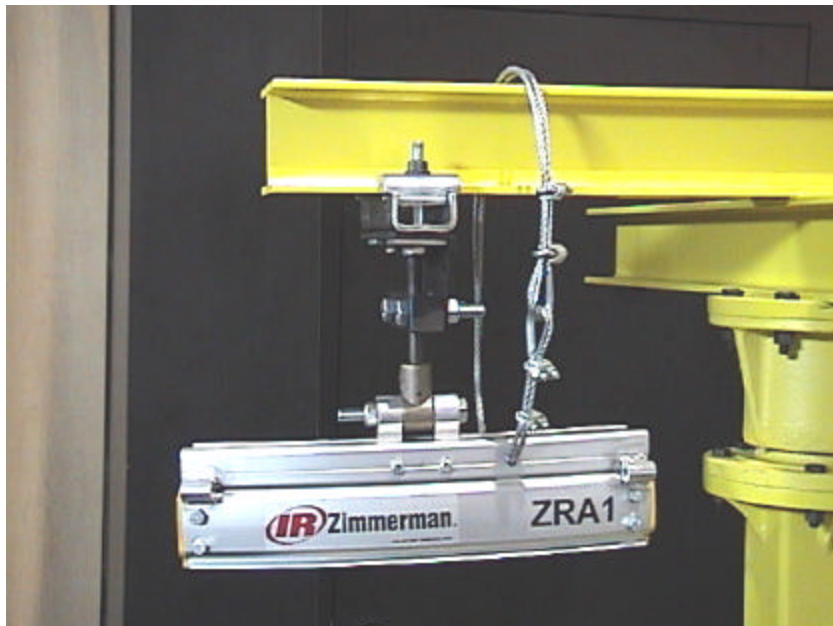




Assembly Solutions

Zimmerman Ergonomic Handling Systems



Aspects of every Application:

- Overhead- Rail, Jib, Floor Support**
- Lifting Machine- Arm, Balancer, Hoist**
- Lifting Device- Clamp, Vacuum, Hook/ Trap**

Applications for **Overhead Rail** systems

- **X - Y travel**

- **Capacity**

- **Rail type**

Product Support Literature:

I-R Zimmerman Product Catalog; Form MHD55226

I-R Zimmerman Price List; Form MHD55222

**(Tech Pub) I-R Z Rail Alum. & Steel Overhead Rail System;
Form MHD56159**

Application Data Sheet- Quote Special Designs

Overhead Rail & Floor Supports

Overhead Rail systems

- **Runways**
- **Bridge(s)**
- **End Trucks**
- **Air Supply**
- **Electrification**
- **Load Trolley/ Lifting Suspension**

Runways



ZRAT: Light Applications

3.8" Profile

Max. capacity 875 lbs.

ZRS2: Heavy Applications

5.91" Profile

Max. capacity 2850 lbs.

ZRA1: Light Applications

4.9" Profile

Max. capacity 2000 lbs.

ZRA2: Heavy Applications

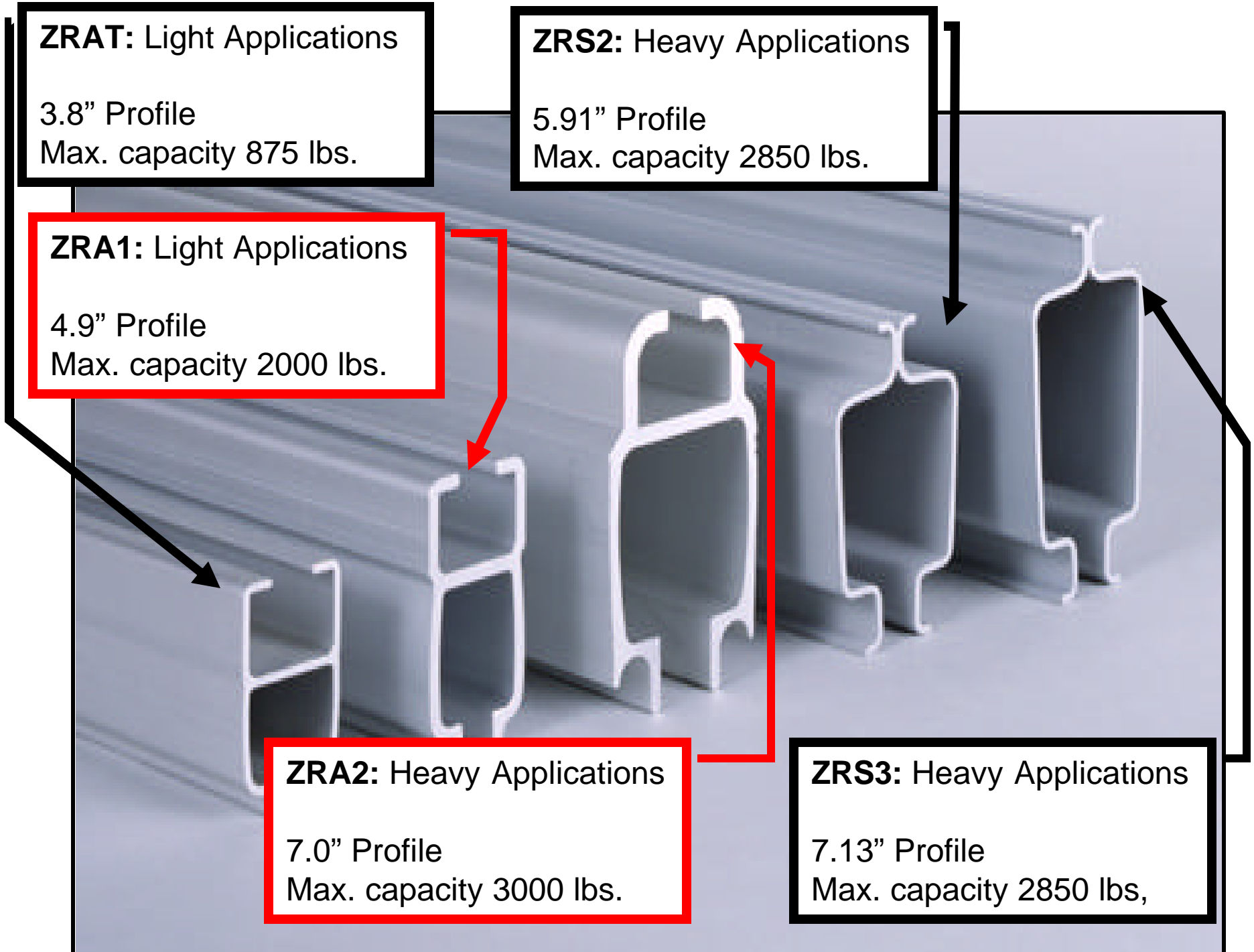
7.0" Profile

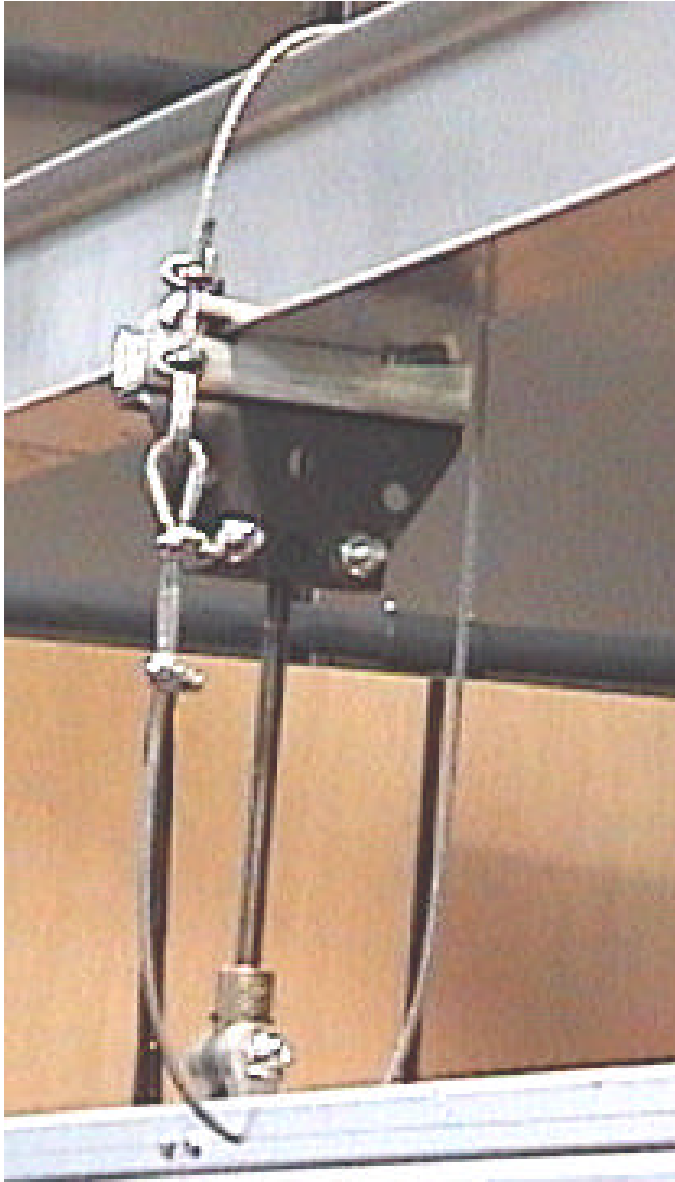
Max. capacity 3000 lbs.

ZRS3: Heavy Applications

7.13" Profile

Max. capacity 2850 lbs,





Hangers: to achieve capacity the runway requires hangers at set intervals.

Refer to the Rail Installation Manual for spacing requirements, page 9-13.

One hanger is required within 1 foot of each end or splice.

One safety cable is required per hanger.

I-R Zimmerman hangers can adapt to:

I-beam up to 10 inch wide flange

C- channel

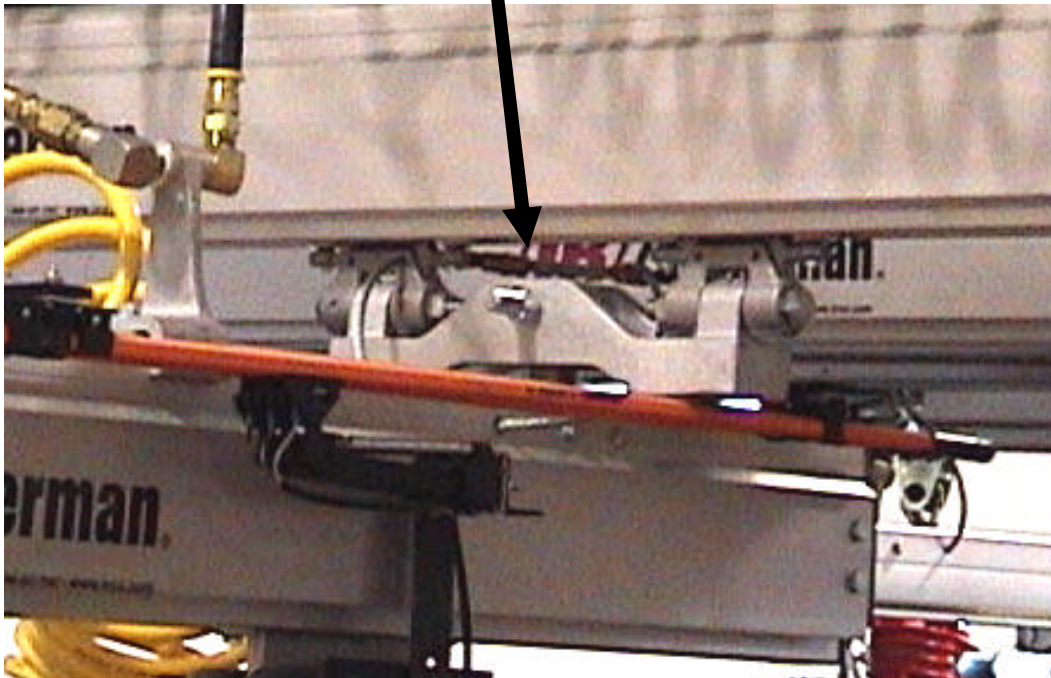
Install perpendicular to or parallel with the support (overhead steel/ floor support)

Bridges

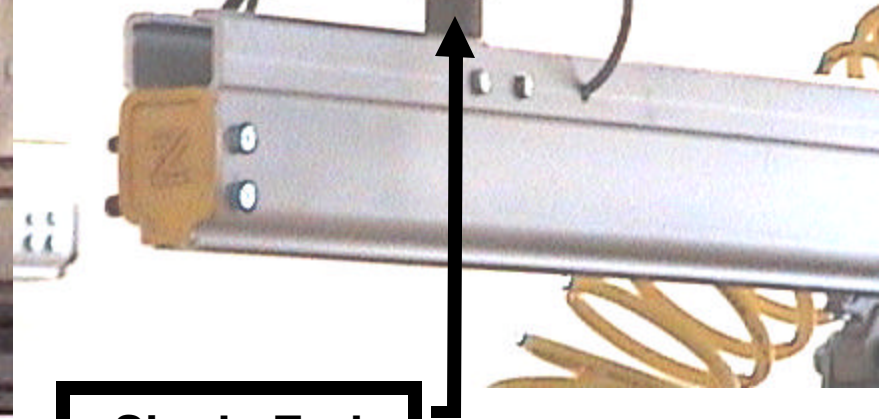


End Trucks

Dual End
Truck
Assembly



Single End
Truck
Assembly



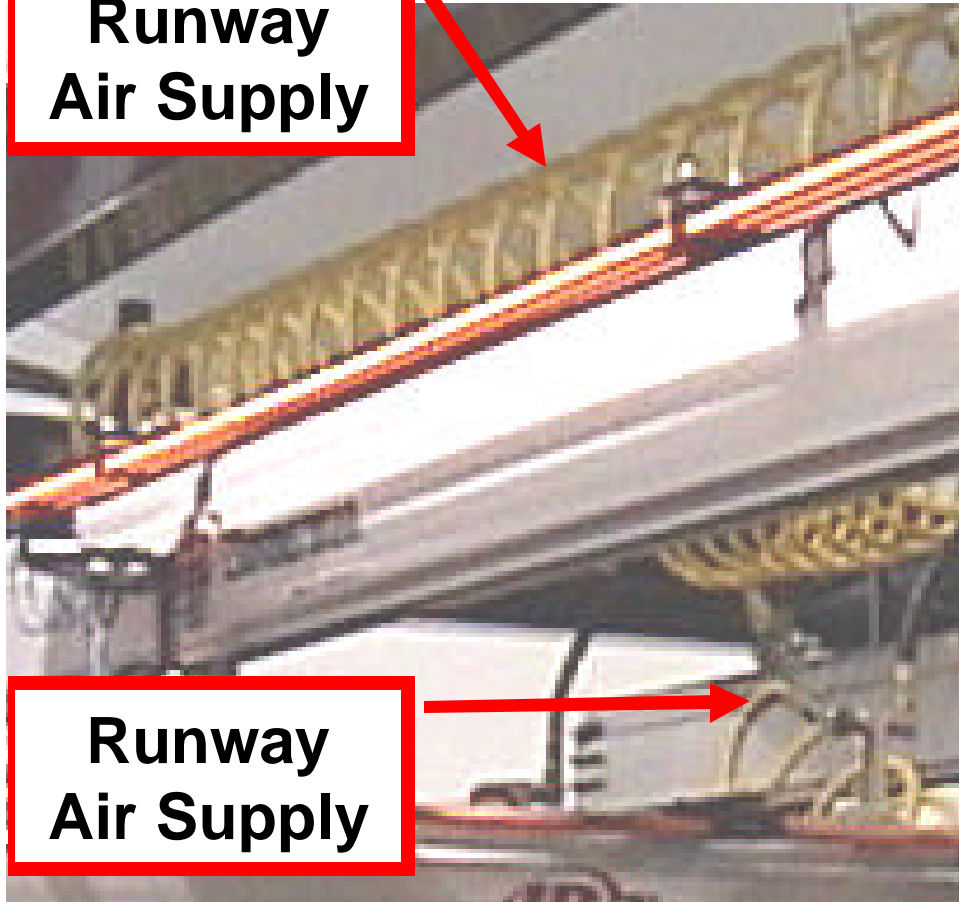
Bridge capacity dictated by span between end trucks

End Truck capacity dictated by end truck type- single/ dual



Air Supply

**Runway
Air Supply**



**Air Supply packages available
in 3/8 and 1/2 inch tube**

**Balancer Applications- 3/8
inch minimum required**

**Hoist Applications- 1/2 inch
minimum required**

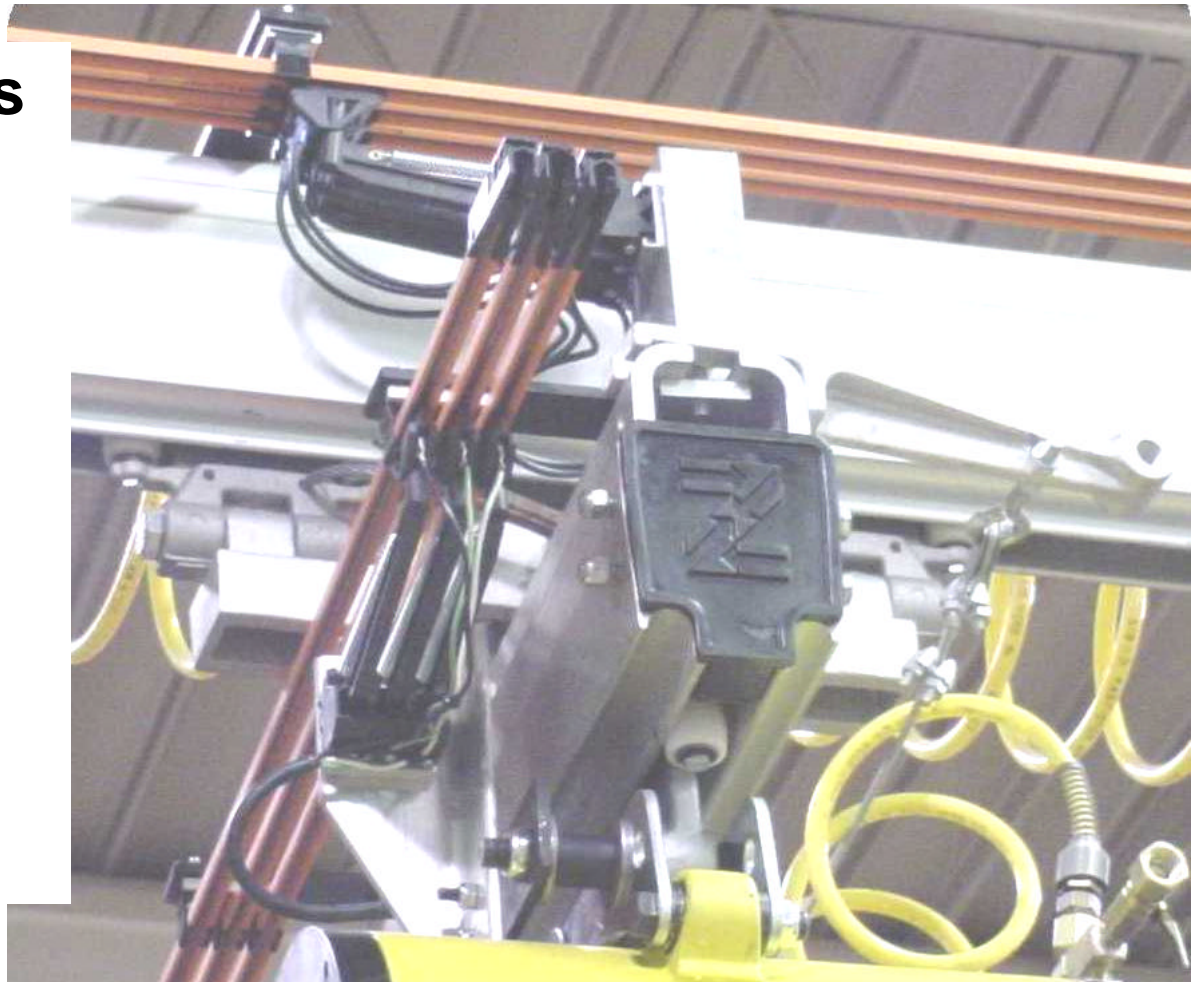
**Runway
Air Supply**

Electrification

**Electrification packages
available from Insul8
and flat wire festoon**

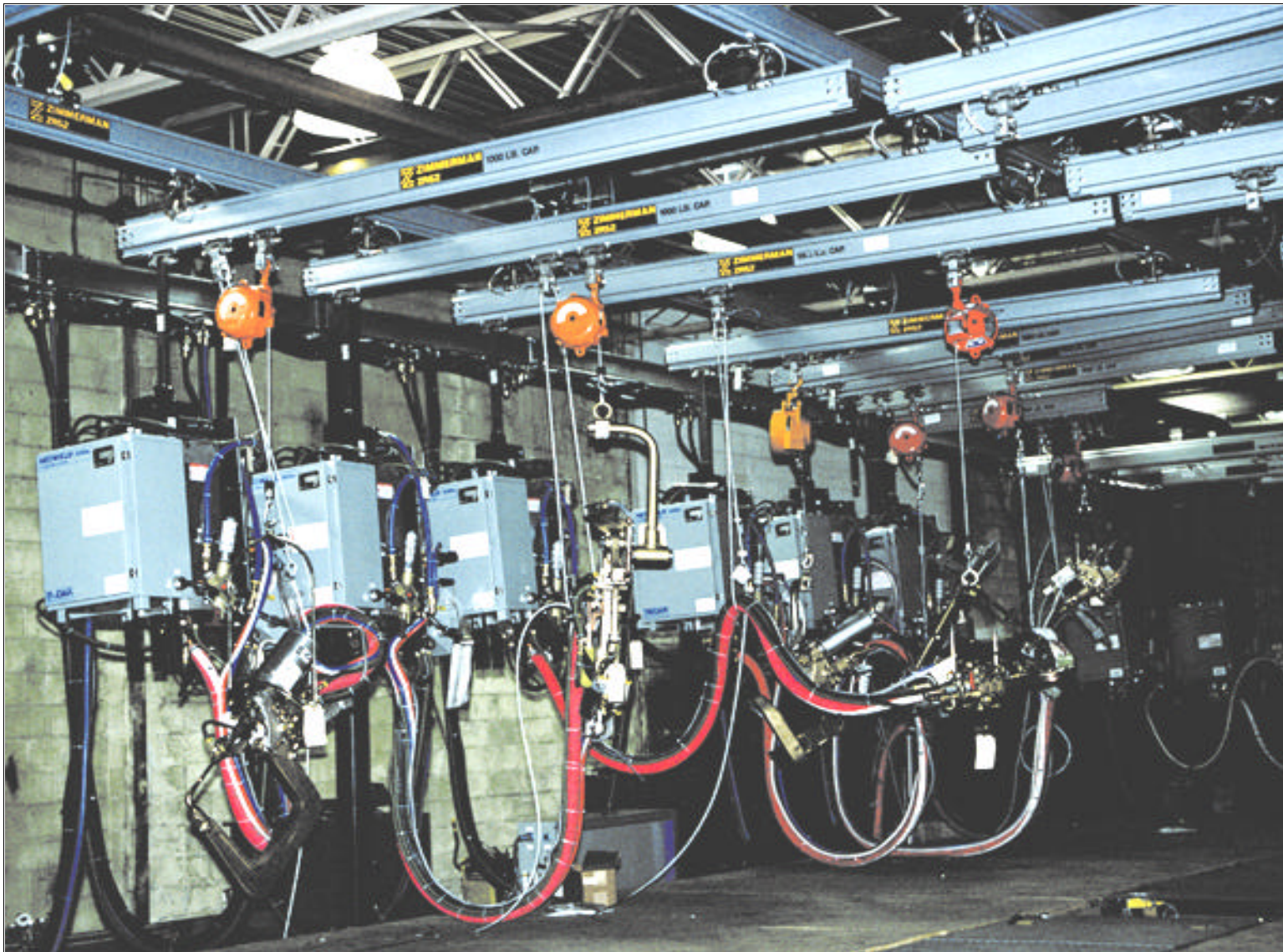
**InteLift Applications-
Insul8 recommended**

**Hoist Applications-
Insul8 recommended**



Rail systems can be: Overhead Supported

The customer must make certain that the overhead structure has sufficient capacity to support the proposed rail system.



Overhead Structure

- **Suitable for application**
- **Perpendicular/ Parallel to Runways**
- **Height of obstructions**
- **Air/ Electric Source**

Rail systems can be: Floor Supported

Ensure proposed floor support will cover entire application area.

Verify no obstructions with in 1 foot of the application area.

Verify over clearance of system (maximum height before hitting roof or obstruction).

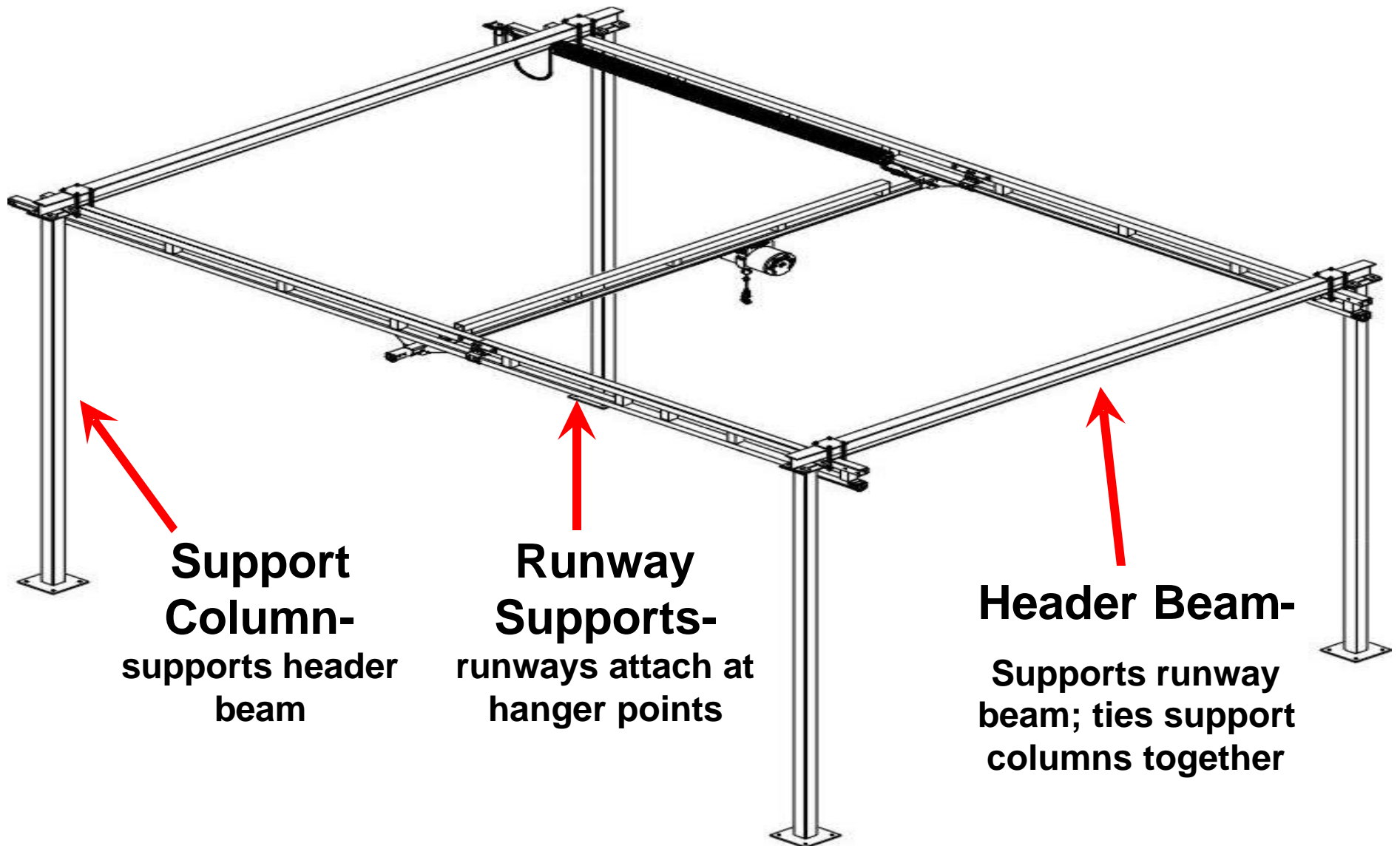


Floor Supports

- Length of work cell
- Width of work cell
- Height of obstructions
- Capacity
- Application Data Sheet for Special Designs

Components of a floor supported system:

Floor supports will have a minimum of 4 columns depending on required capacity and length additional columns may be required.



Applications for **Jib Crane** systems

- **Small application area**
- **Existing interferences**
- **Rail type**

Product Support Literature:

I-R Zimmerman Product Catalog; Form MHD55226

I-R Zimmerman Price List; Form MHD55222

**(Tech Pub) I-R Z Rail Alum. & Steel Overhead Rail System;
Form MHD56159**

Application Data Sheet- Quote Special Designs

Jib Cranes

- Small work cell
- Height of obstructions
- Capacity
- 360 Rotate



Applications for **Lifting Machine** systems

- **Vertical travel**
- **Precise Positioning**
- **Capacity**

Product Support Literature:

I-R Zimmerman Product Catalog; Form MHD55226

I-R Zimmerman Price List; Form MHD55222

**(Tech Pub) I-R Series ZA, EA and BA Air Balancers;
Form MHD56151**

Lifting Machine

Lifting Machine systems

- **Balancer**
- **Hoist**
- **Articulating Arms**
- **Torque Tube/ Arms**

Balancer

- Precise Positioning
- Smooth lifting
- Capacity
- Travel



Hoist

- Higher Capacity
- Long Travel
- Air/ Electric Consumption
- Constant Speed



Articulating Arms

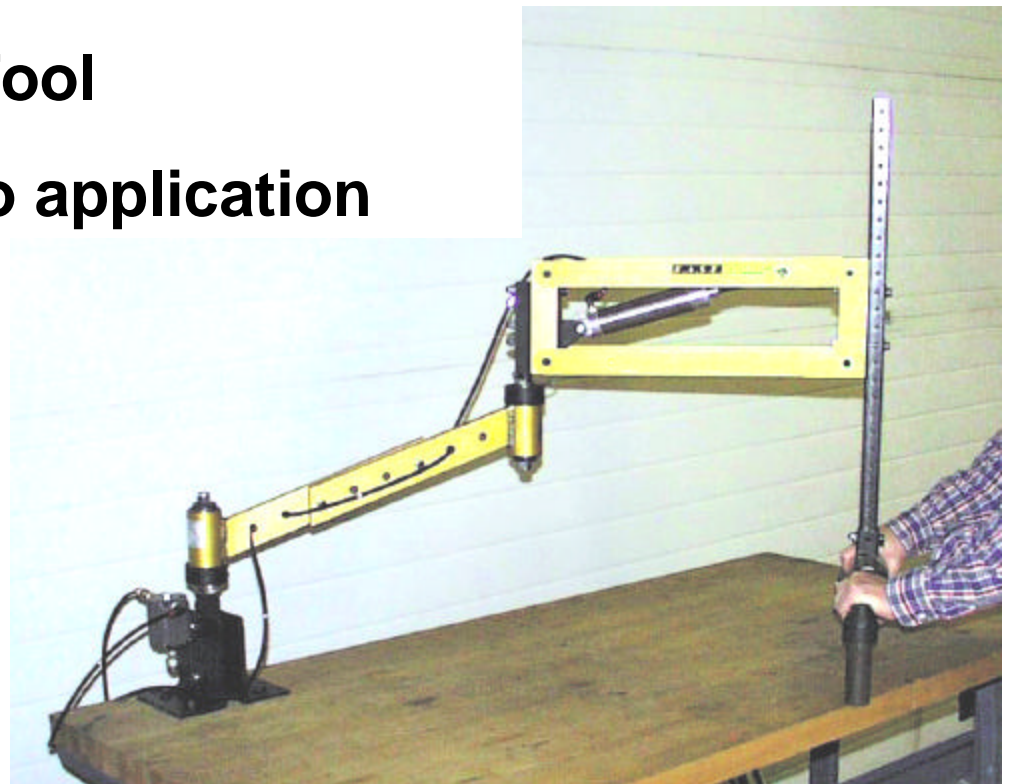
- Extend Reach
- Low head room
- Balancer/ Hoist
- Custom to application



Torque Tubes & Arms



- Rigid Lifting
- Absorb Torque Reaction
- Balance Tool
- Custom to application



Applications for **Lifting Device** systems

- Shapes

- Hand carry

- Bending/ Reaching

- Weight

Product Support Literature:

I-R Zimmerman Product Catalog; Form MHD55226

I-R Zimmerman Price List; Form MHD55222

Application Data Sheet- Quote Special Designs

Video review/ Digital Pictures/ Demo Devices

Lifting Devices

Lifting Devices

- **Clamp**

- **Vacuum**

- **J-Hook/ Trap**

- **Application Data Sheet**

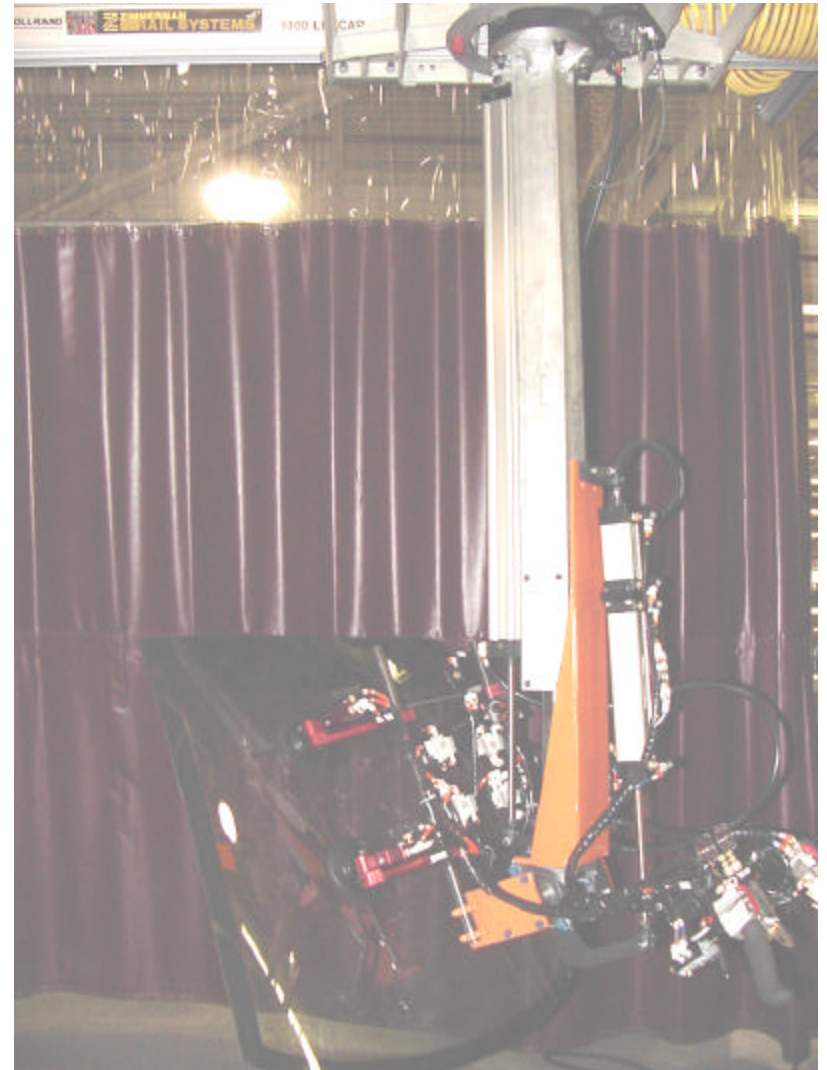
clamping

- Rigid Sides or Top
- Steel/ Aluminum/ Plastic
- Manipulations
- Custom to application



vacuum

- Glass
- Steel/ Aluminum/ Plastic
- Manipulations
- Custom to application



J-Hook/ Trap

- Low cycle time
- Palletizing
- NO Manipulations
- Custom to application



Application Data Forms

- **Provide Basic Required Information for Application**
- **Determines if application is feasible**
- **Customizes Standard Products**