

## Short Description of the New F.C. Projector

The application of the Fixed Optical Centre system, which has been found most desirable in a projector, has been adhered to, and the same famous principle as incorporated in the D.C. model is in use in the new F.C. model.

One advantage of this system is that the passage of the film through the gate is constant, and there is no pulling of the film when racking, for when an alteration to the racking movement is made, the film track travels with the film itself.

An entirely new train of gearing of the spiral type has been adopted throughout the mechanism. This is not only found to be quiet in use when new, but it has that property of becoming more silent as it is worn in. This gearing is cut in the most exacting manner by special machinery, under care and supervision of highly skilled engineers.

The Maltese Cross—figuratively speaking, the heart of the mechanism—is entirely enclosed in an airtight oil bath, and the complete unit can be rapidly removed and a new one substituted in a few moments. The film track has no side flanges and thus accommodates films of slightly varying widths. The warping of the film during its passage through the gate, and consequent fluctuation of focus, cannot therefore occur with this machine.

The new method of construction, making the film track a portion of the sliding frame, together with the intermittent and other mechanism, ensures remarkable freedom from "flapping" of the film.

An automatic cut-off which is positive in action is of vital importance to any projector. The cut-off the Ross Projector is of a new type and amply complies with the fullest requirements demanded of such apparatus.

The Stand is a departure from the usual lines of projector support. A massive deep tripod casting forms the foot upon which the interchangeable extension piece is fixed. These extension pieces range from 4 ins. to 16 ins. in height and are fitted according to requirements. Upon the extension piece is built a conical section standard which connects the table top carrying the complete mechanism.

The Ross High Intensity Searchlight Arc, which is fully patented and now in general use, was designed to meet the requirements of the projection room in a manner which provides for efficient illumination of the picture under all conditions. The results which can be obtained by judicious use of the lamp are unapproachable by any other type. Although originally designed purely for High Intensity illumination, this lamp can be used with ordinary carbons and a current density of 20/30 amps. with a voltage of 50/55 across the arc terminals. With this method is produced an efficiency of illumination unequalled by any other arc used as low intensity.

The Ross Projector lens creates a new standard. It offers a combination of advantages hitherto unobtainable in any projection lens. It is now being used in the leading cinemas all over the world.

**WHATEVER  
THE  
PROGRAMME**

**- it's projected  
better with a  
ROSS**

**JACK SMITH**  
"RED CHIEF"  
Featuring

**ROSS**  
**ROSS**

**ROSS  
PROJECTOR**





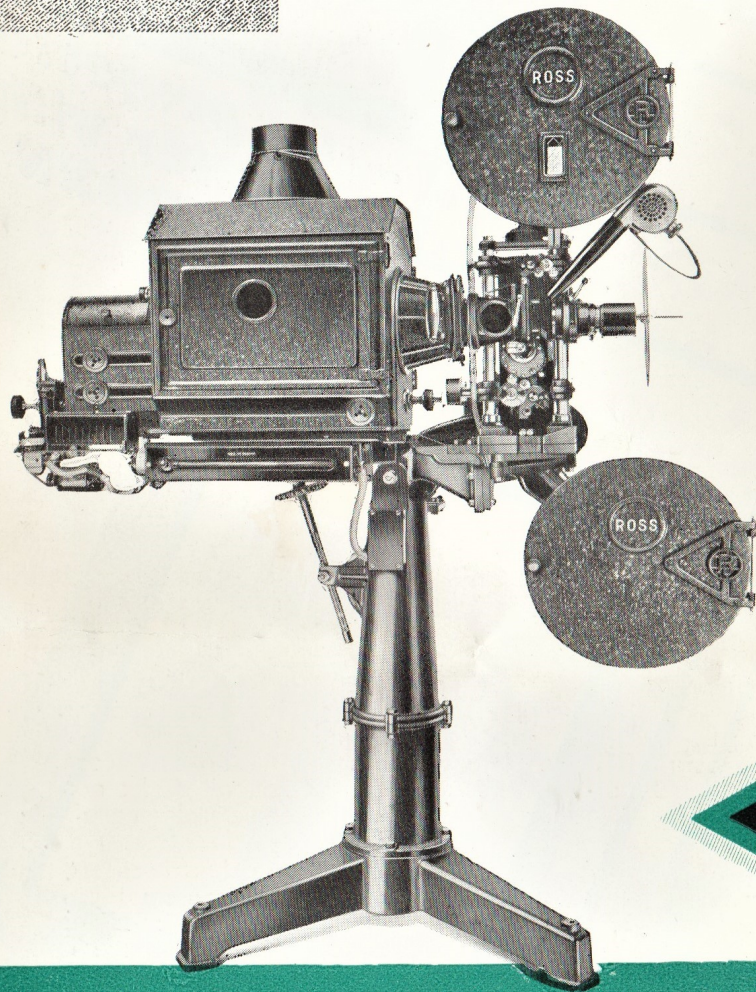
# ROSS — *The indispensable Feature!*

From their first introduction Ross Projectors have been known by the trade as the "Rolls Royce" of projectors.

The design, workmanship and wearing qualities were far in advance of anything then obtainable whilst from the standpoint of projection it was unanimously agreed that Ross Projectors were in a class by themselves.

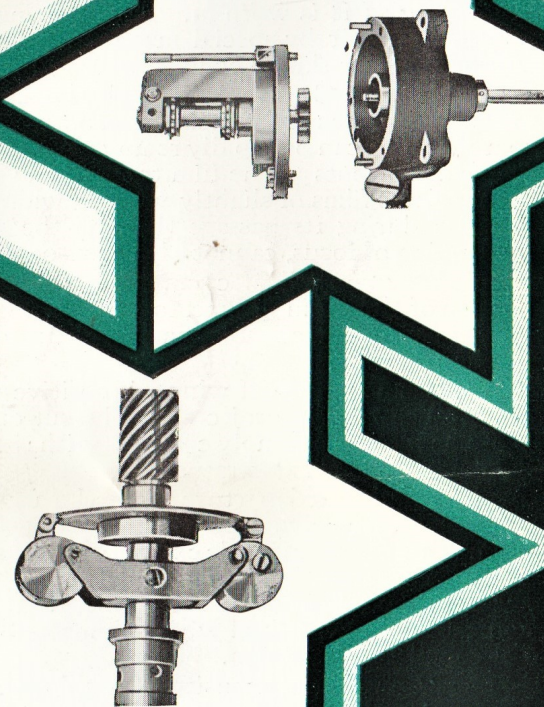
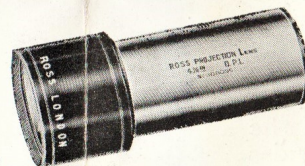
Continual and untiring research has led to several and unique improvements, so that the Ross Projector remains the finest machine obtainable.

With the introduction of sound producing systems came many new problems to projection, the complete answer to which is seen in the new Ross F.C. Model, the design and construction of which are such that the F.C. Model was at once accepted as the best, and certainly most efficient for all sound producing systems now in use.



## SPECIAL FEATURES of the New F.C. Model

Fixed Optical Centre	Improved Film Track
Spiral Gears throughout	Fine Focussing Adjustment
Interchangeable Maltese Cross in Oil Bath	New Adjustable Stand
Controlled Lightspot area	Ross Searchlight Arc Lamp
	Ross D.P.L. Projection Lens



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