

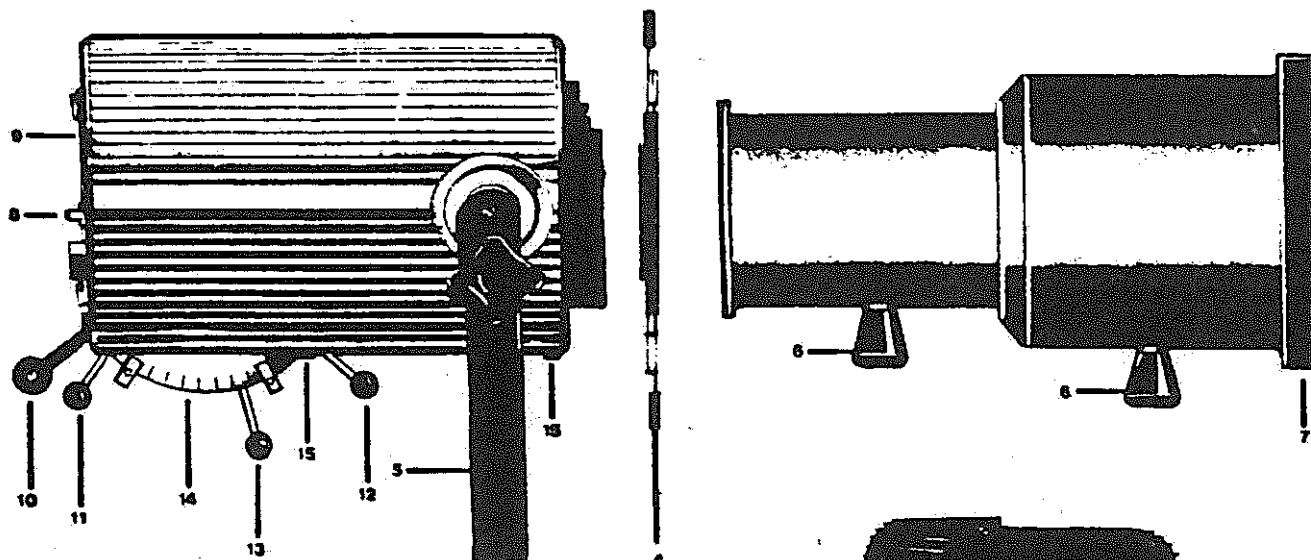
**Furse****Stage Equipment**

A Crown House Company

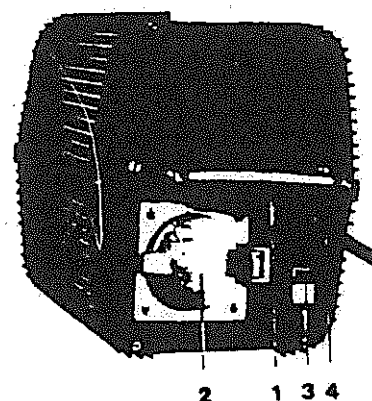
**1000 CSI**W.J. Furse & Co Ltd  
Traffic Street, Nottingham NG2 1NF

ref

date

**VARIABLE BEAM FOLLOW SPOT****Technical Data**

4. Beam shaping shutter control
5. Yoke
6. Lens slide control knob
7. Colour filter frame runners
8. Push button lamp start
9. Lamp access cover plate
10. Operators hand-grip
11. Black-out shutter control lever
12. Iris diaphragm control lever
13. Mechanical dimmer control lever
14. Graduated dimmer scale
15. Light spill baffle retaining screws

**1 kW BALLAST UNIT**  
220V or 240V.

1. Carrying handle.
2. Supply output.
3. ON/OFF switch L.E.D
4. 2 metre cable.

**WEIGHTS AND DIMENSIONS**

	SPOTLIGHT HOUSING	SIL. 15 LENS TUBE
NET WEIGHT	12.5 kg.	6 kg
PACKING	One unit per box	
GROSS WEIGHT	13.5 kg	7 kg.
DIMENSIONS	30 x 28 x 60cm	30 x 28 x 60 cm
GROSS VOLUME	.05 cu.m	.05 cu.m

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## Technical Data

### 1000w. C.S.I. FOLLOWSPOT

#### 1. General Information

The followspot houses a compact source C.S.I. 1000w. metal halide lamp.

A particular advantage of this luminaire is its focussing system using two mobile lenses. This facilitates a wide range of beam angles within a single lens tube, the front lens determines the beam angle, while the rear lens is used to focus the spot to a hard or soft edge. The control knobs screw tight to the lens tube securing the selected focus. A graduated scale is located parallel with the lens slide slot enabling a particular setting to be recorded.

Access to the reflector for cleaning is easily gained by removing the three screws (15) securing the bottom light baffle plate to the lamphouse.

All control levers are located beneath the rear of the lamphouse, enabling simultaneous one-hand control. The operators other hand remains free to direct the beam.

#### 2. Lamp Required

1000w. C.S.I. lamp, cold start type, with G22 base and 63.5 mm. light centre height.

Lamp life : 200 hours.

#### 3. Specification

##### Spotlight

1000w. followspot using a compact source metal halide lamp and fitted with:

- 1 yoke with centre hole for spigot mounting
- 1 connecting cable 3.0 m. long fitted with plug
- 1 rear handle
- 4 beam shaping shutters.
- 1 iris diaphragm complete with blackout disc
- 1 blackout shutter with control lever
- 1 mechanical dimmer with control lever
- 1 starter push button
- 1 colour filter frame

##### Lens Tube

- 1 15° lens tube fitted with two adjustable mobile lenses enabling beam angle adjustment between 11° and 22°.



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Ballast Unit

The ballast unit for the 1000w. C.S.I. metal halide lamp is fitted with:

- 1 ON-OFF switch with built-in signal lamp
- 1 female receptacle for supply output to spotlight.
- 1 carrying handle
- 1 2m. tail.

4. Assembly

The followspot has been despatched in three units:

- i. Ballast
- ii. Lamphouse, including beam shaping unit
- iii. Lens tube.

The Lenstube should be joined to the lamphouse by removing the four screws and washers which hold the beam-shaping shutter control unit to the front of the lamphouse. The lenstube is positioned on top of the beam-shaping unit and the screws and washers replaced. Care should be taken not to damage either the iris diaphragm or the blackout disc mounted directly in front of it. The spigot should be attached to the yoke using the centre hole.

5. Electrical Connection

A suitable plug should be attached to the lead of the ballast unit, in accordance with the following colour code:

Brown	-	Live
Blue	-	Neutral
Green/yellow	-	Earth

6. Fitting of Lamp

Remove the lamp access cover plate (9), exposing the lampholder. Insert the lamp in the lampholder, taking care not to handle the envelope with bare hands. The two pins are identical and the lamp may be inserted in the lampholder in either direction. This lamp operates on an arcing principle and there is no filament between the terminals within the quartz envelope.

The slight, yellowish, discoloration of the quartz envelope is normal and will disappear once the lamp reaches the designed operating temperature.

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**Technical Data**

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Caution

This lamp should not be operated unless the quartz envelope is quite clean, as heating when dirty results in permanent marking of the surface. It should be wiped with a clean cloth moistened with a solvent such as methylated spirit.

Warning

This lamp operates with a high internal pressure and there is a slight risk that the lamp may shatter, particularly if it is run on beyond its rated life. When the lamp is cold, it may be handled with ordinary precautions.

**7. Operation**

- i. Plug the followspot into the ballast unit and the ballast unit into the power supply.
- ii. Switch on the power at the ballast unit and depress the push button lamp start, mounted on the rear of the lamphouse. The push button should be released as soon as the arc is struck. Should the arc fail to strike immediately, then the lamp start should be depressed again.
- iii. If the followspot is switched off after it has reached its operating temperature then several minutes should be allowed for the lamp to cool sufficiently before the arc is able to restrike. If the period of time between followspot cues is too short to allow the lamp to cool sufficiently, an alternative method of dimming the lamp is by operating the blackout shutter control lever.(11) and the mechanical dimmer control lever (13). The effect of this action is to prevent light being transmitted via the lens tube, while maintaining the lamp at full power.
- iv. The life expectancy of the lamp is approximately 200 hours. In order that this may not be exceeded, a record should be kept of the running hours of the followspot.