

rotacaster[™]
the wheel 2.0

Multi-Directional Wheels & Ergonomic Materials Handling



www.rotacaster.com.au

Multi-Directional Rotacaster



The Rotacaster™ wheels provide full 360-degree mobility without the need to change direction or orientation. Use can open the door for products that provide new levels of safety, ease of use and productivity. Power driven or free spinning; Rotacasters are ideal for conveyor transfer, robotic and floor wheel applications. Manufactured entirely from engineering resins/polymers, they are light, durable, impact and corrosive resistant. The superior ride quality and robustness have made them the only omni-wheel to offer a commercially viable competitor to the traditional swivel caster. All wheels are offered in a range of bore and roller hardness for different needs.

35mm Rotacaster Wheel

The 35mm Rotacaster wheel represents a new benchmark in ride quality for omni-wheels. It is capable of manoeuvring a mobile robotic printer across a page with the precision and smoothness to create print quality text. At thirteen (13) grams it is light, compact yet extremely robust.



48mm Rotacaster Wheel



The 48mm Rotacaster has proven itself as a robotics competition winner and as an industrial conveyor transfer wheel. It provides a great alternative to ball transfer units and spacing saving furniture casters. Can be simply mounted using shafts, fork or easy fit cup mounts.



125mm Rotacaster Wheel

The 125mm Rotacaster is the toughest of the range. Used on materials handling equipment, pallet conveyor transfers tables, steel sheet and pipe feeders, it is also the ideal solution for powered multi-directional mobility for the emerging service robot market.



Robotic Wheel

Building on the durability and ride quality of the Rotacaster wheel, insert bushings are available to add powered drive capability to the range for a high performance robotic wheel. The 360-degree capability and fluid mobility is considered an essential element for the emerging robotic scene, helping to make robots work autonomously and interactively amongst people.



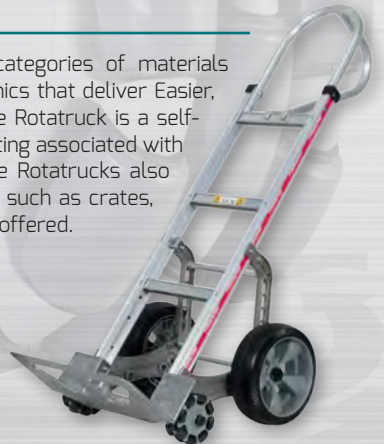
Conveyor Transfer



Rotacaster wheels are used as solutions for conveyor and load transfer needs. They can be driven or free spinning and allow loads to be easily manoeuvred in all directions. They assist in removing line blocks due to friction at changes in direction, allowing loads to self-align or move laterally. Rotacaster wheels can be easily integrated into existing systems with simple mounting options.

Ergonomic Materials Handling

Enabled by the unique functionality of omni-wheels, new categories of materials equipment have been developed to provide improved ergonomics that deliver Easier, Quicker and Safer methods of manual materials handling. The Rotatruck is a self-supporting hand trolley that reduces the effort, bending and lifting associated with the use of standard hand trolleys and carts. Special purpose Rotatrucks also address the challenges of de-palletising and moving products such as crates, gas cylinders, kegs and drums/pails. Dollies and carts are also offered.



Robotic Applications with Rotacaster Wheels



ZutaLabs Pocket Printer (Israel) utilises the 35mm Rotacaster with soft rollers for optimal traction and unlimited mobility.

ZutaLabs



Robotino XT – The mobile bionic handling assist from Festo (Germany) uses 125mm Rotacaster Robot Wheels.

FESTO



Estel (Spain), Esclatec's Wheel Chair moves with the freedom of 360 degree using Rotacaster's wheel technology.

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