

# **Twin Deck Trailers**

*For Temperature-Controlled &  
Dry Freight Applications*



**DESIGNERS & MANUFACTURERS OF QUALITY  
REFRIGERATED & DRY FREIGHT VEHICLES**

## What can a twin deck trailer offer over a standard single deck trailer?

- Major cost savings
- Up to 70% increased carrying capacity
- 60% more floor area
- 44 tonne maximum weight utilisation
- Potential 1.9 metre (6'3") deck heights

### Key Features of the Gray & Adams Twin Deck:

- High quality Gray & Adams components and materials
- Hygienic one-piece insulated sandwich panel construction
- Highly competitive unladen weight
- Gray & Adams twin deck trailers offer the same reliability and quality that has become synonymous with the Gray & Adams brand
- Proven performance with over 1000 trailers in operation!

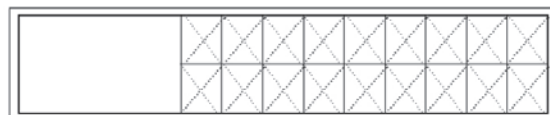
### Standard Trailer Showing 26 Pallet Capacity



### Twin Deck Trailer Showing Potential Pallet Capacity on Each Level



Upper Deck 26 Standard (GKN) Pallets



Lower Deck 18 Standard (GKN) Pallets

.....➤ **Increased Carrying Capacity**

.....➤ **Lower Overall Maintenance Costs**

.....➤ **Lower Overall Operating and Running Costs**

.....➤ **Huge Environmental Benefits of Operating a Smaller Fleet**

.....➤ **Reduction in Labour Costs**

.....➤ **Maximum Weight Utilisation**

.....➤ **Reduction in Loading and Unloading Times**

.....➤ **Significant Fuel Savings**

Our customer  
portfolio speaks  
for itself...





## Customer Examples

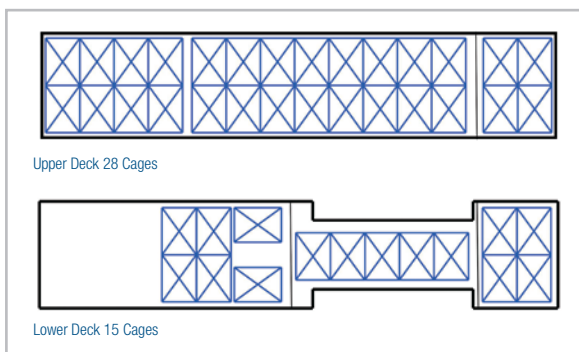
### City Link - Dry Freight Double Deck Trailer



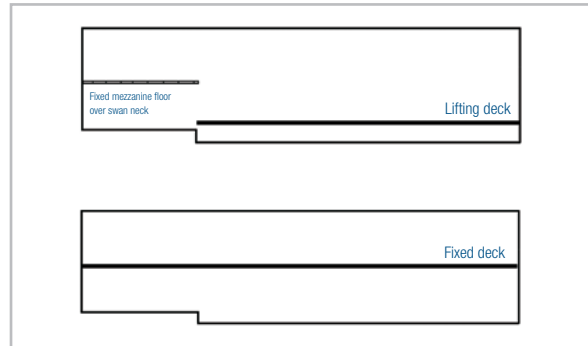
Leading express parcels carrier City Link has dry freight double deck trailers that are built around TRIDEC suspension. The complete trailer chassis is galvanised and bolted together. The benefit of the wheelbox double deck trailer is that it offers a ground to trailer floor height of only 350mm. There is an internal deck height of 2000mm on the bottom deck and 1885mm on the top deck within an overall height of 4300mm. As well as having a translucent roof, a sophisticated internal lighting system is fitted to ensure that enough light is supplied to all areas of the interior.

The City Link trailers carry 43 large cages which are loaded and unloaded from ground level using a hydraulically operated rear ramp that forms part of the rear closure. The top deck is loaded and unloaded via an internal tail lift that carries four cages at a time.

The City Link trailers are designed to be low maintenance. For example, Gray & Adams has designed the electrics to operate using circuit breakers rather than fuses for ease of repair and high reliability. As well as this, a spare super single tyre and wheel is contained within a winch that swings out from the front of the trailer and the wheelbox design allows for the wheel to be changed without having to jack the trailer. This has obvious benefits to the operator in terms of vehicle downtime.



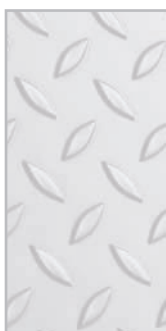
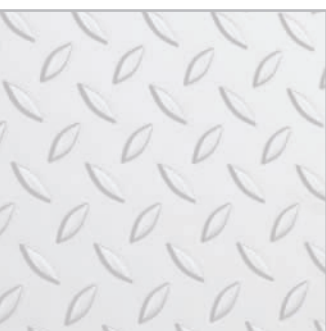
### M&S - Multi-Temperature Fixed & Lifting Floor Designs



Marks & Spencer operates a fleet of twin deck trailers of both fixed deck and lifting deck designs, all of which are suitable for multi-temperature applications.

The M&S fixed deck specification gives an internal top deck height of 2025mm and a lower deck height of 1870mm, within a 4457mm overall height. The design incorporates an interior lift which forms part of the upper floor. This type of twin deck trailer runs on Tridec wheels.

The M&S lifting deck trailers offer a top deck height of 1825mm and a lower deck of 1875mm, within a 4875mm overall height. The lifting floor runs from the rear of the trailer to the swan neck and a mezzanine floor over the swan neck allows different temperatures on each floor. The top deck section from the front bulkhead over the swan neck area is fixed and aligned with the lifting deck raised position.



## Reed Boardall - Single-Temperature Lifting Floor



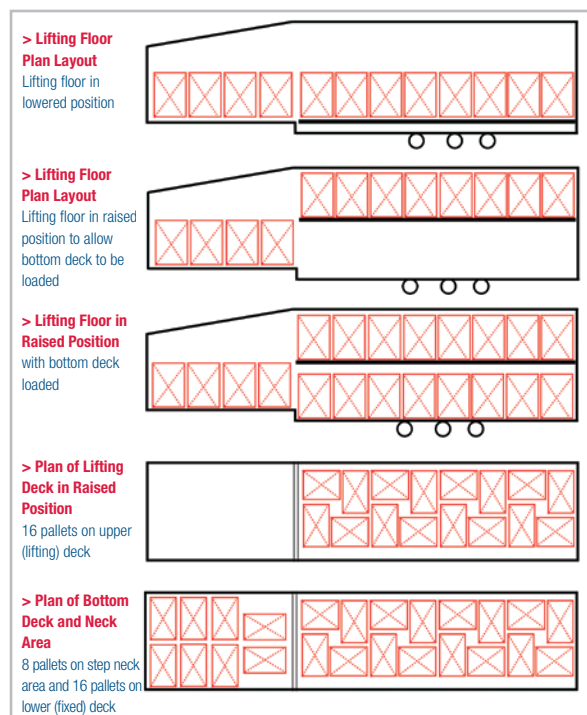
Temperature-controlled logistics service provider, Reed Boardall has lifting floor twin deck specifications. The moving deck has enabled the company to reduce the time spent loading and off-loading by approximately fifty percent. Daily vehicle movements have been reduced from five to three on one particular route because 40 pallets can be loaded.

This stepped neck lifting deck trailer has a 4800mm overall height, with an interior top deck height of 1748mm and an interior lower deck height of 1875mm. The lifting deck system is hydraulically operated via a 24-volt dc power pack but also has a manual pump fitted for emergency operation. The lifting deck can be loaded and off-loaded with a single floor movement. The internal operation of the lifting floor is done via fixed controls that operate the moving floor and inflates / deflates the air suspension. The lifting deck runs from the swan neck to the rear of the trailer.

This trailer design incorporates a number of cautionary features, including visual and audible warning devices that are activated when the moving floor is in operation, a speaking 'overload' warning device when the floor is overloaded, level indicator markers fitted to the hydraulic oil reservoir and various decals are fitted giving instructions and warnings.

The Reed Boardall lifting deck trailer incorporates a very unique solar panel feature on the roof to provide additional trickle charge to batteries. A Codesys self-diagnostic system, which is exclusive to Gray & Adams is also included to diagnose any faults within the trailer.

Some of the Reed Boardall trailers have tapered roofs (shown above), which allow the top of the trailer at the front to be in line with the tractor unit. This makes airflow over the top of the trailer smoother and therefore increases the aerodynamic capability, which helps to reduce fuel consumption.



### Why Gray & Adams? <.....

### Bespoke Designs to Suit Individual Operator Requirements <.....

### Industry-wide Reputation for Superior Build Quality <.....

### High Trailer Reliability <.....

### First Class Back-Up Service <.....

### Proven Trailer Longevity <.....

### Responsive Delivery Lead Times <.....

### Expert Knowledge of the Industry <.....



## Fixed Deck Trailer Solutions:

### Key Features/Options for Fixed Deck Trailers:

- Independent temperature control on each level
- Multi-temperature configurations on each level
- Combination or single rear door systems
- External and internal tail lift options (approximately 40 minutes to load and 40 minutes to unload via internal tail lift)
- Designs to accommodate roll cages or pallets
- Independent tri-axle suspension
- 44 pallet capacity

## Lifting Deck Trailer Solutions:

The lifting deck option decreases loading and unloading time - a single floor movement eliminates the need for a tail lift and provides load turnaround time of approximately 20 minutes.

Gray & Adams is the only UK supplier offering a lifting deck that has been designed and developed in-house.

### Key Features/Options for Lifting Deck Trailers:

- The lifting deck is operated hydraulically as standard, with independent power supplies
- 17.5" twin wheels on drum brakes or 19.5" on disc brakes
- Fixed interior controls rather than a wander lead to ensure minimal damage
- Locking mechanisms are electrical rather than hydraulic and sensors are used as opposed to less efficient and easily damaged micro-switches used on other designs, to guarantee deck reliability.
- Rear steer option reduces drag and tyre wear
- Independent temperature control available on each floor
- Fully CE approved
- 40 pallet capacity

## Gray & Adams Twin Deck Trailer Innovations:

### Gray & Adams Unique CODESYS Fault-Finding System

Gray & Adams lifting deck trailers can now be specified to include an exclusive CODESYS operating system. This is a comprehensive diagnostic system that allows engineers to fault-find quickly and helps them to monitor the lifting deck system. The solenoids, controls, motor amps and hydraulic pressure can all be assessed using Codesys.

Because the trailer keeps a fault log and can tell the engineer what the problem is without going through a time-consuming testing process, breakdown times are significantly reduced. If a fault is detected by Codesys, help pages are available that offer instructions to the engineer. A catalogue of parts, their descriptions and part numbers are also available to facilitate the identification and ordering process.

The system has a number of other benefits, such as a list of six-weekly servicing instructions and a description of emergency instructions for manually lowering the deck in the unlikely event that all power should fail.

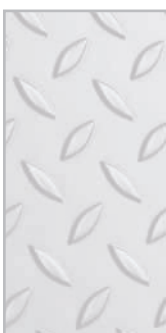
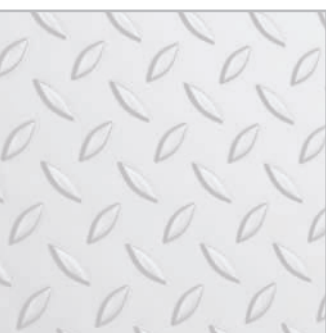
### Solar Panels

Gray & Adams can now offer a solar panel feature for lifting deck trailers, which is fitted to the roof. The solar panels provide trickle charge to the lifting deck batteries. Because they use a photovoltaic technology that converts light directly into electricity, the panels constantly help to charge batteries. In bright sunshine an average output of 2 Amps is created. The panels are extremely robust and can withstand all weather conditions.

Certain fridge manufacturers can offer additional charging facilities via the fridge to ensure that batteries are charged at all times.

### Aerodynamic Roof Option

Gray & Adams can offer a sloping aerodynamic roof, which smoothes air flow over the top of the trailer, for further increased fuel savings and gives the added benefit of improved bulkhead protection.







Gray & Adams has the ability and capacity to cater for any company, from the smallest owner-driver business to the largest logistics operation, but business is always carried out with a personal and hands-on approach. Specifications for new trailers or bodies are always completely unique to meet each customer's individual requirements.

The company has always considered product quality to be of paramount importance and the combination of top quality materials and the latest design techniques has made Gray & Adams products renowned for their longevity, even under the toughest of operating conditions.

More than five decades in business means that Gray & Adams has a confidence and build quality that only comes with experience, offering you long-term peace of mind.

#### Refrigerated Semi Trailers :

Single Temperature • Multi Temperature • Curtain Side • Sliding Side  
Command Steer/City Trailers • Meat Rail • Intermodal for Road/Rail Applications

#### Refrigerated Bodies :

3.5 to 26 Tonne GVW • Single Temperature • Multi Temperature  
Curtain Side • Sliding Side • Meat Rail

#### Twin Deck Trailers :

Refrigerated (single & multi temp) • Dry Freight • Fixed Floor • Lifting Floor

#### Many Other Bespoke Designs

## Contact Details

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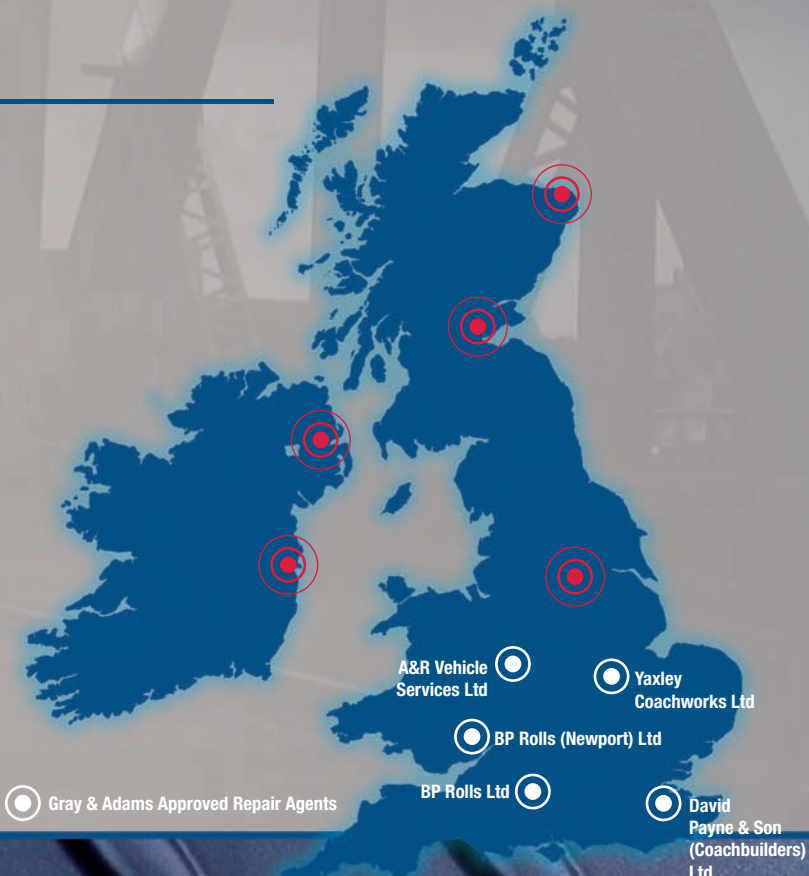
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