

CRITICAL CARE TRANSFER STACK (CCTS)

Class I medical device

The unique all-in-one solution for
internal transfer of critically ill patients.

By Illustrious Healthcare Solutions

 **MADE IN BRITAIN**[®]



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WITH THE NHS FOR THE NHS**

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INTRODUCTION

Our Critical Care Transfer Stack (CCTS) has been developed to improve the internal transfer of critically ill patients within acute healthcare environments.

WHAT IS IT?

The CCTS is a mobile frame which attaches onto a bed to support vital life-saving medical devices such as monitors, ventilators, O₂ cylinders and accessories. These devices are mounted to the vertical aspect of the CCTS for visibility during patient transfer. The CCTS also safely transports cylinder holders, suction units, includes integrated storage areas and, crucially, has an integrated power supply unit.

There can be many risks when moving critically ill patients across specialised areas of a hospital. Having the right urgent care equipment that minimises those risks is paramount when transferring patients to critical care theatres and wards, as well as for transfer by outreach or resuscitation teams. Research by the Intensive Care Society in 2019 found equipment failure as the most common adverse event during patient transfer.

We have developed a CCTS that is designed to remain extremely robust within a high-stress environment and improve the level of support given to critical care intrahospital transfer. Our CCTS is the only product of its type able to interface with different bed types as the brackets used for the unit are flexible and universal to all bed models. Easily and securely connected, it allows beds to be moved as required and caters for varying ramp gradients without incurring damage when transferring in and out of theatre environments and constrained lift sizes.

The CCTS is compatible with multiple bed types from manufacturers, including among others:

- Hillrom (Various Beds)
- Linet (Various Beds)
- Huntleigh (Various Beds)
- SIDHIL Innov8
- Favero Horizon 4.0 Precision
- Nexus Legacy Spinal Bed (with Adaptor)



DESIGNED IN PARTNERSHIP WITH THE NHS FOR THE NHS

The CCTS has been manufactured to meet the highest medical quality control standards and regulatory requirements.

MEDICAL CLASSIFICATION

Uniquely for these types of product, our CCTS has a medical device classification (Class I). It is UKCA marked, registered with the Medicines and Healthcare products Regulatory Agency (MHRA) and is compliant with UK Medical Device Regulations (MDR).

RIGOROUSLY TESTED ON SITE AT UNIVERSITY HOSPITAL SOUTHAMPTON

The product has been rigorously tested for effectiveness across the 35 theatres based at Southampton General Hospital, as well as in General, Cardiac, Paediatric and Neuroscience intensive care units, and the Emergency department. Extensive feedback contributed to the development of the CCTS, with the final product receiving overwhelmingly positive reviews from hospital staff across a wide range of professions and specialties.

UNIQUE MULTI-BED INTERFACE

The CCTS is a versatile product specifically due to our patent pending designed multi-bed interface and multiple options for the positioning and attachment of a wide range of monitoring and support equipment devices for the care of the patient, whilst being moved within the hospital environment.



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An exciting product to be
co-developing with industry;
designed in partnership with
the NHS, for the NHS.

Commercial Director,
University Hospital Southampton



KEY BENEFITS

- Effectively creating a complete mobile ICU platform solution, this CCTS provides a unique combination of advantages for critical care transfer needs.
- An integrated power supply unit is protected by a medical grade power isolation transformer, developed specifically to provide an all-in-one functional and safety solution. Other devices supplied without this power source are able to avoid electrical testing requirements and can lead to electrical retrofit being carried out by different internal departments.
- Crucially, our CCTS provides for standardisation of intrahospital patient transfer nationwide, allowing all staff to be familiar with the process as they move between NHS sites and other healthcare organisations.
- The full suite of connected monitoring and life support equipment attached to the unit can be powered whilst stationary by the single detachable extension power lead. This also serves to charge the onboard batteries of the attached equipment.
- The requirement to move a critically ill patient from one bed type to another for transfer in emergency situations is not necessary with the unique multi-bed interface of the CCTS.
- The requirement to place medical devices on or around a patient is avoided, reducing risk of injury to the patient or staff due to manual handling, and damage to high-value equipment.
- This mobile platform solution ensures that medical support of critically ill patients is maintained in the case of on-site emergency requiring evacuation.



Easy to move and use.

Critical Care Technologist, University Hospital Southampton

Future-proofed against future bed decisions.

Clinical Engineering, University Hospital Southampton

Using a Stack to transfer patients is a much safer process compared to putting equipment on the beds.

Recovery Nurse, Theatres, University Hospital Southampton



SUSTAINABLE MANUFACTURING



SUSTAINABILITY AND ENVIRONMENTAL RESPONSIBILITY

The CCTS is 98% recyclable. It has been engineered and designed to greatly reduce the amount of plastics normally used in these devices. Any component repairs can be carried out locally, avoiding the cost of buying a new unit and the cost to our environment. All metallic materials and electrical components can be re-processed at the end of their life.



MATERIALS

The high-quality build of this CCTS features unrivalled durability and meets all required complex specifications. In the production of the CCTS, corrosive resistant materials are used, and it is coated in a gloss white antimicrobial medical grade finish for ease of cleaning and decontamination.



WARRANTY AND SERVICE

The product is supplied with a one-year warranty. Warranty extensions and service options are also available.



A good, well-built piece of kit.

Senior Operating Department Practitioner, Theatres,
University Hospital Southampton



ABOUT ILLUSTRIOUS HEALTHCARE SOLUTIONS

Illustrious was founded in 2020 to create outstanding healthcare solutions that would be invaluable to the sector, achieved by designing products and devices with the capability to be adapted according to need.

Our founders bring with them many years' experience in front line acute healthcare environments, including critical care, theatres, and ward areas, as well as within business and aviation engineering through our strategic partnership with Portsmouth Aviation.

Using our state-of-the-art ISO9001 certified facility, our expertise in providing innovative precision engineering solutions within several highly regulated sectors for almost 100 years has meant that moving into medical device development is a natural progression. Illustrious Healthcare Solutions is ISO 9001 approved, with all products developed and manufactured in the UK.



STRATEGIC PARTNERSHIPS

It is with great pleasure that Illustrious Healthcare Solutions can advertise a strategic partnership with Portsmouth Aviation Ltd.

Portsmouth Aviation, a mainstay in the UK aviation industry, has almost 100 years of successful operation. Through Portsmouth Aviation, and our strategic partnership, Illustrious Healthcare Solutions will be able to bring a number of additional products to the market as an exclusive supplier.

Our partnership with University Hospital Southampton provides invaluable expertise about front-line acute healthcare environments, including critical care, theatre and ward areas. The result of which is a high-quality end user experience, a testament to our design team's expertise.



**University Hospital
Southampton**
NHS Foundation Trust



To find out more:

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Illustrious Healthcare Solutions is a British company which holds the Made in Britain values ensuring the manufacturing in Great Britain with proximity, transparency, responsibility and to the very highest standards.

