

Hydraroll Mark 21 Twin Roller Track System



A New Era In Ground Movement Of Air Cargo.



Introducing The Next Generation Of Pneumatic Roller Track Systems

Easier to Operate

- On average, the Hydraroll Mk. 21 Twin Roller Track System requires 20% less force to move a fully-loaded container compared to standard roller systems. Less force equals less worker strain and improved working conditions.
- The Mark 21 main channel is interchangeable with the Mark 4. Older systems can easily be retrofitted and have all the benefits of a twin roller track system.
- Primary and backup controls are centralized in an easy-to-access, stainless-steel, weatherproof enclosure.
- 35% stronger bearings and 21% more roller assemblies means that the system can operate easily with five tracks instead of six. Lower installed cost, fewer tracks to maintain, more payload capacity and better fuel economy.



Easier to Maintain

- With the combined twin roller design and limited top plate roller opening, the area for debris to enter is reduced by 45% compared to competitor's systems, and by 29% compared to previous Hydraroll systems.
- The roller cradle is enclosed on each end: debris cannot slip through to damage the air bag. The air bag is completely protected with an acetal strip that runs the full length of the main channel.
- The patented, wide-track twin rollers are made exclusively for Hydraroll. The bearings have been tested for the equivalent of over 35 years of service at loads exceeding the rated capacity with no discernible wear.
- The number of roller assemblies in the critical rear impact area has been doubled for increased durability and ease of movement.



Hydraroll Mk. 21 Twin Roller Track

● Wide-track Twin Rollers Provides Improved ULD Support

● Hi-strength, Quick-release Top Plates

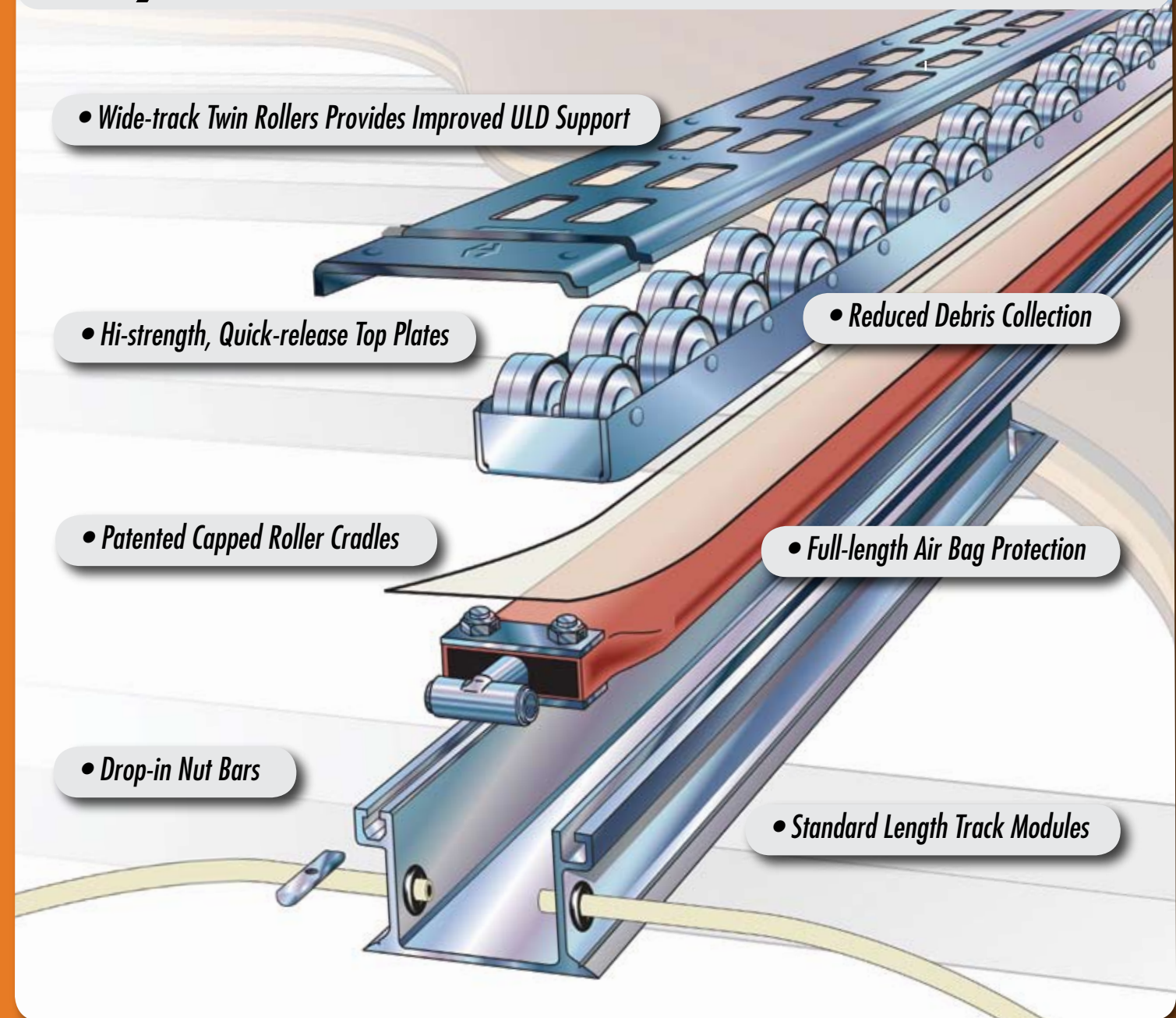
● Reduced Debris Collection

● Patented Capped Roller Cradles

● Full-length Air Bag Protection

● Drop-in Nut Bars

● Standard Length Track Modules



**This All Adds Up To Greater Reliability And Durability,
Lower Operating Costs, Better Working Conditions.**

**And, Hydraroll Has The Best Warranty In The Industry:
10 Years On The System; 2 Years On The Airbag.***

Five Tracks Are Better!

Bearing Capacity



Standard 2-inch System - Six Tracks

37% Increased Capacity!

Mark 21 Twin Roller System - Five Tracks

Container Support



Standard 2-inch System - Six Tracks

30% Increased Support!

Mark 21 Twin Roller System - Five Tracks

The Hydraroll Mark 21 Twin Roller Track Systems have higher capacity bearings and increased ULD support from the wide-track, twin roller design. Air freight operators can now confidently spec a five track system instead of six, with plenty of reserve capacity compared to standard 2-inch wide roller track systems.

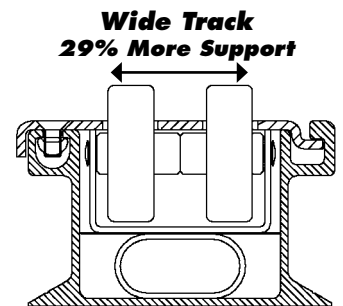
One Less Track To Maintain, Lower Cost, Greater Fuel Savings!



Joloda International Ltd. is one of the world's leaders in designing, manufacturing and installing specialized material handling systems for the transportation industry. Product groups include:

- Pneumatic Roller Track (PRT)** – Air cargo & palletized freight.
- Powered Cargo Rollers** – Used in conjunction with PRT to provide automated loading and unloading of airfreight containers.
- Automated T-bar** – Powered unloading of palletized freight.
- Automated Slip-chain** – Powered loading & unloading of beverage, automotive, palletized freight.
- News Print System** – High speed loading and unloading of paper reels.
- Refrigerated Trailer Loading System** – Flat floor automated loading system for palletized loads.
- Skate & Track** – Paper rolls, automotive. Remote site non-dock off-loading of palletized freight.
- Moving Floor System (MFS)** – Paper rolls, automotive, steel racks & non-palletized freight.
- One Shot Container Loading** – 20' and 40' sea container bulk loading system.
- Container Lifting System** – Remote site sea container mounting and dismounting from container chassis.

Mark 21 Series 6 Track Specifications



- Track Height** 2 5/8" / 67mm
- Track Width** 4 1/2" / 115mm
- Track Length** 10'6" / 3.2m & 13' / 3.962m standard (custom lengths available)
- Track Weight** 7.5 lb/ft / 11.2 kg/m (3 5/32" / 80mm pitch) & 6.6 lb/ft / 9.8 kg/m (6 3/8" / 162mm pitch)
- Rollers Diameter** 2" / 49.2mm
- Rollers Width** (Twin) 5/8" / 16.7mm HD Skate Rollers
- Rollers Spacing** 3 5/32" / 6 3/8" (80 mm / 162 mm)
- Rollers Lift** 1/2" / 12.9mm
- Main Channel Type** Bottom & Wing (optional) Mount
- Bearing Capacity** (Twin) 300 lbs / 136Kg
- Lifting Capacity** 370lb/ft / 550Kg/m
- Operating Pressure** 30 PSI / 2.1bar
- Centralized Controls** Housed inside a stainless steel weatherproof enclosure



Loading Automation Inc. is the exclusive North American distributor for Joloda and Hydraroll products. Founded in 1992, the company is a full-service systems integrator of automated shipping and receiving systems for both packaged and bulk products. Product groups include: automated loading/unloading equipment, live floor and specialty trailers, automated shipping and receiving systems, and bulk handling systems.

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