



*Neocot*

Mansell  
Infant Retrieval Systems™

# Our Mission

We are committed to continual solutions development and manufacturing the best possible retrieval devices to assist medical professionals in retrieving and transporting critically ill infants under intensive-care conditions.

Moreover our experienced team of medical, electronic and mechanical engineers and technicians drive to produce infant retrieval systems, to match your specific requirements exactly.

To that end, we regularly engage directly with the doctors, nurses, ambulance officers, paramedics and retrieval specialists who are tasked with the transport of critically-ill infants from a trauma point to a major hospital by road ambulance, helicopters or fixed wing aircraft.

Our pro-active and vibrant research and development programme continuously monitors systems in operation in the clinical environment with a passion for developing and introducing new developments as they become possible.

We are proud, Australian family owned and operated collaborator, with innovative solutions now working across the world.

This community of care, more than anything will drive and inform our collaborations with you and your team.





# MANSELL Neocot

The Neocot™ system comprises a 'state of the art' temperature controlled capsule, together with monitoring equipment, resuscitation equipment and a power supply, all ergonomically housed in a single, compact device.

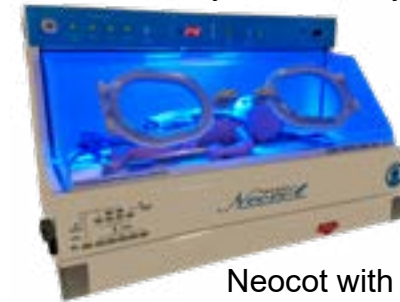
The Neocot™ system now comes with the option of internally fitted Phototherapy for continuous treatment during all modes of transport.

## Features:

- Unparalleled visibility & access to the infant
- Integrated phototherapy
- Designed for use with the Mansell Power Lifter (patented electric lifter trolley system)
- Loads to most aircraft & ambulances (with 'zerolifting' by operator)
- Accommodates twins
- Easy to access and clean
- High frequency oscillation ventilator option
- Dual battery system - 120 Minutes 'walk time'
- Power Supply/Charger (Operates from Hospital/Ambulance/Aircraft Power)
- 1260 Litres of Oxygen - Two 'CD' cylinders
- Medical air cylinders can be fitted
- Nitric oxide option - Easily fitted
- Incorporates monitoring & resuscitation equipment
- Electric Suction Unit - Laerdal LCSU-4
- Customisable equipment to suit individual requirements
- Complies with AS/NZS 4535:1999 Ambulance Restraint Systems



Full Neocot System on Stryker Stretcher



Neocot with Phototherapy



## NEOCOT SPECIFICATIONS

SIZE - max	DEPTH	HEIGHT	LENGTH
External	770mm	535mm	1950mm

Weight: 85Kg. Lifting Capacity 130 Kg depending on options selected

POWER	SPECIFICATIONS
Mains	110-150V, 50/60 Hz
On Board	12V,40Ah Rechargeable Sealed Lead Acid Battery
DC External	10-30V





The Cosypod system is a 'state of the art' lightweight back transfer system that caters for twins.

**Features:**

- Lightweight back transfer system to free up vital beds
- Single and double capsule variants
- Accommodates twins in each capsule
- Fitted with electrically heated blanket
- Fitted with Power Supply / Controller
- 120 Minutes of Walk Time from internal battery system
- Easy to access and clean
- Patented electric power lifter trolley system
- Complies with Ambulance Restraint Systems
- "LifePort" Feet to Lock to Suitable Mounting Systems such as the Mansell Power Lifter
- 630 Litres of Oxygen - One 'CD' Cylinder (per Capsule)
- Electric Suction Unit - Laerdal LCSU-4
- Two Syringe Pumps - Bbraun Perfusor Space (Per Capsule).
- Vital Signs Monitor (Per Capsule).



Single Cosypod on Stryker Stretcher

**COSYPOD SPECIFICATIONS**

SIZE	DEPTH	HEIGHT	LENGTH
External	500mm	470mm	1570mm
Internal	400mm	250mm	690mm
Weight: 45Kg single & 65Kg double with medical equipment			

POWER	SPECIFICATIONS
On Board	Rechargeable Lithium Ion Battery
Mains	110-150V, 50/60 Hz, 1.2A



# MANSSELL Power Lifter

The Mansell Power Lifter (MPL) is an electrically powered, variable height lifting system.

It is designed specifically for loading and unloading patients and equipment into ambulance vehicles and some fixed or rotary wing aircraft.

## Features:

- Uses existing locks in most ambulance vehicles
- Push button to raise/lower either end of the device
- "Zero Lift" system minimizes back injuries
- Infinitely height adjustable
- From 270mm (fully lowered) to 1m (fully raised)
- Castor wheels allow maneuverability at any height
- Accepts and locks the 'LifePort' foot assembly
- Large solid rubber wheels for transport stability
- Flexible aluminium construction for patient comfort
- Electric actuators to achieve a unique lifting action
- Two rechargeable sealed lead acid batteries
- Auto charging with charge indicator when on AC power
- Automatic, load sensing, two speed lift controllers
- On/Off switch (auto powersave after 10 mins idle time)
- Complies with AS/NZS 4535:1999 (Ambulance Restraint Systems)



Powerlifter in the lowered position



Powerlifter in the raised position

## POWERLIFTER SPECIFICATIONS

SIZE	DEPTH	HEIGHT	LENGTH
Standard Loading	565mm	270mm lowered -	1950mm
Transverse Loading	565mm	1030mm Raised	1715mm

Weight: 60Kg. Lifting Capacity 150 Kg SWL

POWER	SPECIFICATIONS
On Board	12V, 8Ah Rechargeable Sealed Lead Acid Battery
Mains	110-150V, 50/60 Hz, 1.2A





# MANSELL Neodeck

The Neodeck interfaces the Neocot™ or Cosypod systems to most common stretcher systems, including the Stryker Power Pro XT.

## Features:

- Developed for Stryker or Ferno stretchers
- Interfaces Neocot™ and Cosypod systems
- Provides a 'LifePort' mounting system
- Folding & Non Folding options available
- Lightweight, high strength construction
- Complies with AS/NZS 4535:1999 Ambulance Restraint System.



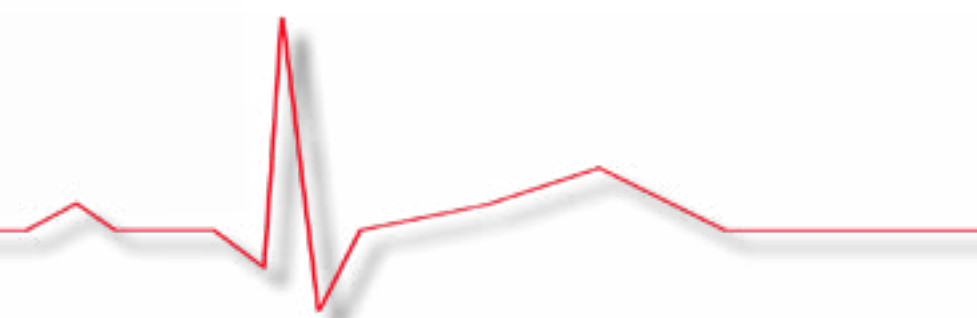
**Neodeck with restraints**



**Slide transferring Cosypod from Powerlifter to Stryker stretcher**

## NEODECK SPECIFICATIONS

SIZE	DEPTH	LENGTH
	414mm	1700mm
Weight: 13 kg		



# *Implementations*

Every day, right across the world, multiple lives are saved using the Neocot!

- The Neocot is used to transport approximately 4000 critically ill and premature infants across Australia and New Zealand every year
- At time of printing, approximately 120 Neocot systems had been delivered since the invention (circa 2002)
- These systems are in use today across all major hospitals in Australia and Scandinavia.
- One back transfer service, fitted with a double Cosypod, completed 350 transfers in the first year of service, in south east Queensland.

Neocot Inventor, Dr John Grant-Thomson  
featured on Australian Story





# Progression

## How did the system evolve?

Back in 1993, a team led by Professor John Grant-Thomson, from the University of Southern Queensland, researched, designed & built a world leading MIRF (Mobile Intensive Care Facility) for use by the Australian military.

It was used initially during the Rwandan War - 1990 to 1994. The MIRF was then sought by international mining operators, to be instrumental in saving lives in remote mining locations.

Then widely acclaimed for their development of Intensive-care medical devices, the team developed a similar intensive care retrieval system for infants and paediatric patients.

And the journey to the Neocot began! Dr John and a team of USQ engineering students responded to the expressed needs of Australian and International clinical personnel.

Today the Neocot™ is the preferred infant incubator system designed for transport... and is increasingly acclaimed globally for its innovative features.

A finalist in the Queensland Export Awards, the team have also been asked to contribute to Neonatal Intensive Care conferences and fund raising events right across the globe.

As destiny would have it, Dr John, still active in the development of the Neocot, passed from this life in September 2021 aged 82 however his passionate and visionary life had already mentored his successor in Anthony Vadalma.

Anthony heading up the team in conjunction with Paul Priebbenow are invigorated by Johns vision and are very keen to further this vital work across the globe.

Rarely does any man get to change the world to the extent that Dr John did and continues to do through his inspirational young protege's.

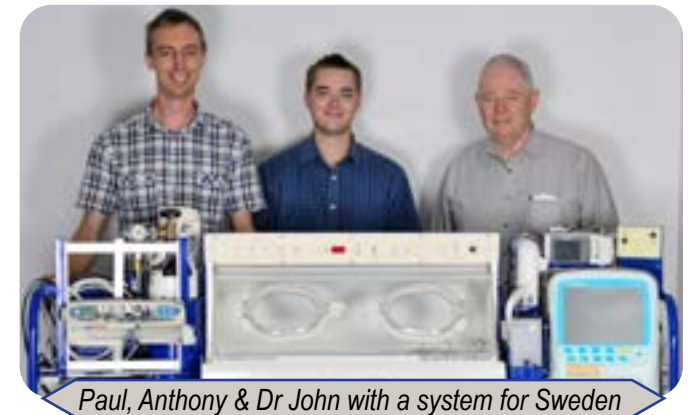
So for an Infant Retrieval System that has been 'proven' in the widest range of operational roles (nationally and internationally) and which now solves infant retrieval challenges every day, please call or email Neocot™ today.



*Neocot System on display at Oxford University*



*Doctor John and Anthony at a Networking Event*



*Paul, Anthony & Dr John with a system for Sweden*



*Anthony, Dr John and Mel, NUM at Vehicle Launch*





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Wenross Holdings Pty Ltd - QLD Australia

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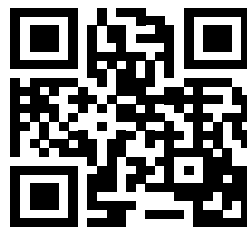


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All components of the Neocot™ system are designed to comply with appropriate Australian and International standards, including electrical and environmental safety, aviation, electromagnetic compatibility and ambulance transport restraint requirements.

The Neocot™ is listed on the Australian register of Therapeutic Goods & is CE marked.



[www.neocot.com](http://www.neocot.com)

