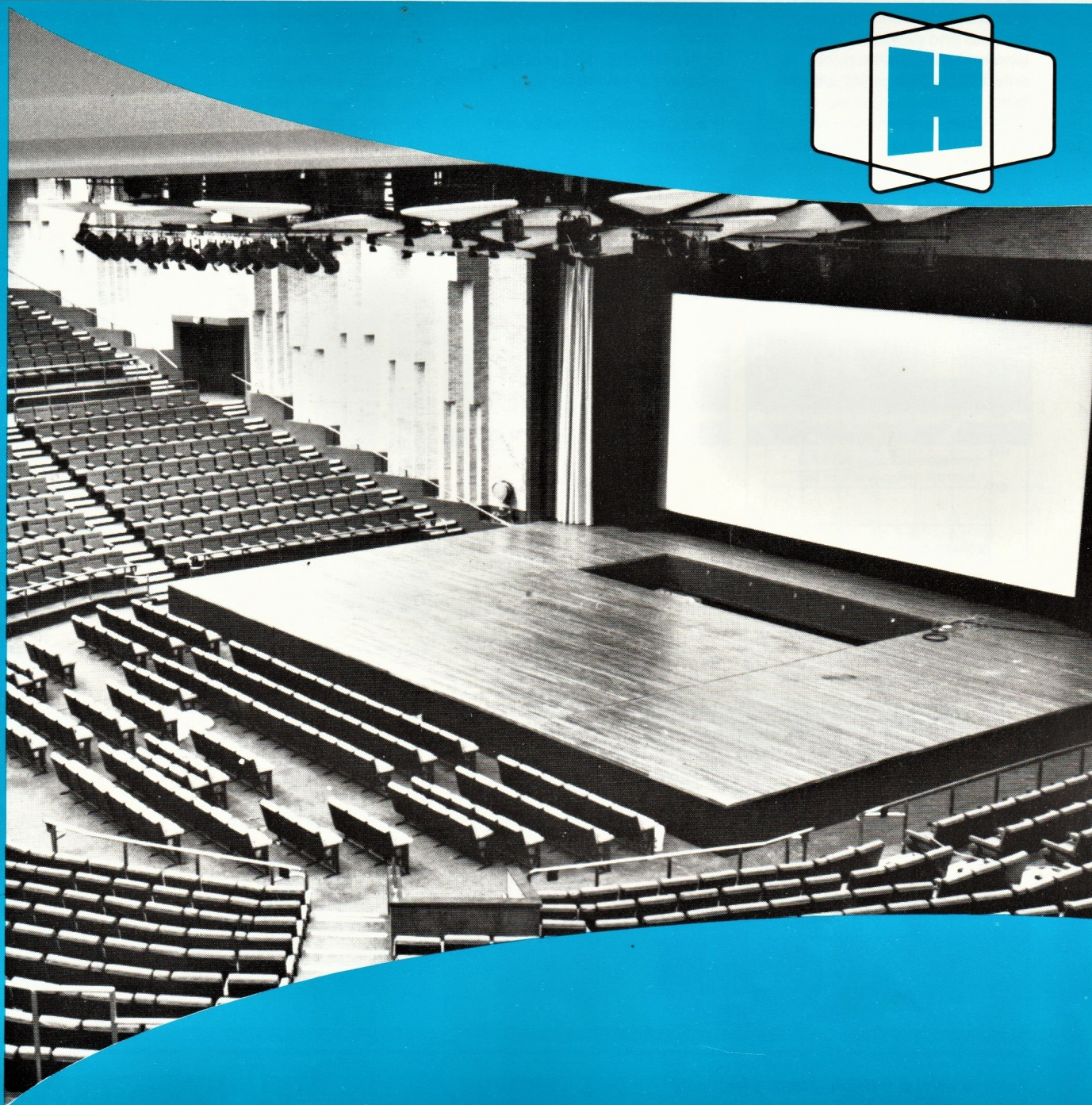
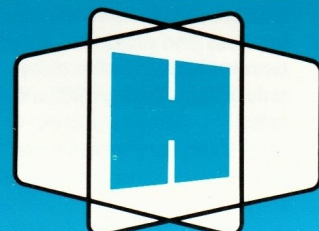


SfB (64)

UDC 621.39

HARKNESS...



Wembley Conference Centre is another Harkness Screens installation

are the
BIG SCREEN PEOPLE

1931 FIFTY YEARS OF SERVICE AND TECHNOLOGY TO THE FILM INDUSTRY **1981**

HARKNESS the creators

MATT WHITE

This material also forms the basis of Perlux, Silver Stereo and Deep Curve screens, and in its uncoated form provides an excellent budget-priced screen for general viewing. Constant scrutiny at the production stage of this material is made by our specialists to ensure a flawless end product with an extremely even reflectivity, only 15% fall-off at 35° off axis.

Matt White screens can be manufactured to any size or shape as required. Is supplied perforated or non-perforated.

PERLUX

This screen material is the major requirement in cinemas throughout the world and, in the United Kingdom it is considered the standard material in all premier cinemas for both wide and small screen presentations.

The high gain surface enables a perfect picture to be seen from all angles, and produces a substantial saving on light source power.

Is supplied perforated or non-perforated.

PERLUX II

The latest development from Harkness Screens is this revolutionary new material. Having the same qualities as the world renowned Perlux, this screen has the added advantage of being foldable for transportation therefore ensuring a considerable saving on packing and freight costs, especially overseas. This material is only suitable for stretching into frames and is not recommended for roller screens.

Is supplied perforated or non-perforated.

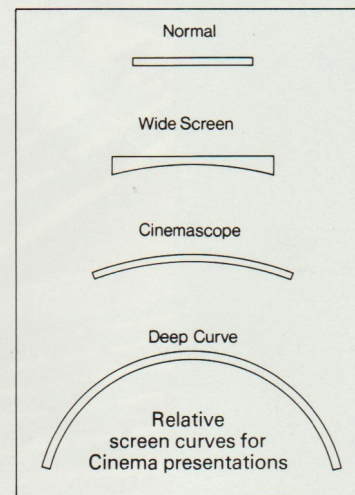
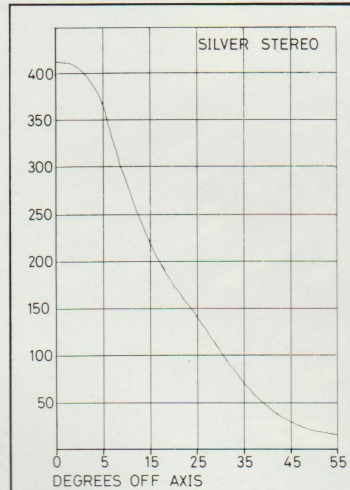
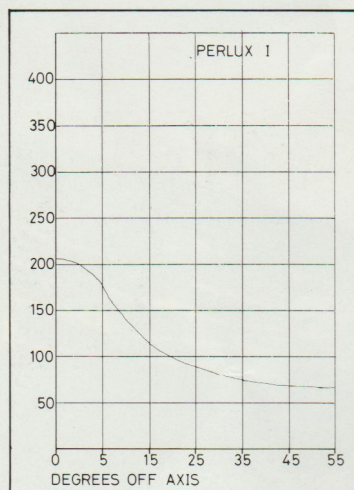
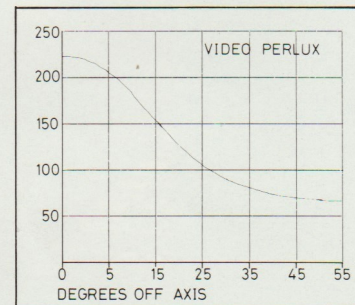
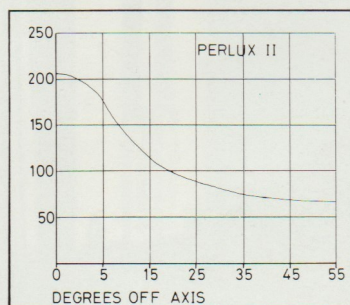
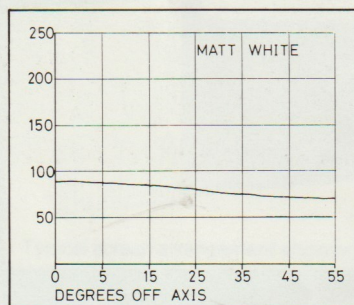
SILVER STEREO

Although primarily designed for stereoscopic (3D) presentations, this screen is equally suited to conventional picture presentation where the viewing angle does not exceed 25° off axis.

Using a carefully controlled spraying process, a countless number of minute aluminium 'reflectors' are deposited onto the base material, producing a very high gain directional surface.

Is supplied perforated or non-perforated.

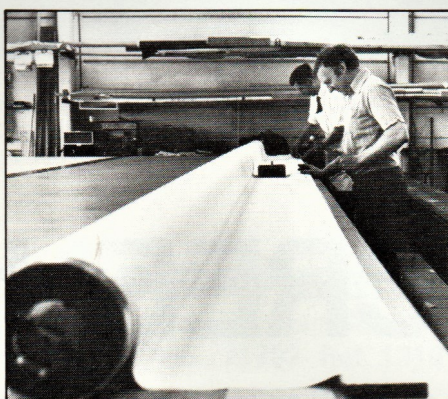
PERLUX, PERLUX II, SILVER STEREO, DEEP CURVE and the VIDEO PERLUX



Each screen is virtually hand-produced but perforating, welding and coating are mechanical operations.

The basic material is firstly perforated (when specified) in 1.219m (48") wide strips. These strips are then welded together using an electronic process which produces an immensely strong double weld, invisible when the material is stretched onto the screen frame.

Finally the spraying process (when specified) deposits an even, multiple coating of the required surface to ensure a flawless end product.



ators of good images.....

DEEP CURVE

Designed by us for 70mm presentations. Having a specially formulated coating these 'low scatter' screens are curveable up to 120° without the cross-reflection problems normally associated with this type of presentation. As an indication of their success, our Deep Curve screens have been installed in over 20 countries throughout the world including the U.S.A., Germany, Japan and South America. Is supplied perforated or non-perforated.

TRANSLITE REAR PROJECTION

Our Rear Projection screens carry the name 'Translite'. These screens can be manufactured in sizes up to 36.576m x 21.336m (120ft x 70ft) and two materials are available: Dark Tint for use where high ambient light conditions exist, or Natural for low ambient light conditions. Both materials provide optimum transmission and viewing brightness, and provide an excellent colour reproduction.

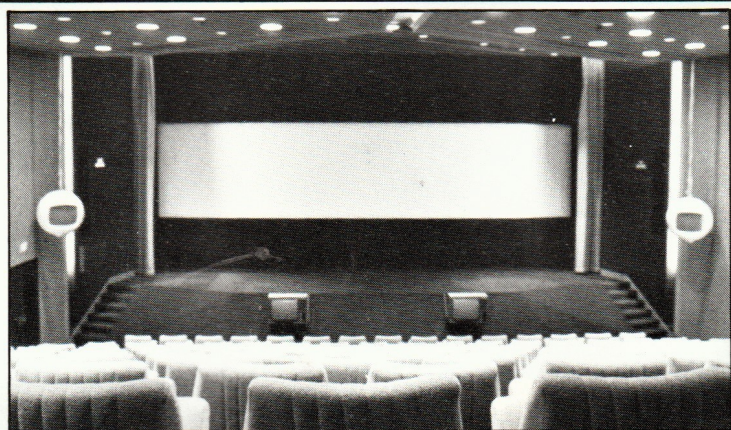
VIDEO PERLUX

Designed specifically for use with video projectors this material goes through several spraying processes to obtain its superb reflectance qualities. As with Perlux II this screen must be stretched into a frame, and is only available non-perforated at present.

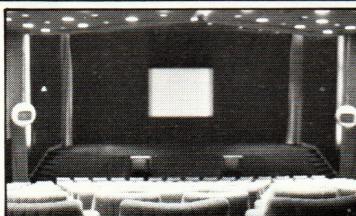
HIGH GAIN FRONT PROJECTION

This material is designed for the projection of background images for television productions, animated cinematography and stills. This highly specialised material should only be hung under its own weight (i.e. lightly laced into mounting frames). Under no circumstances can it be rolled or tightly laced into a frame as any changes in tension can cause damage to the surface.

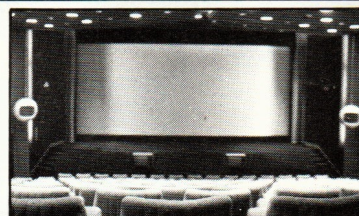
can be manufactured in sizes up to 11.27m high x 39.62m wide (37ft x 130ft).



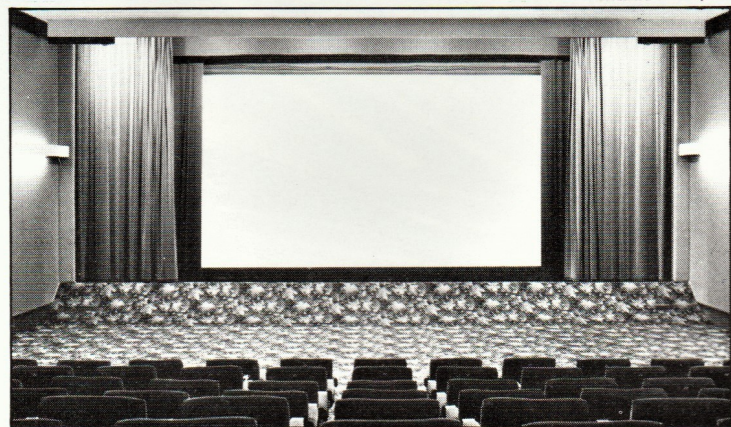
Above:
The Perlux screen installation at BAFTA showing side and top masking set to triple Kodak Carousel format.



BAFTA Perlux screen
brought into T.V. ratio.

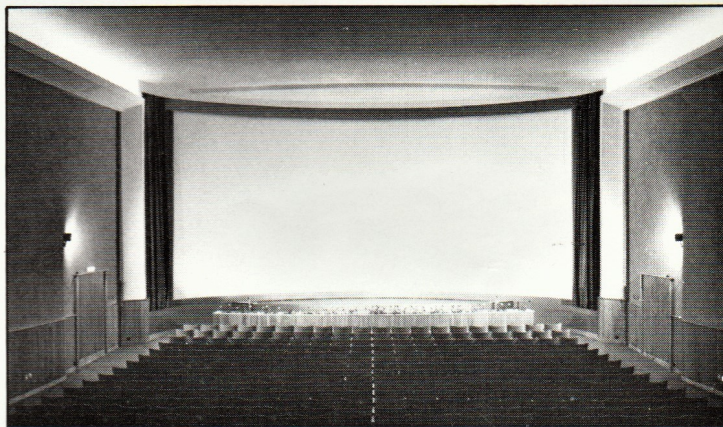


BAFTA variable masking
set to Panavision format.



Below, Left:
Perlux screen installed in the Pinewood Preview Theatre.

Below, Right:
A curved Perlux screen installed in Cine Le Stockal (Siemens SA, Bruxelles).



For half a century we have been suppliers to the world's Film and Cinema Industries, manufacturing projection screens, screen frames, masking elements and accessories, to a very high standard of workmanship. Our screens are mildew and fungus-proof and comply with British Standard 5382 (1976) for cinematographic screens, which embodies an acceptable standard for reflectance, sound attenuation and fireproofing. These qualities, combined with our excellent seam welding process, enable us to sell our screens world-wide.

Harkness Screens have been able to offer their customers in the World's Film and Cinema Industries a full advisory and design service, together with manufacturing and installation of their equipment anywhere in the world. In fact the largest screen in the world was manufactured at our Borehamwood premises and installed by our engineers at Santa Clara, California, U.S.A. This screen being recorded in the Guinness Book of World Records. Our projection screens and accessories are in use in over 50 countries throughout the world.

ROLL DOWN SCREENS

DENHAM ROLLER SCREEN

This screen may be fitted with Perlux, Matt White or Translite Rear Projection screen surface and can be operated by either a hand winch or electric control equipment.

Screen sizes between 6.096m (20ft) and 14.021m (46ft) width.

ROLLSAFE ROLLER SCREEN

Is of similar construction to the Denham but has an added safety feature which ensures that should a hauling cable break the screen will continue to roll safely downwards without damage to the screen.

Only available with electric control.

ELSTREE ROLLER SCREEN

Housed within the screen roller is a powerful, elongated electric motor, which when put into operation revolves the roller.

This type of screen can be available up to 6.096m (20ft) wide.

Remote control of this unit is by hand operated switch and the screen surface is governed by limit switches at top and bottom of travel. 200/240V single phase supply. The electrics in accordance with recognised British and Scandinavian Standards.

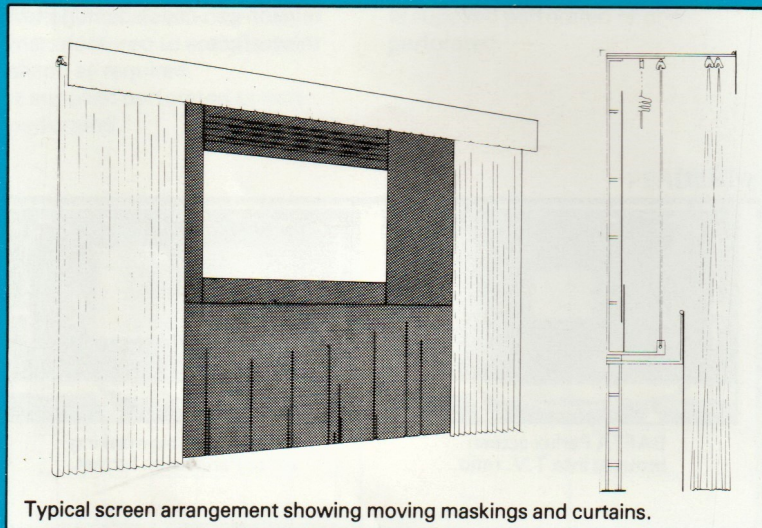
Available with Matt White, Perlux or Translite Rear Projection surface.

SCREEN FRAMES

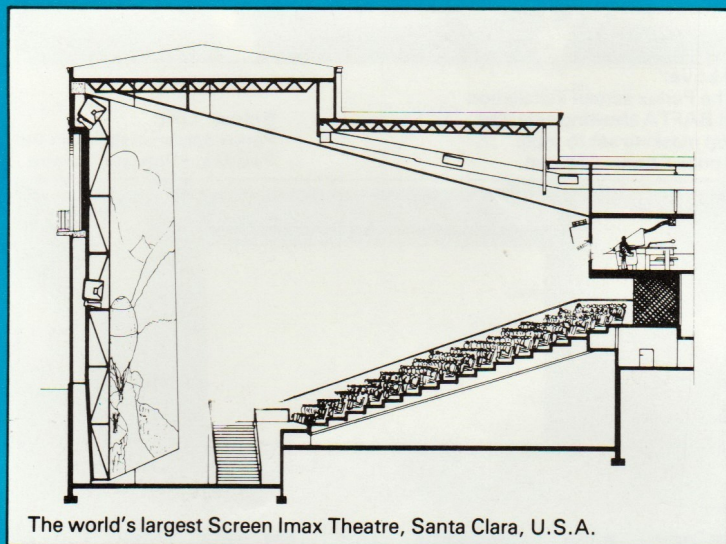
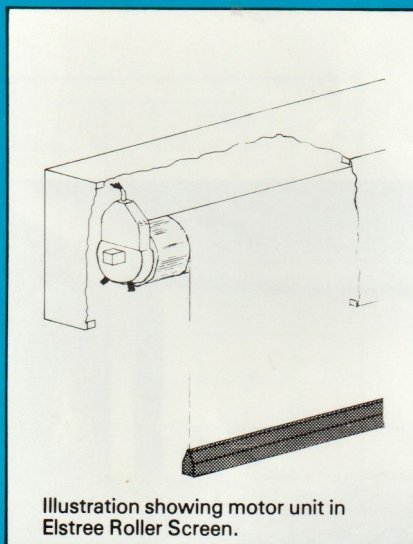
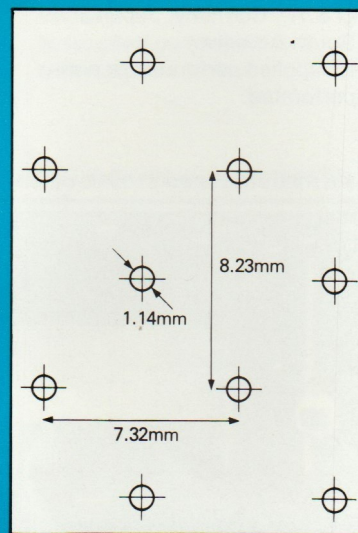
Fixed or 'Flying', flat or curved screen frames are designed and manufactured to the individual requirements of the customer. The 'flying' operation is performed using either counterweight or motorised systems.

Hand winch or electrically operated side and top and bottom masking elements will also be incorporated into frame assemblies if required.

We also supply medium and heavy duty curtain track (in both straight and curved section), all the necessary electric control equipment for curtain hauling and Cyclorama tracking systems.



Right:
Perforations are accurately spaced and absolutely clean-cut. There are 33 perforations per square 25mm (1in), covering approximately 5% of the total area.



MIRALYTE

We also distribute the "Miralyte" range of screens for tripod or wall and ceiling mounting available in sizes ranging from 1.270m (50") square to 2.438m (96") square. For high ambient

viewing conditions "Miralyte" screens are manufactured with a Dayview lenticulated silver surface in sizes up to 1.778m (70") square only. The complete range of "Miralyte" screens

are manufactured to the highest standard in the U.S.A.

Ask for separate "Miralyte" brochure.



HARKNESS SCREENS LIMITED

The Gate Studios, Station Road, Boreham Wood, Herts WD6 1DQ

Telephone: 01-953 3611 Telex: 21792 Ref. 1319 Cables: Screens London

"FIFTY YEARS IS A LONG TIME" THE HARKNESS STORY

THURSDAY, MARCH 12th, saw the opening of the new Harkness Conference and Audio-Visual Centre at The Gate Studios, Borehamwood, as part of the Company's Golden Jubilee Year.

The Trade and Local Press were well in evidence to hear Len Bennett, Group Managing Director, highlight some of the achievements in the Company's 50 year history and speak optimistically of the future.

Unlike many manufacturing companies, Harkness have a full order book and there is no indication that demand, which is worldwide, will decrease.

The Conference Centre will provide a much needed facility for industry and commerce in the area.

Harkness Screens have sent us the Harkness Story which we have great pleasure in reproducing. It is written by the Harkness people and typifies their enthusiasm in the World of Screen.

FIFTY YEARS IS A LONG TIME — THE HARKNESS STORY

"In setting out to summarise the last 50 years, no attempt has been made to remind the industry of those things that they already know; we have tried more to speak of the people who have contributed to the present strength of our Company and, in passing, mention some of our achievements.

It all seems to have started in the late 20's during the 'silent' days when at a private house in Drakefield Road, Balham, Andrew Smith (both christian names) Harkness realised that the moving picture public was growing and that there was likely to be an increasing demand for appropriate surfaces on which to project the "images". This was when the first Company was started under the Andrew Smith Harkness name.

The business soon proved too large to remain in a private house and quickly moved to the first factory in Kensal Rise. The Company remained at the Kensal Rise site until the Rank Organisation purchased a major interest in the Company, during the early 50's.

As will be well appreciated, the cinema industry was booming at this time and the premises soon proved to be too small to meet the worldwide demand for cinema screens. "Big-Stage" space was required to meet the industry's increasing demand for bigger and better screens.

The Rank Organisation already owned the Borehamwood Site and during the mid-1950's Andrew Smith Harkness Limited came to The Gate Studios.

A nameplate still showing the original Company's name remains on the outside wall of the estate in Station Road.

It is normally hidden by a bush, but seeing that this is our 50th year, "why should we hide our light under a bushel?"

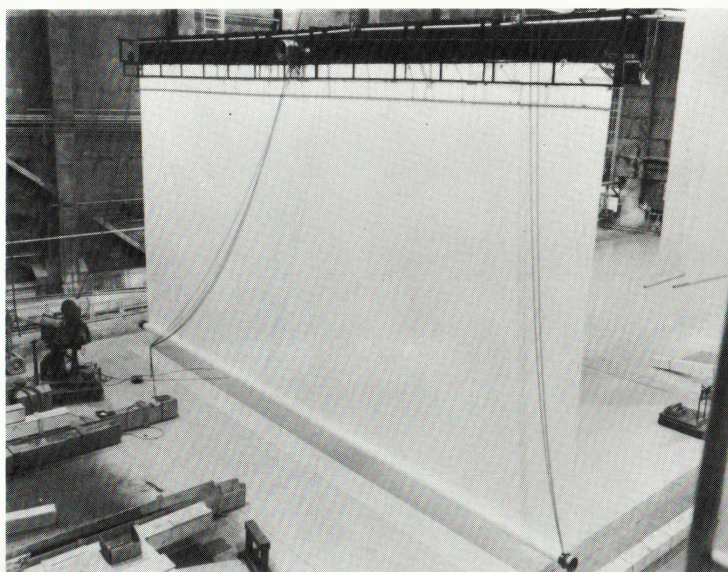
REGISTERED IN 1931

The Company was actually registered in November 1931 and we celebrate this happening during 1981 — our Golden Jubilee year.

During the life of the Company we have always manufactured screens for cinema and professional use and at times ventured into the fabrication of complete cinema units based on steel framing and fabric cladding. These auditoriums were capable of seating 600 or more people in reasonable comfort, on any level site, one such location was on The Rock of Gibraltar, for the Armed Forces.

Similar methods of construction were used for a range of plastic clad greenhouses of which many hundreds were produced. The only problem was that associated with high winds, and it is well remembered when one very distraught lady reported on the aerodynamic capabilities of our greenhouses, which, at the time, was residing in a neighbour's garden — somewhat misshapen!

Many people in the cinema industry remember Tom Harkness who through



the early demise of his father, Andrew Smith Harkness, took over the business at the tender age of 18 years. It seems that he was quite a character who during the 30's would sell a screen, organise and supervise the manufacture, deliver it, often on a motorbike and sidecar, and then install it. Always the entrepreneur!

His direct interest in the Company was concluded when Rank's purchased the remaining equity in Andrew Smith Harkness Limited in 1973, at which time the Company name was changed to Harkness Screens Limited.

Tom now lives in Malta but, we are pleased to say, maintains a gentle interest in the Company through his nephew, the present Operations Director of Harkness Screens, John Lawton. John joined the Company in 1959 and has covered all aspects of design, production, installation and development during this period.

Two other members of the staff who have been intimately connected with the manufacturing facility are Frank Botten, Engineering Shop Supervisor with 30 years' service, and John Bayley, Plastic Shop Supervisor, having 38 years' service.

ENTREPRENEURIAL

During the "entrepreneurial" days of the Company, administration appeared not to be one of the Company's strengths and when endeavouring to quantify some of the Company's achievements during this period it was found that very little information existed. However, great things seemed to have happened since 1950, and we have supplied well over 65,000 large screens: 80% plastic, 20% on a matt cotton base.

Over 23,000,000 square feet of plastic has been used to produce screens since the introduction of this material.

We are in The Guinness Book of Records for designing and manufacturing the largest, permanently installed, screen in the world. This is currently in use in the Pictorium Theatre, Santa Clara, California, and measures 96ft wide by 70ft tall. However, not being satisfied with that performance, we have just sent an even bigger screen for an Imax System to Buenos Aires which, when installed, will allow the projection of a massive 100ft 6in wide by 75ft high picture. The actual size of the screen is 103ft wide by 77ft high.

With the advent of cinerama, we produced our first (and maybe our last) louvred picture screens. Nearly 200 were supplied.

The production of the film 'Barbarella' was an exciting time for Harkness Screens as the Italian Studio needed three rear projection screens for special effects, the largest of which was 265ft long by 52.5ft high.

The largest sprayed surface we have so far supplied went to South Africa which was coated with our Perlux High Gain finish — it measured 130ft by 39ft.

Harkness Screens can be found throughout the world. Although small by employee number standards, we are big by reputation and think we can justly claim to be the 'International screen manufacturers' with approximately half of our business coming from abroad.

Contrary to the usual stories you hear in the current financial climate, our business

is still growing and, even at the present time, we have found it necessary (and pleasing) to take on more staff.

The present Managing Director, Len Bennett, has successfully headed up Cine Screens Limited, Leighton Buzzard, over a long period of time, and when Harkness Screens Limited became the 'big screen' manufacturing end of the business in January 1978 the spectrum was complete.

Whether the enthusiastic amateur requires a 50 x 50 (inches) screen or an auditorium wants a mammoth complex, contoured, special effects job, Harkness Screens can cope and usually does — on time!

We pride ourselves on after-sales service and are prepared to stand by the quality of our products anywhere in the world.

The Company continues to look forward and is already deeply involved in the production of extra-high-gain surfaces for use in the fast growing video-cinema area.

Perlux, known worldwide, has been further developed to provide Perlux II, having a higher gain and capable of folding into a small parcel, which is particularly useful for export markets where freight costs are high. A more recent innovation is the patented Harkness Rollsafe mechanism.

The new Conference Centre and Audio-Visual Showroom is further evidence of the Group's forward thinking. It may not have quite the 'international implications' of big screen manufacture, but will certainly feature in the Group's development programme during the next decade, and has already been instrumental in demonstrating and selling cinema screens for North Sea oil rigs.

Fifty years is a long time — or is it?"



HARKNESS

are the

BIG SCREEN PEOPLE

1931 FIFTY YEARS OF SERVICE AND TECHNOLOGY TO THE FILM INDUSTRY 1981