

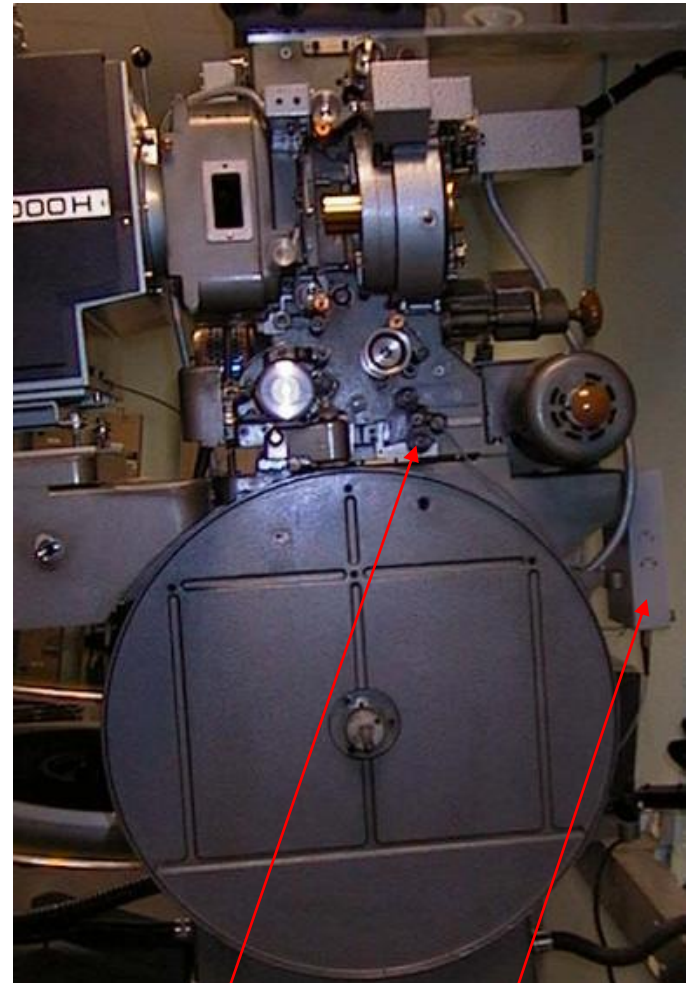
C019 Film Scanning Unit

The C019 Film scanning unit is part of the Cinemation 2000 system.

The equipment is operated by placing a small piece of self-adhesive silver foil over three sprocket holes on the opposite side of the sound track film. The foil is then punched by the film joiner, to re-perforate the sprocket holes covered by the foil.

The unit's two reflective infrared optical sensors continuously scan both marks and both rows of sprocket holes of the film.

This performs two functions: firstly, the detection of the film either breaking or splitting. Secondly, as they also count the portions of the film between the sprocket holes, a pulse train is created to confirm that the projector is running at its correct speed. If not the electronic circuitry will create an alarm condition whereby a total shutdown of the projector and xenon lamp is actioned.



Roller assembly Electronics box



Roller assembly



Electronics box