Ingersoll Rand offers:

- Ceiling-supported workstation bridge cranes
- Freestanding workstation bridge cranes
- Monorails

Zimmerman Series Rail Systems

**Ceiling-supported workstation bridge cranes:**

- Ideal for high-volume production environments with limited floor space
- Capable of mounting parallel or perpendicular to overhead support steel
- Provide rectangular coverage for a single workstation, or an entire assembly line with multiple bridge cranes
- Capacities up to 3,000 lb

**Freestanding workstation bridge cranes:**

- Floor supported to eliminate the need for overhead support structure
- Available in 1/4, 1/2, and 1 ton capacities and 6, 8, 10, and 12 column designs to cover lengths up to 105 ft or more
- Lindapter® adjustable toe clamps make it simple to align runways for smooth operation
- Rugged design with gusseted column base plates
- Custom-designed structures available to meet special applications

**Monorails:**

- Provide simple single-axis transfer
- Curved sections available for navigating obstructions

**Support steel**

**Hanger assembly**

**Safety cable assembly**

**Runway**

**Bridge crane**

**End truck assembly**

**Lindapter® adjustable toe clamp**
Zimmerman Series Rail Systems

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Ingersoll Rand offers:
- Ceiling-supported workstation bridge cranes
- Freestanding workstation bridge cranes
- Monorails

MMA-CERTIFIED

Ingersoll Rand Rail Systems are now MMA-Certified.
Profiles:

Quality steel, aluminum, and stainless steel rail systems
Ingersoll Rand rails are available in three different materials and five different sizes to meet your specific material handling needs. The enclosed rail systems design reduces the accumulation of dirt and grime on the internal rolling surfaces, thus reducing rolling effort.

The Ingersoll Rand Rail Systems ADVANTAGE

* Lightweight and ergonomic — Less than 1 percent rolling resistance
* Precision running surface — Aluminum, steel, and stainless steel available
* Modular and flexible — Bolted together; no welding required
* Clean, maintenance-free operation — No lubrication required

Zimmerman Series Rail Systems

Components:

Safety First
The primary and vital concern of Ingersoll Rand is safety.

- Deflection — Ingersoll Rand rail is designed to not exceed 1/450 of span, in accordance with ANSI B30.11 monorail and underhung cranes
- Safety cables — We require the use of safety cables at all moving (hanger and end-truck) suspension points
- Redundant end stops — Available for extra safety
- Load ratings — Clearly marked on both sides of bridge cranes
- Safety factor — All hardware components are rated at a 5 to 1 safety factor based on metakihn tests performed at independent testing laboratories

Articulating end trucks

- Maximize the ability of the operator to precisely position the load
- Reduce fatigue by allowing the operator to move only the portion of the bridge crane near the load
- Dramatic improvements over typical rigid end-truck systems, which require the user to move the entire mass of the bridge crane for each operation

Advanced Trolley Design
Ingersoll Rand trolleys are designed to work in conjunction with the enclosed track rail to reduce the rolling effort required to move a load. In fact, only a force equal to 1 percent of the total rolling weight is needed when moving loads.

- Lightweight — Trolleys are made from high-strength, lightweight aluminum castings
- Injection molded wheels — Provide for clean, wear-free operation that resists flattening
- Sealed precision bearings — In wheels and side guide rollers, they provide long life and reduced maintenance
- Rail safety lug — Prevents the body of the trolley from being pulled through the enclosed track rail
- Versatile — Ingersoll Rand-built trolleys are available for use in virtually every manufacturer's enclosed track rail system

Lightweight aluminum profiles

- Lightweight and available for long spans
- Extruded from aluminum alloy 6063-T6
- Clear anodized for a smooth, clean, corrosion-free surface

<table>
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<tr>
<th>Part No.</th>
<th>30000T</th>
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<tr>
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<td>m</td>
<td></td>
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<td>30.0</td>
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Rugged steel profiles

- Roll formed from 9 gauge, A569 hot-rolled steel
- Spot welded with automated welder for maximum strength
- Powder-coat painted for durability and smoothness

Clean stainless steel

- Engineered for clean room applications
- Ideal for the food and pharmaceutical industries
- Roll formed from 10 gauge, 316 L stainless steel

<table>
<thead>
<tr>
<th>Part No.</th>
<th>ZRS2T</th>
<th>ZRS2T</th>
<th>ZRS3T</th>
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<tr>
<td>24.0</td>
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Strongback profiles

- Reinforced profiles for added strength
- Uses the same hardware as standard profiles
- Increases span capacity

<table>
<thead>
<tr>
<th>Part No.</th>
<th>ZRA2T</th>
<th>ZRS2T</th>
<th>ZRS3T</th>
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<td>Maximum Length</td>
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<tr>
<td>7.0</td>
<td>2.13</td>
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</tr>
</tbody>
</table>

Zimmerman Series Rail Systems

Hangers

- Attach to I-beam, angle iron, C-channel, and other overhead steel shapes
- Close and rigid style hangers available for low headroom
- Adjustable-height hangers provide easy leveling
- Swepy braking for hanger drops >24" for added safety and stability

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(800) 998-0872 • irtools.com/lifting
Zimmerman Series Rail Systems

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- Clean, maintenance-free operation — No lubrication required

Zimmerman Series Rail Systems

Components:

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- Deflection — Ingersoll Rand rail is designed to not exceed 1/450 of span, in accordance with ANSI B30.11 monorail and monorail cranes
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Strongback profiles

- Reinforced profiles for added strength
- Uses the same hardware as standard profiles
- Increases span capacity

Vertical Height

- Increases span capacity
- Supports the load bearing structure

Maximum Length

- Determines the maximum horizontal distance the trolley can travel
- Affects the clearance required for installation

Part No.

- Unique identifier for each profile
- Ensures correct selection and compatibility

Weight per Foot

- Specifies the weight of a single linear foot of rail
- Influences the choice of end supports and suspension system

Load ratings

- The maximum weight a rail or rail system can safely support
- Determines the capacity of the load-bearing system

Deflection

- The degree to which a rail or rail system deflects under load
-直接影响s the design and strength of the support system

Safety factors

- The ratio of the load-carrying capacity to the expected maximum load
- Provides additional safety margin against failure

End stops

- Prevents the trolley from exceeding the designed travel limits
- Ensures secure and safe operation

Articulating end trucks

- Allow the trolley to pivot and change direction
- Facilitate maneuvering in tight spaces
- Improve flexibility and efficiency

Advanced trolley design

Ingersoll Rand trolleys are designed to work in conjunction with the enclosed track rail to reduce the rolling effort required to move a load. In fact, only a force equal to 1 percent of the total rolling weight is needed when moving loads.

- Lightweight — Trolleys are made from high-strength, lightweight aluminum castings
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- Versatile — Ingersoll Rand-built trolleys are available for use in virtually every manufacturer’s enclosed track rail system

Zimmerman Series Rail Systems

Lightweight aluminum profiles

- ZRAT
- ZRA1
- ZRA2

Rugged steel profiles

- ZRS2
- ZRS3

Clean stainless steel

- ZRSS

Strongback profiles

- ZRAT
- ZRA1
- ZRA2

Part No.

- ZRAT
- ZRA1
- ZRA2

Weight per Foot

- ZRAT
- ZRA1
- ZRA2

Vertical Height

- ZRAT
- ZRA1
- ZRA2

Maximum Length

- ZRAT
- ZRA1
- ZRA2

Part No.

- ZRS2
- ZRS3

Weight per Foot

- ZRS2
- ZRS3

Vertical Height

- ZRS2
- ZRS3

Maximum Length

- ZRS2
- ZRS3

Part No.

- ZRSS

Weight per Foot

- ZRSS

Vertical Height

- ZRSS

Maximum Length

- ZRSS

Part No.

- ZRAT
- ZRA1
- ZRA2

Weight per Foot

- ZRAT
- ZRA1
- ZRA2

Vertical Height

- ZRAT
- ZRA1
- ZRA2

Maximum Length

- ZRAT
- ZRA1
- ZRA2
Zimmerman Series Rail Systems

Accessories:

Power supply
- Air supply kits:
  - Available in both 3/8” and 1/2” to fit application needs
  - Includes filter regulator to ensure clean regulated air supply
  - Provides complete utilisation of the bridge and runway system
- Electrical supply kits:
  - Available with or without flat conductor cable
  - Secured to rail system eliminating interference with operator

Additional accessories:

Assorted load trolleys
- Provide simple inspection of trolleys and end trucks
- Also available:
  - Dual bridge kits for carriage applications
  - Bridge extensions for reaching inside machines

Beam Hanger Kit • ZRAT/Parallel/Wide Flange/Part No. 30291

NOTE:
SEE INSTALLATION MANUAL FOR EXPLODED VIEW.

WIDE FLANGE HANGER KIT WILL ACCOMMODATE FROM 5” (127.0 mm) TO 10” (254.0 mm) FLANGE WIDTH.

ULTIMATE STRENGTH ......................................... 22,400 LBS. (10160.47 KG)
YIELD STRENGTH ......................................... 14,000 LBS. (6350.3 KG)
CAPACITY ........................................................ 2,000 LBS. (907.18 KG)
MINIMUM RAIL RADIUS ............................. 36” (914.4 mm)
WEIGHT OF ASSEMBLY .............................. 16 LBS. (7.25 KG)

ZRAM T RAIL (31000) REF.

2.56” 65.0 mm
2.00” 50.8 mm
11.75” 298.3 mm
4.45” 112.9 mm
12.28” 311.9 mm

Bill of Materials

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Amt.</th>
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<tr>
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<td>30285</td>
<td>Hanger Kit, ZRAT, Block, Perpendicular</td>
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<td>5</td>
<td>30187</td>
<td>Hanger Kit, Wide Flange Beam</td>
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</table>

Additional resources:

The Assembly Configuration Engine (ACE)
ACE is extremely flexible, enabling you to quote projects in a variety of ways. You can use ACE as a simple, guided selling tool to automatically configure systems based on relatively few inputs, or you can put it to use as a fully customised system with multiple options that you pick and choose.

Quoting with the tool is simply a matter of selecting the type of rail system(s) needed, entering customer requirements, choosing accessories and parts, then importing customer information for the proposal.

It’s as easy as:
1. Select
2. Configure
3. Quote

Available to authorised Ingersoll Rand distributors at: irtools.com/ACE

Rail Systems technical reference

- Detailed specifications
- Load charts
- Dimensional info
Available at: irtechpubs.com
(Doc. #16598542)

Drawings and CAD files available on the Web

- 2D drawings
- 3D solid models
- Great for plant layouts
Available at: irtools.com/lifting
Zimmerman Series Rail Systems

Accessories:

**Power supply**

- **Air supply kits:**
  - Available in both 3/8" and 1/2" to fit application needs
  - Includes filter regulator to ensure clean regulated air supply
  - Provides complete utilisation of the bridge and runway system

- **Electrical supply kits:**
  - Available with or without flat conductor cable
  - Secured to rail system eliminating interference with operator

**Additional accessories:**

- **Assorted load trolleys**
- **Bumper trolley**
- **Adjustable stop**
  - Safely separate multiple bridge cranes
  - Easily adjust travel limit of bridge crane or load trolley

- **Inspection gates**
  - Provide simple inspection of trolleys and end trucks

- **In-1/8" electrification**
  - Clean electrification for long runs

- **Festooning trolleys**
  - Strap style
  - Stamped
  - Flat cable slider

- **Hoist trolley**
- **Balance suspension**

**Also available:**

- **Dual bridge kits for carriage applications**
- **Bridge extensions for reaching inside machines**

Ingersoll Rand offers a full line of accessories to configure rail systems to your specific application.

---

**Zimmerman Series Rail Systems**

**Additional resources:**

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