



A DIVISION OF LITTON INDUSTRIES

# DATA SHEET

## CINEMA DIVISION

### 5000C 35/70mm FILM PROJECTOR

#### INTRODUCTION

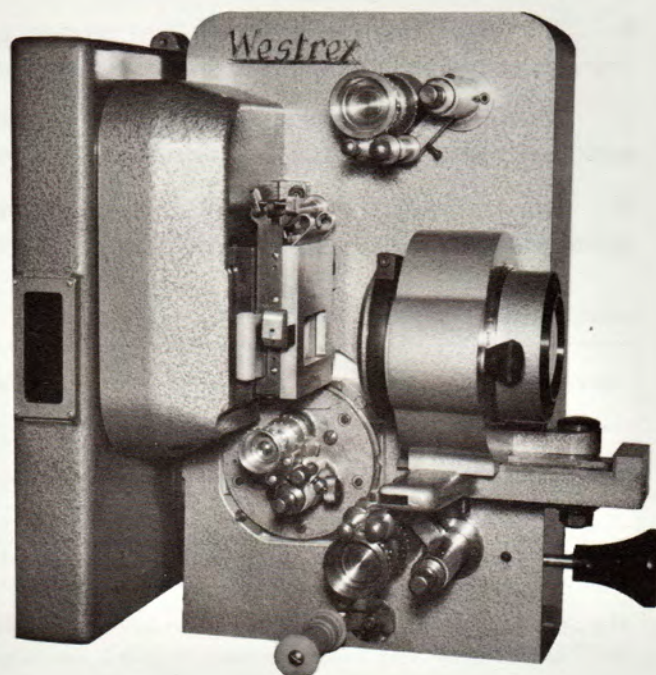
The British-made Westrex 5000 series of system-engineered equipments has been designed to meet the needs of all current and anticipated film formats for all types of cinema theatres.

The 5000-C35/70mm Film Projector has an open-type mechanism.

It combines maximum facilities with rugged, enduring construction.

It can project films in 70mm and in all 35mm formats with minimum operator adjustment.

Provisions for automatic and/or remote control are a feature of the design.



#### MAIN FEATURES

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

- (a) Single lens mount for 101.6mm diameter lenses (5005A).
- (b) Single rear shutter.
- (c) Picture changeover device.
- (d) Water-cooled gate mounting.
- (e) Easy access for inspection and cleaning.
- (f) Interchangeable gate assemblies and intermittent pad arms for 35mm and 70mm film.
- (g) One each interchangeable 35mm standard, 35mm CinemaScope and 70mm aperture plates with pilot aperture.
- (h) Low voltage framing lamp.
- (i) Toothed rubber belt drive for smooth power take-off from the 5006 Photographic sound reproducer.

#### SPECIAL POINTS

1. The mode of the Projector and its associated Westrex sound reproducers (see Data Sheets DS/T 105 and 106) can be set with a minimum of operator effort for 35mm or 70mm film, employing any aspect ratio.
2. The single lens mount and focussing device cater for a choice of 101.6mm 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