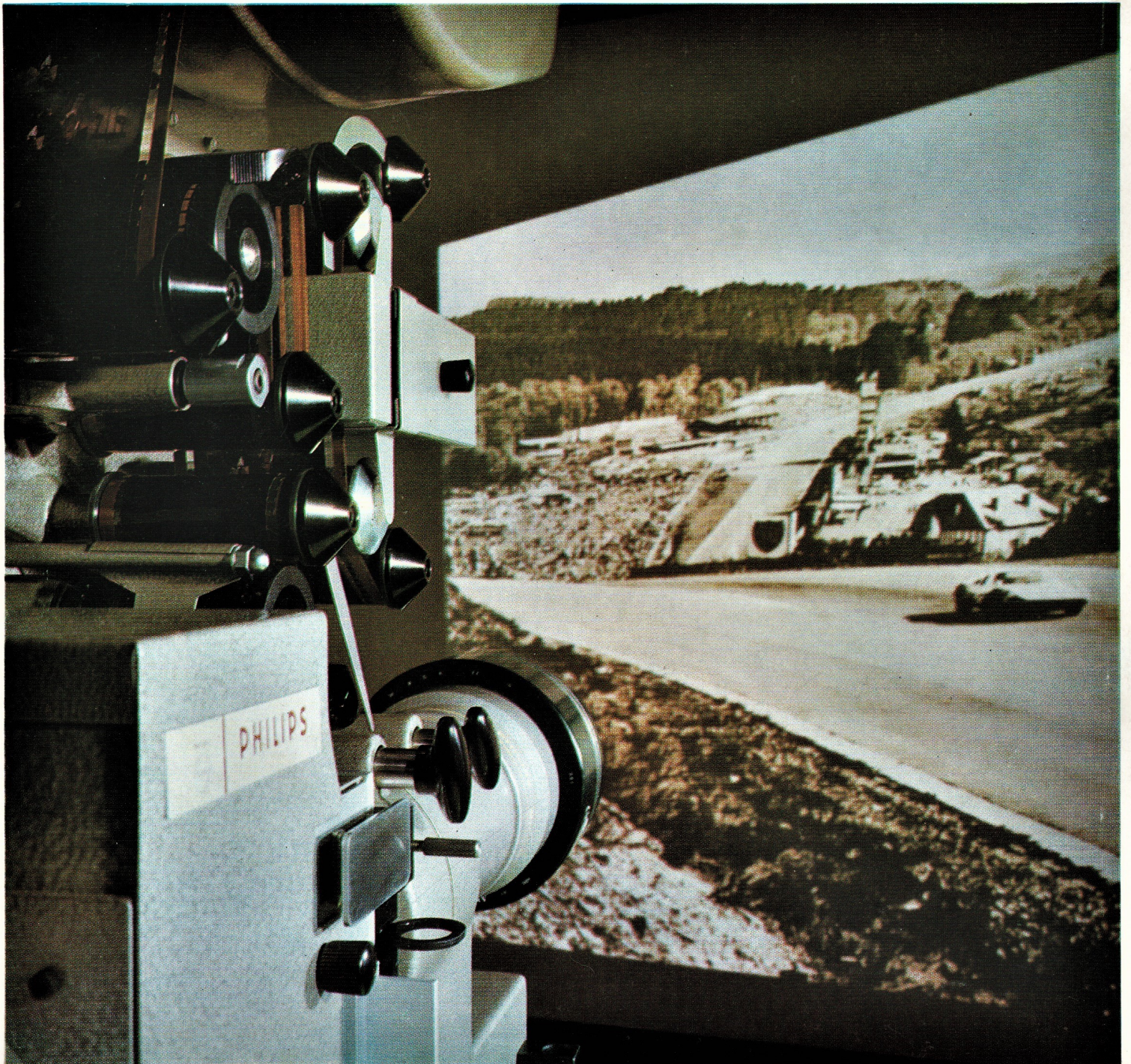


PHILIPS

not a word

Film Projection Equipment



Introduction

The best investment for a cinema proprietor is a Philips film projector. In the long run especially a Philips projector gives more value for money than any other make. The technical perfection guarantees flawless operation for many years at a minimum in maintenance costs and wear of films.

Also for establishments other than cinemas, the perfection of Philips film projectors is of prime importance. The risk of a performance being suddenly interrupted because of a faulty projector is cut to a minimum.

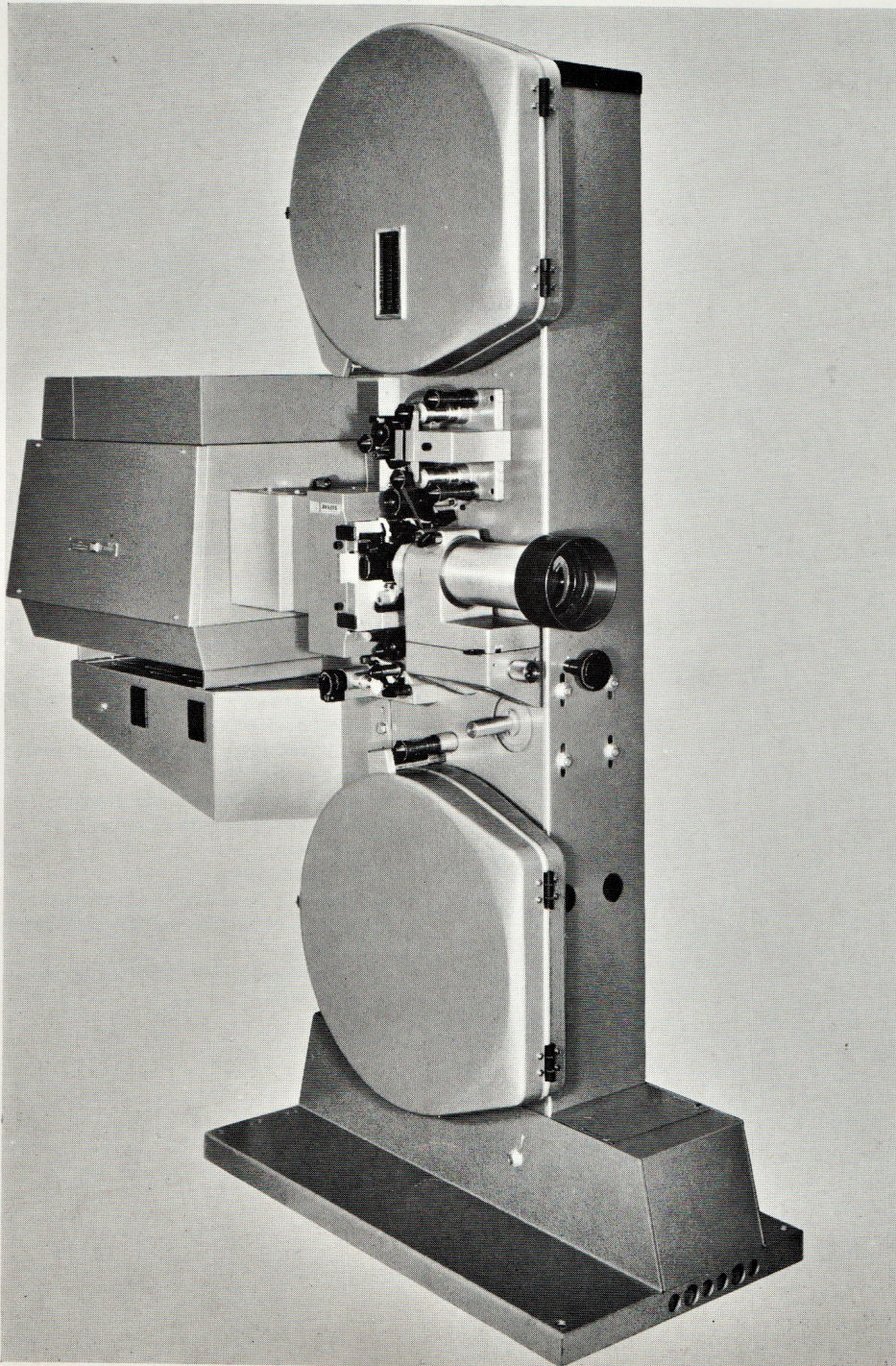
This brochure gives a summary of the Philips cinema equipment with the most important data, for more detailed technical information on the equipment, data sheets are available.

Apart from the equipment shown in this brochure, Philips also supply

- Double-band projectors
- Pulsators
- Rectifiers
- Loudspeakers
- Film spools
- Rewinders
- Splicing devices
- Projection room windows
- Slide projection devices
- Arc lamp mirrors.

Projectors

DP 75 70/35-mm



The model is available in two versions:

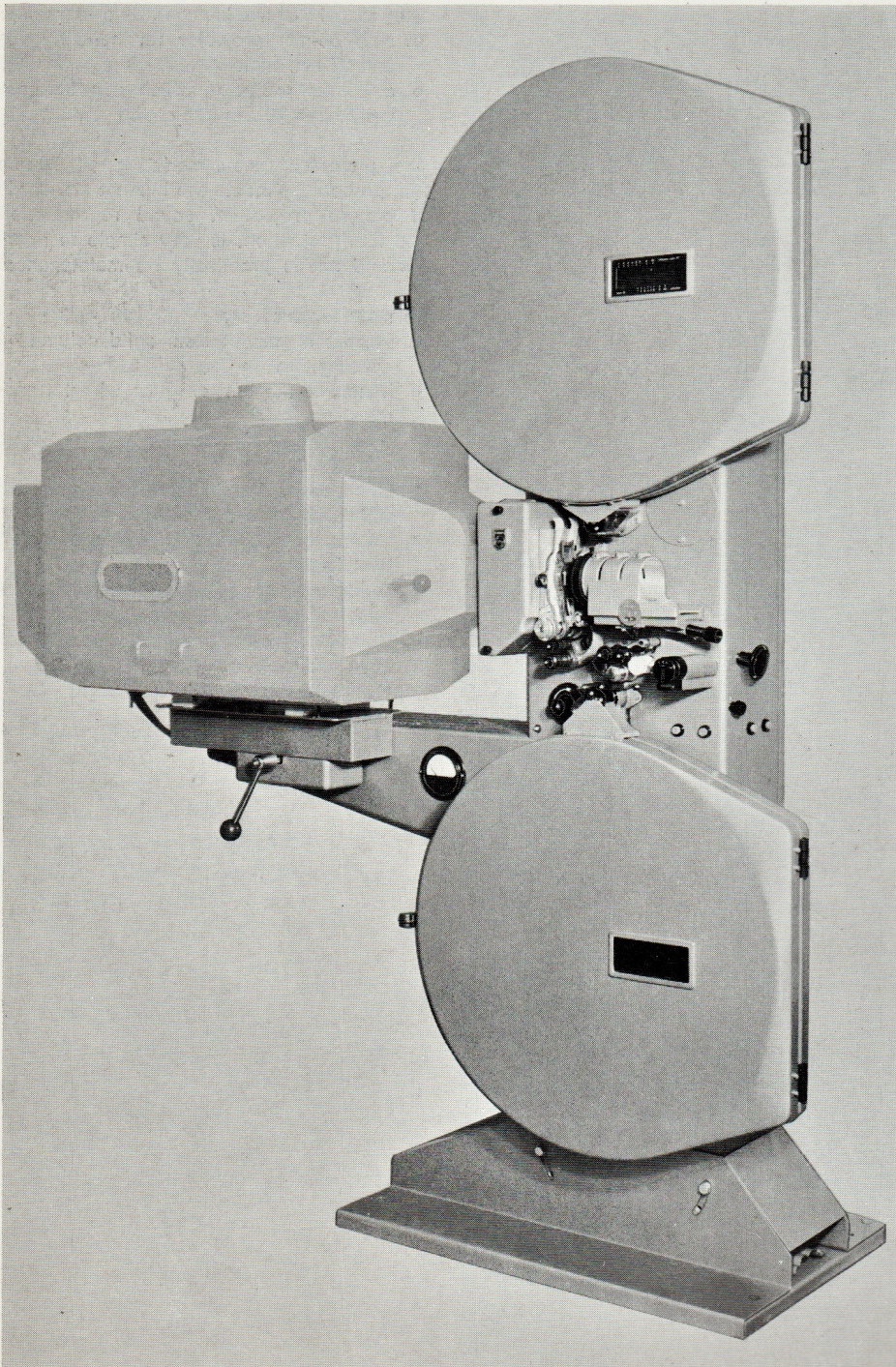
- a 70/35-mm projector for handling 70- and 35-mm films
- a 35-mm projector which can be converted for 70-mm projection

The projector (accommodating all 70-mm film processes) meets the highest standards of picture projection, sound reproduction and film protection; is very simple to operate and needs practically no maintenance.

Its main features are:

- Perfect alignment from solid column construction
- Minimum number of gear wheel transmissions
- Steel gears only, running in an enclosed oil bath
- Changeover from 70-mm to 35-mm film within seconds and without tools
- Unique gate construction to prevent heat flutter
- Delrin surfaces for perfect projection of new, old, waxed and green prints
- Simple servicing of all parts with normal keys and screwdrivers
- Suitability for all light sources.

FP 20 35-mm

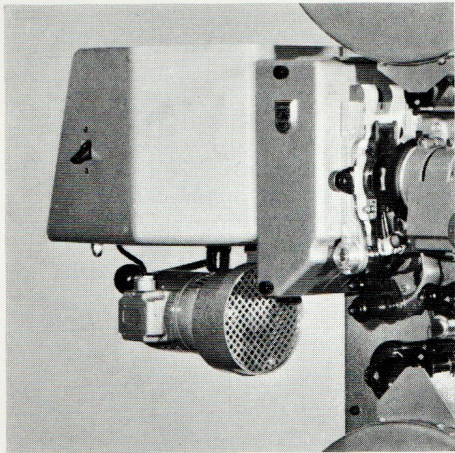


The FP 20 projector is a precision-built compact projector with an efficient single-blade shutter and simplified mechanical design.

The main features are:

- Simple driving mechanism, with a minimum of transmissions
- Easy threading of the film
- Perfectly steady picture; curved film gate
- Framing device of special design
- Easy interchange of projection lenses, without re-focusing
- Double-speed single-blade shutter
- Suitable for all kinds of arc and Xenon lamps
- Little maintenance
- Suitable for all kinds of 35-mm films
- Possibility of remote control of focusing and framing
- Easily adaptable for SPP-lamphouse, type EL 4465.

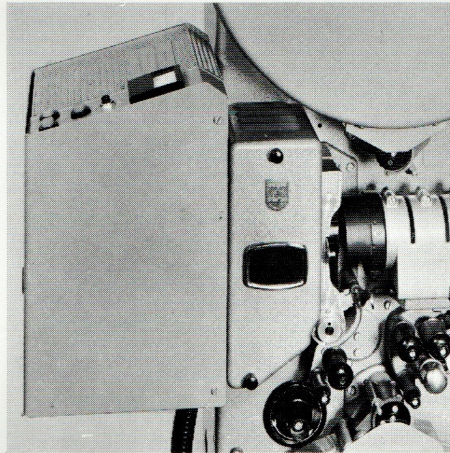
FP 20 G 35-mm



The FP 20 G projector is of similar construction and has the same features as the model FP 20, except that it is equipped with two 1000 W, 110 V incandescent lamps, forced-draft cooled, in dual mounting with optional manual or automatic replacement of bad lamp.

The FP 20 G is specially intended for use in smaller cinemas, preview theatres, film and television studios. A single-phase synchronous motor maintains precisely the number of frames per second.

FP 20 X 35-mm

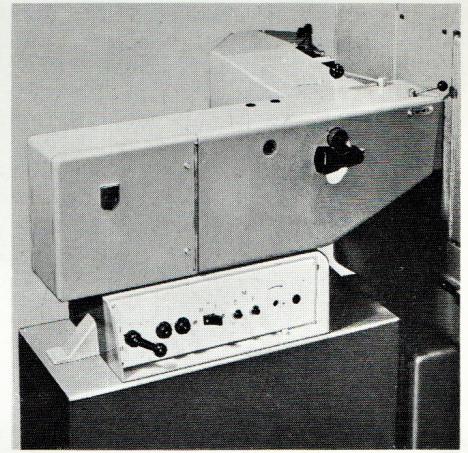


Similar construction and features as model FP 20, but the light source is a 500 W Xenon lamp in a lamphouse specially designed for this projector.

This light source makes the projector eminently suitable for use in studios and small theatres. The lamp, not producing ozone, does not need a flue or exhaust system. The light-output is very high with a very good light distribution.

The lamp is easily replaced and automatically adjusted.

FP 20 ST 35-mm

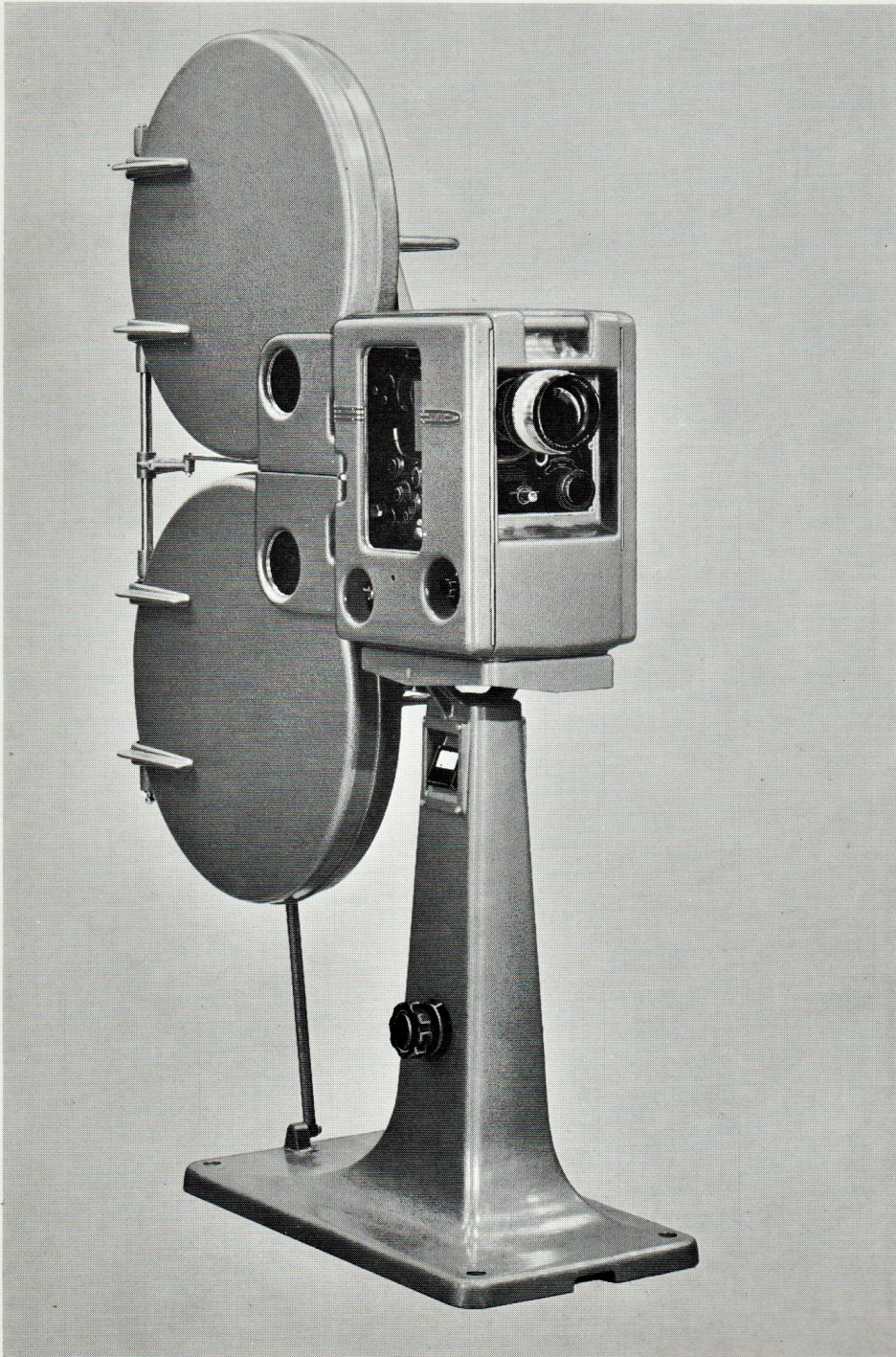


Similar construction and features as model FP 20, but equipped with two pulsed-discharge lamps (SPP lamps) on a special turret in the lamphouse.

The advantages of SPP lamps as against arc lamps are:

- Greater economy
- Flicker-free projection, even at very high screen brilliance
- Constant light-output, irrespective of operating hours
- Excellently uniform brightness on the screen
- No rotary shutter
- No flue or exhaust system
- No arc adjustment
- Automatic changeover to spare lamp.

FP 3 35-mm

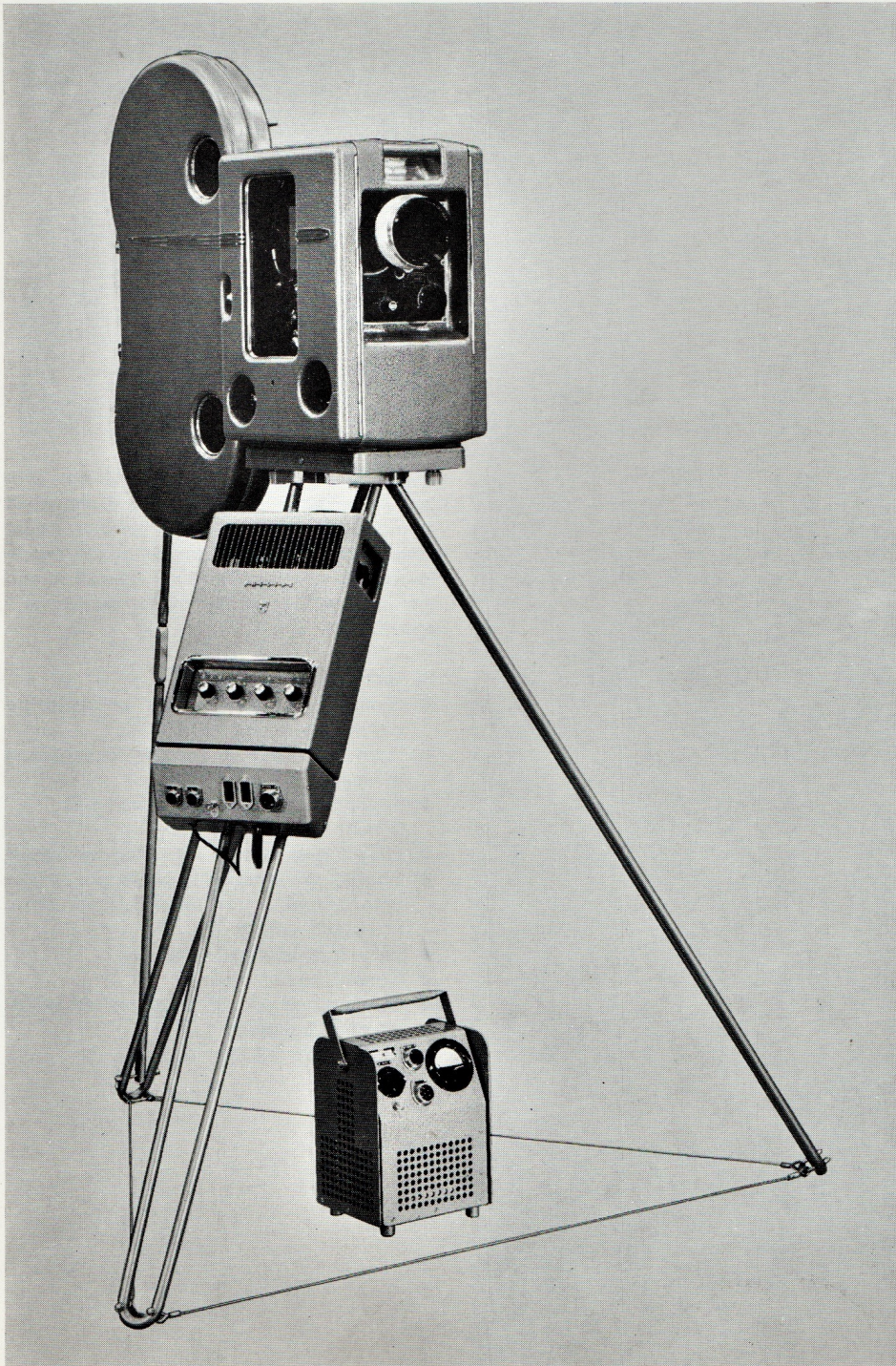


The FP 3 is an ideal projector for small theatres, screening rooms, ships theatres, etc.

Its principal features are:

- Utmost reliability
- Brilliant picture
- Excellent sound reproduction
- Simple operation
- Easy maintenance
- Suitable for normal, CinemaScope and Wide-Screen projection.

Portable 35-mm projector, type 8710

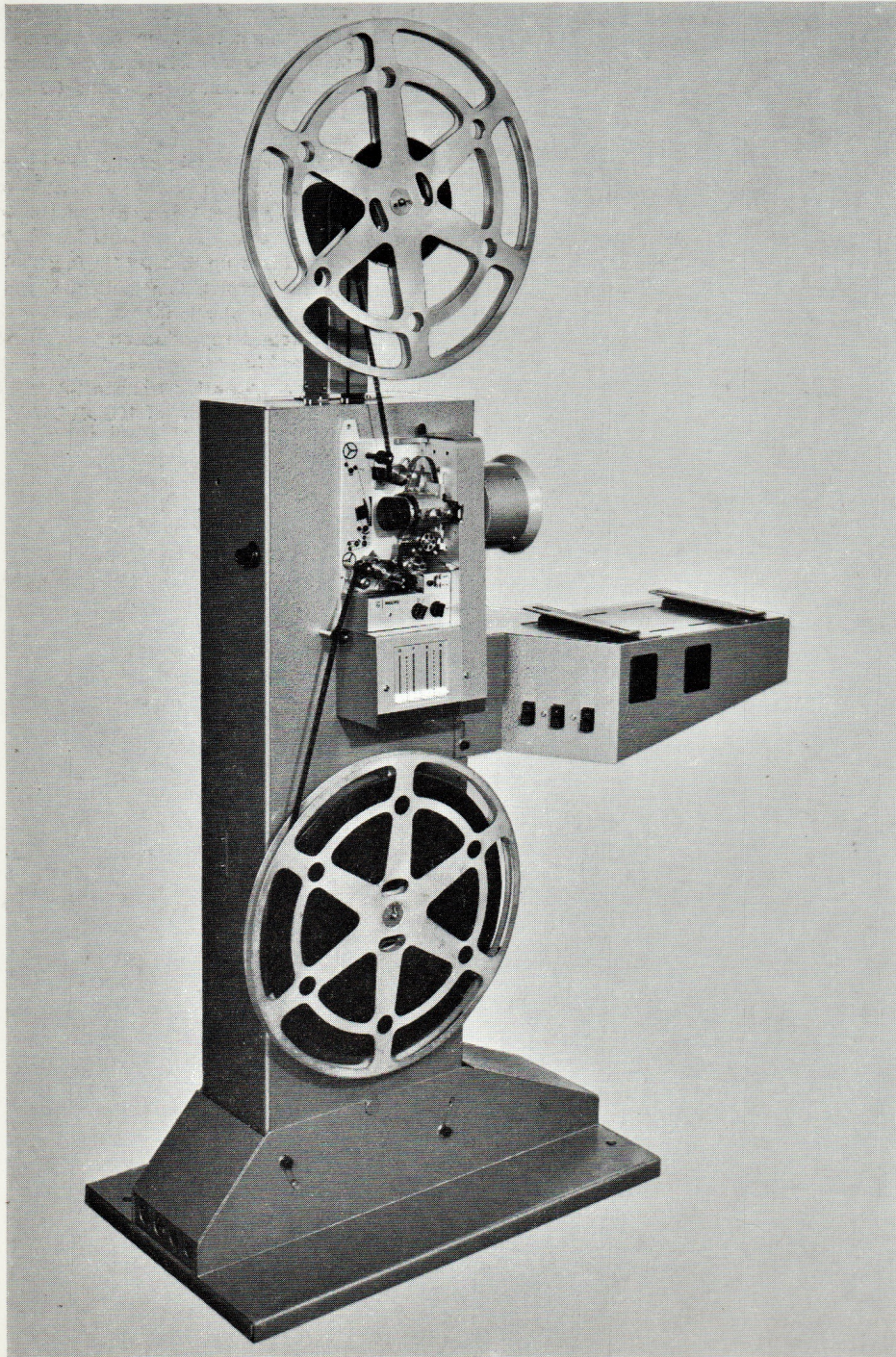


This portable sound-film equipment meets all the requirements for normal theatre equipment, thereby satisfying all demands for portable installations.

Its features are:

- Easy portability (weight of the projector 67 lbs; 30.5 kg)
- Compliance with stringent safety regulations
- Brilliant pictures up to 13' x 10' (4 x 3 m)
- Suitable for normal, CinemaScope and Wide-Screen projection
- Excellent sound reproduction
- Rapid assembly
- Sturdy fibre cases for transport
- Suitable for A.C. mains of 103... 257 V, 50 and 60 Hz.

FP 16 16-mm



The FP 16 is a professional 16-mm projector, suitable for optical and magnetic sound reproduction. It is for permanent installations in large auditoriums and excels in reliability, long life, easy operation and the outstanding quality of its picture and sound.

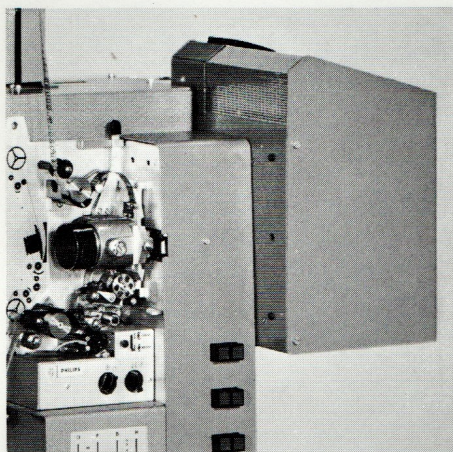
Its technical features are:

- Solar cell, replacing the photoelectric cell in the sound head
- "Grooved-disc" intermittent mechanism in sealed oil bath
- 12-tooth intermittent sprocket with 5 teeth always engaged
- Only 4 gear wheels and one worm wheel
- Sturdy, self-starting synchronous motor with timing-belt transmission; no brushes, no speed control
- Fully transistorised amplifier
- Curved runner plate
- Delrin running surfaces to prevent build-up of dirt deposit
- Suitable for all light sources

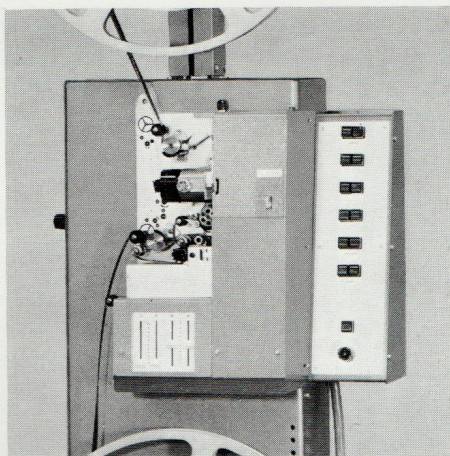
FP 16 X 16-mm

FP 16 TV 16-mm

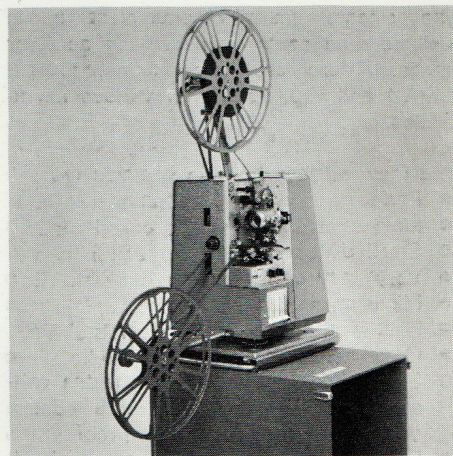
Portable professional sound-film projector, type EL 5100, 16-mm



Similar construction and features as model FP 16, but equipped with a 500 W Xenon lamp in special lamphouse.



The FP 16 TV is a 16-mm TV film projector developed from the model FP 16 and specially adapted for film scanning. It meets the exacting requirements of black-and-white and colour television.



This portable projector has been designed for applications where high demands are made on the life and reliability of the projector and the quality of picture and sound. Operation and maintenance are very simple. It is eminently suitable for preview rooms of film and television studios, exhibitions, training institutes etc.

The projector can be supplied optionally for:

- reproduction of optical sound tracks
- reproduction of optical and magnetic sound tracks
- reproduction of optical sound tracks and recording and reproduction of magnetic sound tracks.

The projector is supplied with two 10 W loudspeakers in a carrying case.

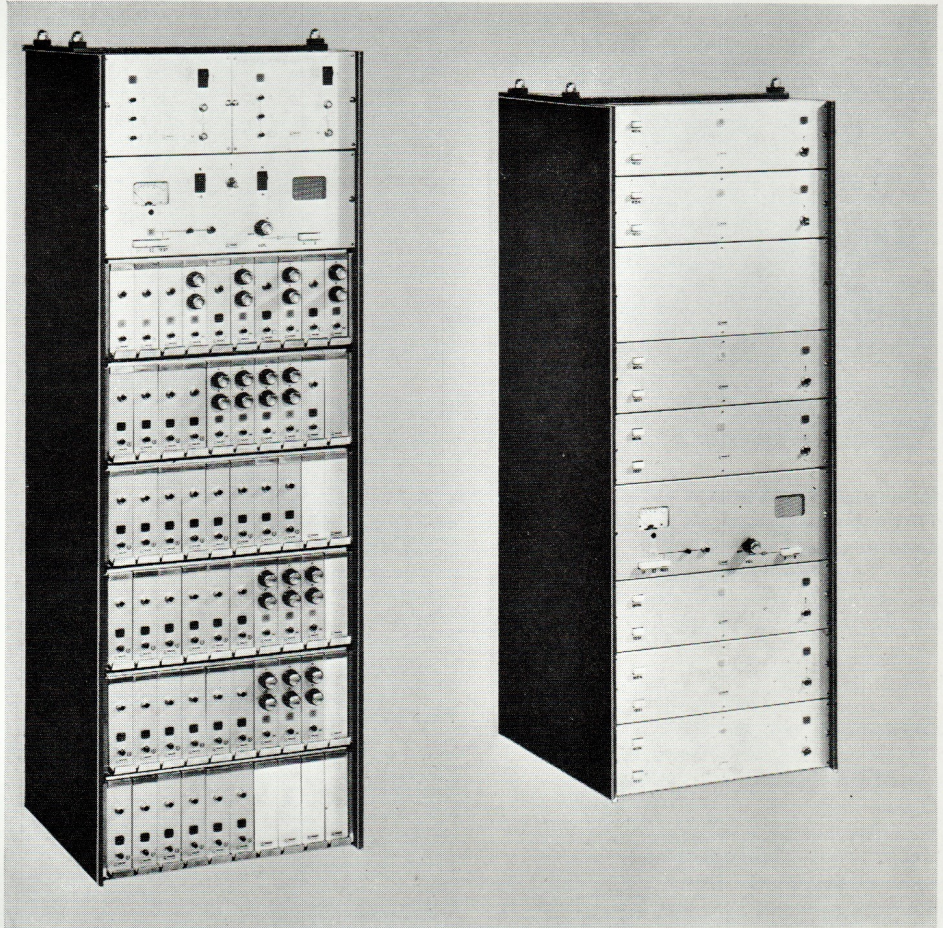
Fully transistorised sound amplifiers

Type OMA 6

The cinema amplifier equipment is in wall-mounted cabinets, occupying no floor space. There are three types, OMA 6 OMA 4 and O 3; each with various possibilities.

The features they have in common are:

- Perfect sound reproduction
- Maximum reliability
- Small dimensions
- Very easy operation
- Minimum maintenance
- Built-in checking devices
- Great versatility
- Suitable for all conventional mains voltages and frequencies, remote control and automation; and tropic proof
- Easily adaptable to projectors and loudspeakers of other makes.

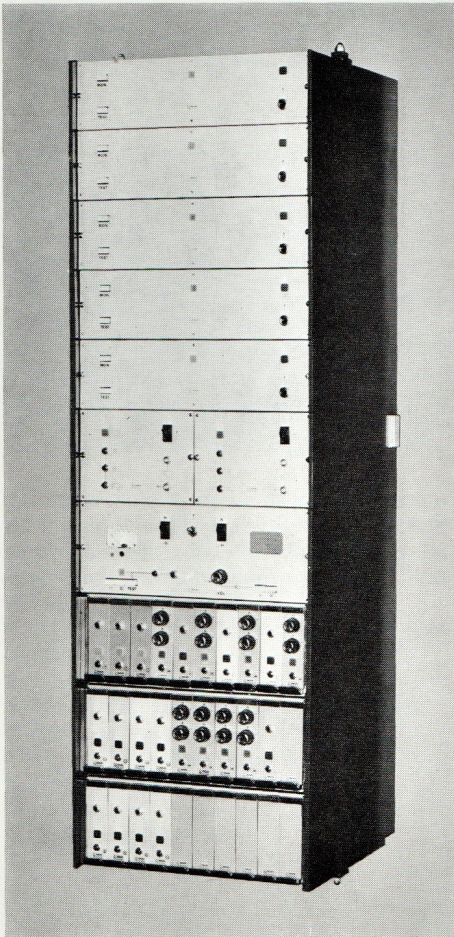


This equipment consists of a pre-amplifier rack, an output amplifier rack and has a six-channel volume control.

It is suitable for the reproduction of:

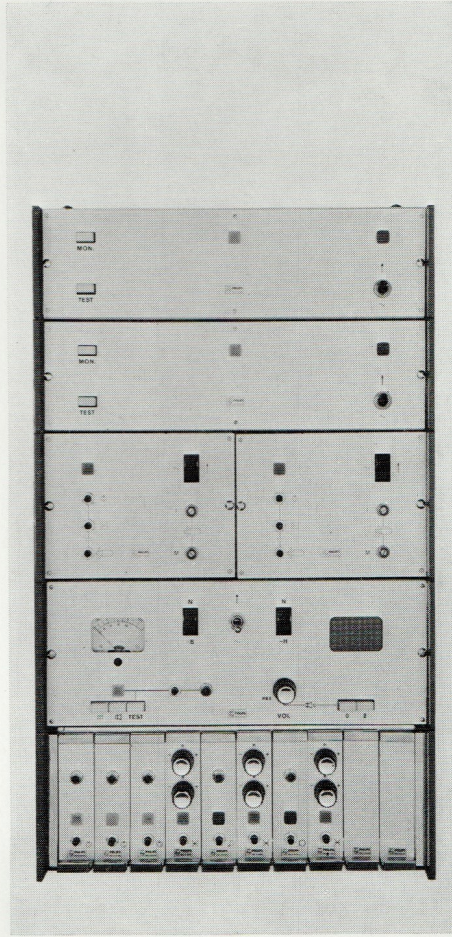
- 35-mm films with optical sound track on two or three projectors
- 35-mm films with four magnetic sound tracks on two projectors
- 70-mm films with six magnetic sound tracks on two projectors
- three arbitrary non-sync. sound sources, e.g. gramophones, microphones or tape recorders.

Type OMA 4



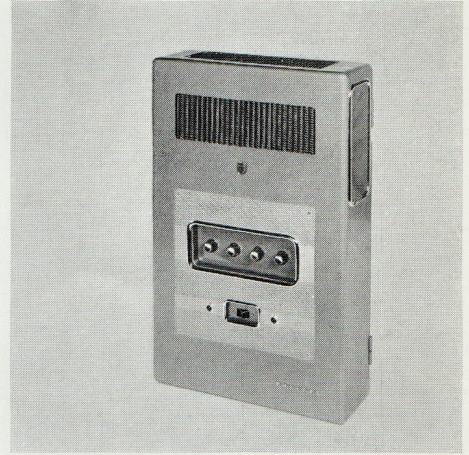
- Suitable for the reproduction of:
- 35-mm films with optical sound track on two or three projectors
 - 35-mm films with four magnetic sound tracks on two projectors
 - three arbitrary non-sync. sound sources, e.g. gramophones, microphones or tape recorders.

Type O 3



- Suitable for the reproduction of:
- 35-mm films with optical sound track, on two or three projectors
 - three arbitrary non-sync. sound sources, e.g. gramophones, microphones or tape recorders.

Cinema amplifier M 2
(type EL 5341)



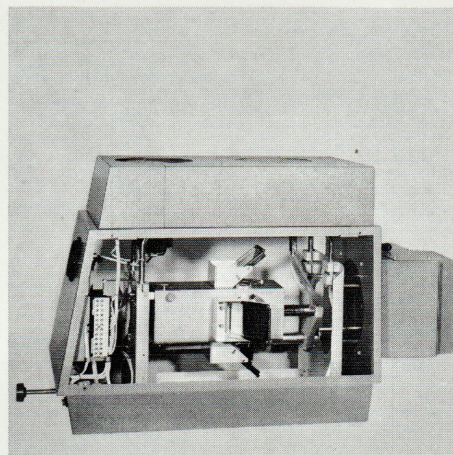
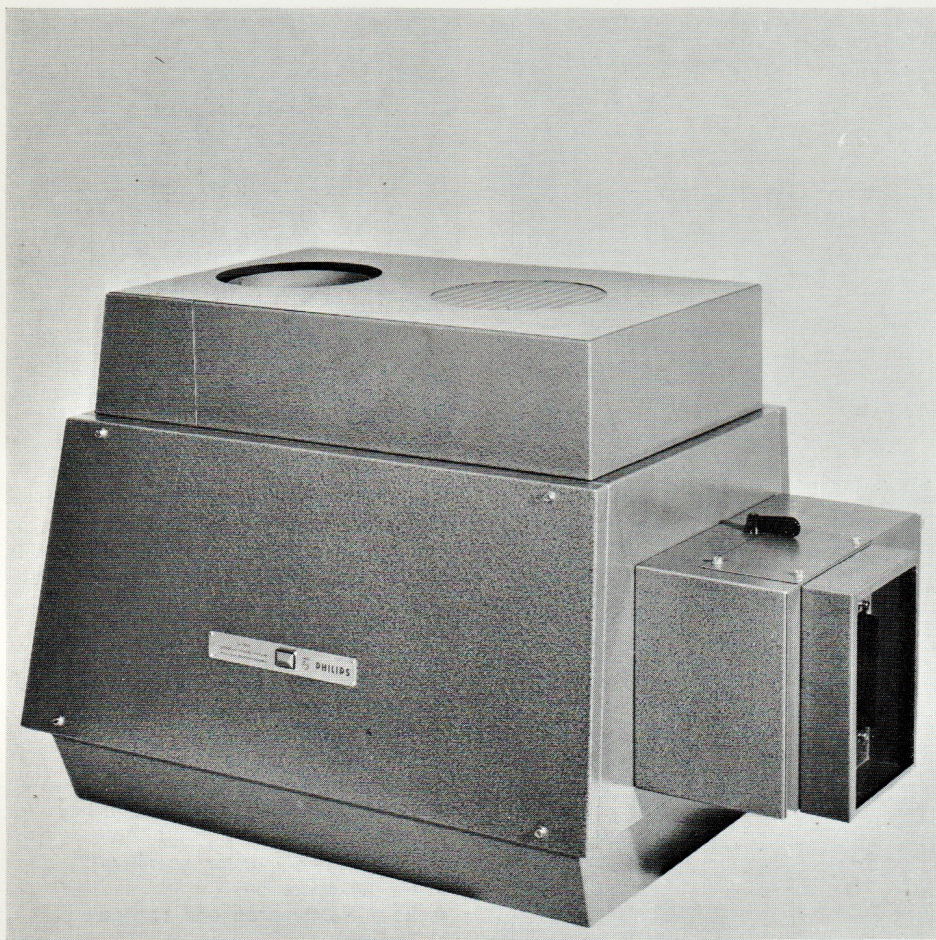
This amplifier for optical sound tracks in conjunction with Philips loudspeakers, is the ideal system for sound reproduction in halls with a capacity of up to 1500 seats.

Its features are:

- Greatest reliability
- Small dimensions
- Easy installation
- High output power
- High sensitivity
- Minimum distortion, hum and noise
- Continuously adjustable frequency response
- Two built-in monitor speakers
- Simple operation
- Easy maintenance and service
- Tropical proof.

Lamphouses

Xenon lamphouse, type LCB 4002, for 1.6 and 2.5 kW Xenon lamps



This lamphouse can be adapted to different projectors. Type LCB 4002/20 can be used for the Philips projector FP 20 and type LCB 4002/75 for the Philips projector DP 75. Type LCB 4002/01 is for adaption to most other projectors.

The lamp with its lens system can also be delivered as a separate unit to be built into already existing lamphouses.

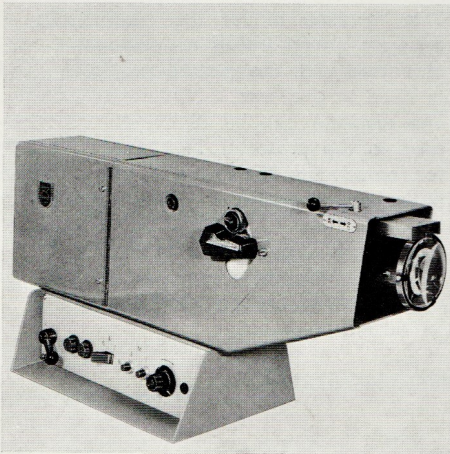
The main features of this light source are:

- Unique optical system
- High light output
- Excellent light distribution
- Suitable for 35-mm and 70-mm film projectors
- Easily adaptable to different projectors

- Lamp is easily replaced
- New lamp is automatically adjusted.

Lenses

SPP Lamphouse, type EL 4465



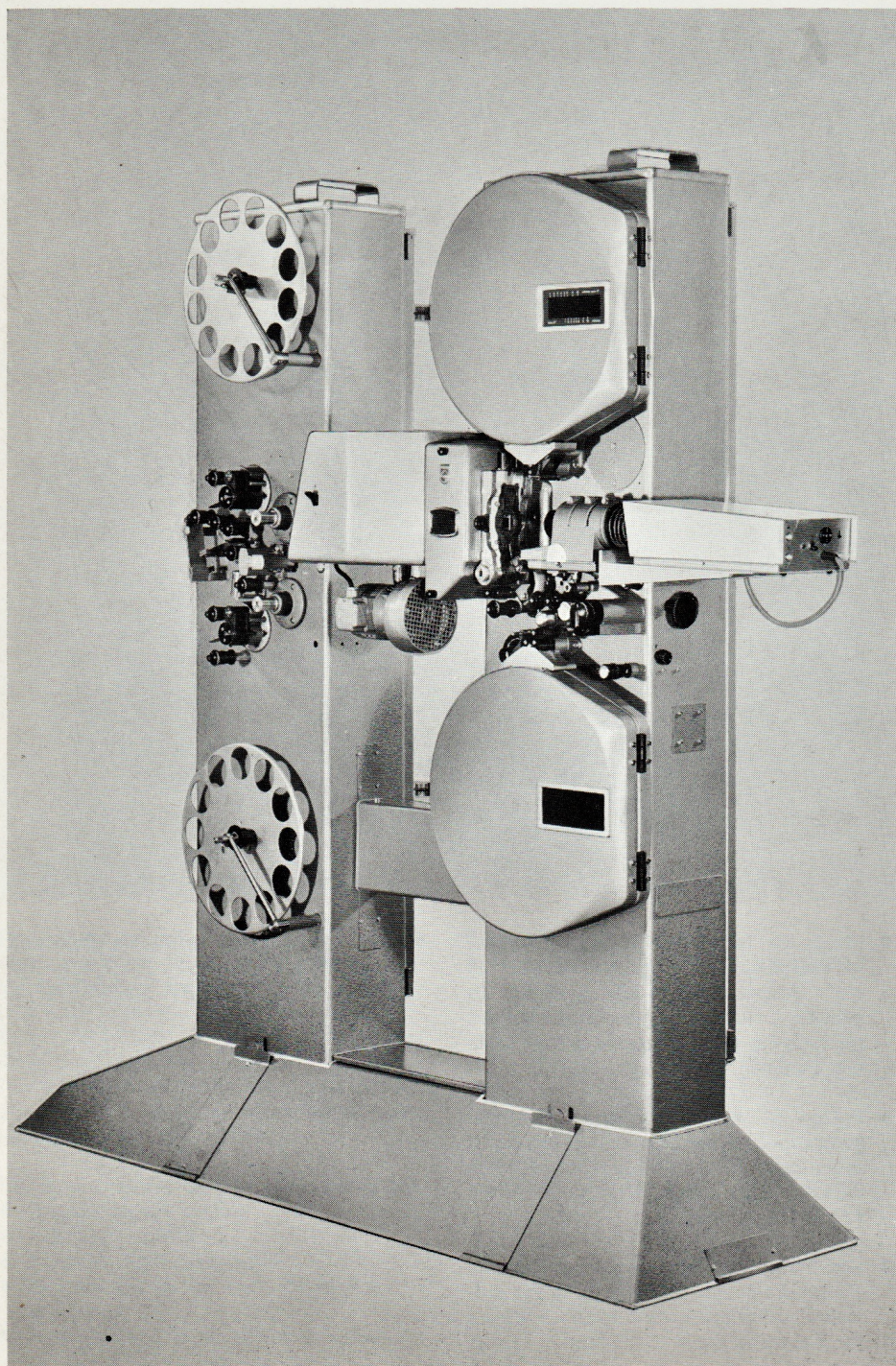
This lamphouse is also designed to replace arc lamps of older projectors by a pulsed discharge (SPP) lamp, thus modernizing the equipment and providing it with all the features of this light source, viz:

- High luminous flux at low power consumption
- Flicker-free projection
- No smoke, dust, or gas development
- Minimum heating of the film
- Very simple operation
- Suitable for remote control and/or automation
- Low running cost.



- Philips BF lenses for 70-mm projection. 4" diameter, focal lengths from 2.14" to 6.9". Afocal attachments available to provide a stepless range of focal lengths for tailoring picture size to screen without cropping.
- Philips SP and SK lenses for 35-mm projection. Super fast F/1.6 lenses in focal lengths from 1.8" to 4.15"; F/1.7 in EF 4.35" and 4.55"; F/1.8 in EF 4.75"; F/2 in longer lengths.
- Kiptar Anamorphic lenses for CinemaScope projection. This lens is of the preferred spherical construction. Focuses for distances down to 17 feet.
- High speed lenses for 16-mm projection, in focal lengths of 1.4", 2" (F/1.3), 2.5" (F/1.6), 3" (F/1.7), 3.55" and 3.95" (F/2).

Perfotape Reproducer, type EL 4300



This machine is for the reproducing of separate sound tracks on perfo-tape, synchronised with the picture projection, and is used in previews.

The machine can be delivered chain-coupled to the projector FP 20 G or FP 20 X, for reproducing 35-mm magnetic and 35-mm optical sound tracks, or 17.5-mm and 35-mm magnetic sound tracks (see illustration, photograph shows adaption for film scanning), but also as a separate unit with its own synchronous and interlock motors.



PROJECTION EQUIPMENT

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