



**"Rollerbed Systems' capabilities will meet or exceed your requirements."**

## Powered Cargo Roller System



The Rollerbed Systems Powered Cargo Roller has been designed to maneuver flat based loads within vehicles and warehouse loading bays. The compact design of the roller unit allows it to be fitted flush into the vehicle floor. The Cargo Roller is pneumatically raised and when used with the Rollerbed System's roller track will provide a frictional drive to any flat based load. The urethane roller is driven by the vehicle's own 12 volts electrical system and can be remotely controlled by a tethered pendant or by a hand held infra-red controller.



Typical Air Cargo Installation



Loading bay door installation

The Cargo Roller can be incorporated into a ball or roller bed dock floor at a loading bay door to facilitate fully or semi-automated vehicle load/off-load in pallet handling areas.

It is now not necessary for large and heavy cargo pallets to be manhandled into vehicles with the associated risks and dangers to the loading bay personnel. The electrically driven Cargo Roller will move the heaviest of pallets quickly, smoothly and above all safely. A vehicle and loading bay combination using pneumatically raised rollers, live dock rollers and Rollerbed Systems' Cargo Rollers will provide a safe,

clean and quiet working environment.

Maximize your efficiency and productivity by fitting Rollerbed Systems Powered Cargo Rollers.

**Our products are Manufactured, Distributed, Serviced and Warranted by  
Rollerbed Systems, LLC. West Wyoming, PA - USA.**

## Technical Specification\*

- ⇒ Electric supply ~ 12 or 24 volts DC
- ⇒ Rated Speed ~ 18 feet per minute
- ⇒ Tangential Force ~ 570 pounds
- ⇒ Power rated ~ 0.5 kw
- ⇒ Weight ~ 97 lbs
- ⇒ Box depth ~ 7.5"
- ⇒ Low height version available ~ 6.1"
- ⇒ Polyurethane covered roller to prevent load damage.

\* The technical specification is given for your guidance only please contact us for the latest specification.

## Previous applications

- ⇒ Air Cargo Pallet carrying vehicles.
- ⇒ Air Cargo pallets loading bays.
- ⇒ High Security coin carrying vehicles.
- ⇒ Airport Casket vehicles
- ⇒ Mobile Exhibition and display unit.
- ⇒ Mobile Bank and libraries.
- ⇒ Mobile giant video display units.
- ⇒ Within automated heavy machinery to remotely align heavy press tools.

The Powered Roller can be used inside of a vehicle or installed as part of a static dock loading system. In normal use conventional live rollers, ball track or pneumatically raised roller track will take the pallet weight with the Powered Roller providing the means to move the load. Rollerbed System's Powered Rollers are available as a 12 or 24 volt DC power option with an epicycloidal reducer to provide the tangential force needed to move even the heaviest of air cargo pallets. For ease of installation, cleanliness and reliability, the roller unit is mounted within a steel box containing the lifting assembly.



load and ensure a long working life at the same time .

The low DC voltage aspect of the system offers a safety factor when exposed to rain and extreme road conditions.



There is also a low height version available for installation within a restricted space such as the cramped area above the vehicle's chassis 5th wheel coupling or inside of the frame work of a floor mounted loading dock. The roller is fitted with a wear resistant urethane cover to prevent any damage to the



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