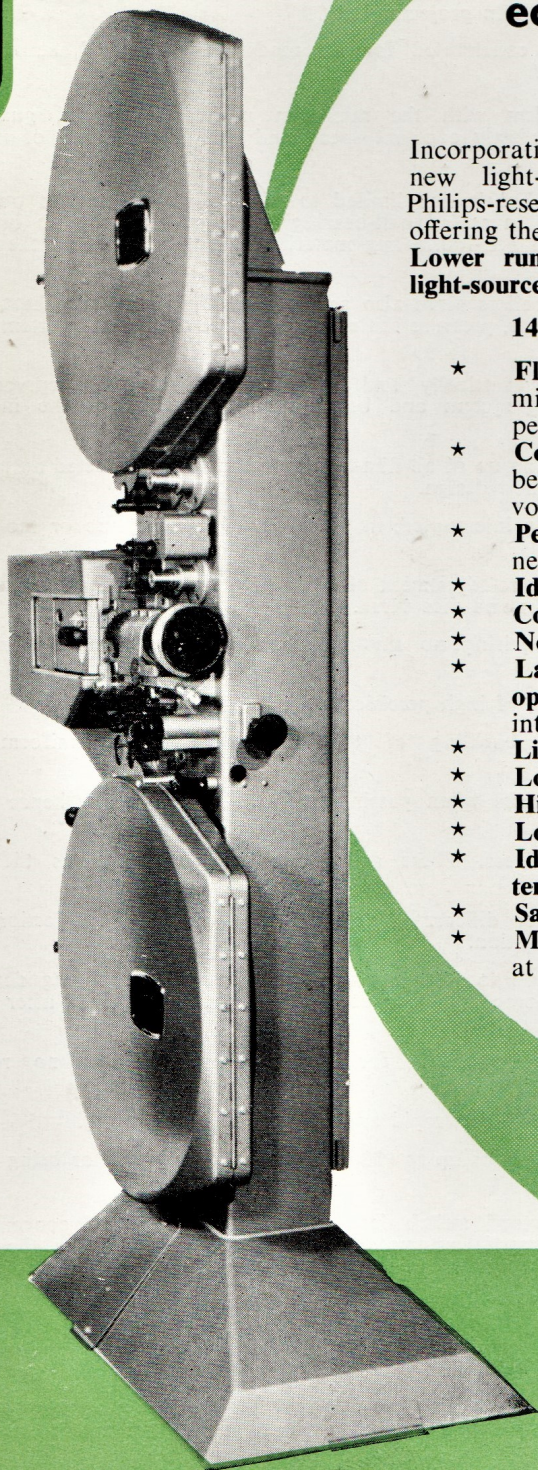


FP 20- S

the new **PHILIPS** 35 mm Projector with the

economical SPP lamp.



Incorporating the SPP800 gas-discharge lamp, a brand new light-source representing the fruit of years of Philips-research, making a shutter superfluous and thus offering the highest luminous efficiency.
Lower running costs per Lumen than with any other light-source.

14 "HIGH LIGHTS"

- ★ **Flicker-free projection**, even at much higher luminous intensities than normal. 72 light-pulses per second
- ★ **Constant luminous flux**, irrespective of the number of operating hours and irrespective of mains voltage fluctuations
- ★ **Perfectly uniform brightness**, right into the corners of the screen
- ★ **Ideal colour-rendering**
- ★ **Completely safe operation**
- ★ **No flue or exhaust system needed**
- ★ **Lamp can be replaced without interrupting operation**. Automatic lamp exchange precludes interruptions of the performance . . .
- ★ **Light-source requires no adjustment whatsoever.**
- ★ **Low energy consumption** . . .
- ★ **High luminous efficiency** . . . } greatest economy!
- ★ **Low running costs** . . . }
- ★ **Ideal for remote control and automatic systems**
- ★ **Saves space in projection room**
- ★ **Minimal heating of film**, hence good definition at all times . . .

The projector that meets all the wishes of EXHIBITOR and PROJECTIONIST.

Pathe Equipment Ltd.

177, WARDOUR STREET, LONDON W.1

Phone : GERrard 1544

BRANCHES : CARDIFF, GLASGOW, LEEDS, MANCHESTER

AUTOMATION!

Fully automatic
change-over device available.

and also these Pointers TO PERFECTION IN SOUND AND PROJECTION

- 1** Entirely new construction by the designers of the well-known Philips 35 mm FP projectors and the universal 35.70 mm projector DP 70.
- 2** Not adapted to, but specially constructed for all modern systems of standard film projection.
- 3** Simple, sturdy driving mechanism with the minimum number of gears, guaranteeing great reliability in operation, perfectly constant speed and complete absence of noise and vibrations.
- 4** Very little maintenance needed. Lubrication limited to oil-bath of intermittent mechanism. All spindles and shafts enclosed in sealed ball-bearing housings, requiring no lubrication, and all guide rollers are made of self-lubricating material. No oil splashes on the film and no oil-seal problems.
- 5** Simpler film-threading. Firetrap rollers serve also as feed and hold-back sprockets, and the firetrap door as pad shoe. Film gate, pressure skate and pad shoe of the intermittent sprocket constitute a single unit.
- 6** Superior picture stability both vertically and horizontally by use of curved runner plate with special lateral guiding system and bearings on both sides of the intermittent sprocket.
- 7** Faultless running of the film. Lining up of all film-transport elements is effected automatically by a system based on an entirely new design.
- 8** Safety system. Light automatically interrupted, in the event of film rupture or too low film speed.
- 9** Skate pressure indicator facilitates re-adjustment of skate pressure when changing over from steel to velvet-covered runner faces and vice versa.
- 10** New central framing device, requiring no shutter phase correction. Hence a simplified, reliable driving mechanism.
- 11** Light-weight intermittent sprocket, of high precision.
- 12** Curved runner plate prevents buckling of the film and ensures uniform picture definition.
- 13** Splices subjected to minimum stress when passing over the runner plate, hence less risk of film rupture.
- 14** Simple interchange of runner faces. These are reversible, which doubles their useful life.
- 15** Masks readily interchangeable for different aspect ratios, even during projection. Masks automatically snap into correct position.
- 16** Lens holder suitable for lenses up to 70.6 mm diameter. Lens holder sliding device with high-precision parallel guiding, completely free of backlash and idling even after years of use.
- 17** Lenses rapidly and easily interchangeable for different aspect ratios; no refocusing necessary.
- 18** Graduated scale on lens holder facilitates rapid and accurate initial focusing.
- 19** Uninterrupted projection of film lengths up to 6000 ft (1800 m), this projector being normally equipped with 6000 ft spool boxes.
- 20** Combined "start—change-over—stop" switch leaves projectionist free to concentrate his attention on the picture. The lamp is automatically switched on as soon as the film has attained its full speed. When the motor is switched off the lamp is also switched off automatically.
- 21** Projector available in two versions: a) for optical sound and b) for optical and magnetic sound. Version a) can always be readily modified into version b). Both versions can be supplied with slide attachment.
- 22** Separately driven film sprocket between upper spool box and magnetic soundhead guarantees uniform film speed at the scanning spot and hence undistorted sound reproduction.
- 23** Electrical remote-control device for picture focusing available on request. This enables focusing to be effected near the screen, where the definition can be better judged than in the projection room.



SPP PULSED DISCHARGE LAMP.



ILLUSTRATED. ACTUAL SIZE