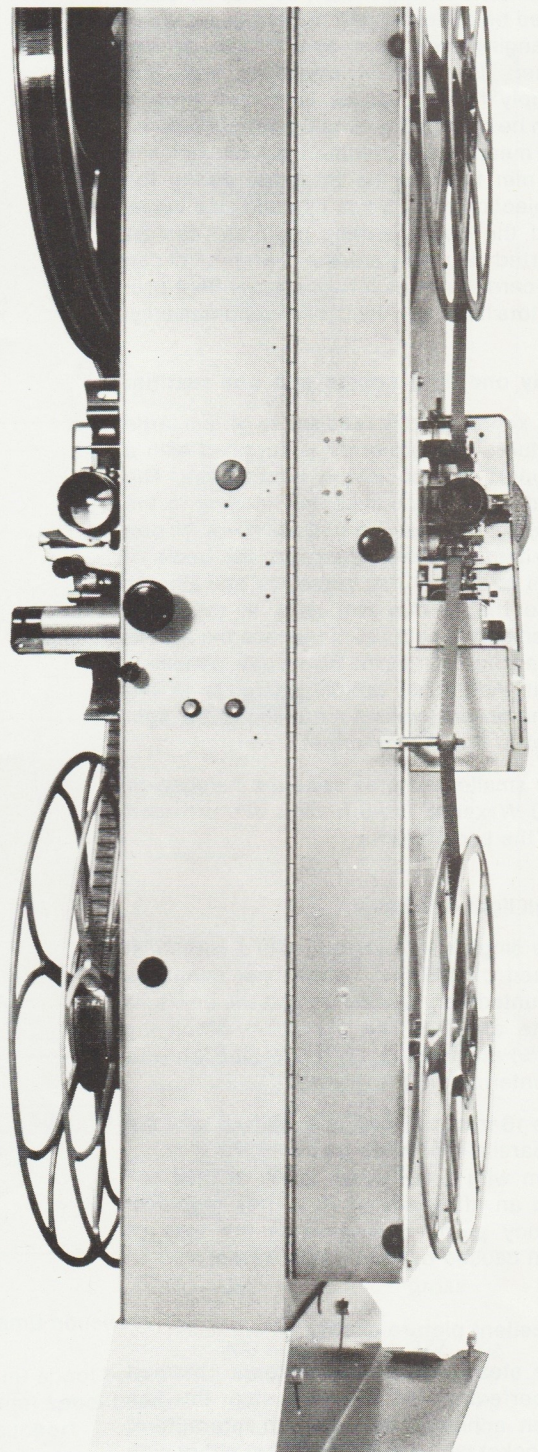




Double-purpose projector FP 26

- Suitable for both 16 mm and 35 mm films
- Separate film tracks for both systems
- Either system can be chosen without need to readjust or interchange any parts
- Direct change-over from 16 mm to 35 mm or vice versa
- Optimal light efficiency for both systems
- Simplicity of operation
- High reliability
- Little space required
- Built-in sound equipment
- Suitable for automatic programming
- Ideal solution for institutes and studio applications



The simple and reliable double-purpose system

The FP 26 projector is a combination of the FP 20 projector for 35 mm and the FP 16 projector for 16 mm films, which have both proven their high reliability. The front of the solid steel housing bears the complete film transport mechanism for 35 mm films, whereas the 16 mm mechanism and the amplifying equipment are mounted inside the strengthened rear door which can be swung round.

The two mechanisms operate entirely independent of each other and both have their own driving motor, so that no parts need be interchanged or readjusted when changing-over from one system to the other. The built-in amplifiers with the supply for the exciter lamp and dowsers can be changed-over to the format desired by means of a common switch. Since a 16 mm film can be threaded during the projection of a 35 mm film and vice versa, and the non-operating projector can be started at any instant, the change-over can be carried out as if two independent projectors had been used, even automatically.

Only one light source and one rectifier

If a xenon lamp is required to obtain large pictures, the projector is supplied with a support for the xenon lamp-house. The light cone which links this housing to the projector contains a hinged mirror. In one position the latter intercepts the beam of light to the 35 mm projector and directs it to the 16 mm film gate, in the other position the light beam reaches the 35 mm gate unhampered, the 16 mm gate remaining unlit. Additional optical elements in the cone ensure correct matching of the light spot to the 16 mm format.

For smaller pictures separate halogen or 500 W xenon lamp houses are provided for the two systems.

High light efficiency

The single-blade shutter with a rotational speed of 2880 revolutions per minute is mounted very closely behind the aperture plate and has the maximum efficiency (52%) attainable at 35 mm projection with an intermittent mechanism.

The 16 mm projector is equipped with the unparalleled Philips grooved-disk mechanism with a pull-down angle of only 55° and an efficiency of 72%. This high efficiency partly compensates the loss of light caused by the smaller format.

Excellent picture quality

The steadiness of the pictures obtained is perfect. In the 35 mm system this has been achieved by using an intermittent sprocket which is supported at either side by bearings, in the 16 mm system by using

a grooved disk mechanism combined with a precision intermittent sprocket provided with 12 teeth. Besides, the film gate of both systems is curved.

High-quality sound reproduction

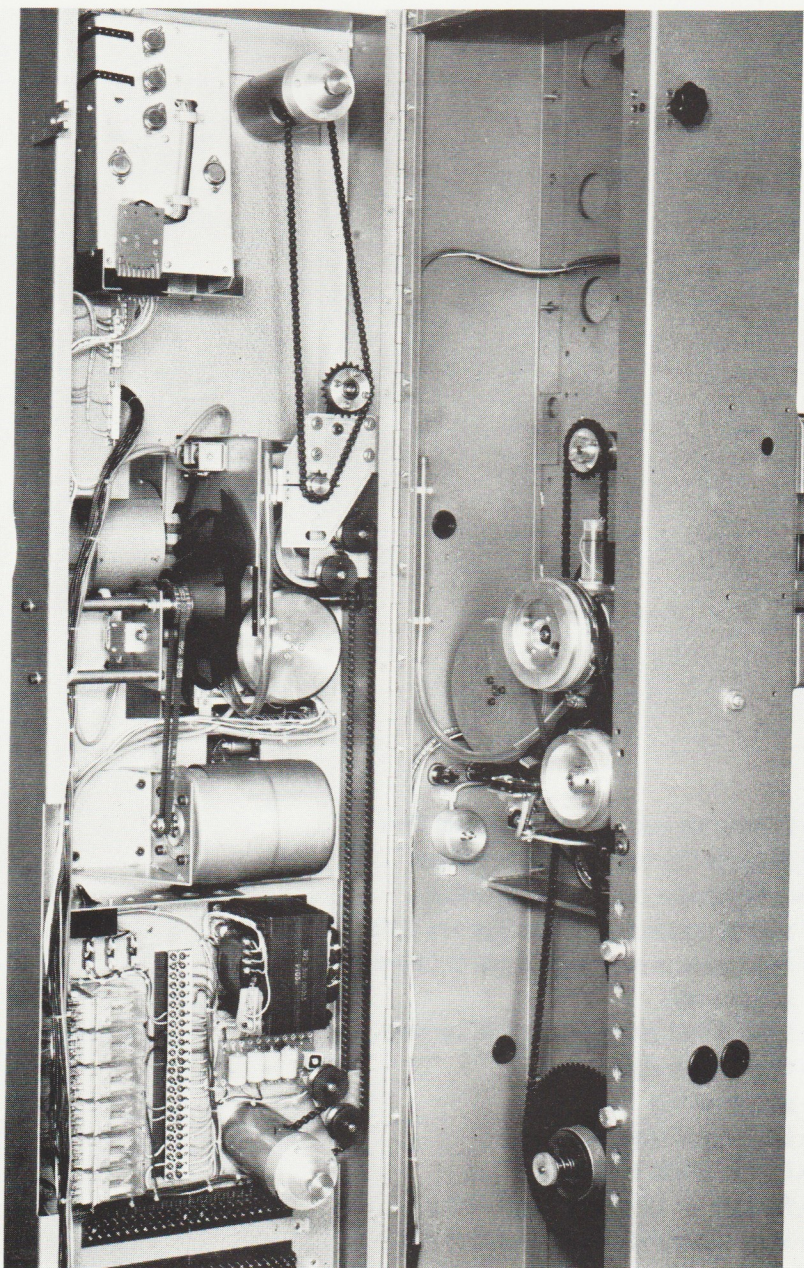
The sound reproduction of both systems is free of wow and flutter thanks to the precision ball bearings in which the rotating sound drums and pressure rollers run.

The use of optical systems which produce sharply defined slit optics of uniform inten-

sity, solar cells and entirely transistorized high-quality amplifiers ensures an optimum frequency response.

Little space required

The FP 26 requires only slightly more space than a single 35 mm projector, which renders this double-purpose projector particularly suitable for the usually small projection rooms available for the auditoriums of institutes such as universities, schools, hospitals, and so forth and for the pre-view theatres of film and television studios.



Projector opened, on the left side 16 mm equipment, on the right side 35 mm equipment

Great compatibility

On request either system can be supplied with sound heads for films with a magnetic sound track. The 16 mm system is suitable for 5000 ft (1500 m) film spools, the 35 mm system can be equipped with 6000 ft (1800 m) film spools with a horizontal Non-Rewind device for 16 000 ft (5000 m).

The 16 mm system is always suitable for running either in the forward or in the reverse direction. On special request the 35 mm system can also be delivered to run in both directions.

An FP 26 and an FP 20 projector with a separate amplifying equipment can function as a normal set of 35 mm projectors; if desired the combination of the two can be operated entirely automatically by means of a programmer.

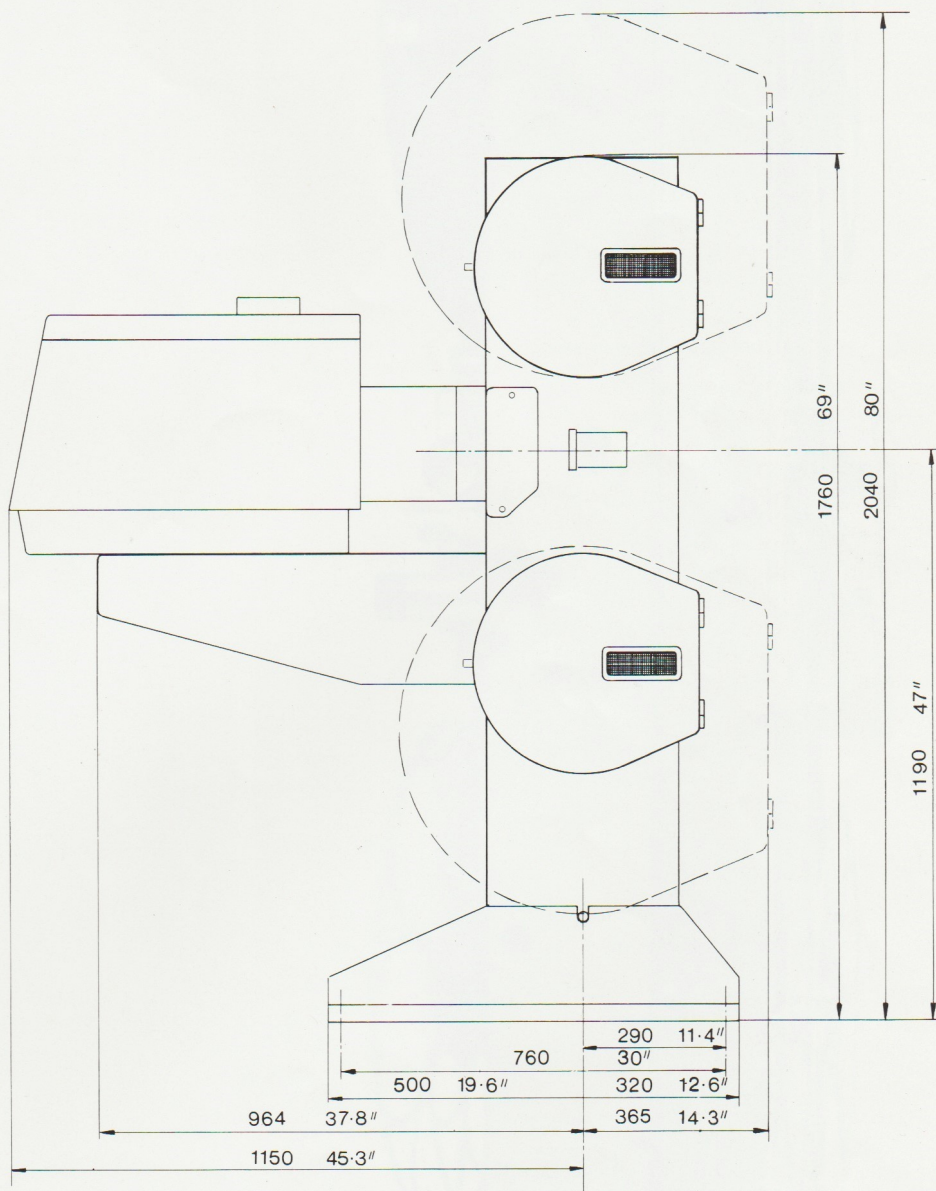
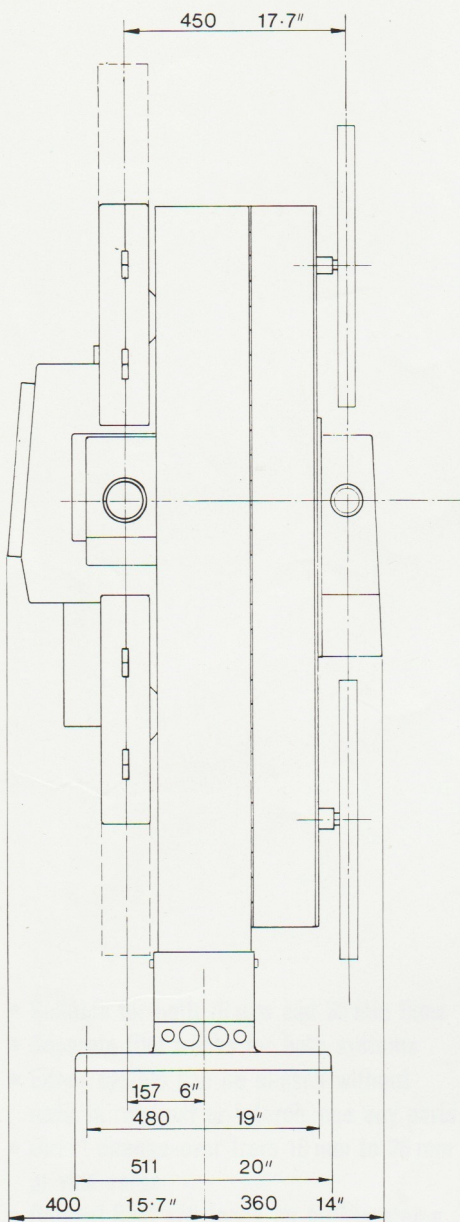
Long life and high reliability

The 35 mm intermittent mechanism and the 16 mm grooved disk mechanism both run in a closed oil bath. The chosen combination of a rapidly rotating gear wheel

and slowly running chain transmissions renders both driving mechanisms highly reliable and easily accessible for maintenance and servicing.

Simplicity of installation

The FP 26 projector with built-in amplifier needs to be connected only to the supply mains, the loudspeaker(s), and the light source supply. If a separate amplifying installation is employed, the clearly marked and easily accessible terminals facilitate the realization of the few additional connections required.



Weights

Weight excl. spool boxes, lamp-house support and amplifier

Weight of the 2000 ft (600 m) spool boxes
Weight of the 6000 ft (1800 m) spool boxes
Weight of the lamp-house support
Additional weight of amplifier

net

gross

200 kg 277 kg
10,5 kg 16,5 kg
39 kg 62,5 kg
17 kg 25 kg
3,5 kg

