



TC / AMERICAN

THE BEST MOVES IN THE WORLD

- UNDERHUNG & TOP RUNNING CRANES
- STACKER CRANE SYSTEMS
- MONORAILS
- SPECIALIZED AVIATION MAINTENANCE CRANES
- SPECIALIZED LAUNDRY & OVERHEAD MATERIALS HANDLING



THE RIGHT MOVE

TC/American Crane Company combines the resources and over a century of experience to meet the needs of today's industries and beyond. We're working harder than ever to serve your needs and remain acknowledged worldwide as the innovator in the industry. We're totally committed to leadership in technology, quality and service in all our product lines:

- **Underhung & Top Running Cranes**
- **Stacker Crane Systems**
- **Monorails**
- **Specialized Aviation Maintenance Cranes**
- **Specialized Laundry & Overhead Materials Handling Systems**

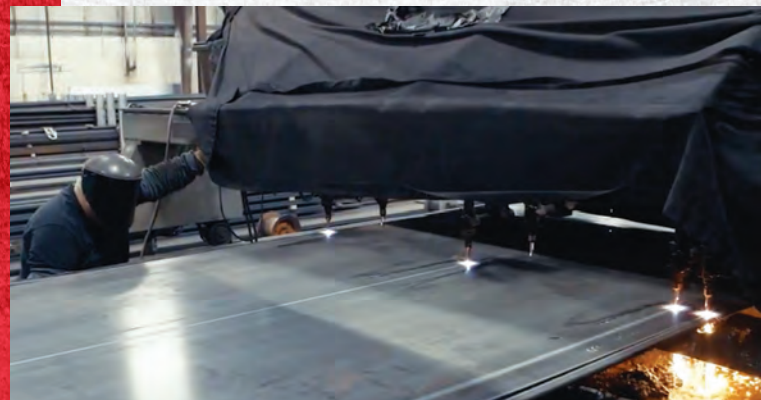
Look to TC/American Crane Company for products that meet the demands of a complex and competitive environment. A company whose focus is on the customer. Helping industry move things better. Making jobs run smoother. Keeping production on schedule.

MARKETS WE MOVE

Every segment of industry has its own materials handling challenges and TC/American has a solution. From automotive to aerospace, foundries to warehouses, manufacturing to maintenance, whenever industry requires precise overhead motion to move heavy loads, they turn to TC/American. Find out what we can do for you and how we can help you make your moves easier.

ON THE MOVE

Start with design capability, add manufacturing experience and full-time service back-up. That's TC/American's philosophy of customer service. Our factory representatives, distributors, and dealers are ready to analyze your overall system requirements; offer practical, profitable answers to your needs; and keep you on-line with the finest in components, accessories, systems, and service.



TC / AMERICAN

WHAT'S THE DIFFERENCE

Time after time. Year after year. We've built *the perfect beast of burden* – the best overhead rail/trolley system for moving all kinds of material in all kinds of ways.

We discovered years ago that conventional I-beam systems have a lot of shortcomings. Solving those problems led to our TC/American patented track system – the one to trust for dependable workhorse performance day in, day out.

Every TC/American track and trolley system offers complete design flexibility. You can move loads easily throughout your plant in precisely the patterns you choose. And because it's engineered with standard components wherever possible, this superior system can also cut installation costs. But most important, it delivers smoother performance, longer, with less maintenance. Check the charts below for a point-by-point comparison of how TC/American outperforms any system using structural I-beam tracks.



TC/AMERICAN Track

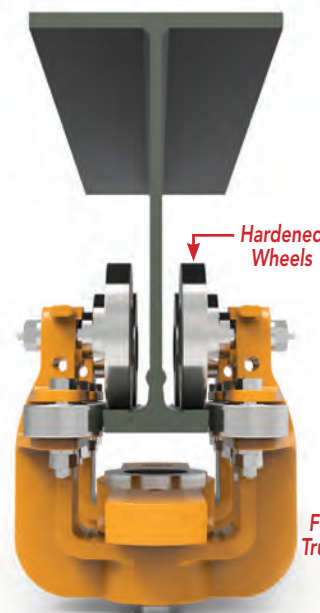


Failed I-Beam

TC/AMERICAN

VERSUS

I-BEAM



Flat Tread True Rolling



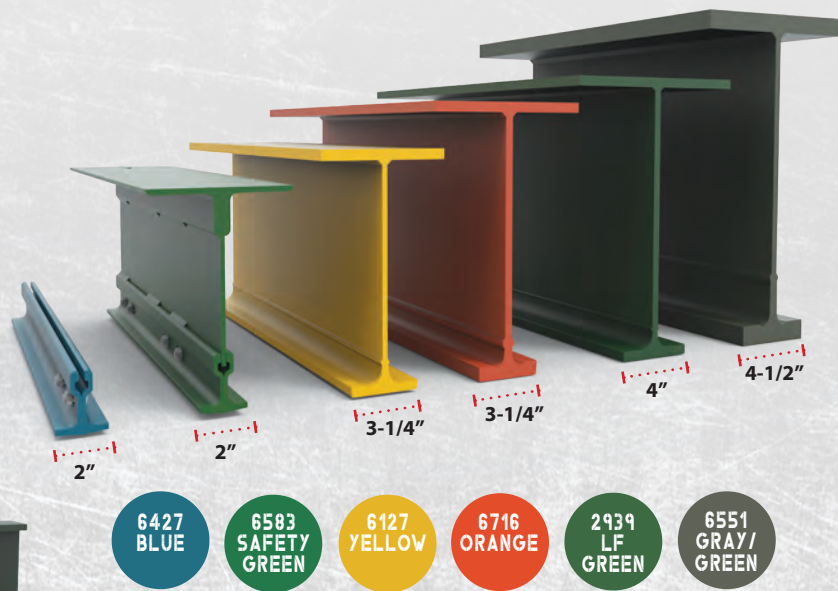
Tapered Wheels

FEATURE	TC/AMERICAN TRACK	VS	I-BEAM	=	TC/AMERICAN SYSTEM BENEFIT
Hardness	TC/American Tee section is a specially rolled, high carbon-manganese alloy steel with a 225 Brinell hardness and 125,000 ultimate tensile strength.		A-36 mild steel, 130 Brinell hardness and 60,000 ultimate psi tensile strength.		Harder rail gives better wear resistance and easier rolling under heavy loads.
Tread design	Flat tread operating flange.		Tapered flanges.		Flat tread allows true rolling - tapered tread has slipping and friction.
Manufacturing tolerances	Close manufacturing tolerance - beams are cambered and straightened for uniformity in regard to: <ul style="list-style-type: none"> • Web to flange perpendicularity • Sweep • Beam Twist • Beam Depth 		Mill tolerances only - less controlled.		Uniformity creates better operation - less component wear - reduced time.
Availability	Wide selection of sizes - computer designed for optimum section modulus.		Size limited to mill shapes.		Most economical size for given loading condition; typically 25% plus weight savings.

FEATURE	TC/AMERICAN TROLLEY	VS	RIGID TROLLEY	=	TC/AMERICAN SYSTEM BENEFIT
Wheel tread	Flat tread - true rolling.		Tapered tread - partial sliding and friction.		Easier operation. Easier rolling. Less wheel wear. Less track wear. Longer track life.
Wheel hardness	425 Brinell.		230 Brinell.		Longer wheel life. Easier rolling. Larger wheel loads.
Wheel load equalization	Articulated - uniform wheel loads.		Rigid or semi-rigid -unequal wheel loads.		Easier rolling. Longer wheel life.
Load-bar fittings	Various engineered connections.		One standard connection		More adaptable to various type loads.

RAIL LINE

The backbone of any monorail or crane system is the rail. At TC/American Crane Company, we manufacture rails specifically designed to provide the maximum in strength, flexibility, and durability. Our rail uses high carbon-manganese steel tee sections which are rolled to close tolerances for maximum strength and long life while keeping weight to a minimum. These special alloy steel tee sections provide many years of dependable service, as compared to common structural steel beams which are mild steel and not precision made. TC/American Crane offers patented track in numerous standard rail configurations for a variety of applications up to 20-ton or more capacity.



- 6427
BLUE
- 6583
SAFETY
GREEN
- 6127
YELLOW
- 6716
ORANGE
- 2939
LF
GREEN
- 6551
GRAY/
GREEN

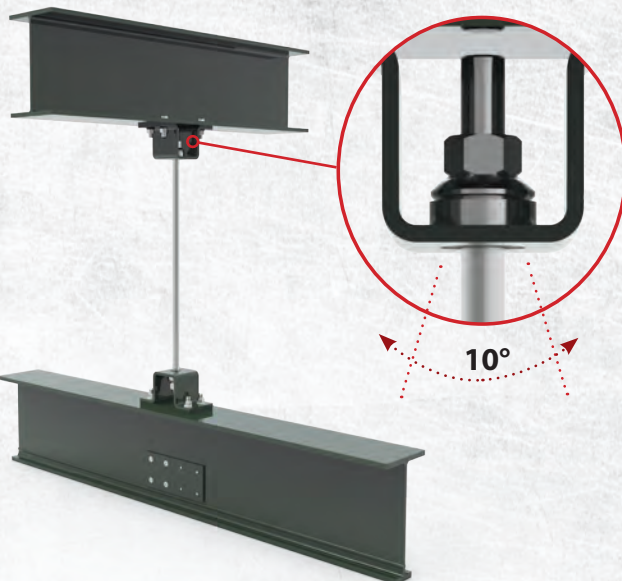
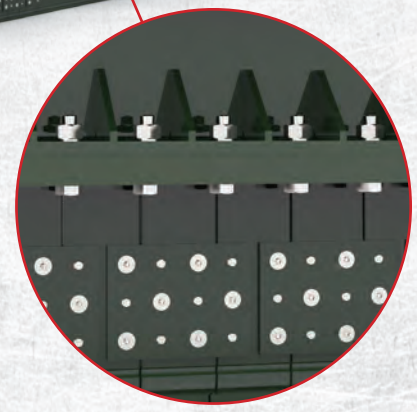


CURVES

Curves are cold formed and available in all track series in radiuses starting at 24\".

EXPANSION JOINT

Allows use of a monorail or runway across buildings expansion joint without compromising its ability to function.

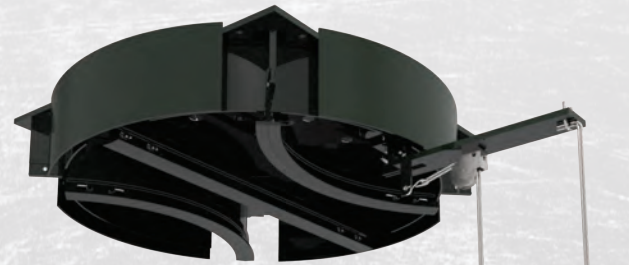


SUSPENSION ASSEMBLY

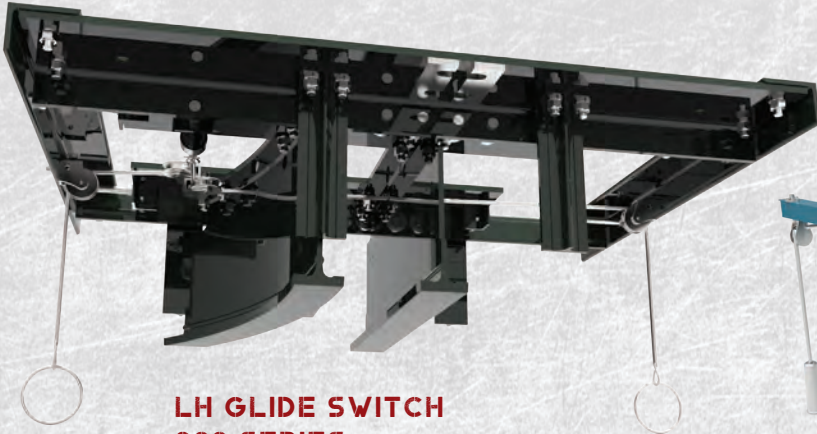
Our flexible suspension system may be bolted or clamped to support steel and is available in capacities up to 40,000 lbs. Use of this system may reduce the number of sway braces needed as compared to an ordinary rigid hanger rod system. Spherical seats and washers are used to allow up to 5 degrees of movement from perpendicular; which may reduce installation time since it can accommodate some "out-of-level" conditions, without the need for additional shimming.

SWITCHES

TC/American provides a full line of manual and powered monorail accessories including switches, crossovers, turntables, and lift sections. Our standard cataloged components handle most applications, but if your application requires more, we invite you to put our talented design and engineering team to the test.



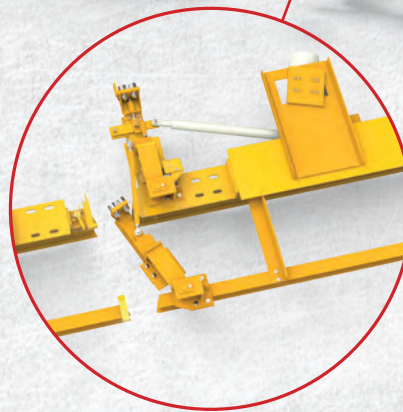
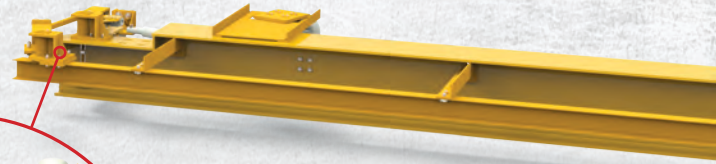
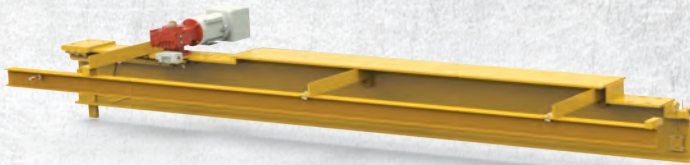
3 WAY ROTARY SWITCH



**LH GLIDE SWITCH
800 SERIES**

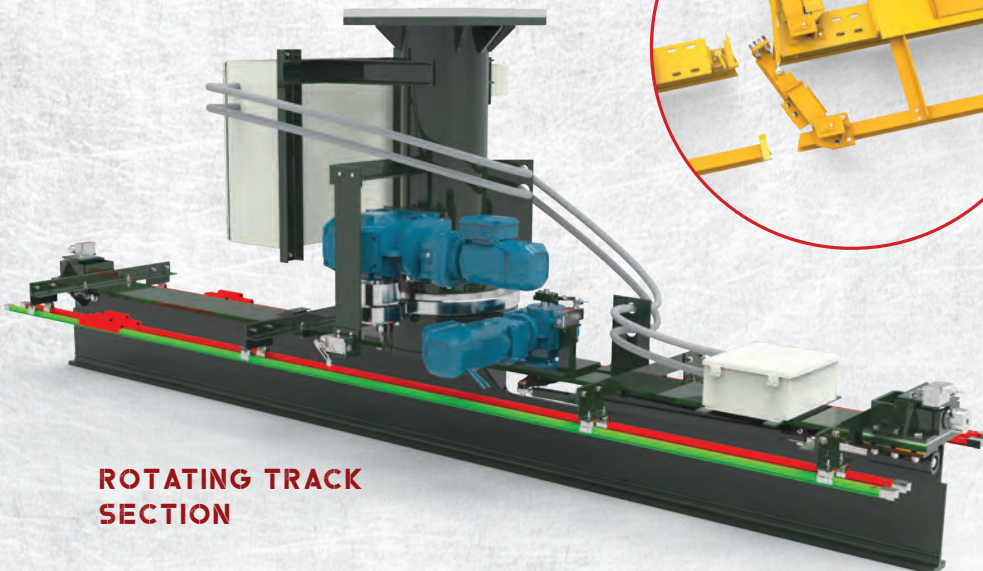


**200 SERIES
TONGUE SWITCH**



TRACK OPENERS

Initially designed for use with fire doors, track openers allow a gate section of a monorail to swing out of the way and provide clear passage for a door through the monorail line. Track Opener operation can be motorized, manual with pull ropes, or spring loaded to make way for fire doors automatically. Monorail track can be either electrified or non-electrified and if your application requires a more extensive track opening rotating track sections are available.



**ROTATING TRACK
SECTION**



TROLLEY AND END TRUCKS

Articulating trolleys are designed to last long and roll smooth and easy. TC/American trolleys and wheels are precision assemblies. Trolley yokes are adaptable to almost every industrial transport situation. Hardened wheels ride on regreaseable or pre-lubricated, permanently sealed ball bearings. Two, four and eight wheel trolleys are available in capacities ranging from 1500 – 16000 lbs.

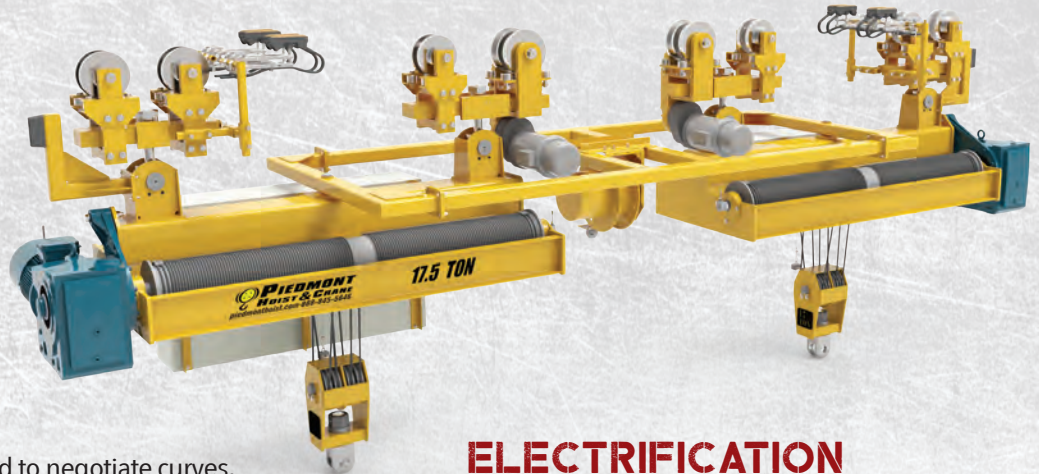
End trucks are available in four and eight wheel configuration with capacities up to 60,000 lbs. for both manual and motorized applications. TC/American end trucks are designed around our articulating trolleys to provide smooth, quiet operation with consistent wheel contact and equalized wheel loading.



3T-8000-2SR



**8 WHEEL END TRUCK
3ET-24800-8SR**



CARRIER

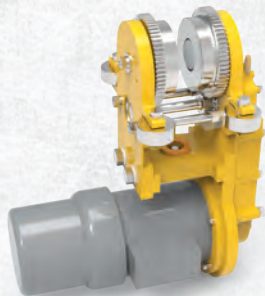
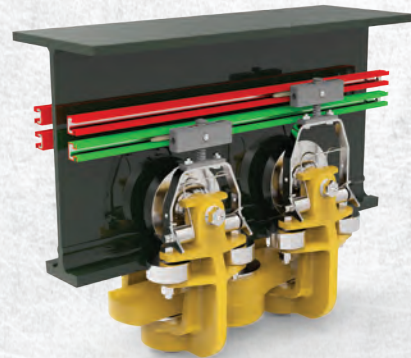
Single Girder Hoist Carriers are designed to negotiate curves, interlocks, and switches while keeping wheel loads within the limits of the monorail and bridge girders. All carriers are custom designed for the hoist being used, the capacity and the application (straight rail, curves, switches, etc.).

THE POWER TO MOVE

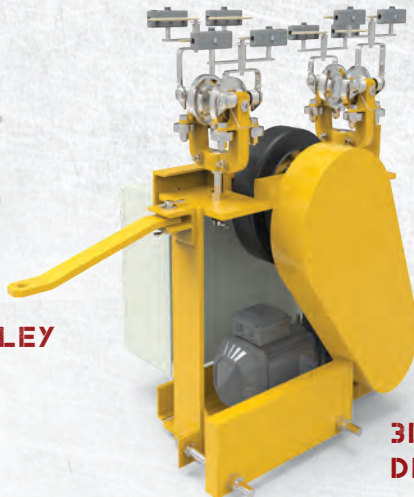
TC/American offers a versatile collection of drive options to fit your application needs. Our motorized trolleys, tractors, and rubber tire drives systems have been designed for years of trouble-free, reliable service in your most demanding applications. Systems can be powered with 1/3rd – 5 HP motors providing speeds of 28 – 600 FPM (feet per minute) in a variety of control configurations.

ELECTRIFICATION

Our 105 amp shielded channel-bar is ideal for new or existing installations. TC American shielded channel bar electrification provides trouble-free service for both crane and monorails, and it's universal so it can be used in either side contact or bottom contact applications in either straight or curved configurations.



**MOTORIZED TROLLEY
3MT5-6200-AT**



**3D-6256-SR
DRIVE TRACTOR**



**RUBBER
TIRE DRIVE**



AIR MOTOR DRIVE CRANES

For applications where an electric motor drive is not usable or desired. Available with spark resistant features.



LOWERATOR

Allows transfer of loads to monorails operating on different elevations.



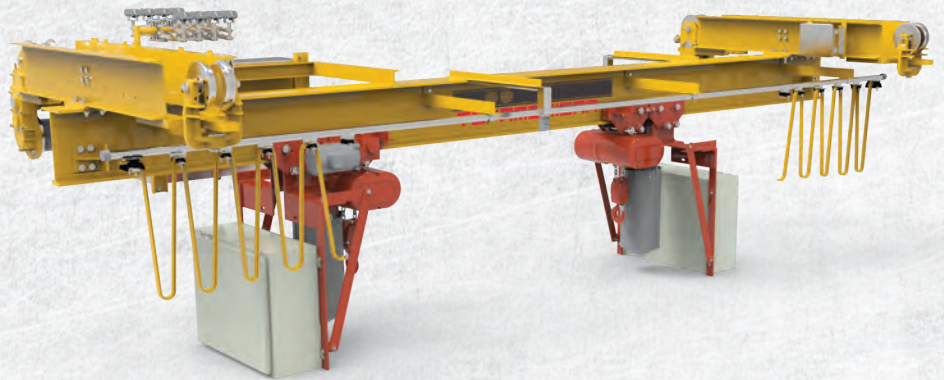
TELESCOPING CRANE

The telescoping crane allows the operator to safely move loads outside of the standard overhead crane work envelope. Available in capacities up to 10-ton.



SINGLE GIRDER CRANE

Available in capacities up to 20-ton.

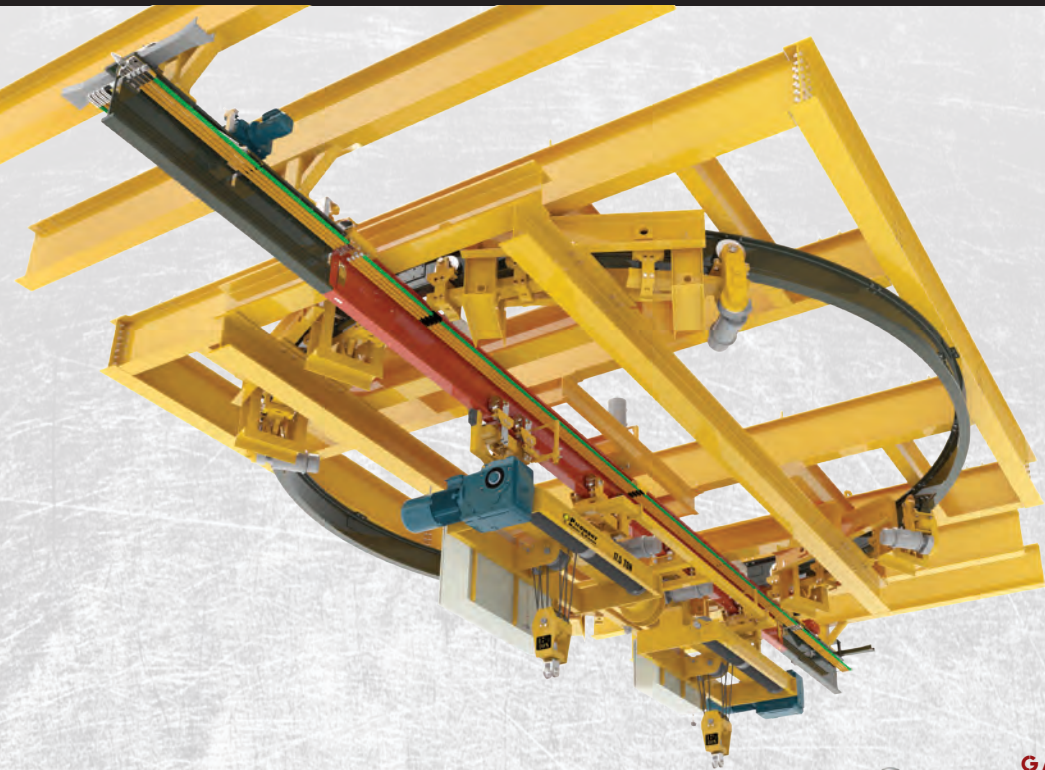


DOUBLE GIRDER CRANE

Available in capacities up to 25-ton. Shown in 3 runway configuration.



TC/AMERICAN

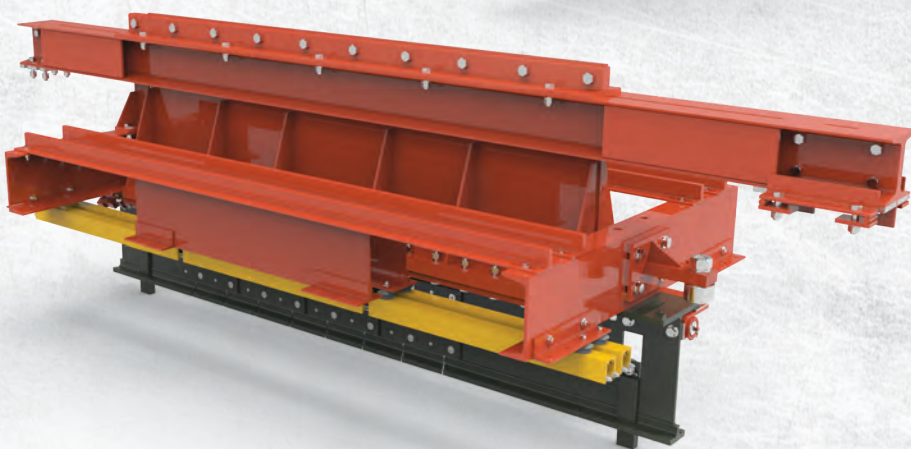
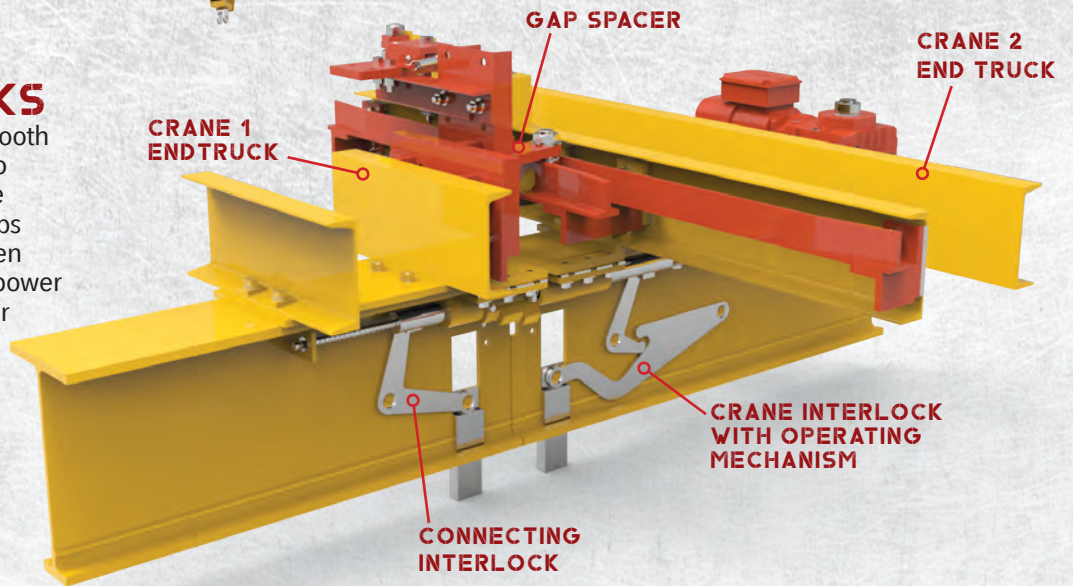


TURNTABLES

Unlike a standard switch, turntables are very adaptable to most configurations and are designed to move while under load. Turntables can be used to allow rotation of a load when suspended from multiple suspension points such as a twin hook hoists.

CRANE INTERLOCKS

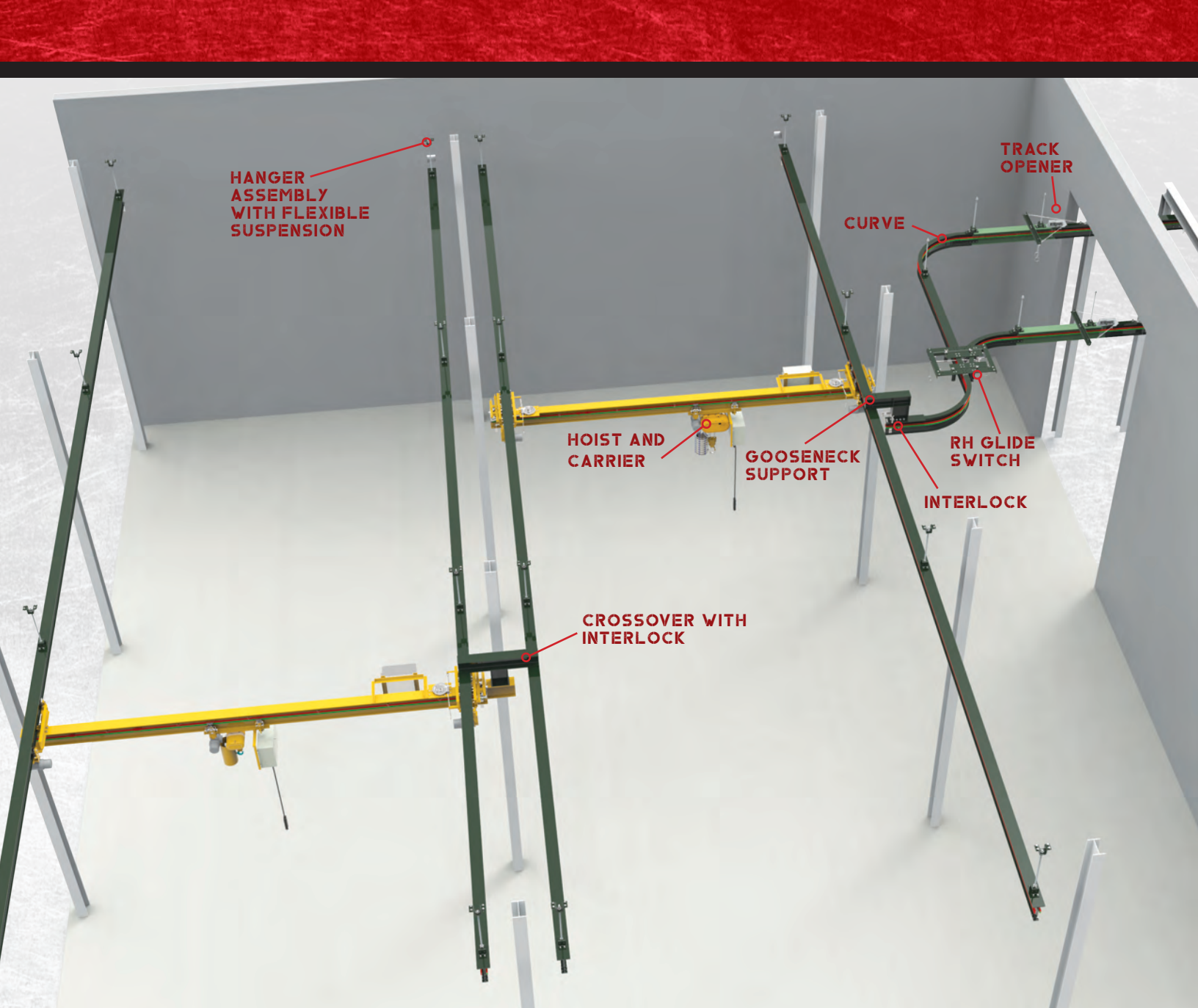
Permit accurate alignment and smooth travel of a hoist carrier between two adjacent cranes or between a crane and monorail system. Load bar stops prevent carriers from rolling off open ends of cranes. Both manual and power operated interlocks are available for single and double girder cranes.



COMPENSATING CROSSOVER

Crossovers are used where building obstructions prevent latching or interlocking of one crane bridge directly to another; carriers can be transferred bridge-to-bridge via an Interlocking Crossover. Compensating crossover (as shown) are ideal for maintaining proper gap spacing when interlocking two or more long span multi-runway cranes together.





SAVE TIME & MONEY WITH TC/AMERICAN

System Design

- Design Flexibility
- Lighter building loads
- Pre-engineered components available to custom fit your application
- Eliminates redundant structure
- Efficient use of floor and air space
- Optimum material flow

Ease of Installation

- All cranes are completely mechanically and electrically assembled and factory tested before installation

- Runways are prefabricated, pre-punched, pre-cut, and pre-painted
- Match-marked crane runways reduce installation time
- Crane runways use bolt-together construction for splices and supports

Ease of Expansion

- Underhung design permits economical expansion of the crane system by interlocking with additional cranes and/or monorails
- Bolt-together runway construction allows for easy modification
- Standard design of all components ensures compatibility

Ease of Maintenance

- Interchangeable standard parts
- Trolley design allows easy wheel changing
- Hardened operating track reduces need for runway beam replacement
- Steel wheels with hardened treads for long life

A Wide Range of Options

- Multiple runway and interlocking systems
- Single, double, triple-girder or truss cranes



TC/AMERICAN

MAKING JOBS RUN SMOOTHER



SINGLE GIRDER CRANES



AVIATION MAINTENANCE PLATFORMS WITH TELESCOPING LIFTS



STACKER CRANE



LAUNDRY MONORAIL



TC / AMERICAN



**FULLY AUTOMATED
DIPPING CRANE SYSTEM**



**15 TON DOUBLE
GIRDER 4
RUNWAY CRANE**



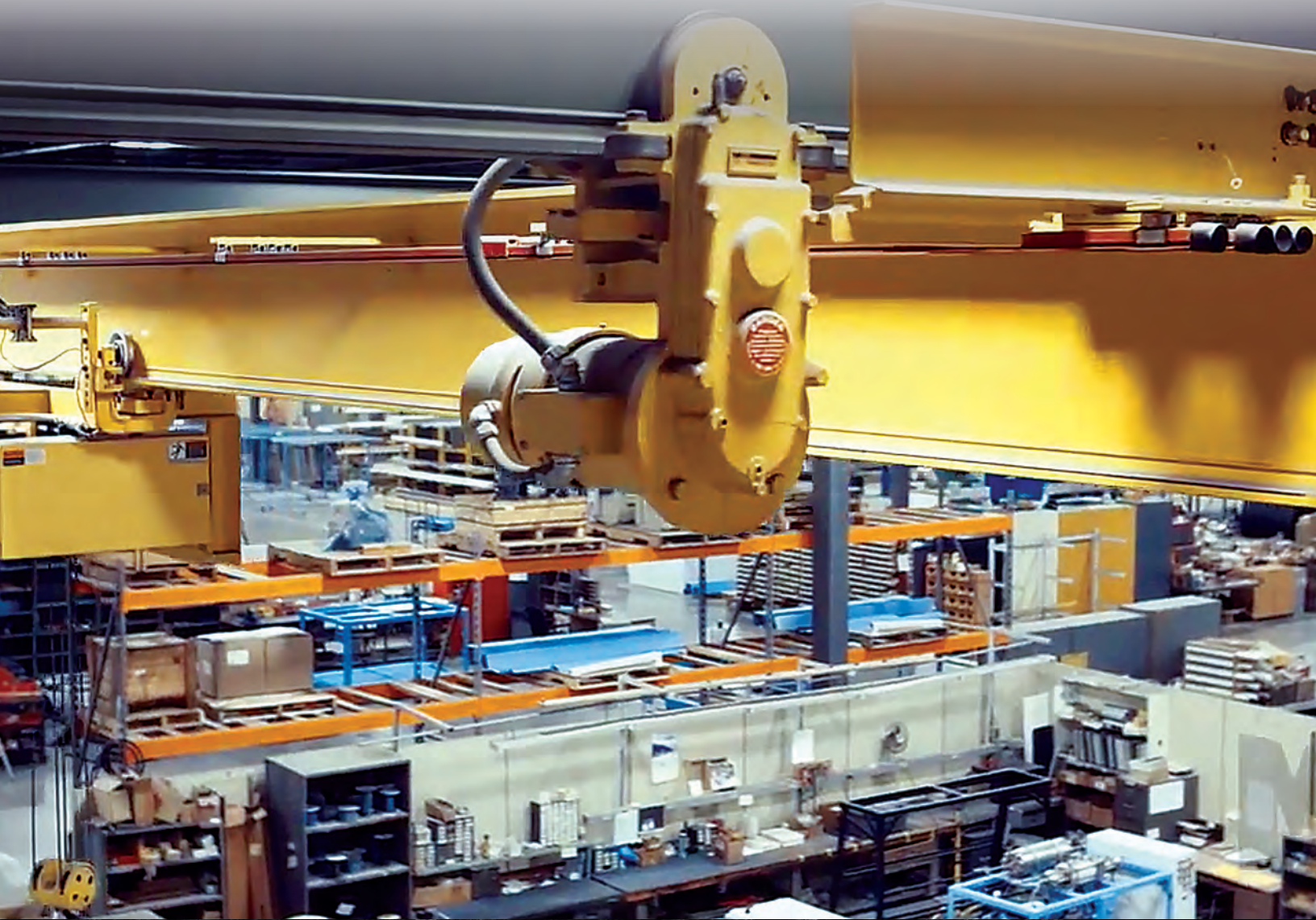
**5 TON DOUBLE
GIRDER CRANE**



**JET ENGINE
MAINTENANCE**



TC / AMERICAN



TC/AMERICAN CRANE COMPANY

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