

### INSTRUCTIONS FOR USE

The new 5 kW Stage-type Projektor has been designed so that subject to adhering to the few instructions given in what follows, optimum projection performance will always be obtained.

#### Mechanical Design:

The light-metal housing is supported by a rugged wheeled undercarriage. When erecting the unit at its site of use, the front castors are to be lifted off the floor by means of the locking spindles (1) for immobilizing the unit. The handwheel (2) for lateral adjustment is disposed the right rear side of the undercarriage, the handwheel (3) for height adjustment is located on the rear of the housing. Upon loosening of the two clamping screws (4) the slide carrier can be adjusted by  $+ 45^{\circ}$ . Moreover, the slides (size 18x18 cm) can be exactly adjusted individually with the aid of the adjusting screws (5).

#### Electric Connection:

For export the BP5 II is equipped with a  $3 \times 6 \text{ mm}^2$  silicone-covered cable with unserved end so that the type of plug needed can be fitted.

Colour code of the main connecting cable : Protective earth = green/yellow. Phase and neutral are to be connected to blue and black as may be desired.

A total of three low-noise tangential fans are incorporated for cooling of slides and housing.

#### 120 V Version

For operation from a 120 V a-c supply system, either special fans (120 V) are incorporated or an attached transformer with primary 120 V and secondary 220 V supplies the fans with 220 v. Primary and secondary are protected by indicating fuses which are lighting when blown. In this case, switch off the projector; otherwise, valuable slides could be damaged by overheating.

With the 220 v version the fans are protected by one indicating fuse.

Fitting the Lamp:

Operate knob (6) for the lamp carriage to go as far as the rear stop. Open lid (7) of unit and hinge mirror carrier away rearward. Fit halogen lamp 5000 watts with G 38 base into the lamp holder. Move clamping lever of lamp holder to position "LOCK".

IMPORTANT! Prior to projection be absolutely sure to move the lamp carriage forward (towards condenser) as far as the stop pin; otherwise, appreciable light loss would occur.

Adjusting the Lamp:

Each projector has been carefully adjusted in the works (lamp holder, reflector, mirror, condenser). Thanks to the low manufacturing tolerances of the tungsten halogen lamps (center of light  $\pm$  2 mm), readjusting the projector is not necessary.

Projections Lenses:

The focal length (f) of the lens to be used depends on the projection distance and the image size desired. It can be determined with the aid of Table A 13. Focussing the lens is to be made by forward and backward moving on the optical axis. Two knurled nuts serve to immobilize the lens.

Change Condenser:

The BP5 II normally has incorporated a front lens allowing the use of projection lenses with focal lengths  $f = 18, 22, 27$  cm. For using a 33 cm lens, B.Nr. 6504 change condenser and for using 40 and 50 cm lenses, B.Nr. 6505 change condenser is to be fitted,

SPECIAL ACCESSORIES

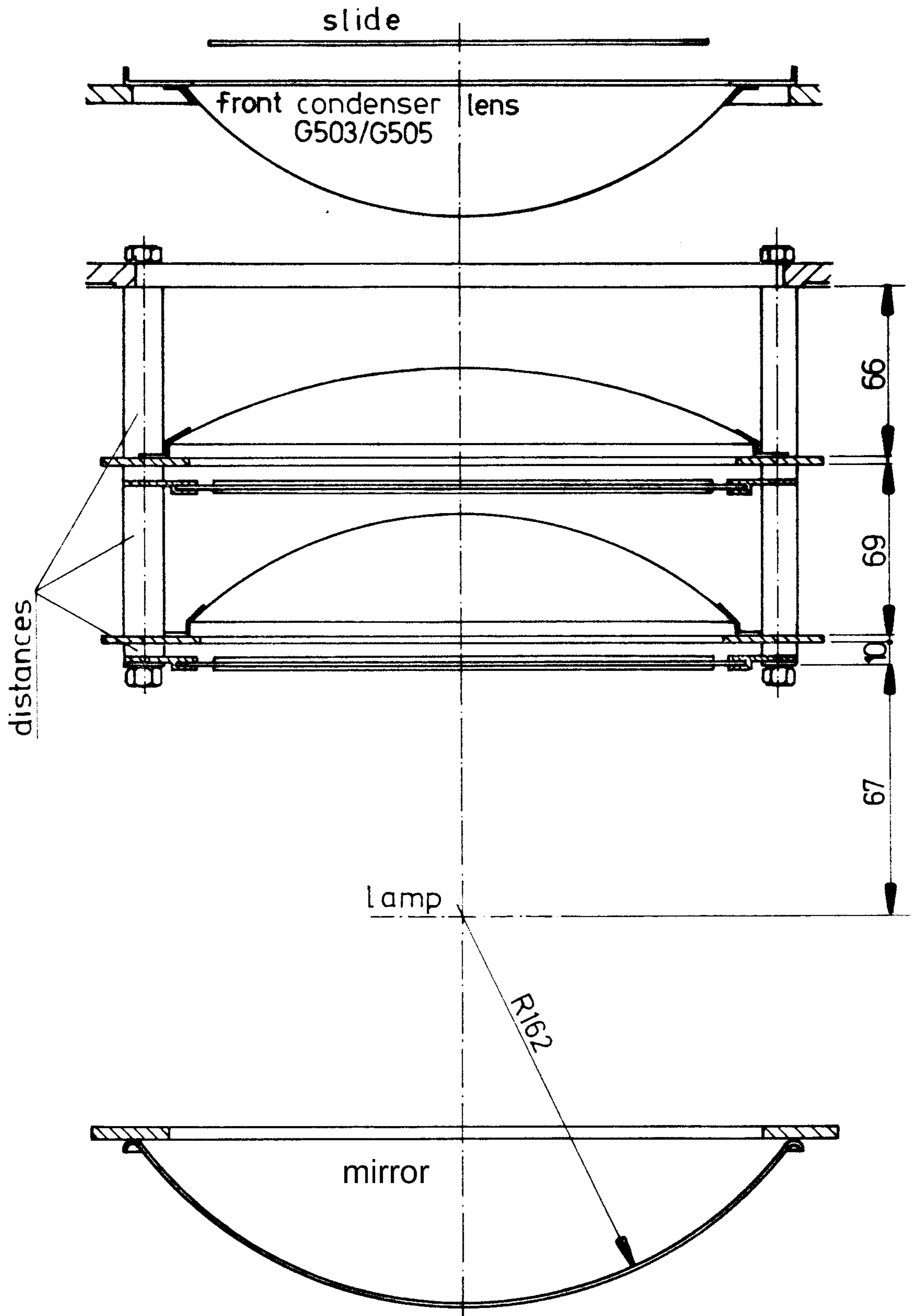
Deviating Mirror B.Nr. G 1501

for floor and ceiling projection

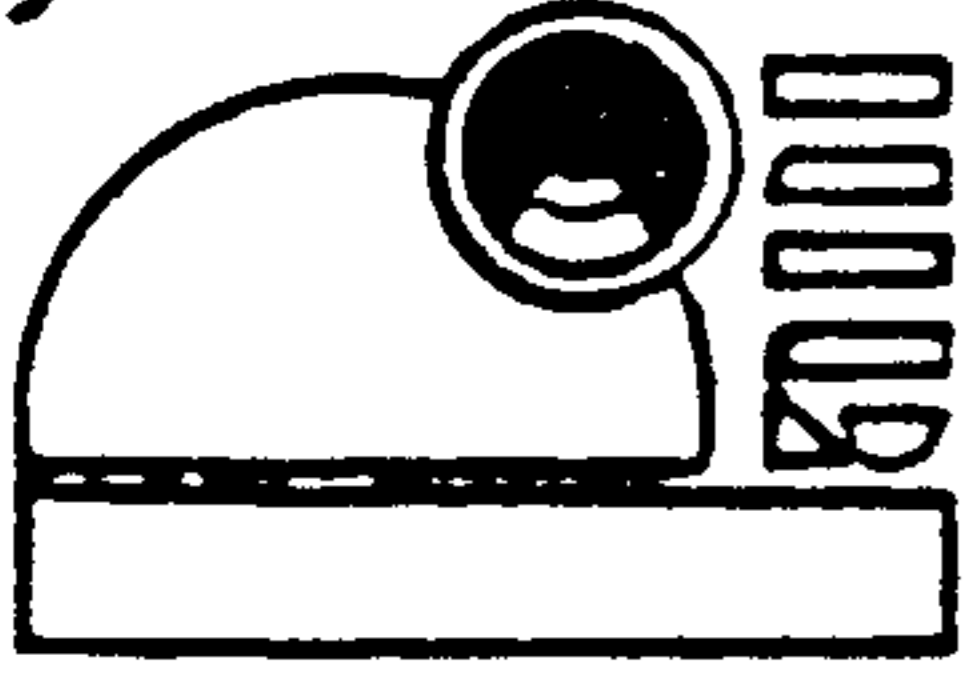
Effect Adapter B.Nr. G 1122

for projection of fire, water, clouds, haze, rain and snow.

# BP 5/II condenser system

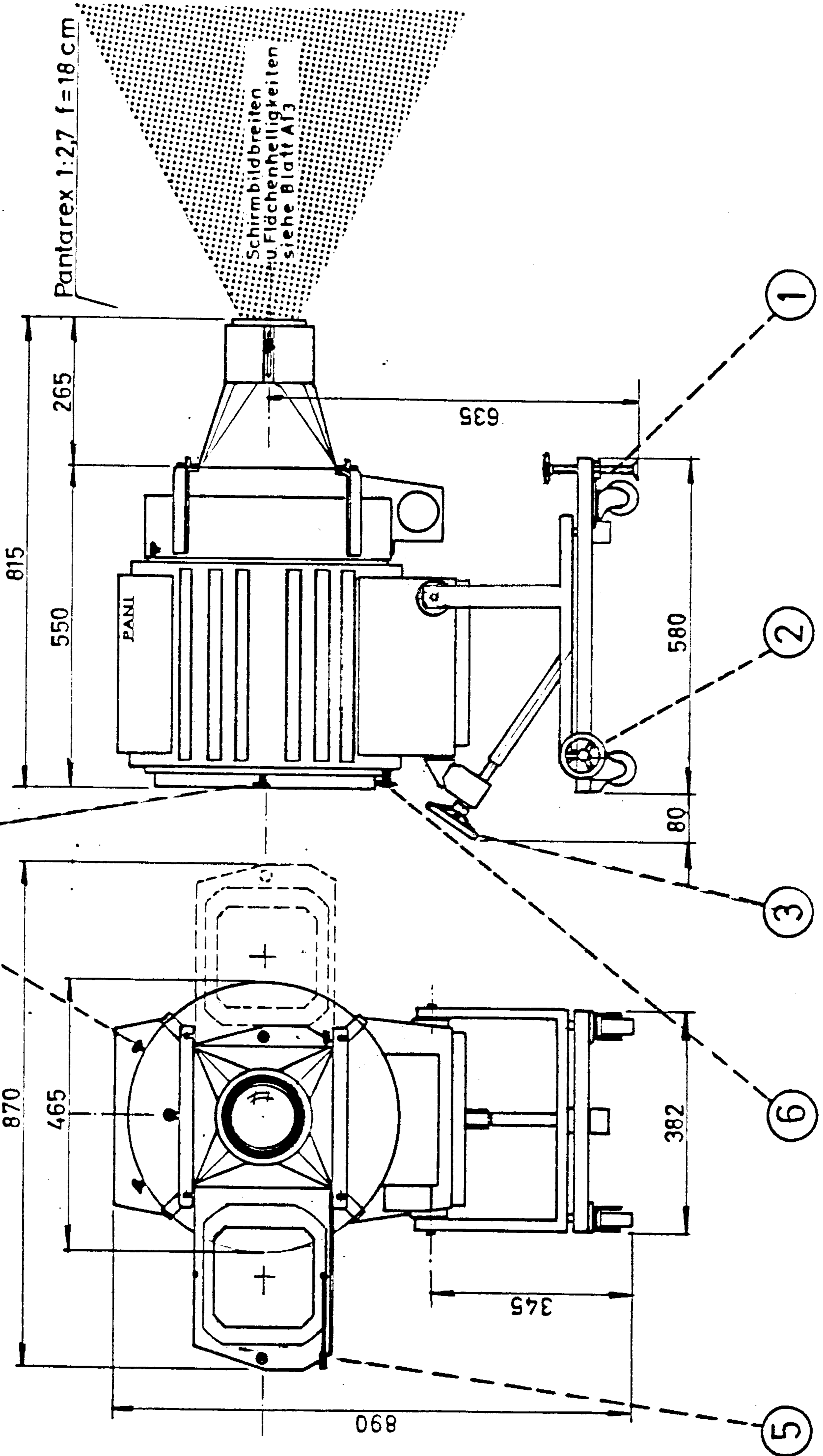


# Bühnenprojektor 5 kW TYPE BP 5 II



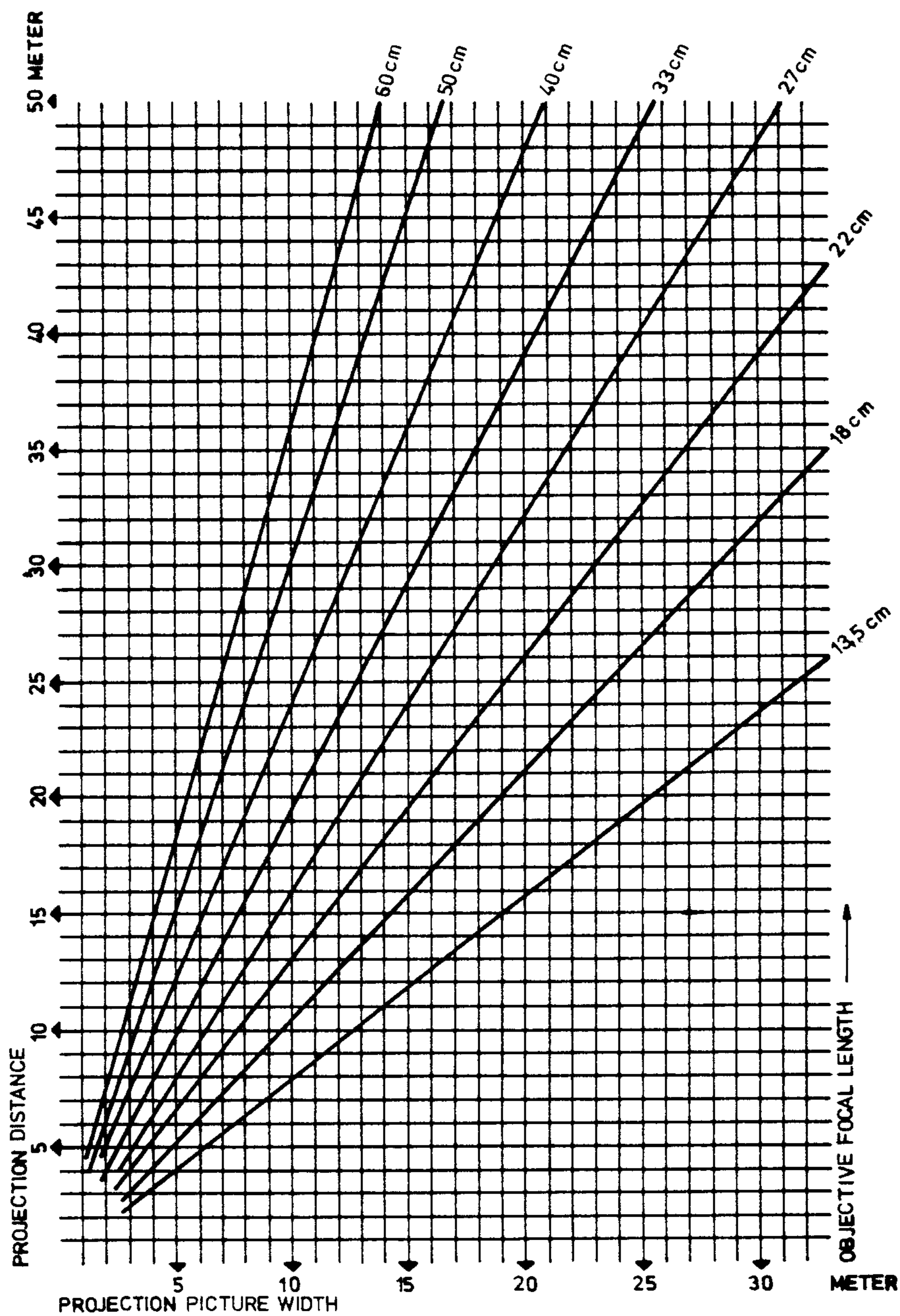
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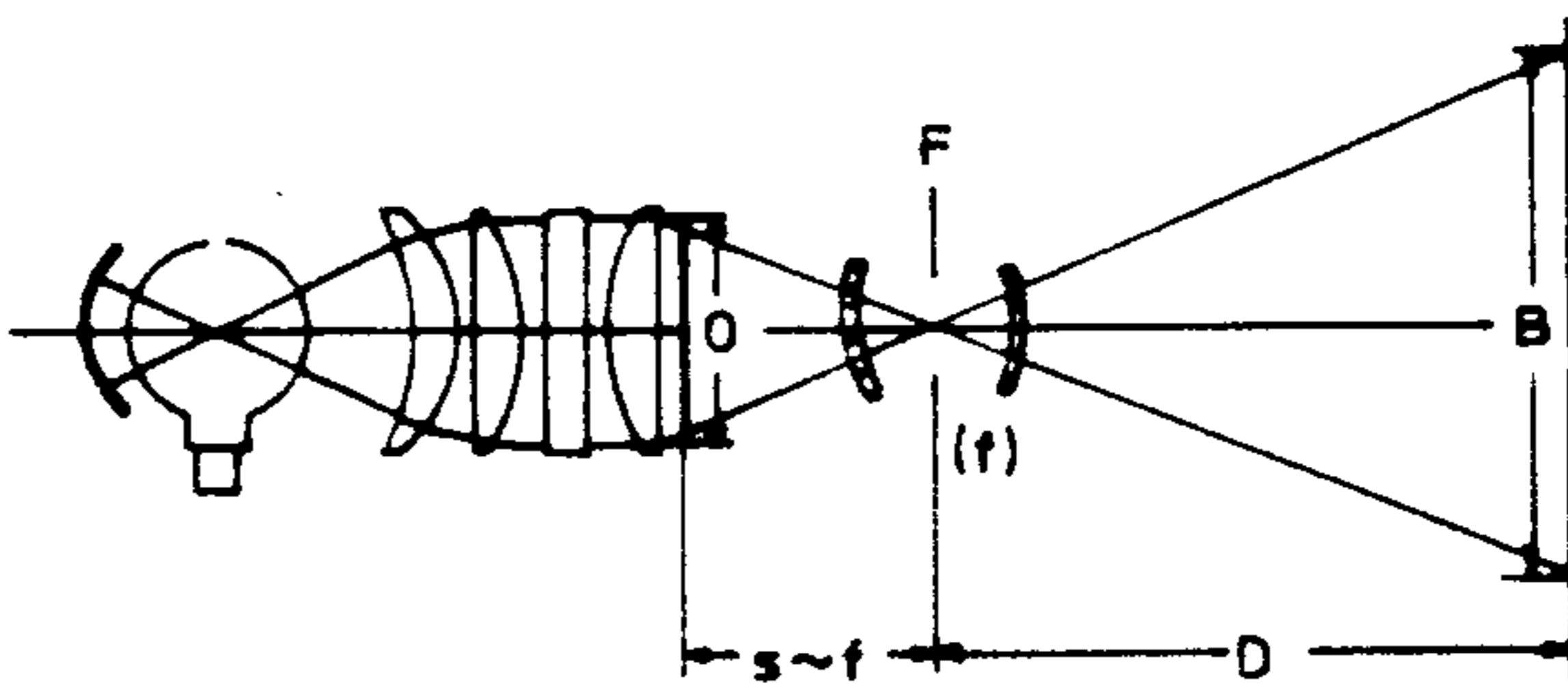


G05

# PROJECTION TABLE FOR BP 2, BP 1,2 HMI, BP 5, BP 4 HMI



projector  
pattern of the  
beam path



$$F = \frac{O \cdot D}{B - O}$$

$$B = O \cdot \left( \frac{D}{f} + 1 \right)$$

$$D = F \cdot \left( \frac{B}{O} + 1 \right)$$

F = desired focal length in cm

O = size of object (effective size of slide)

D = projector distance (measured at the middle of the object)

B = picture size