

Cleveland Tramrail Bridge Components



Tarca® Rail

Tarca® Track features specially rolled high-carbon alloy steel rail with raised treads welded to a steel flange and web. Tarca® is designed to provide maximum spanning capability for heavy loads while minimizing the weight of required material. Its material properties resist peening and assure a longer operating life than ordinary track designs.



Photo shows carrier with drive and SAFPOWRBAR® electrification.

Carriers (Trolleys)

Cleveland Tramrail carriers provide the connection between the lifting device and the bridge. Our carriers are designed for years of peak performance:

- The wheel base is proportioned for smooth, vibration-free carrier operation.
- Swiveling yoke provides unmatched performance through curves and switches on monorail systems, contributing to longer track life.
- Precision manufacturing and specially designed wheels assure consistent wheel to rail contact.
- The extensive variety of our carriers provides endless flexibility to tackle any application
- Manually driven carriers are also available



Belt-driven model show here.

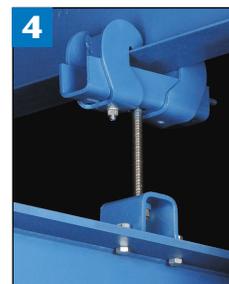
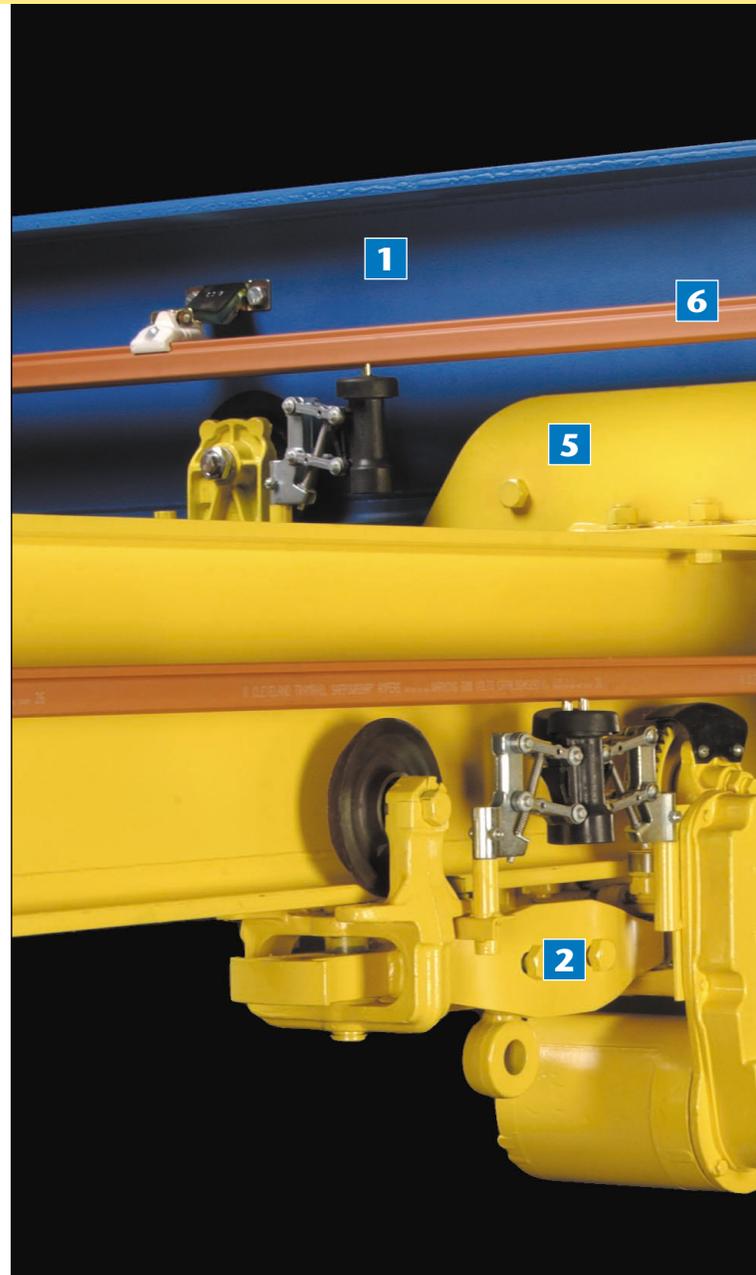
Motorized Drives

Cleveland Tramrail's drives motorize the travel of carriers and end trucks. We offer:

- A gear driven drive, the best choice for most applications
- A belt driven drive designed to be a lower cost alternative to the gear driven drive
- A tractor driven drive for specialty systems, such as pulling loads up a slope or for use in wet conditions.

Our drives were specially designed to make them long wearing and easy to service.

- Guide rollers equipped with anti-friction bearings align wheels on track for easy movement
- Split frame construction for easy removal and reinstallation



Hanger Assemblies

Our hanger assemblies provide a connection between the Tarca® track and structural support.

- Our hanger rods are made of high-quality steel with cold-rolled steel threads
- Adjusting clamp fits a range of flanges
- Ball and socket design compensates for structural shift
- Teflon® coated chair washers provide durable, long lasting performance



SAFPOWRBAR® is available in three materials for different applications:

- Galvanized steel (standard) for 140 amps
- Stainless steel for 75 amps
- Copper for 300 amps



SAFPOWRBAR® Electrification (Brackets, Collector Shoe and Bar)

Cleveland Tramrail SAFPOWRBAR® Electrification is used to deliver electric power to drives and hoists. This rugged, durable system is made to perform in the most demanding applications and environments.

- Inverted U-shaped conductor bars enclosed by flame resistant insulated covers
- Fiberglass molded insulators for double insulation, making them safer and more efficient
- Sliding current collector shoes inside the bars make positive, continuous contact with three surfaces of the bar for longer life and easier maintenance.

This bar is UL approved and perfect for bridge and monorail systems. It provides unmatched performance in complex monorail systems that involve switches and curves.

End Stop

End stops are required and must be provided at the ends of the carrier or trolley travel and at the end of crane travel on runways.

Our end stops are unique in that they strike the end of the load bar, rather than the wheels. This prevents the wheels from absorbing the force of the load and reduces the areas of wear.

We offer standard wheel end stops for lighter applications and rubber, spring or hydraulic bumpers for higher speed conditions.



Motorized end truck shown here.

End Trucks

End truck with drive for motorized travel on runway

Cleveland Tramrail end trucks provide the connection between the bridge and runway. These rugged end trucks give you smooth, easy travel with little or no maintenance.

One advantage of our end trucks are their wheels. While other manufacturers have fixed wheels on their end trucks, our articulating wheels allow for irregularities in track and runways. End trucks can also be manually driven.

Integrated Solutions for Every Application

This drawing shows how Cleveland Tramrail's under-hung crane systems, including monorails, bridges, curves, switches, interlocks and SAFPOWRBAR®, can be used to efficiently move material overhead through an entire production facility.

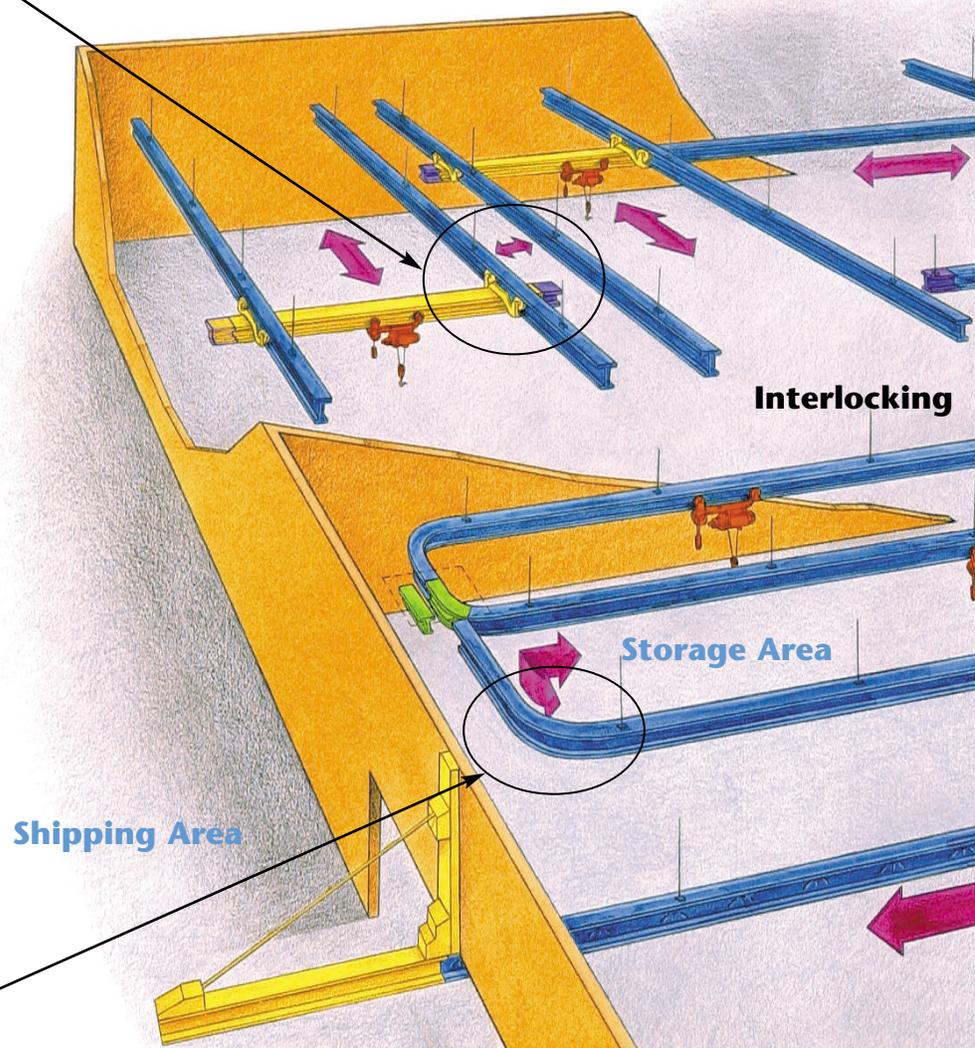
Our Interlocks give you safe, smooth crane to crane transfers!

Cleveland Tramrail interlocks provide a safe, easy way to transfer from one crane system to another.

A real advantage is the automatic latch which is preset by use of a pull chain. This causes an interlock to snap into action immediately upon reaching the transfer point. The latch engages solidly and both sets of safety forks swing up simultaneously. No time is lost trying to jockey the cranes into position.

These rugged, reliable interlocks are available for manual and motor operation.

Manufacturing & Assembly Area



Monorail Curves Offer Flexible Layout Options

We supply Tarca® curves to complete the layout of a Tramrail system. Our curves are cold-formed from standard Tarca® track.

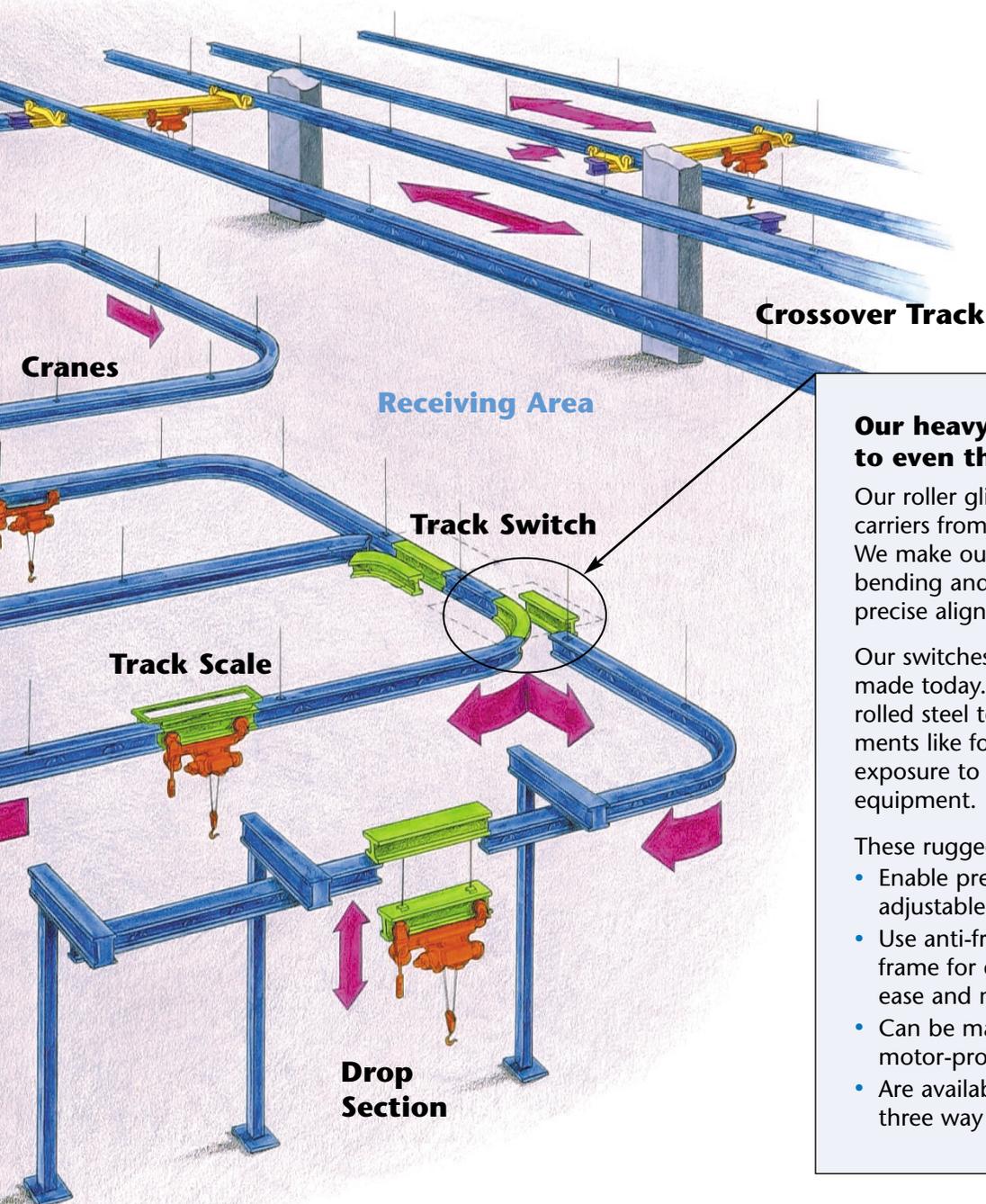
We can accommodate your requests in terms of overhangs, degree of curve, radii, undercut ends, standard switch ends and coupling drillings in web.

Cleveland Tramrail has built a reputation based on quality products, top notch service, engineering experience and application knowledge. This combination allows us to provide flexible integrated solutions. Plus, with local representation, we can work with you to solve any material handling problem.

SAFPOWRBAR® Electrification

SAFPOWRBAR® is ideal for a comprehensive system like this. It is simply the best choice in electrification for systems involving switches and curves.

- **Runway/Monorail**
- **Bridges**
- **Switches**
- **Interlocks**
- **Product Flow**



Our heavy duty switches stand up to even the toughest applications

Our roller gliding switches guide loaded carriers from one overhead track to another. We make our switches with accurate curve bending and careful fitting so you get precise alignment and smooth operation.

Our switches are the heaviest duty switches made today. They are built from high grade rolled steel to stand up to tough environments like foundries, where prolonged exposure to sand and grit can ruin other equipment.

These rugged and easy to operate switches:

- Enable precise alignment due to an adjustable outer frame
- Use anti-friction rollers to carry the inner frame for even load distribution, operating ease and minimal wear
- Can be manually or motor operated & motor-propelled
- Are available in left-hand, right-hand and three way

Your authorized Gorbel dealer can give you more information on what makes Gorbel's Ergonomic Work Station Cranes and other Gorbel products "A Class Above."

Bridge Cranes
(Enclosed Track)

Jib and Gantry Cranes

Specialty Products
(Enclosed Track)

Intelligent Assist Devices
and Ergonomic Studies



GORBEL
A CLASS ABOVE



Capabilities



Robotic



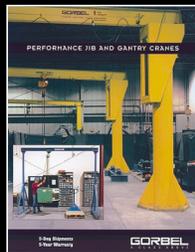
Automated Cranes



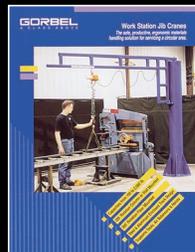
Free Standing



Ceiling Mounted



Jib and Gantry Cranes



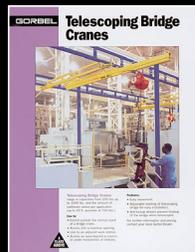
Work Station



Articulating



Seismic Zone IV



Telescoping



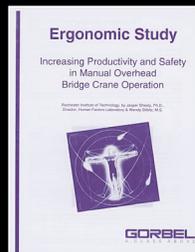
Tractor Drives



Interlock/Transfer



G-Force



Productivity & Safety

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