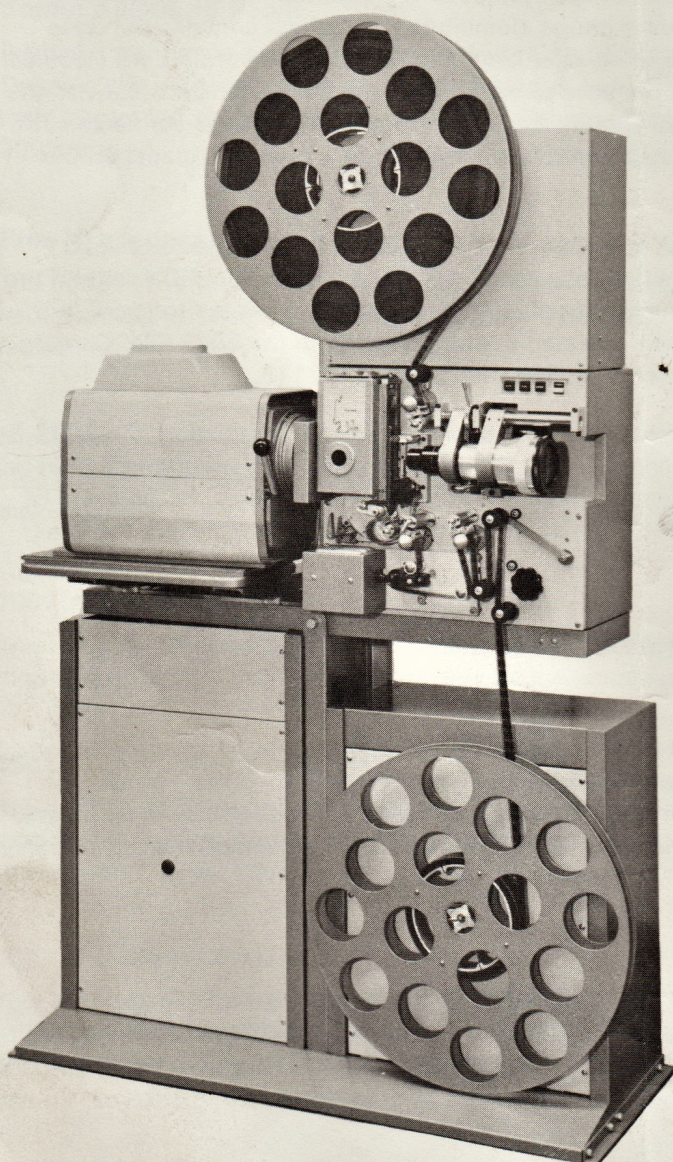




DATA SHEET

CINEMA DIVISION



WESTREX 7000

35mm SOUND

PROJECTOR

The Westrex 7000 Series of 35mm sound film projectors have been designed to reflect the changing needs of the Cinema Industry and to combine the potential of today's materials and components. Modern design is effectively allied to time proven techniques in the production of a modular sound film projector.

Essentially modular in design the 7000 will be equally effective in a straight forward single machine installation as it will be in multiple automated complexes. In the visual section of the projector a well proven design of intermittent unit using high grade components is combined with a parallel opening curved gate of generous dimensions. The use of steel reinforced polyurethane driving belts and generously dimensioned gear pulleys ensures long life with the minimum of maintenance.

The two-position lens turret is designed to allow format change without disturbing the focus. The turret is coupled to the aperture plate assembly and all lens surfaces can be cleaned without removal from the mechanism. The principal sub-assemblies of the projector are mounted on either side of a rigid dural plate and this plate is bolted to a heavy gauge aluminium case which contains the drive motor assembly and the D.C. power supply for the exciter lamp and film changeover unit. All electrical sub-assemblies are plug and socket connected for ease of maintenance and replacement; likewise the connections between the projector and external circuits are by means of push-on type connectors. In the manual version of the machine the illuminated controls are located on a small sub-panel on the main projector plate.

Primarily intended for mounting on the 7003-A or B Console Pedestal, the 7000 Projector can be readily adapted to most standard types of projector pedestal. The 7001-A Upper Spool Carrier and the 7002-A Lower Spool Carrier provide for spool capacity of 6,000 feet (1,828m) related to spool hub diameter of 8 inches (20.33cm) minimum. When operated in association with the 5035 Film Carrier film capacity is increased to 13,500 feet (4,115m) x 2. See Data Sheet DST/113.

The illustration shows the well known Orcon Xenon Lantern as the source of illumination, the 7003-B Console Pedestal and associated adaptation parts will accommodate any standard mounting Xenon or Carbon Arc Lamp. The lamp mounting table permits lamp adjustment in three planes. In the event of restricted headroom the 7003-B Console Pedestal can be provided to pay off the film from the lower rear section.

EQUIPMENT DETAILS

Gate Assembly

Parallel opening curved section hard anodised non-magnetic runners. Self balancing pressure springs on emulsion side of the film; this feature prevents de-focusing when projecting "green" prints. The gate spring is easily detached for cleaning or maintenance. Lateral film stability is achieved by means of a freely self aligning guide member. The gate assembly is protected from unwanted heat by a highly effective laminated Sindanyo heat shield.

Intermittent Unit

Geneva movement equipped with high grade cross cam and sprocket. The outrigger bearing of the sprocket shaft is detachable allowing removal of the sprocket without the necessity of removing the unit from the projector. To ensure perfect alignment the film gate and intermittent unit are mounted on a common sub-base.

Lens Turret

The two position turret features a common backing lens. A limited range of adjustment of wide screen images is provided by Magna Com adjustable lens. Motion of the turret is linked directly to the aperture plate in the gate, automatically changing aperture to correspond to the lens in use. Backing lens accommodation 70mm barrel by 2 inches—6.5 inch focal lens. Auxiliary lens accommodation barrel diameter 80mm.

Sound Scanning Panel

Insulated from main panel by semi-resilient mountings to reduce vibration of the Exciter Lamp filament. Dynamically balanced scanning drum running in high grade sealed bearings. Film damping by tight loop, controlled sealed damper unit. Pick-up photo voltaic cell. Typical output—40dB/.006 watt into 200 ohms.

Film Transport

The three film sprockets run on high grade sealed bearings and are driven by a double-sided steel reinforced polyurethane belt. Loop absorption is provided by a single acting fluid damper through a radius arm and roller.

Shutter

This is a conventional drum shutter incorporating automatic safety shutters. The design allows maximum passage of light even when used with short focal length mirror systems.

7001-A Upper Spool Carrier

The film pay-off assembly accommodates spools up to 6,000 feet (1,828m). The bearing housing is mounted on a rigid dural plate and heavy gauge aluminium case matching the projector in appearance.

7002-A Lower Spool Carrier

This unit of similar rugged construction contains a wide range torque motor and associated control unit. The torque is varied at start up by means of a Brimister which is automatically switched out when the projector starts. Intended for use with the existing conventional projector pedestals.

7003-B Console Pedestal

This spacious unit of rigid steel construction contains as a minimum the same torque motor assembly as the 7002-A Lower Spool Carrier but additionally provides adequate space for automatic control facilities and sound system. If height restrictions preclude the conventional film pay-off position this can be provided in the rear section of this assembly.

DIMENSIONS AND WEIGHTS
ALL DIMENSIONS EXCLUDING LENSES

	WIDTH	HEIGHT	DEPTH	WEIGHT
7000 A & B Projector	21 inches 53.34 cms. Power Requirements 240V 1ph. 50Hz—7000-A 60Hz—7000-B	19.5 inches 49.53 cms.	17 inches 43.18 cms.	95 lbs. 43.2 kgs.
7001-A Upper Spool Carrier	21 inches 53.34 cms. Power Requirements NIL	19.5 inches 49.53 cms.	12.25 inches 31.1 cms.	28 lbs. 12.7 kgs.
7002-A Lower Spool Carrier	21 inches 53.34 cms. Power Requirements 240V 1ph. 50/60Hz .65KVA	16.875 inches 42.86 cms.	12.25 inches 31.1 cms.	55 lbs. 25 kgs.
7003-B Console Pedestal	45.25 inches 115 cms. Power Requirements 240V 1ph. 50/60Hz .65KVA	36 inches 91.44 cms.	18.5 inches 47 cms.	230 lbs. 105 kgs.
Overall Dimensions—7000-A—B + 7001-A + 7003-B				
	45.25 inches 115 cms.	74 inches* 188 cms.	19 inches 48.26 cms.	353 lbs. 161 kgs.
*Level Projection. Height becomes 84 inches (213 cms.) with 6,000 ft. (1828 m) 25 inch (63.5 cms.) spool.				

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