



A DIVISION OF LITTON INDUSTRIES

DATA SHEET

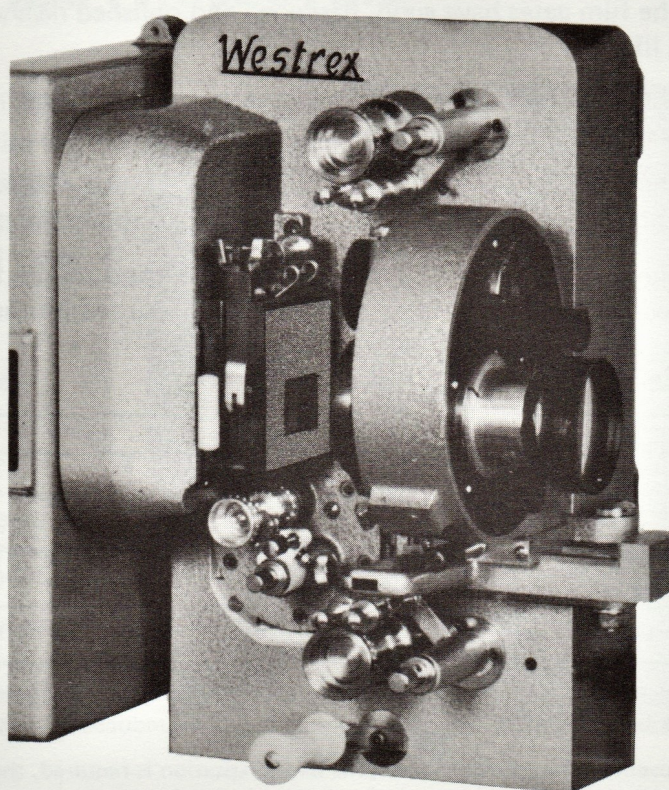
CINEMA DIVISION

5000A 35/70 mm FILM PROJECTOR

INTRODUCTION

The British-made Westrex 5000 series of system-engineered equipments has been designed to meet the needs of all current and anticipated formats for all types of cinema theatres.

The 5000-A 35/70mm Projector combines maximum facilities with rugged, enduring construction. It can project films in 70mm and in all 35mm formats with minimum operation adjustment. Future developments will include the provision for automatic and/or remote control.



MAIN FEATURES

The open-type mechanism of the 5000A Projector (for both 35 and 70mm film) incorporates the following important features :

- (a) Triple lens turret for 70mm diameter lenses.
- (b) Single rear shutter.
- (c) Picture changeover device.
- (d) Water-cooled gate mounting.
- (e) Easy access for inspection or cleaning.
- (f) Interchangeable gate assemblies and pad arms for 35mm and 70mm film.
- (g) One each interchangeable 35mm standard, 35mm Cinemascope and 70mm aperture plates with pilot aperture.
- (h) Toothed rubber belt drive for smooth power take-off from sound reproducer.

SPECIAL POINTS

1 The application of the projector and its associated Westrex sound reproducers (See Data Sheets DS/T 105 and 106) can be changed with a minimum of operator effort for 35 or 70mm film, employing any aspect ratio.

2 Three 70mm diameter lenses are rapidly interchangeable by use of the triple lens turret. Or the lens turret can be replaced by a single lens mount for 101.60mm diameter lenses (used with 70mm film where a shorter focal length lens is required). There is independent focussing for each of the three lenses.

SPECIAL POINTS continued

3 The swing-away 'anamorph' mounting (Westrex 5004-A) provides maximum rigidity and stability, with a rock-steady picture. It will accept most types of cylindrical 'anamorphs' of British, Continental or American origin.

4 A straightforward assembly of gears and shafts — with fewer than the usual number of parts — drives the mechanism and reproducer, keeping stress and wear at a minimum. There are no oil baths or sprays. Bearings are grease-sealed. Glass hard steel gears drive non-metallic gears for quiet operation. High-speed gears drive low-speed gears to achieve stable smoothness.

5 The film gates have solid, hardened and polished heavy-duty steel runners for longer service life.

6 The film can be run with very light tension, resulting in sharper overall in-focus pictures. The clean simple design permits easy, fast film threading.

7 The design (of the gate, tensioning device, water-cooled gate mount and rear shutter) avoids problems of defocussing, permits sharper focus and protects the film.

8 Simultaneous change-over of both picture and sound, from one machine to the other, is achieved by depressing a single push-button mounted on the pedestal.

DIMENSIONS & WEIGHTS (APPROX.)

DIMENSIONS	ANGLE OF PROJECTION		
	17° NEG. (DOWN)	ZERO	5° POS. (UP)
A OVERALL HEIGHT	89in. (226.1cm)	92 1/8 in. (234 cm)	93 in. (236.2 cm)
B FRONT WALL TO PEDESTAL	21in. (53.3 cm)	17 3/8in. (44.1 cm)	19 in. (48.3 cm)
C PORTHOLE HEIGHT	39 in. (99.1 cm)	49 3/8 in (125.4cm)	52½ in. (133.4 cm)

If a pedestal 3 in. shorter is required, the maximum negative and positive angles of projection are reduced to 7° & 5° respectively and dimensions A, B & C are reduced by 3 in. (7.62 cm.)

In the event that a special anamorphic lens adaptation is required, the Westrex Planning Engineer should be consulted for any slight correction to dimension B.

WEIGHTS	lb.	kg.
5000 Projector Head (with 3 lens turret or 5005 Single Lens Holder)	100	45.4
5001 Upper Spool Box	56	25.4
5002 Lower Spool Box	70	31.8
5003 Pedestal	282	127.9
5004 Anamorphic Lens Holder	3½	1.6
5006 Photographic Track Reproducer	48	21.8
5008 Commag Reproducer (1, 4 or 6 Track)	23	10.4