

30 26.03.03

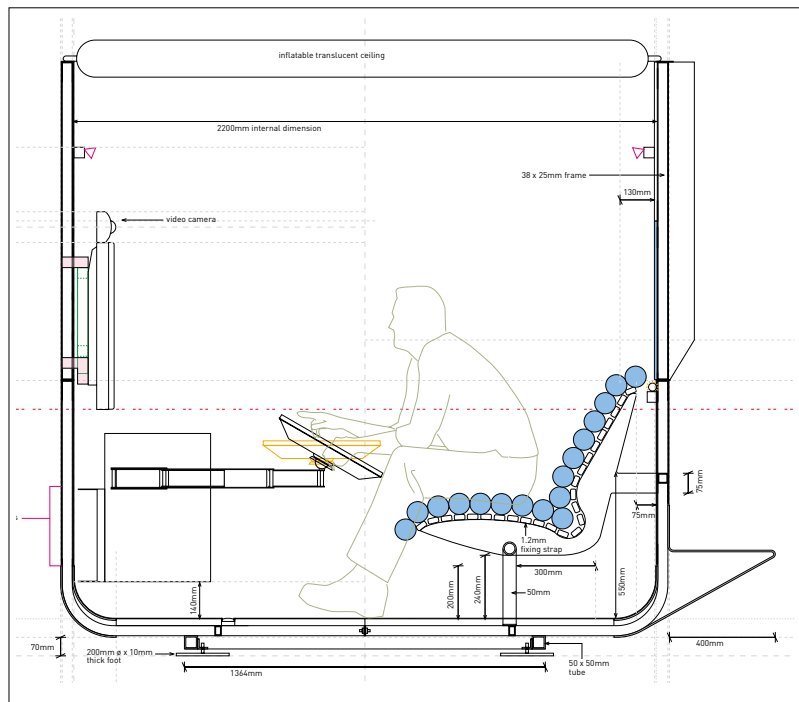


ACMI Screen Lounges: Progress report on construction

From Crowd Productions: A report on progress of research, design and construction work to 26.02.03

01.] Report on Design Progress: Development of the scissor arm prototype and the delivery system for the touch screen.

11.03.03. On Tuesday 11 March Crowd met John Shotton, director and design engineer with Elsum Engineering to discuss design revisions to the scissor arm to address the shortcomings of the prototype and the likely weight increase to the LCD/Tough Touch combination control device currently proposed by ACMI. John Shotton manufactures body components for Kenworth Trucks and is very familiar with the types of mechanical and strength problems associated with the functioning of the scissor arm. In discussion with John we have decided to increase the gauge of the stainless steel to 3mm, add 10mm return lips to the leading edges of the scissor arm to increase strength and reduce metal fatigue and to increase the overall web depth of the arm to 100mm. Our intention here is to increase the construction of the scissor arm to a maximum possible size and therefore strength. This way we will test the limits of the capacity of our design to carry the loads associated with the support and carriage of the touch screen/LCD.

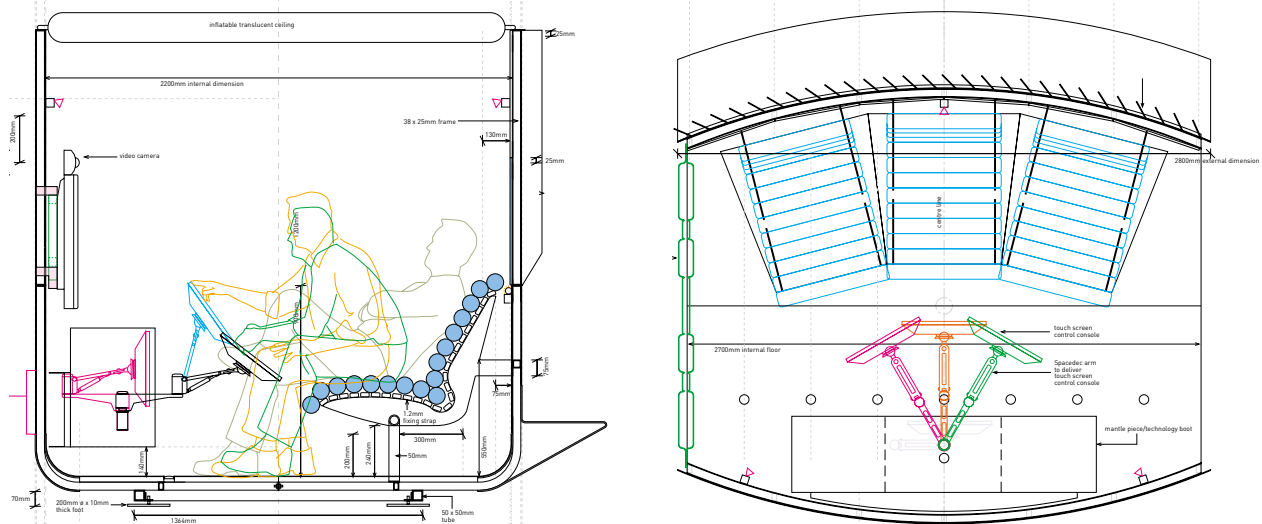


We are mindful however that the proposed tough touch screen and LCD combination may not be able to be accommodated by the original design proposed by Crowd even with these additions. We have therefore researched the available products from within the multimedia peripherals industry to source the closest existing product to the proposed scissor arm. This product is the Spacedec LCD articulated arm, a locally designed and manufactured product with a very high standard of finish and the longest reach of any such product in the market. We have obtained a sample of the



Images of the Spacedec articulated arm showing its geometry in the extended and retracted positions and the ball joint head that allows adjustment for tension, weight and wear.

product for testing in the event that our own design might not provide a stable enough platform. It must be noted that even the Spacedec arm, while being rated for heavy LCD's still has a dead load limit of 8kgs, which from our research is an industry standard limit. As shown we are exploring the geometry of the Spacedec arm for placement within the Screen Lounge environment. We are in consultation with Kim Montgomery about matters of ease of use, ergonomic issues and any applicable health and occupational safety issues. Our examination of ergonomics and industrial design standards indicates to us that as this is a touch screen rather than a separate monitor and keyboard, being used in a non work scenario and that to this end the user is sitting on a couch not correctly seated as for work in an approved work posture that this design falls well outside any existing guidelines. As is appropriate to the brief



Elevation and plan showing the reach and accommodation of the Spacedec articulated arm

of the Screen Lounge project no antecedents exist to compare it to. We have made simple ergonomic studies for client evaluation and consideration of both of the proposed systems.

02.] Report on Construction Progress: Refining and selecting final paint and surface finishes.

12.03.03. On Wednesday Crowd met with Max Grierson from Permatron to select paint colours and finishes for the Mantle Piece/ Technology Boot and the aluminium skin of the Screen Lounge pods. These colours have been shown to ACMI stakeholders at the Screen Lounge meeting on 12.03.03 and approved.

03.] Report on Design Progress: Refining and selecting final interior surface finishes.

11.03.03. On Tuesday 11 March Crowd met with Senica Textile to discuss German JAB Anstoetz Teppiche Felt carpet range, Lana F. These commercial grade floor coverings are ideal as the central floor covering within the Screen Lounge pods. We have selected colours that specifically link in with the colour treatments of the different pods and these colours have been shown to ACMI stakeholders at the Screen Lounge meeting on 12.03.03 and approved. We are now seeking a quote from Germany for the fabrication of these floor coverings to see if they will fit into our budget. These floor coverings are designed to act as the rug element in our reference to signifiers of domestic space within the Screen Lounge pod interiors.

04.] Report on Construction Progress: Quoting and fabricating the production Soonas, seating elements within the Screen Lounge pods.

14.03.03. On Friday 14 March Crowd Productions met with Peter Galley from Elisa Upholstery to discuss final detailing of the Soonas for the production Screen Lounge pods. Final fabric selections, strapping details, stitching detailing, foam upholstery dimensions, extent of work and scheduling were discussed.

05.] Consultation with ACMI stakeholders: A meeting with ACMI stakeholders and PIVoD.

12.03.03 On Wednesday 12 March Crowd Productions met with ACMI stakeholders and PIVoD to discuss the progress of the Screen

Lounge design and construction. We introduced our concerns with regard the sign off on the final LCD and touch screen option for the Screen lounges and the contracting of a fabricator. The delay in finalising these details is impacting on our design and fabrication schedule. David Watson has reiterated his requirement for a tough touch screen. Crowd wonders whether the increased durability will adequately offset the likely greatly increased cost of repair or replacement. No action has occurred on the finalising of the audio specifications. Crowd needs to know the final selection of the headphone jacks, as these will be integrated into the fitout of the Screen Lounge interior. Crowd is currently assuming that the headphone jack selected by Lake Technologies would be the actual product around which we will design. David Watson stated he would source a headphone jack. Gael McIndoe and Kim Montgomery requested that the Memory Grid pods have additional headphone jacks. Crowd presented the final interior finishes to ACMI including test samples of the surface of the Blister Pack Memory Wall and exhibition space. Gael McIndoe and Kim Montgomery selected the frosted surface for the Blister Pack acrylic panels. This would allow the Blister Pack contents to present a more impressionistic appearance. At a presentation later in the day Victoria Lynn indicated that the clear transparent panels would suit her purposes best, in order to be able to present exhibition items very clearly. In discussion with Kim Montgomery, Gael McIndoe and Victoria Lynn it was decided that the Blister Pack would have one clear panel and one frosted panel. These can be oriented to suit the requirements of the Blister Pack exhibition space as required.

06.] Report on design progress: Development of the inflatable ceiling.

19.03.03. On Wednesday 19 March Crowd discussed with Peter Lim from Tensys the form finding for the inflatable ceiling element for the Screen Lounge pods. Tensys have proposed a new design cross section with only 5 apparent chambers rather than the original 20. This reduction in chambers is intended to simplify the construction of the inflatable ceiling and reduce the number of welds and therefore points for failure. This design simplification will increase the overall depth of the ceiling to 200mm rather than the original 140mm deep. A cross sectional analysis indicates that this will not interfere with the projected use of the Screen Lounge pods.

07.] Report on construction progress. Completing the fibreglass components

19.03.03 On Wednesday Crowd met with Oliver Jurga from Quality Fibreglass to review progress. The moulds for all three elements of the fibreglass have been completed. Prototype component pieces will be collected on Thursday 20 March and couriered to Riva Fab in Echuca to check fit and dimensions to ensure smooth assembly for the production components. Fabrication of the components begins on Thursday 20 March with a full set of components for the first Screen Lounge pod ready by Wednesday 26 March. David Poulton and Micheal Trudgeon will collect these components on Wednesday 26 March and take them to Riva Fab for fitting to the completed metal frame. With this done the aluminium skin will be measured, fitted and cut and then couriered to the spray painter for completion.



Images of the moulds of the fibreglass seat and coving elements for the skin of the Screen Lounge pods fabricated by Quality Fibreglass.