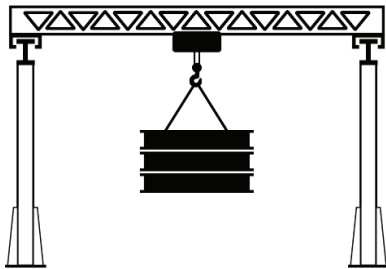




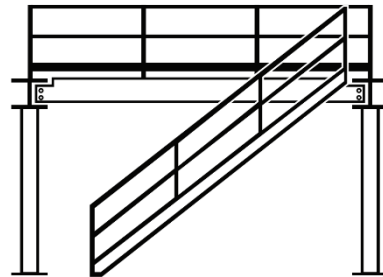
PRODUCT CATALOG

A comprehensive list of PWI products.



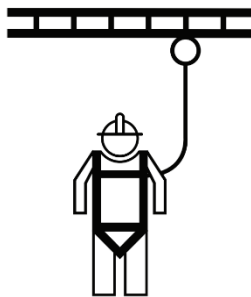
OVERHEAD CRANES

Get more done with less effort.



MEZZANINES

Manufacturing space for a fraction of new construction.



FALL PROTECTION

Work safely and meet compliance.



SMART SOLUTIONS

PWI has a wide variety of solutions to accommodate your manufacturing workflow.

We **MAXIMIZE YOUR PRODUCTION**
by providing overhead cranes, mezzanines, and fall protection.



Welcome Page

Welcome to the PWI Product Catalog!

Step into a realm of superior engineering and innovation with PWI, your foremost destination for high-quality solutions in Nappanee, Indiana. With a steadfast dedication to excellence and customer satisfaction, PWI stands as a beacon of reliability in the industry.

As you explore our catalog, you'll encounter a diverse array of products meticulously crafted to elevate your operations. From robust Overhead Cranes and innovative BTH Devices to versatile Mezzanines and essential Fall Protection equipment, we offer a comprehensive selection to fulfill your needs.

Quality is the cornerstone of our ethos at PWI. Each product undergoes stringent testing and adheres to the strictest standards, ensuring unparalleled performance and longevity.

Whether you're enhancing industrial efficiency, optimizing workspace utilization, or ensuring safety at heights, our catalog has you covered. Dive into our main product categories:

- Overhead Cranes, including advanced BTH Devices for enhanced functionality
- Mezzanines, providing customizable solutions for expanding workspace
- Fall Protection equipment, safeguarding personnel in elevated environments

Count on our team of experts to provide unparalleled support and guidance. Whether you have inquiries or require assistance, we're here to assist you every step of the way.

Thank you for entrusting PWI with your needs. We're excited to embark on this journey with you, delivering exceptional products and service that exceed your expectations.

Welcome to excellence. Welcome to PWI.



PWI Mission Statement

The mission of PWI is to design and deliver smart, fabricated solutions, while maintaining valued relationships with our customers and vendors. Our team recognizes every opportunity as a gift from God, which calls us to work with integrity and to live with open hands throughout our communities.

PWI Core Values

01

SSD: SMART • SOLUTIONS • DELIVERED

We deliver smart solutions to every customer every day.



02

SOU

We have a constant Sense of Urgency, regardless if someone's watching.



03

SELF-EMPLOYED MENTALITY

It's not just a J-O-B, we act like we own the place.



04

INTEGRITY

We do the right thing in every case, regardless of the cost.



05

NO GOSSIP

We pass negatives UP and positives ALL AROUND.



06

TEAM

We care, assume the best, and say the hard things.



07

EXCELLENCE IN THE ORDINARY

We are faithful even in the little things.



08

HUMILITY

It is amazing what we accomplish, when we don't care who gets the credit.



09

GENEROSITY

We live with open hands because every project is a gift from God.



10

ATTITUDE

We are NOT Donkeys, we are Thoroughbreds.



PWI Product Divisions



OVERHEAD CRANES

Get more work done with less effort. We have installed cranes in garages, shops, manufacturing plants, and assembly lines. Cranes are versatile tools that help you get more work done with less effort.



MEZZANINES

Is your building crowded and overflowing? Why spend a year on a construction project when you could have a mezzanine installed in weeks. Oh yeah, it's also a fraction of the cost.



FALL PROTECTION

With a personal fall protection system, your employees will be safe and more productive. Efficiency drops in unsafe environments.



Cranes Index



Cranes

- [Jib Cranes](#)
- [Gantry Cranes](#)
- [Monorail Cranes](#)

Mezzanine

- [Garage Series Shop Crane](#)
- [Ultralite Series Manual Cranes](#)
- [Hyperlite Series Manual Cranes](#)
- [Top Runner Motorized Cranes](#)
- [Top Running Motorized Cranes](#)
- [Under Running Motorized Cranes](#)

Fall Protection

- [Interlocks](#)
- [Custom Crane Solutions](#)
- [End Trucks](#)
- [Panels & Controls](#)
- [Crane Accessories](#)
- [End Stops](#)
- [Columns & Footings](#)
- [BTH](#)

Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions

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Overhead Bridge Cranes

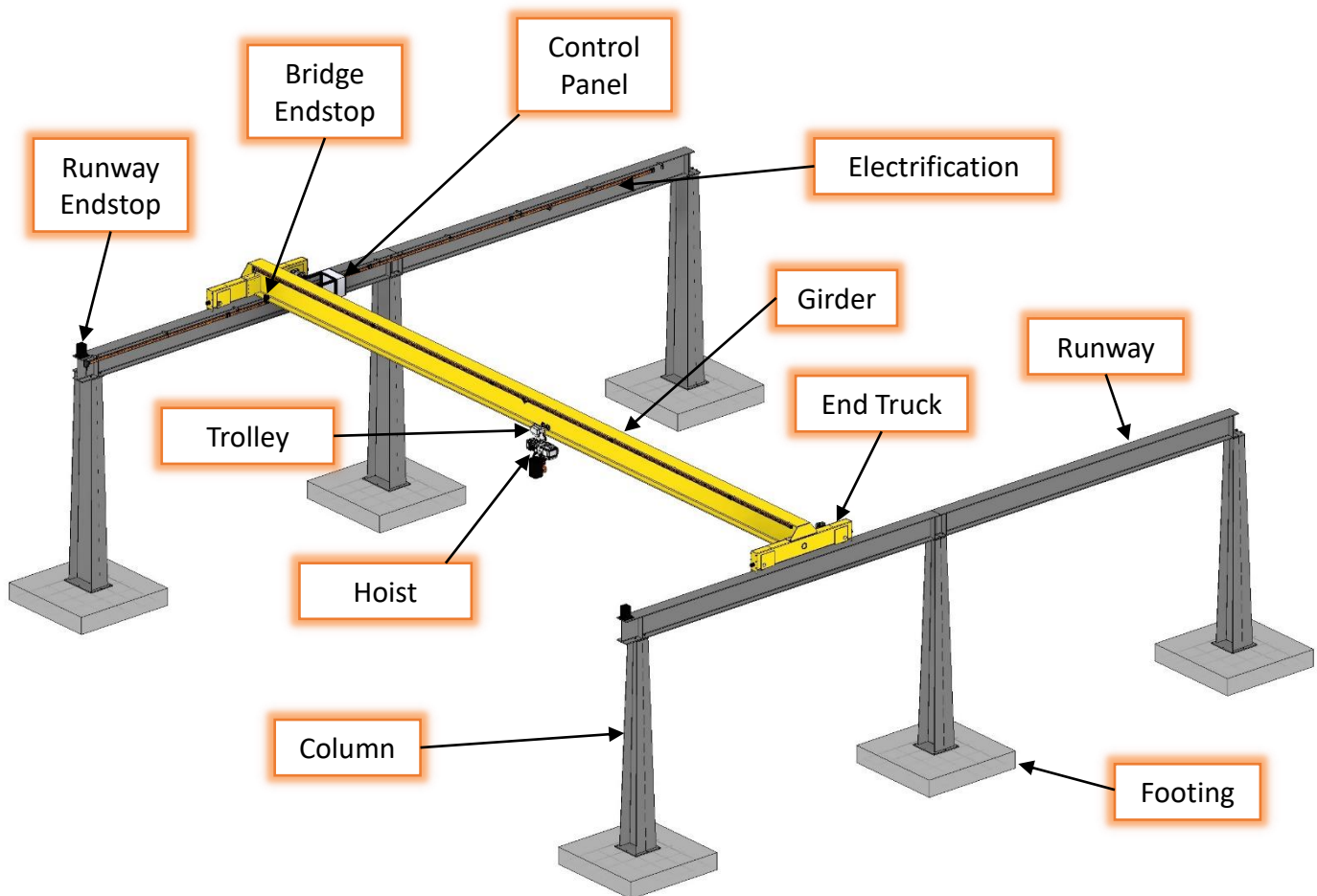


Product Description

Overhead Bridge Cranes are typical for heavy-duty material handling needs. An overhead bridge crane can improve safety while also increasing efficiency. Our team will help you design your crane to meet your manufacturing workflow.

Product Features

- Capacity ratings
- Wireless controls
- Safety options include beacons, buzzers, time delays
- Multiple hoists on one Girder
- Up/down limits
- Collision avoidance



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Jib Cranes

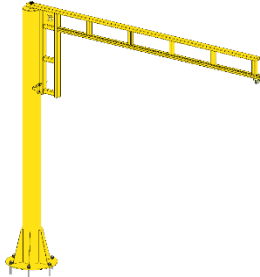


Wall/Column Mounted Free Standing Foundationless Free Standing with Foundation

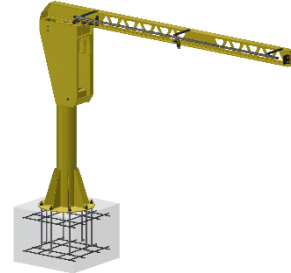
Wall/Column Cantilever



Workstation



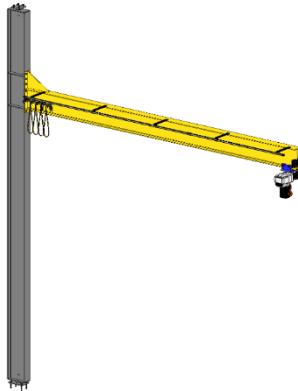
Free Standing Base Plate



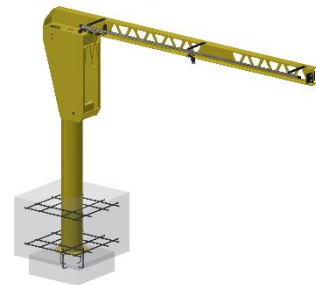
Wall/Column Tie Rod



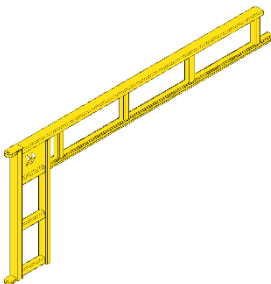
Floor Mast Cantilever



Free Standing Foundation



Workstation Cantilever



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Wall Mounted Cantilever Jib Crane

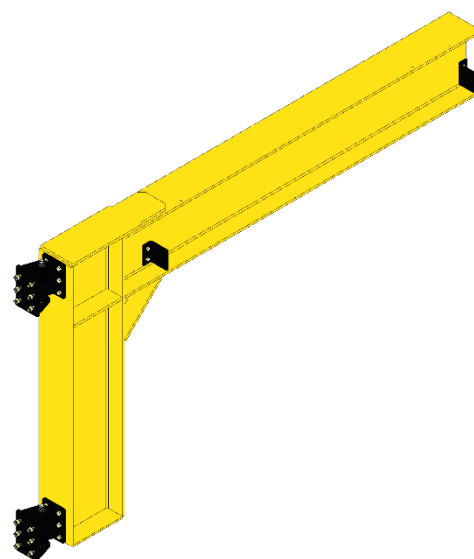
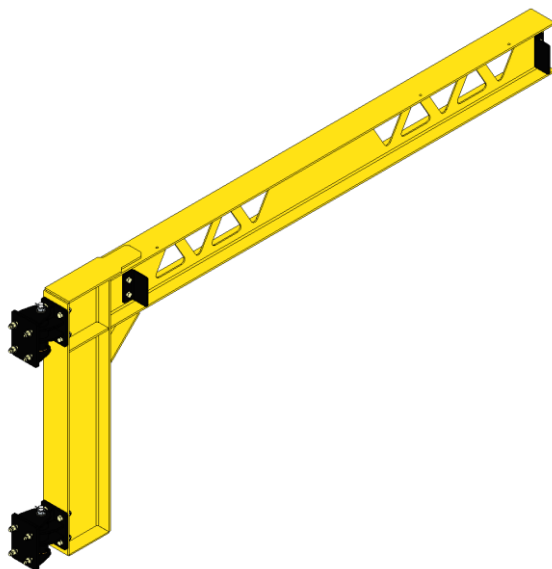
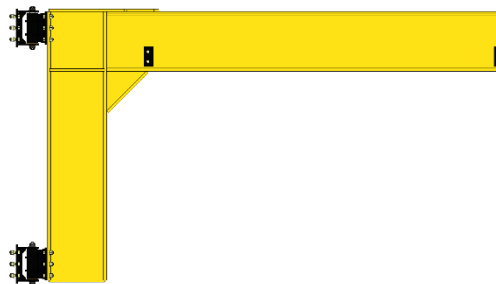
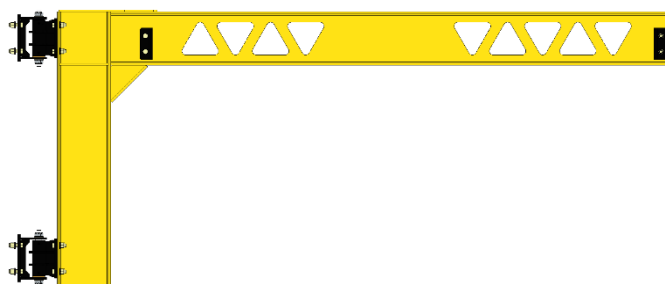


Product Description

- Jib crane with 180° rotation
- Product Code: JBWMC
- [Interactive 3D Viewer](#)

Product Features

- Ultralite and standard W-beam
- Ultralite Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Heavy Duty Capacity: 5 ton
- Span: 8'-20'
- W-beam (trolley travel)



ULTRALITE
SERIES

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Column Mounted Cantilever Jib Crane

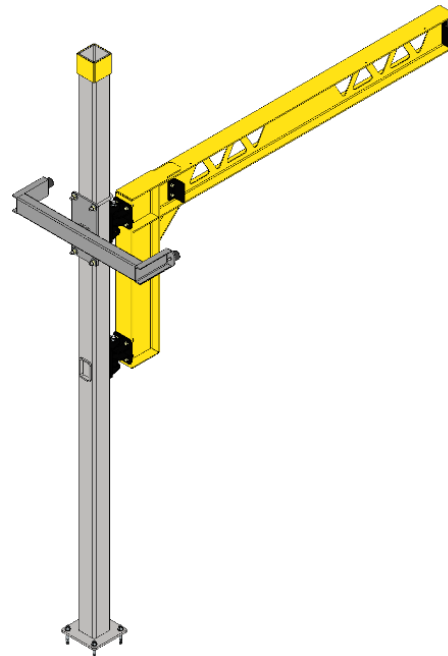
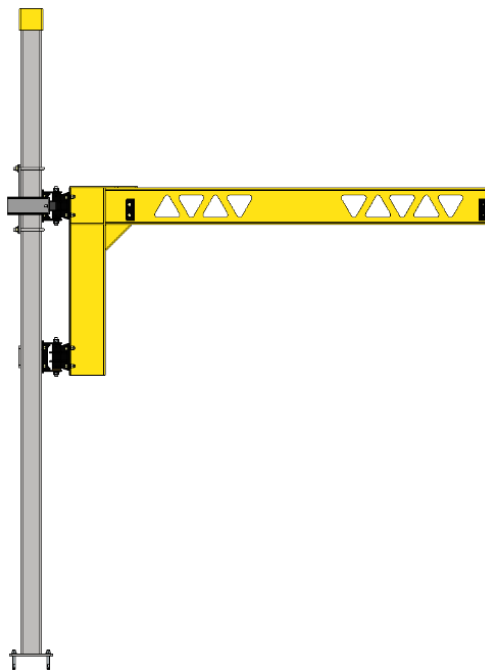


Product Description

- Jib crane with 180° rotation
- Product Code: JBCMC

Product Features

- Ultralite beam configuration
- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Span: 8'-20'
- W-beam (trolley travel)



ULTRALITE
SERIES

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Floor Mast Cantilever Jib Crane

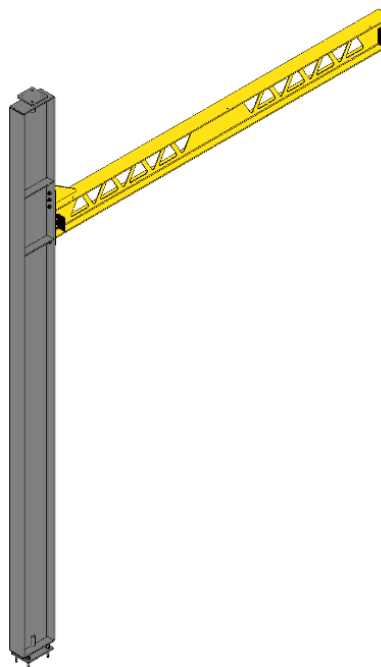
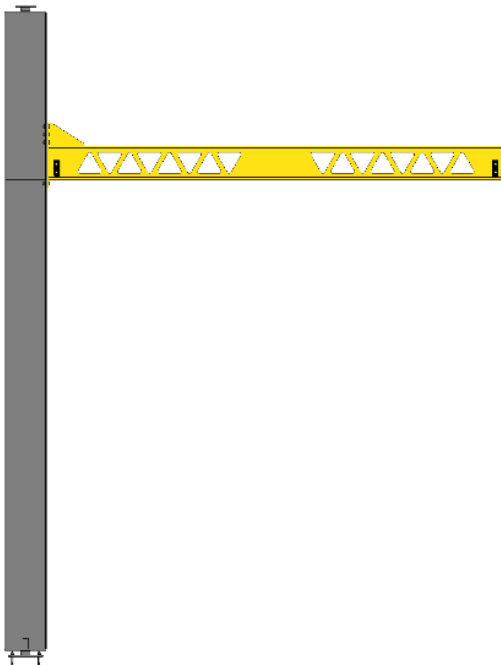


Product Description

- Jib crane with 360° rotation
- Foundationless design
- Product Code: JBFMC

Product Features

- Ultralite beam configuration
- Full cantilever or drop cantilever design
- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Span: 8'-20'
- W-beam (trolley travel)



ULTRALITE
SERIES

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Wall Mounted Tie Rod Jib Crane

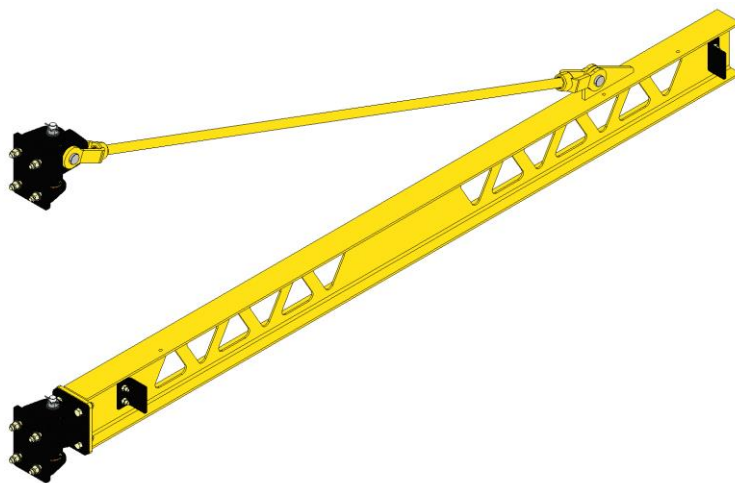
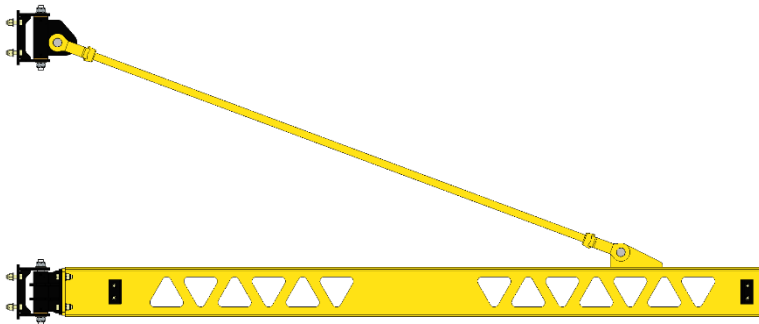


Product Description

- Jib crane with 180° rotation
- Product Code: JBWTR

Product Features

- Ultralite beam configuration
- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Span: 8'-30'
- W-beam (trolley travel)



ULTRALITE
SERIES

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Column Mounted Tie Rod Jib Crane

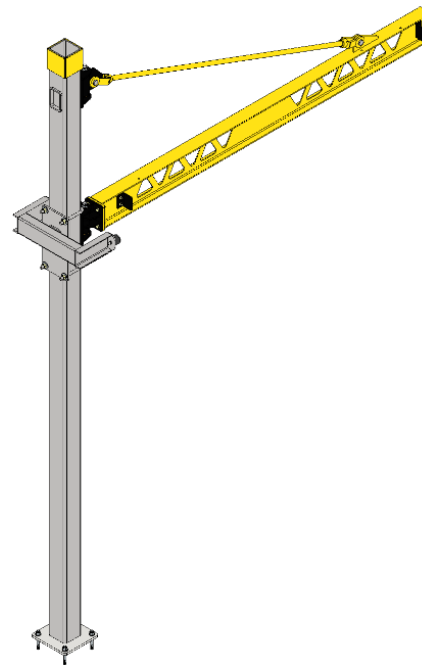
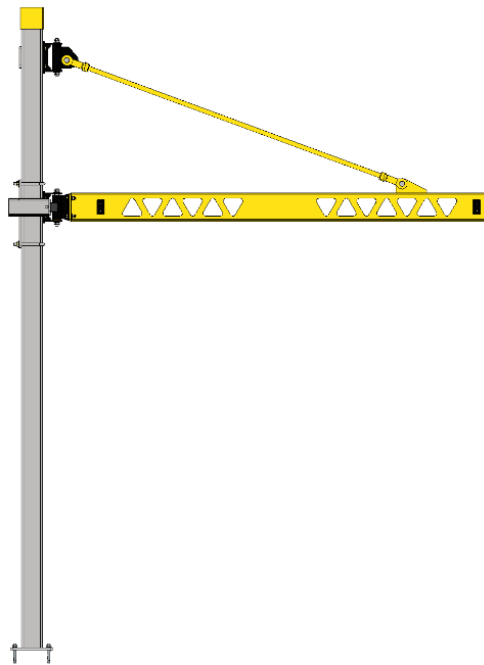


Product Description

- Jib crane with 180° rotation
- Product Code: JBCTR

Product Features

- Ultralite beam configuration
- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Span: 8'-30'
- W-beam (trolley travel)



ULTRALITE
SERIES

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Workstation Cantilever Jib Crane



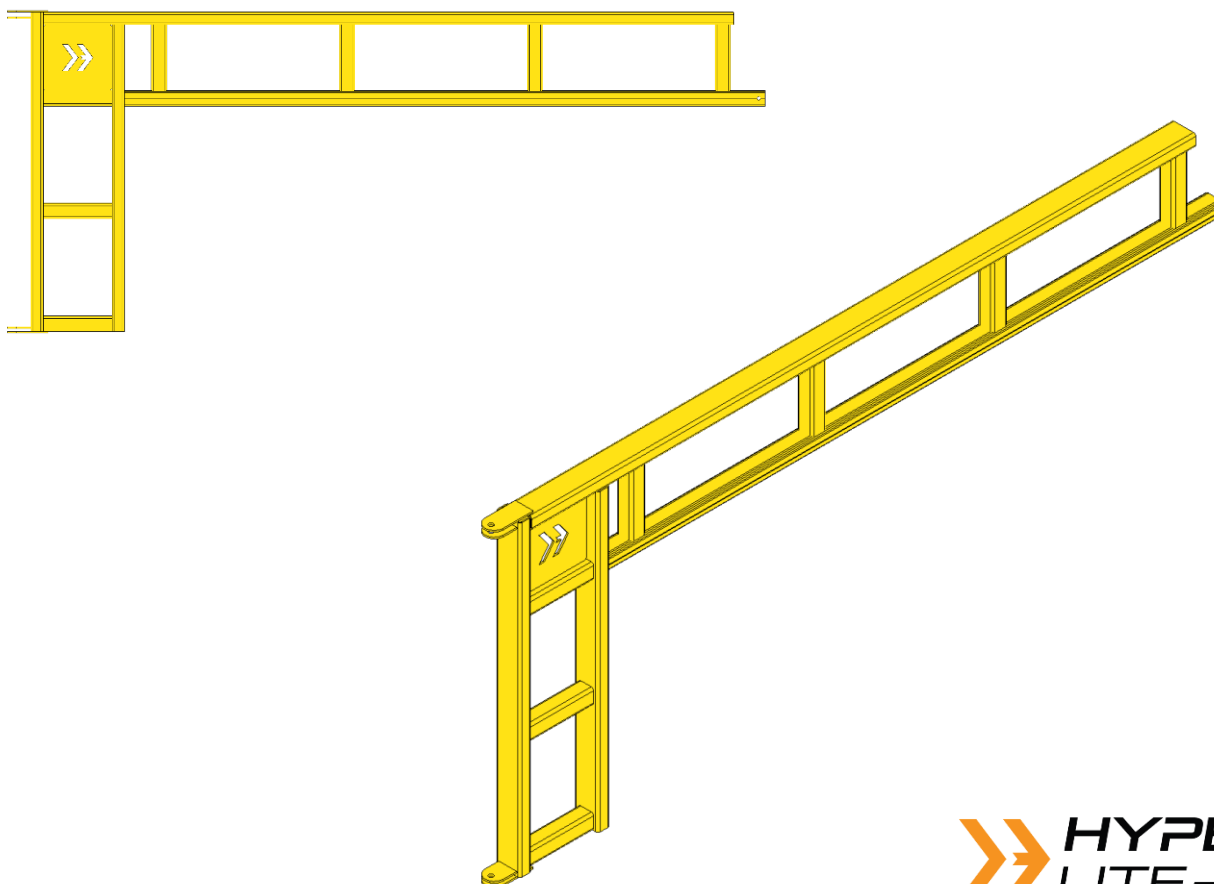
Product Description

- Jib crane with 180° rotation
- Enclosed track design for improved ergonomics
- Product Code: JBWSC

Product Features

- Hyperlite truss configuration
- Capacity: 250 lbs, 500 lbs, 1,000 lbs
- Span: 8'-16'
- Ergonomic 300/400 series enclosed track (trolley travel)

Capacity	Span
250#	8' - 16'
500#	8' - 16'
1,000#	8' - 14'



HYPER
LITE SERIES

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HyperLite Foundationless Jib Crane



Product Description

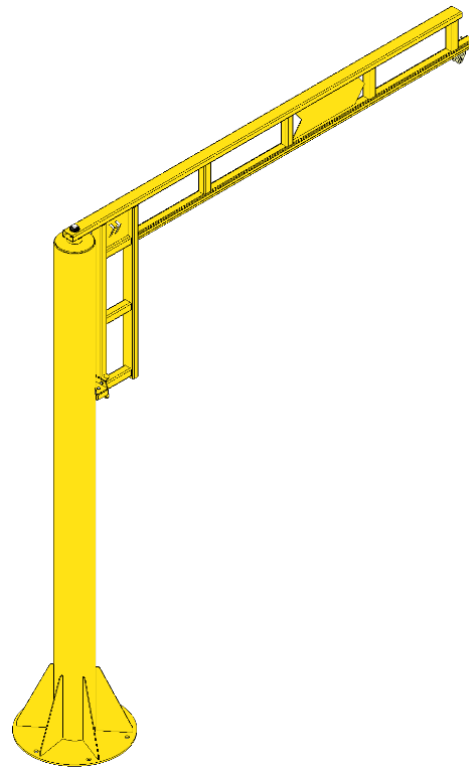
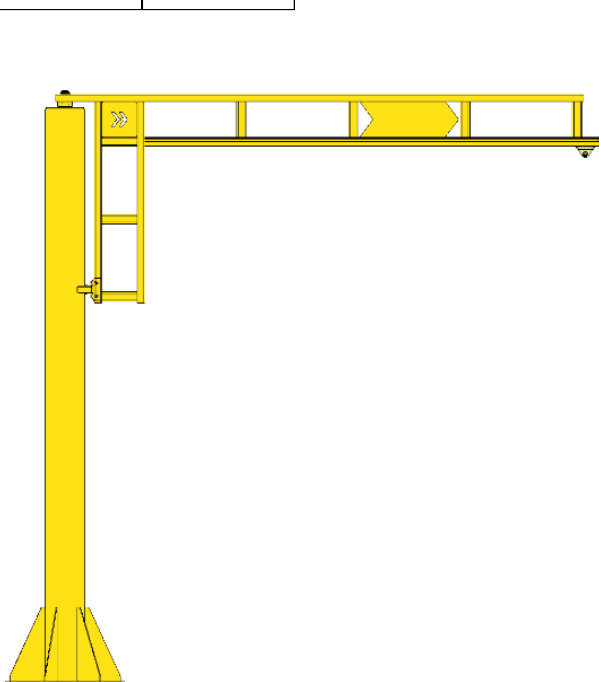
- Jib crane with 360° rotation
- Enclosed track design with improved ergonomics
- Foundationless design
- Product Code:

Product Features

- Hyperlite truss configuration
- Ergonomic 300/400 series enclosed track (trolley travel)
- Pipe column
- Hub height: 8'-12'



Capacity	Span
250#	8' - 16'
500#	8' - 16'
1,000#	8' - 14'



HYPER
LITE SERIES

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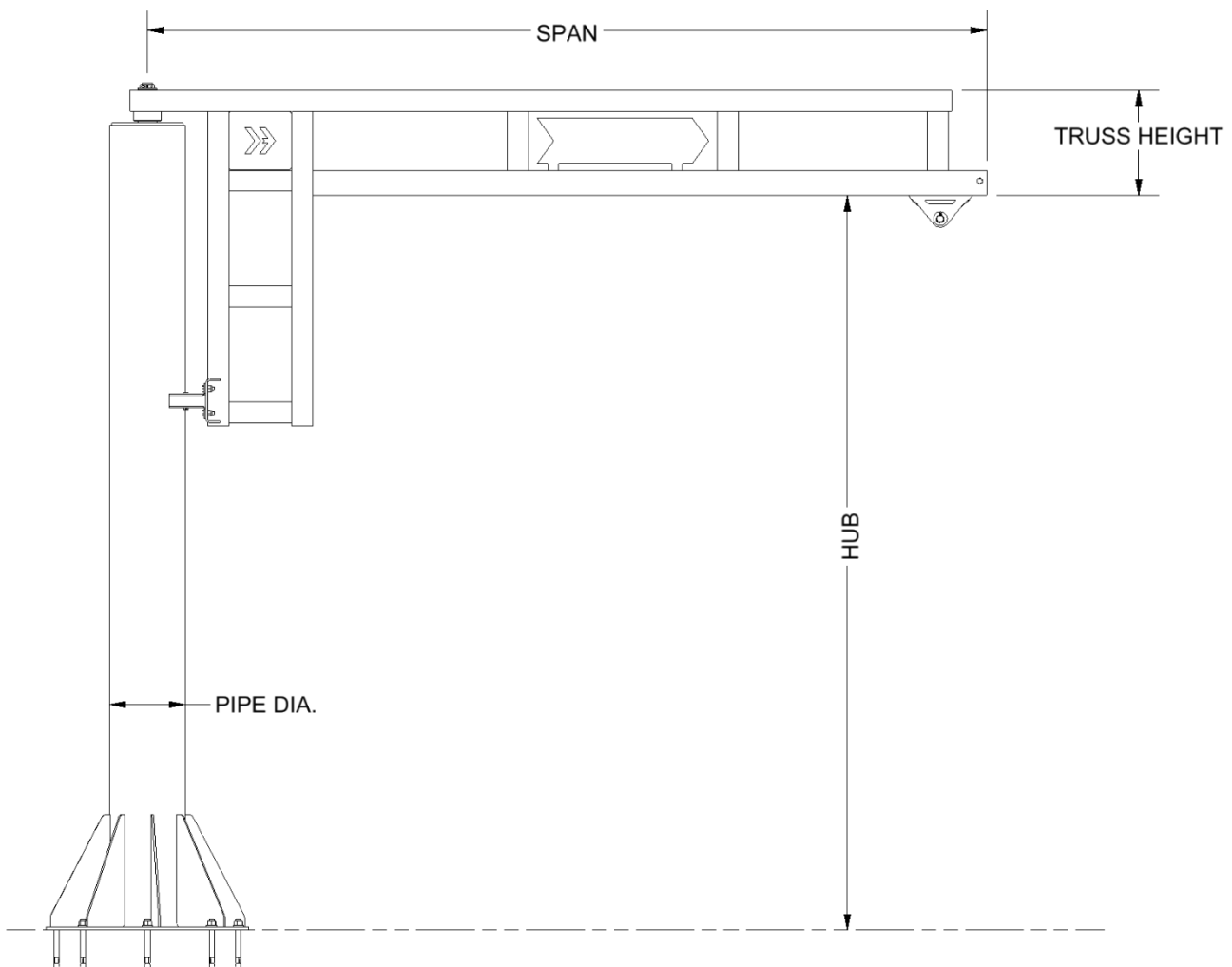


HyperLite Foundationless Jib Crane



Product Description

- HUB: 8'
- Span: 8'
- Truss Height: 14"
- Pipe Diameter: 10.75"



HYPER
LITE SERIES

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Freestanding Base Plate Jib Crane

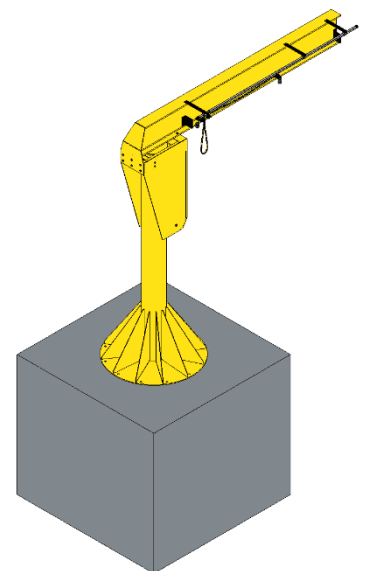
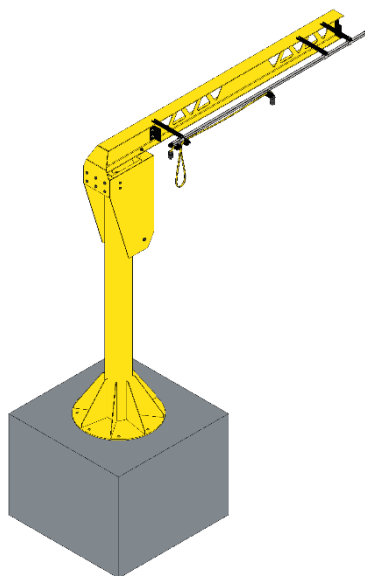
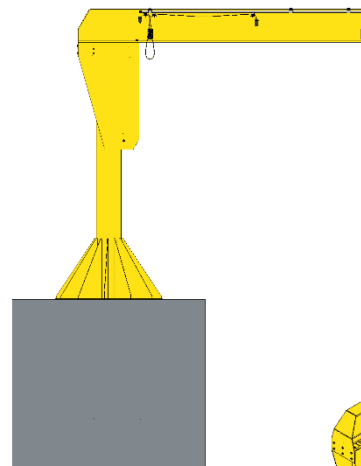
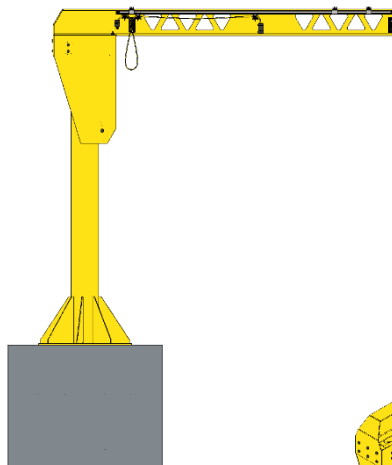


Product Description

- Jib crane with 360° rotation
- Design requires foundation
- Product Code: JBFBSB

Product Features

- Ultralite and standard W-Beam
- Ultralite Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Heavy Duty Capacity: 5 Ton
- Span: 8'-20'
- W-beam (trolley travel)
- Pipe column
- Pipe head weldment
- This design requires one concrete pour
- Includes large diameter base plate with embedded anchor rods



ULTRALITE
SERIES

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Freestanding Foundation Jib Crane

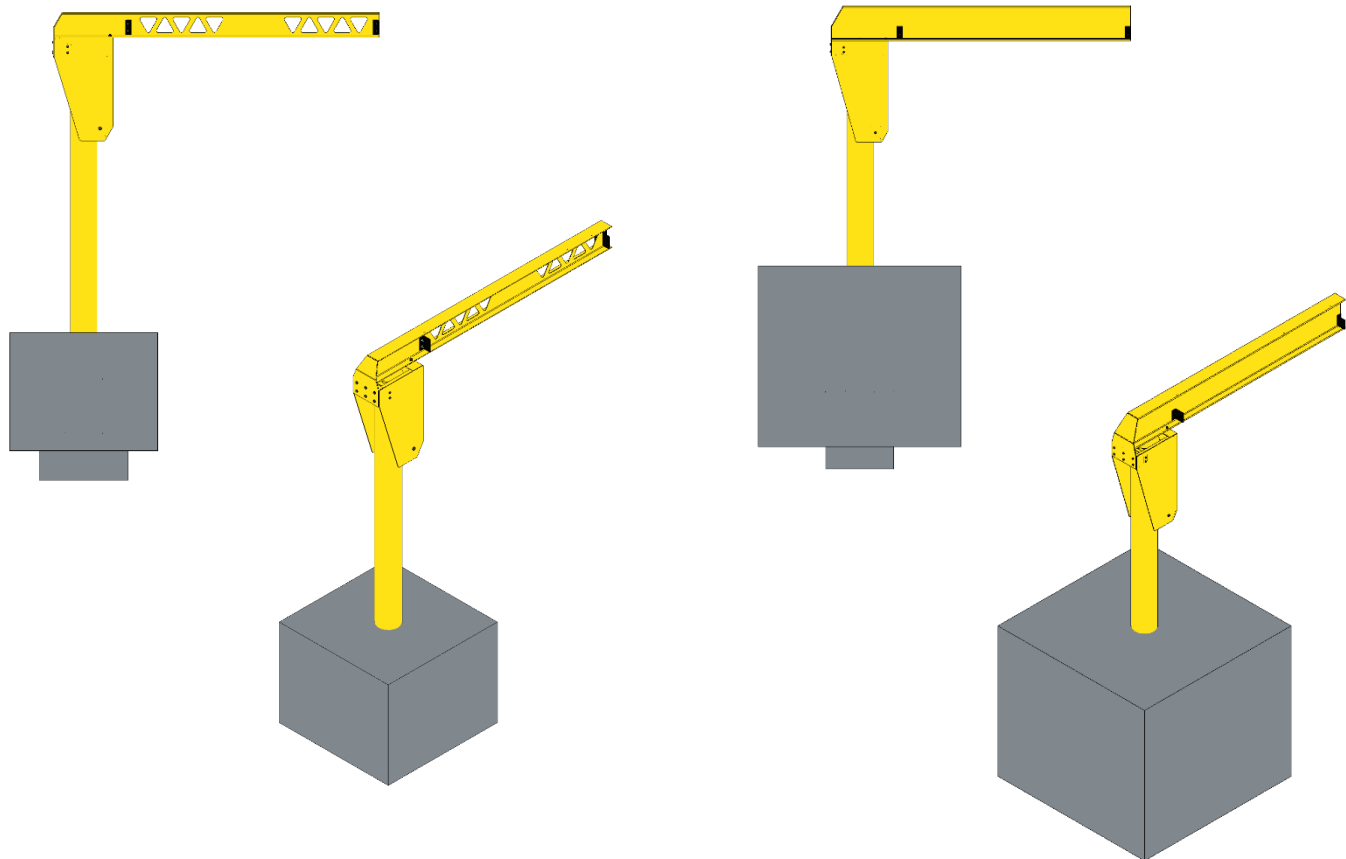


Product Description

- Jib crane with 360° rotation
- Design requires foundation
- Product Code: JBFSF

Product Features

- Ultralite and standard W-Beam
- Ultralite Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Heavy Duty Capacity: 5 Ton
- Span: 8'-20'
- W-beam (trolley travel)
- Pipe column
- Pipe head weldment
- This design requires two concrete pour
- Includes large diameter base plate with embedded anchor rods



ULTRALITE
SERIES

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Manual Gantry Crane

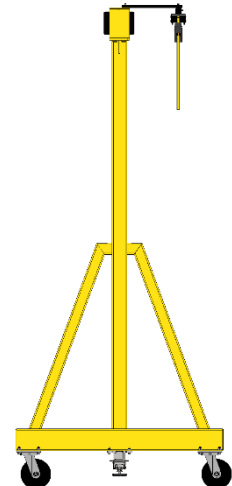
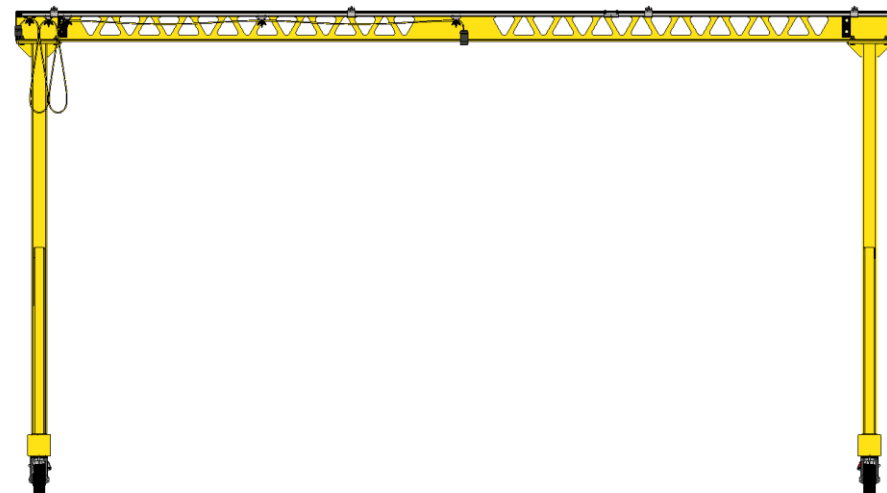
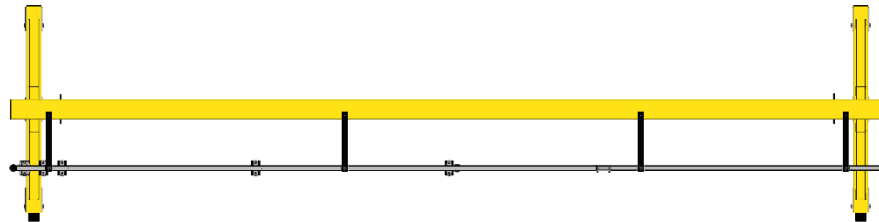
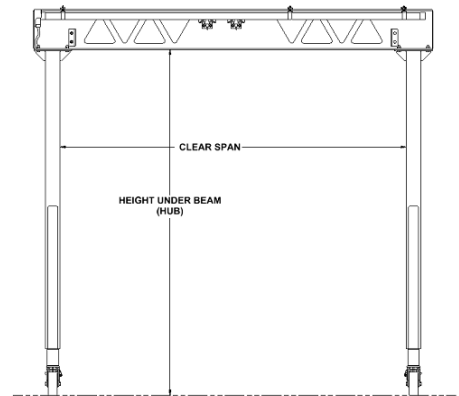


Product Description

- Manual gantry cranes are built with heavy duty casters for mobility.
- The Ultralite series gantry offers an improved ergonomic experience, combining the strength of structural steel construction while reducing the weight of the crane.

Product Features

- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton, 5 Ton
- Clear Span: 10'-30'
- Height Under Beam: 8'-18'
- Caster Options:
 - Poly
 - Poly on Iron
 - Steel
- Includes floor stop to limit caster motion



ULTRALITE
SERIES

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Manual Telescoping Gantry Crane



Product Description

- Manual gantry cranes are built with heavy duty casters for mobility.
- The Ultralite series gantry offers an improved ergonomic experience, combining the strength of structural steel construction while reducing the weight of the crane.
- Adjust HUB in 12" increments

Product Features

- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton, 5 Ton
- Span: 10'-30'
- Height Under Beam (HUB): 8'-12', 12'-16', 14'-18'
- Caster Options:
 - Poly
 - Poly on Iron
 - Steel
- Includes floor stop to limit caster motion



ULTRALITE
SERIES

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Light Duty Motorized Gantry Crane

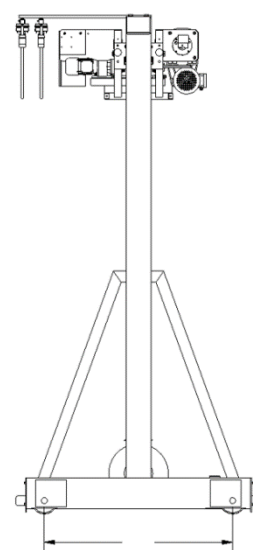
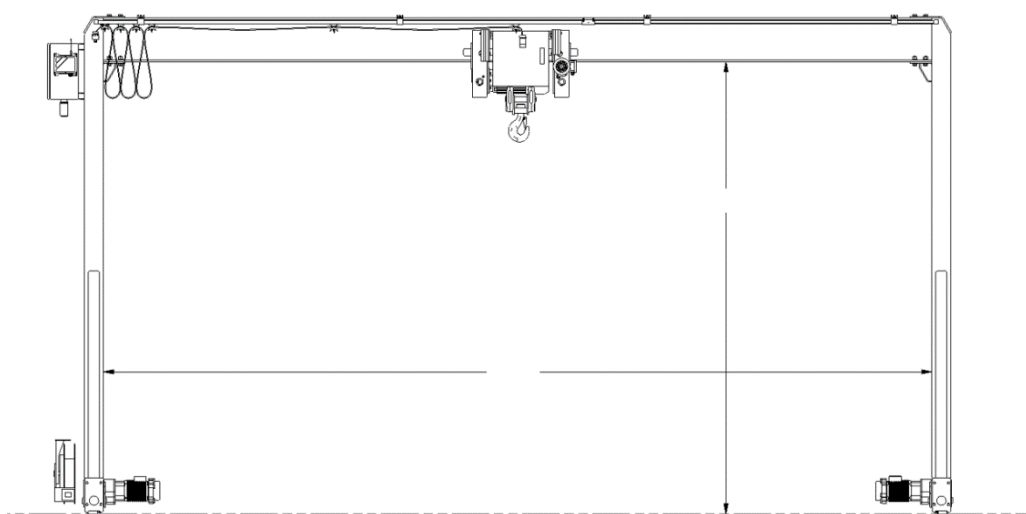
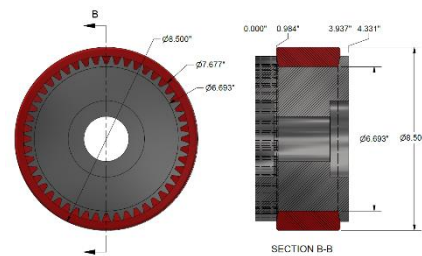
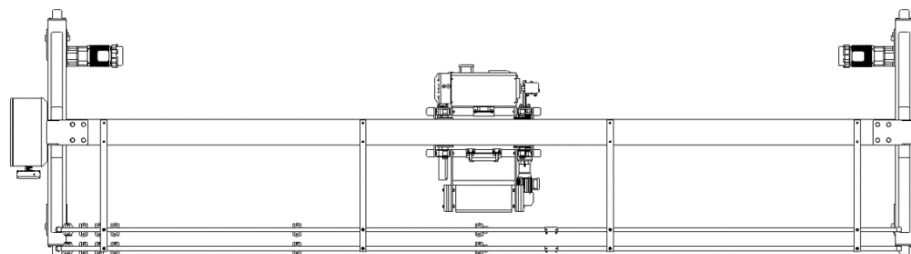


Product Description

- Gantry crane equipped with motorized end trucks and floor track system to quickly and efficiently change workspace locations.

Product Features

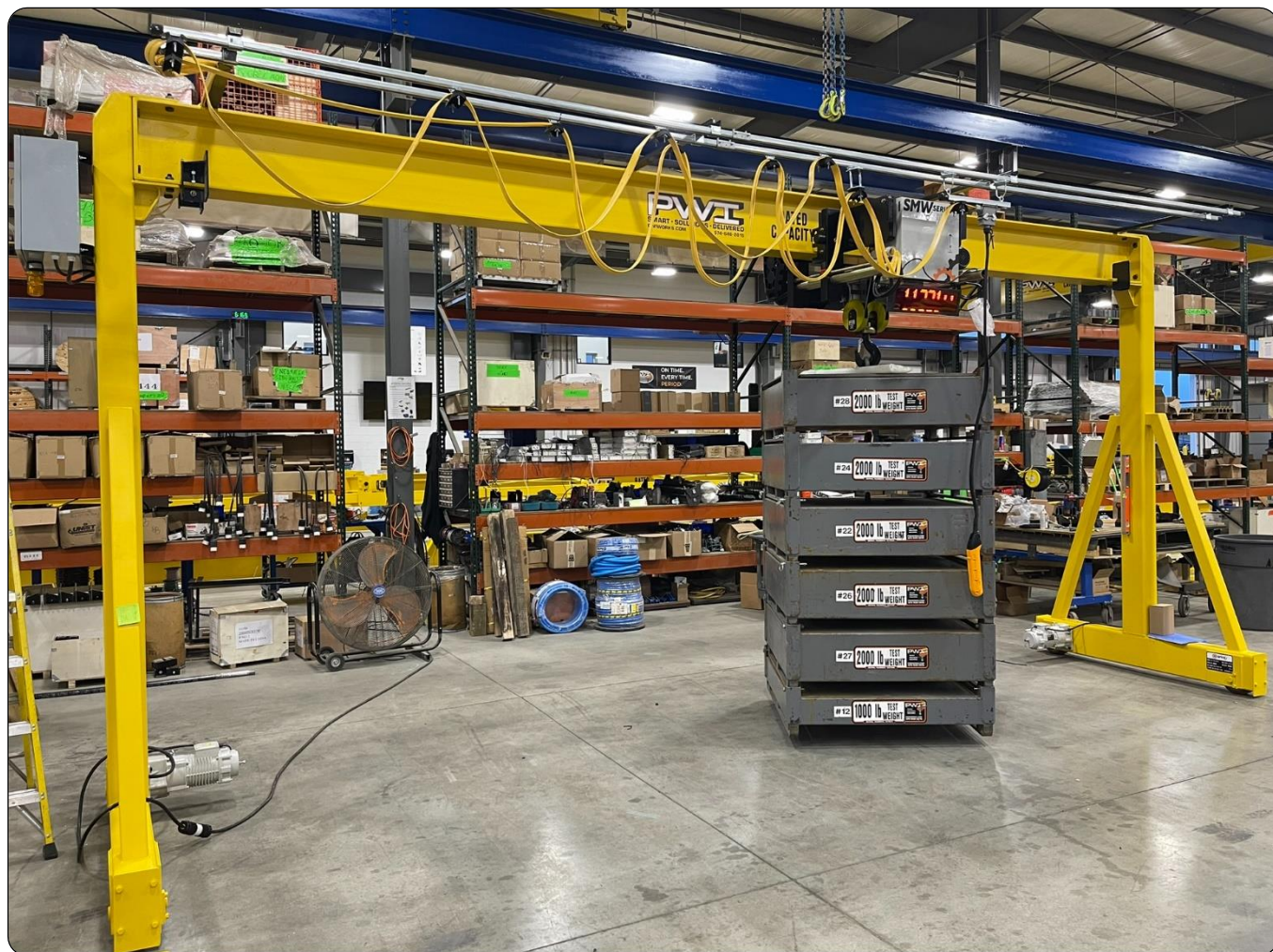
- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton, 5 Ton
- Span: 5'-60'
- HUB Height: 8'-14'
- Tube Columns
- Polyurethane Coating Bonded to Geared Wheels 95A Durometer
- Tracking: Press and hold the button below the E stop to reverse the direction of the drive motor on the opposite side allowing you to correct the tracking direction of the gantry crane.
- Includes cord reel
- Floor Compatibility: Concrete, Floor Track



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Light Duty Motorized Gantry Crane



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Heavy Duty Motorized Gantry Crane

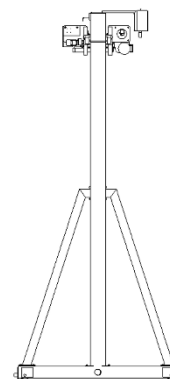
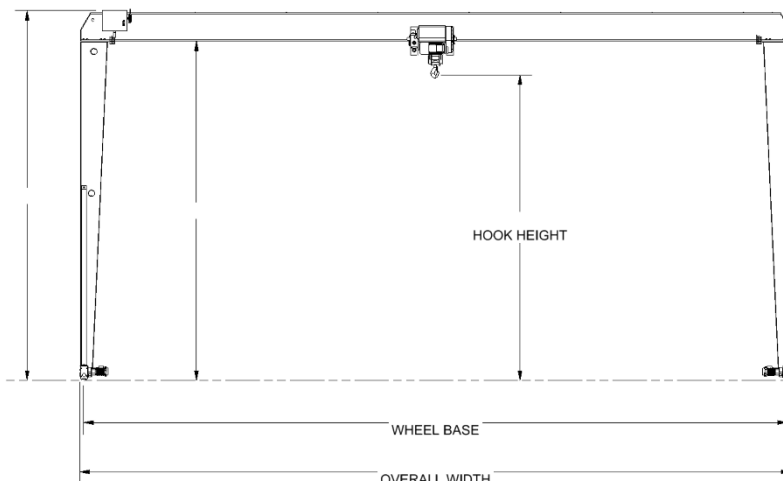
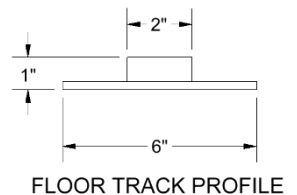
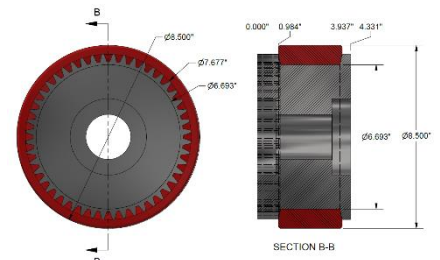
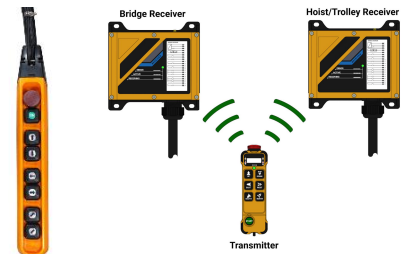
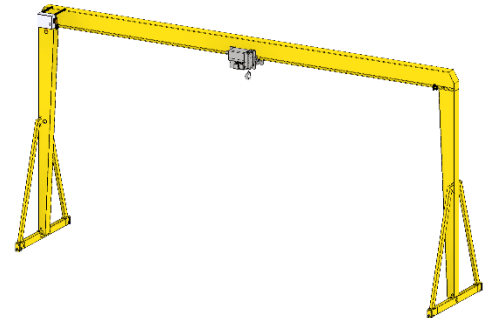


Product Description

- Gantry crane equipped with motorized end trucks and floor track system to quickly and efficiently change workspace locations.

Product Features

- Capacity: 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton, 12.5 Ton, 15 Ton
- Span: 5'-60'
- HUB Height: 10'-30'
- Tapered Box Columns
- Polyurethane Coating Bonded to Geared Wheels 95A Durometer
- Tracking: Press and hold the button below the E stop to reverse the direction of the drive motor on the opposite side allowing you to correct the tracking direction of the gantry crane.
- Includes Cord Reel and Encoder
- Floor Compatibility: Poly on Concrete, Grooved Wheel on Floor Track



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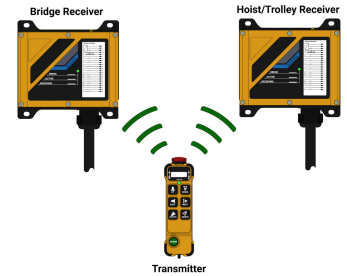


Ceiling Mounted Curved Monorail



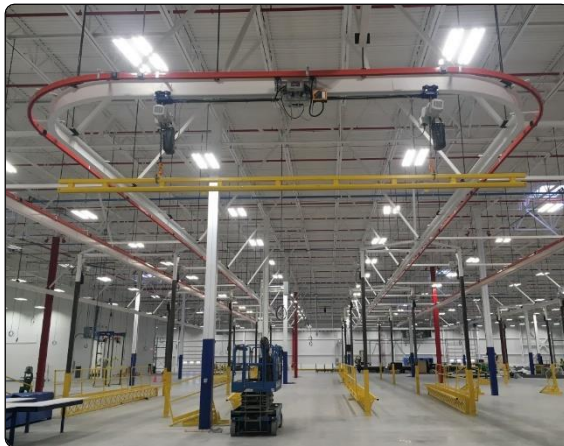
Product Description

- Curved loop monorails provide an efficient workflow in assembly lines or other application where you need parts to return.
- The ceiling mounted option provides the ability to keep the structure out of the workspace below.



Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton
- Monorail wire rope hoist or chain hoists
- Remote Control



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Garage Series Workstation Crane

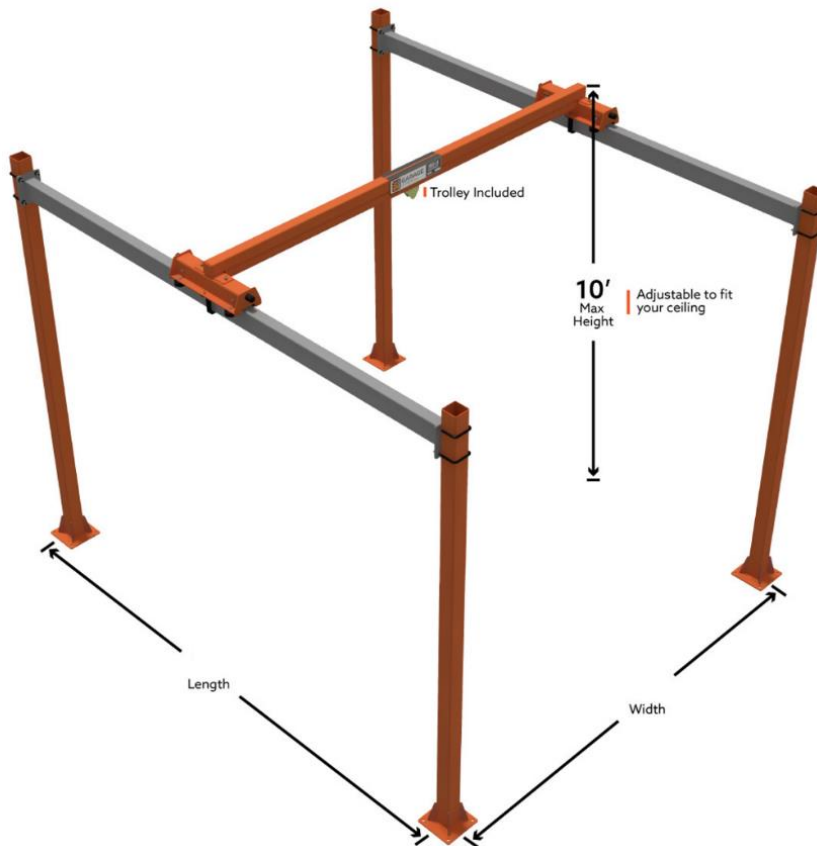


Product Description

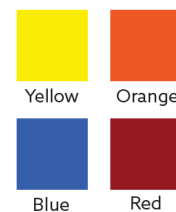
- The garage series crane is PWI's most versatile freestanding crane offering.
- By utilizing bolted connections for the entire assembly, this crane is built with the DIYer in mind.
- Don't let high-capacity name fool you though, the garage series crane can easily adapt to any high-capacity workspace as well. We offer a variety of configurations to meet any work cell size.

Product Features

- Capacity: 1,000 lbs
- Height: 10'
- Configurations (width x length):
 - 8'x12', 8'x16'
 - 10'x12', 10'x16', 10'x20'
 - 12'x16', 12'x20', 12'x24'
 - 16'x20', 16'x24'
- Column are designed with bolted connections to raise or lower as needed for each workspace. Columns are designed to be trimmed to reduce overall height if needed.



Choose Your Color:



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Top Runner Freestanding Ultralite Bridge Crane

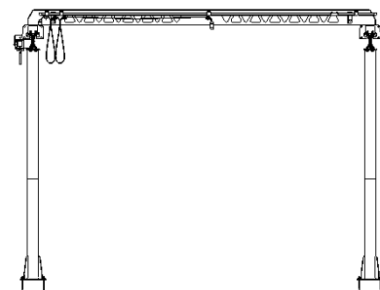
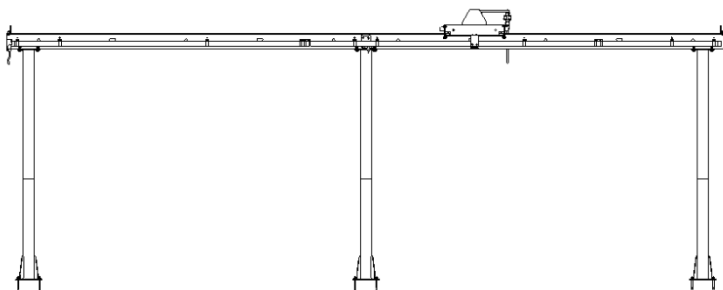
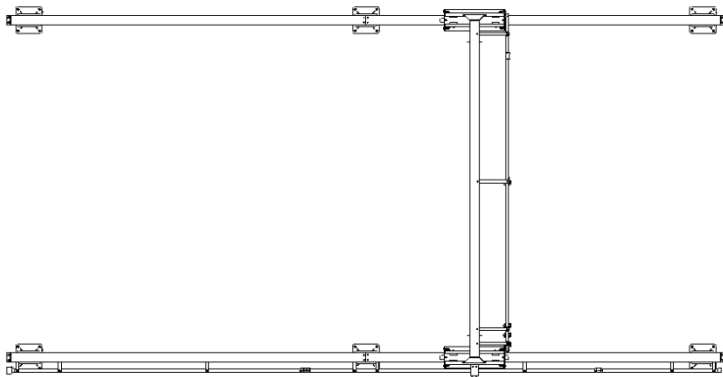
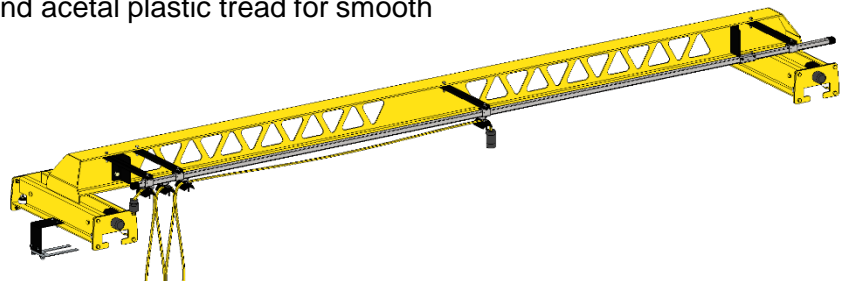


Product Description

- Freestanding design offering maximum hook height and an efficient install.
- The Ultralite series bridge crane offers an improved ergonomic experience, combining the strength of structural steel construction while reducing the weight of the crane.

Product Features

- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Span: 5'-40'
- End truck wheels include ball bearings and acetal plastic tread for smooth operation.
- Steel side guide rollers



ULTRALITE
SERIES

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Top Runner Freestanding Ultralite Bridge Crane



Cranes

Mezzanine

Fall Protection

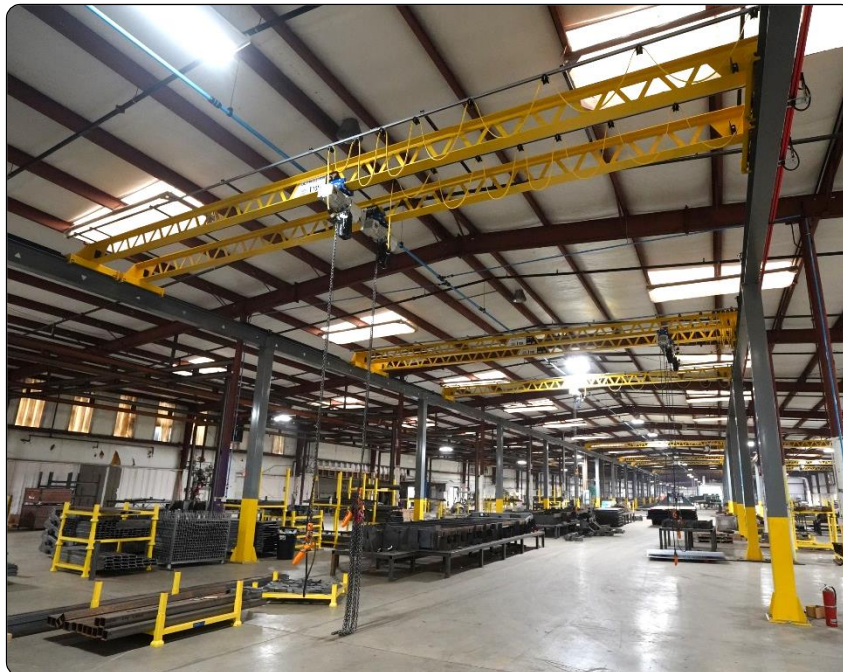
Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



ULTRALITE
SERIES

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Header Mounted Ultralite Bridge Crane

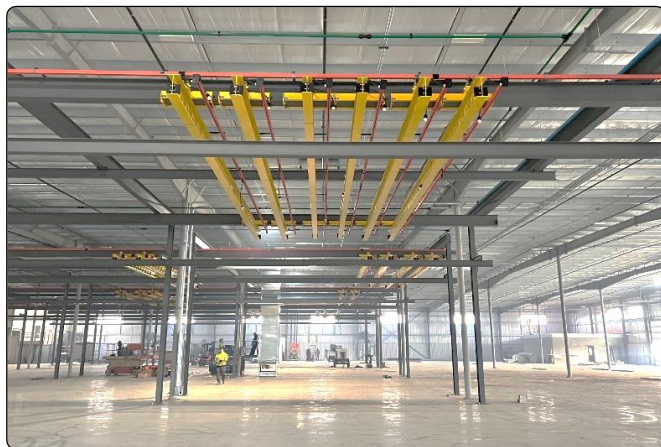
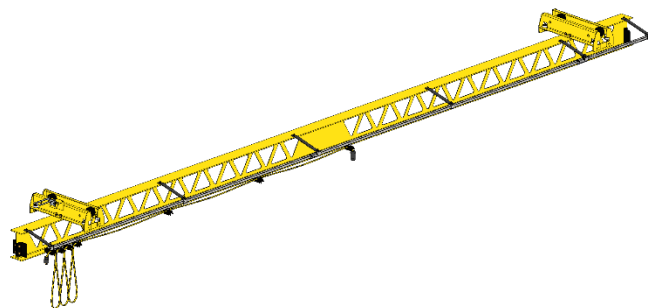


Product Description

- Freestanding design specifically for users needing columns to be located strategically out of the workspace.
- The Ultralite series bridge crane offers an improved ergonomic experience, combining the strength of structural steel construction while reducing the weight of the crane.

Product Features

- Capacity: 500 lbs, 1,000 lbs 1 Ton, 2 Ton, 3 Ton
- Span: 5'-40'
- Max cantilever: 48"



ULTRALITE
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Ceiling Mounted Ultralite Bridge Crane

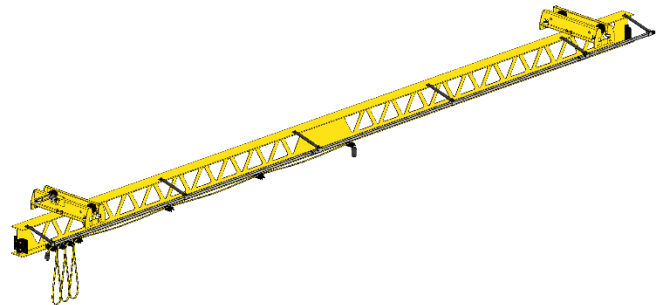


Product Description

- Ceiling mounted design specifically for users that have a PEMB that is already built to withstand the loads the of the crane.
- The Ultralite series bridge crane offers an improved ergonomic experience, combining the strength of structural steel construction while reducing the weight of the crane.

Product Features

- Capacity: 500 lbs, 1,000 lbs 1 Ton, 2 Ton, 3 Ton
- Span: 5'-40'
- Max cantilever: 48"



ULTRALITE
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Top Running Freestanding Hyperlite Bridge Crane

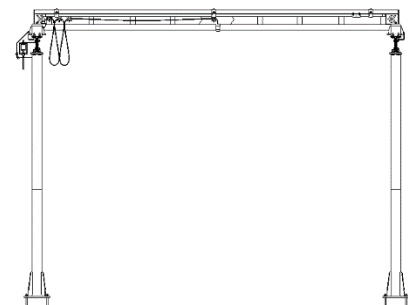
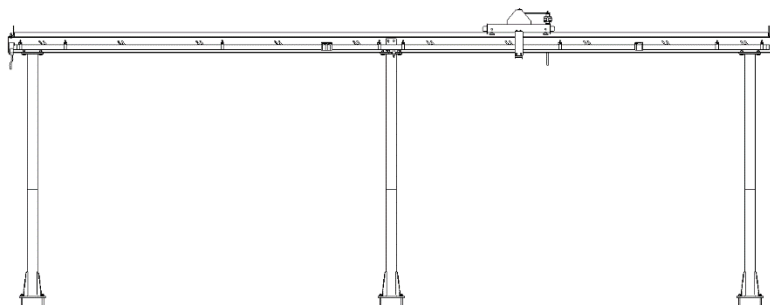
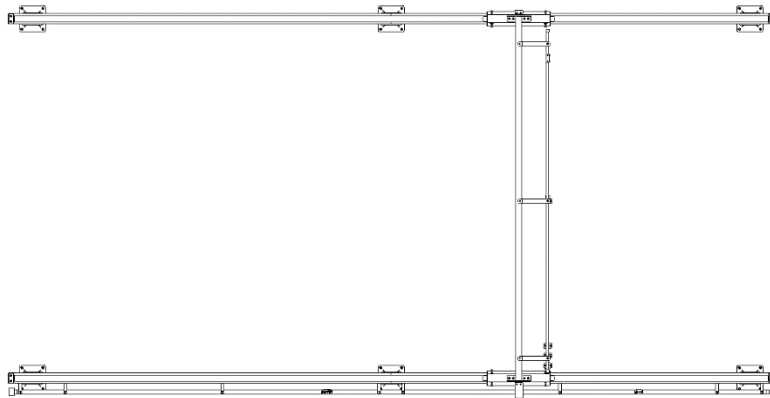


Product Description

- Freestanding design offering maximum hook height and an efficient install.
- Built with an enclosed track bridge and added “guide tube” on the runway system, the Hyperlite series manual bridge crane system outperforms all others.
- The combination of these two features provides even greater performance for manual applications.
- We highly recommend this system for users that are using their cranes at high cycle rates.

Product Features

- Capacity: 250 lbs, 500 lbs, 1,000 lbs, 1 Ton, 2 Ton
- Span: 5'-30'
- Top running Hyperlite end trucks
- Polymer side guide rollers
- Electric chain or chain Hoist



**HYPER
LITE** SERIES

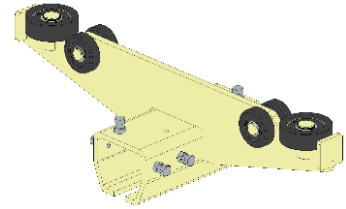


Hyper Lite Ceiling Mounted Bridge Crane



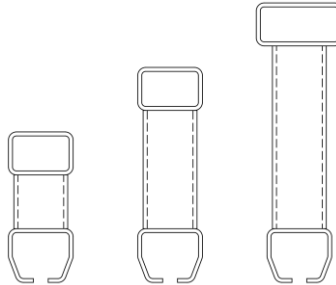
Product Description

- The ceiling mounted option provides the user the ability to keep the structure out of the workspace below.
- Operators can lift and move loads quick and ergonomically.



Product Features

- Capacity: 500 lbs, 1,000 lbs, 1 Ton
- Span: 5'-19'
- ETK End Trucks



HYPER
LITE SERIES

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Hyper Lite Series Trolley Options



Cranes

Cranes

Mezzanine

Mezzanine

Fall Protection

Fall Protection

Smart Solutions

Smart Solutions

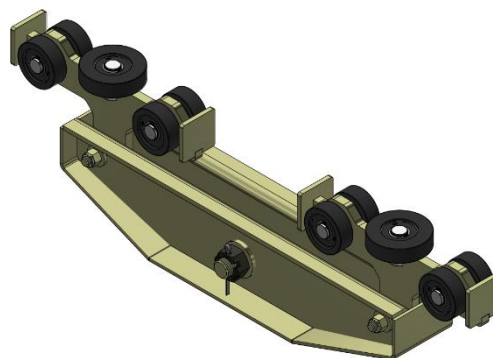
- S300-EMT-1000
 - 300 Series Enclosed Track
 - 1,000 lb. capacity



- S400-EMT-2000
 - 400 Series Enclosed Track
 - 2,000 lb. capacity



- S400-EMT-4000
 - 400 Series Enclosed Track
 - 4,000 lb. capacity



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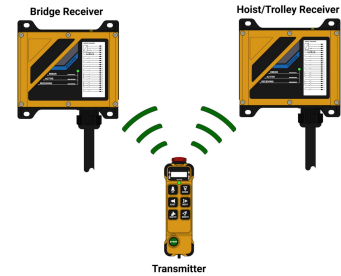


Motorized Top Runner Freestanding Unbraced Crane System



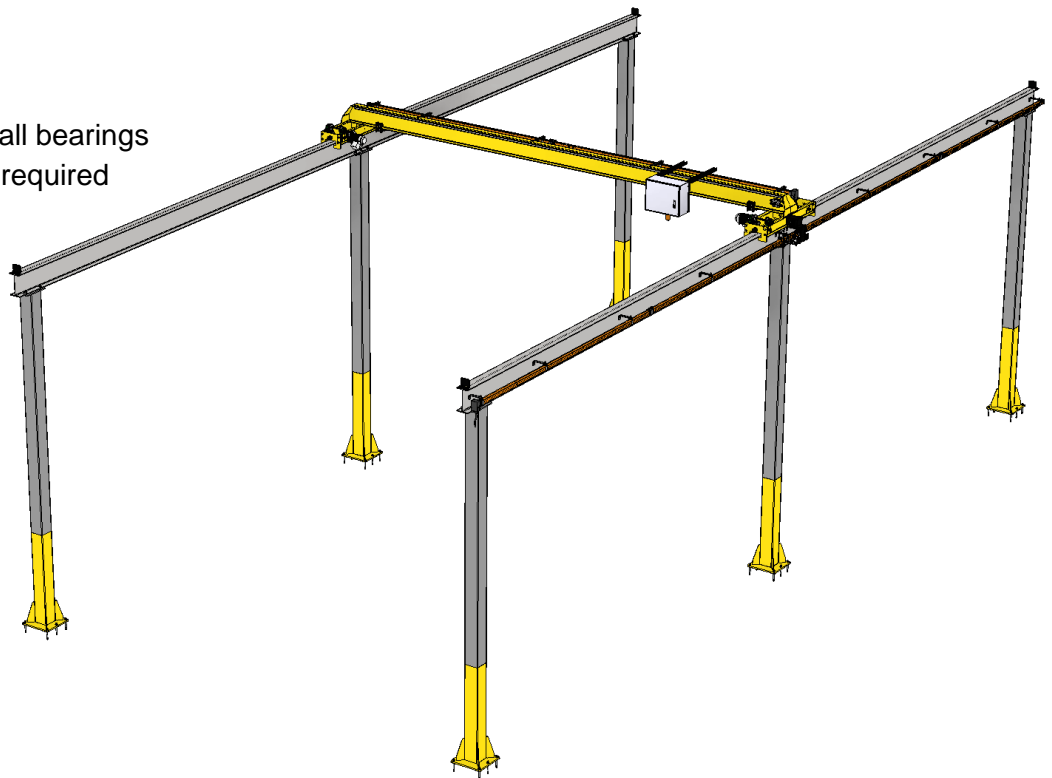
Product Description

The Motorized Top Runner Freestanding Unbraced Crane System is great option for applications where the operator only needs light capacity, but still requires motorized girder travel. This system can be installed virtually anywhere because the pre-engineered columns are able to withstand the moment forces without being braced to the structure around them.



Product Features

- Capacity: 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Bridge Span: 10'- 40'
- Max Overall Height: 23'
- Column Spacing: 10'- 30'
- [Column Options](#): Gusseted Tube, Tapered Beam
- [Footers](#) required at higher spans & capacities
- Minimum Concrete Thickness: 6"
- Monorail wire rope hoist or chain hoists
- Radio Controlled
- Girder to end truck mounting options:
 - Riser
 - Top Mounted
- Starke SCT end trucks
- End truck wheels include ball bearings
- Runway web stiffeners not required



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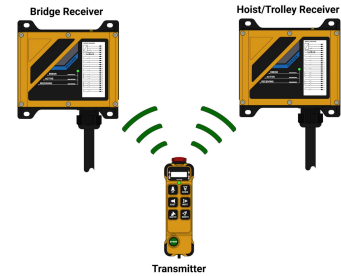


Motorized Top Runner Freestanding Braced Crane System



Product Description

The Motorized Top Runner Freestanding Unbraced Crane System is great option for applications where the operator only needs light capacity, but still requires motorized girder travel. The placement of this system must be planned in conjunction with the surrounding structure because the crane columns are dependent on bracing to that structure.



Product Features

- Capacity: 1,000 lbs, 1 Ton, 2 Ton, 3 Ton
- Bridge Span: 10'- 40'
- Max Overall Height: 23'
- Column Spacing: 10'- 30'
- [Column Options](#): Tube, W Beam
- [Footers](#) required at higher spans & capacities
- Minimum Concrete Thickness: 6"
- Monorail wire rope hoist or chain hoists
- Radio Controlled
- Girder to end truck mounting options:
 - Riser
 - Top Mounted
- Starke SCT end trucks
- End truck wheels include ball bearings
- Runway web stiffeners not required



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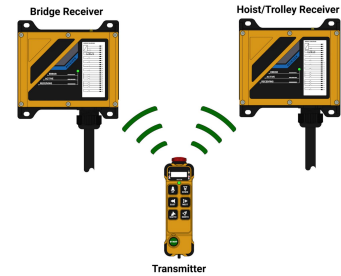


Motorized Top Running Single Girder Bridge Crane



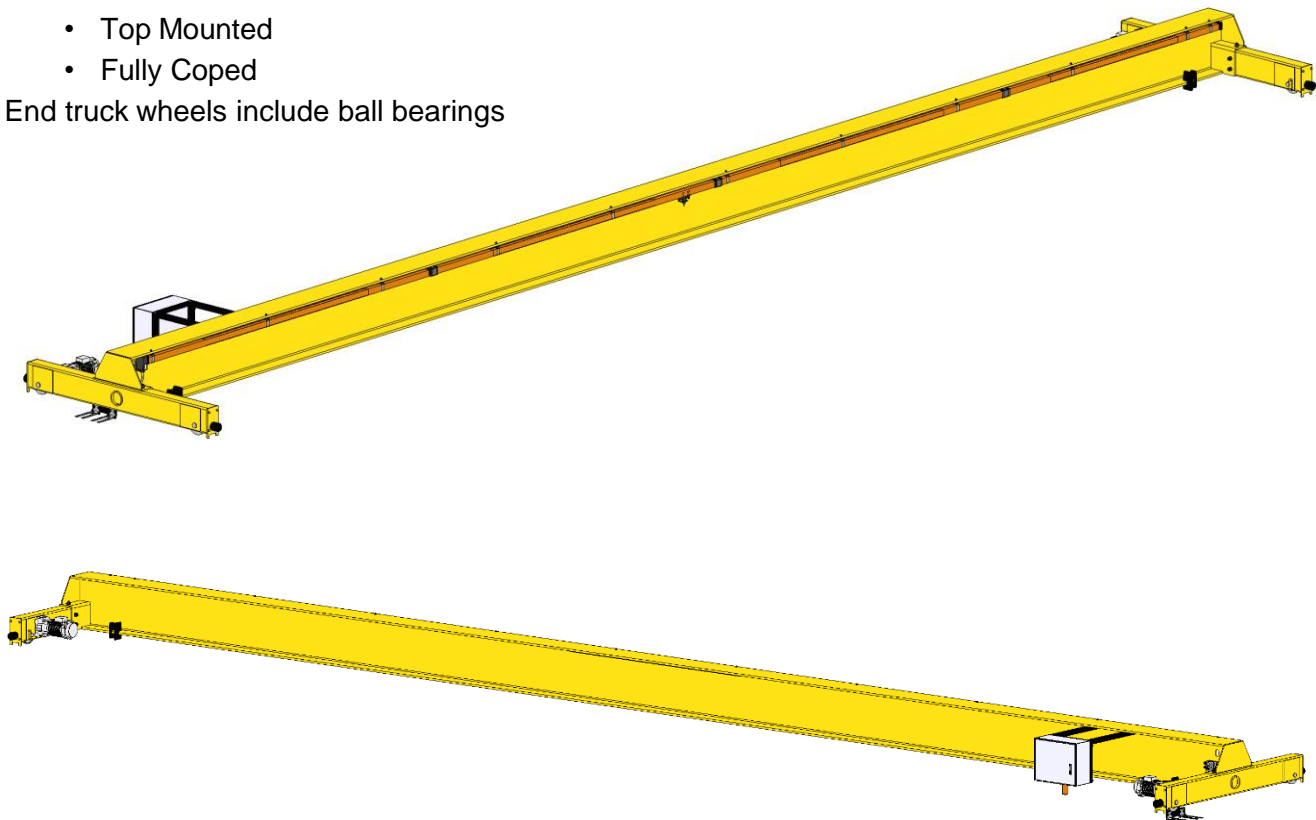
Product Description

- Capable of much higher capacities and spans than your average manual crane. The motorized top running single girder crane is one of the most popular overhead cranes in the industry.



Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton, 15 Ton
- Span: 10'-70'
- Starke STT end trucks
- Monorail wire rope hoist or chain hoists
- Radio Controlled
- Girder to end truck mounting options:
 - Riser
 - Top Mounted
 - Fully Coped
- End truck wheels include ball bearings



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Motorized Top Running Single Girder Bridge Crane



Cranes

Mezzanine

Fall Protection

Smart Solutions



Cranes

Mezzanine

Fall Protection

Smart Solutions

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Product Description

- The riser option is an upgrade available for improved hook height on systems where the runway beams are required to be set at a lower level.

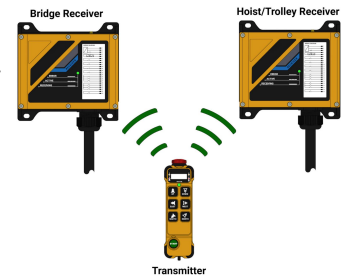


Motorized Top Running Triple Girder Bridge Crane



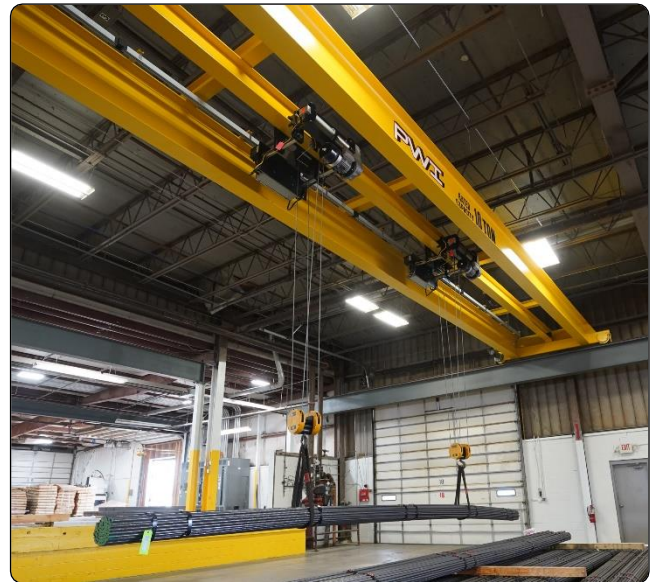
Product Description

- Bridge crane design that offers an increased span and capacity range over the standard single girder option at a lower price than typical box girders.



Product Features

- Capacity: 2T, 3T, 5T, 7.5T, 10T, 15T
- Span: 20'-70'
- Starke STT end trucks
- Wire rope hoist
- Radio Controlled
- Girder to end truck mounting options:
 - Top Mounted
 - Partial Cope
 - Full Cope
 - Drop Cope
 - Drop Step Cope



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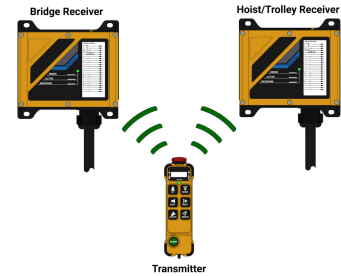


Motorized Top Running Double Girder Bridge Crane



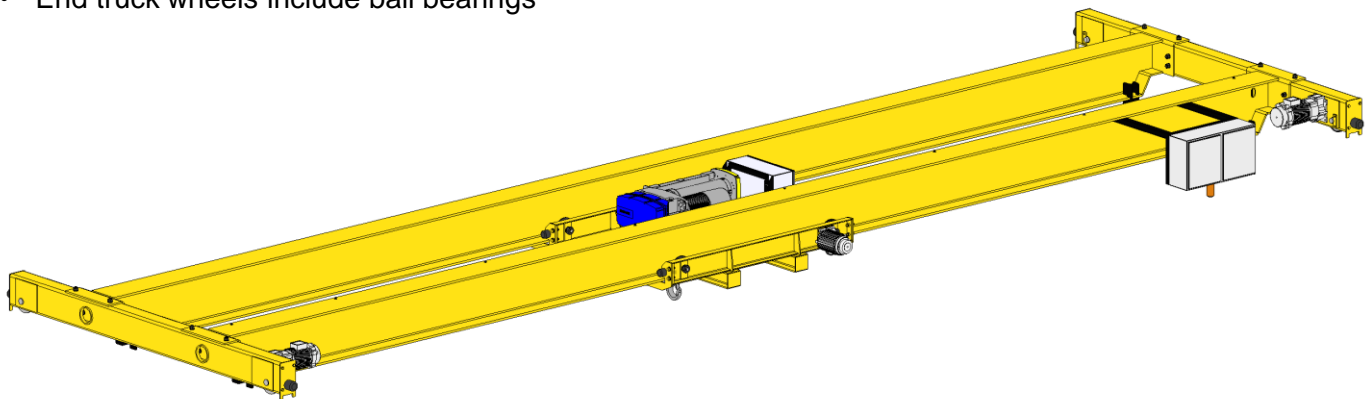
Product Description

- This version uses double girders and a custom underhung trolley assembly to provide the maximum amount of clearance above and below the bridge crane.



Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton
- Span: 10'-70'
- Starke STT end trucks for bridge motion
- Starke SCU end trucks for trolley motion
- Base Mount wire rope hoist or chain hoists
- Radio Controlled
- End truck wheels include ball bearings



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Motorized Top Running Double Girder Bridge Crane



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Fall Protection

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Cranes

Mezzanine

Fall Protection

Smart Solutions

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Motorized Top Running Double Girder Bridge Crane

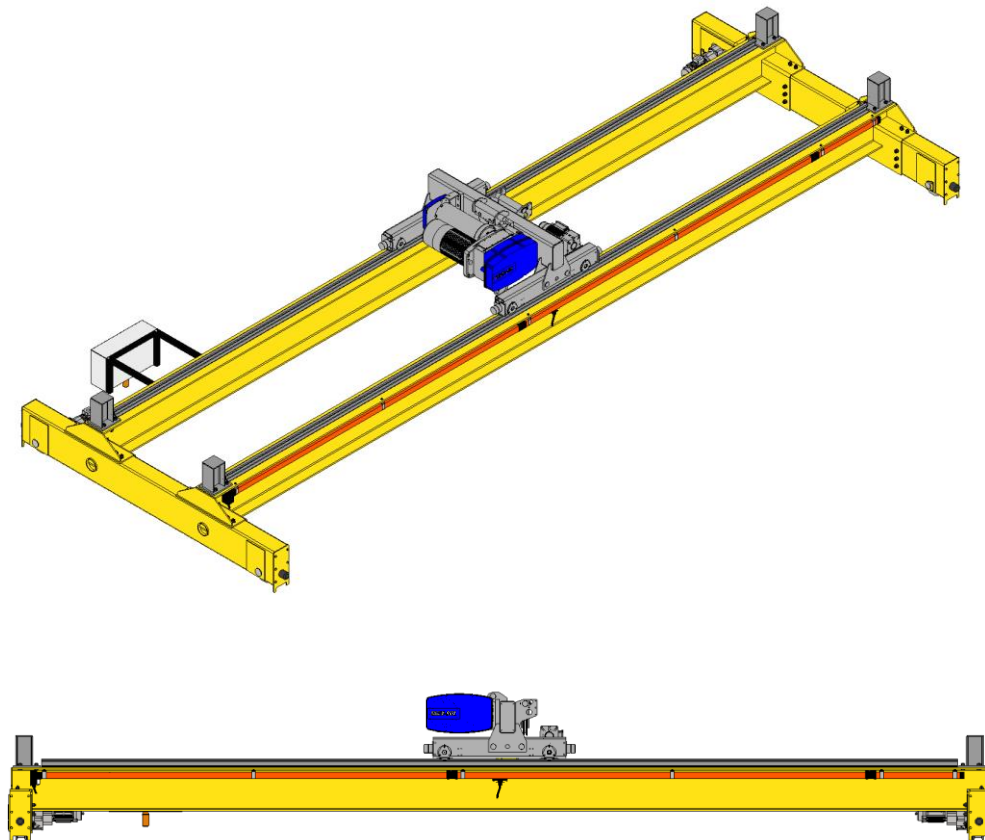
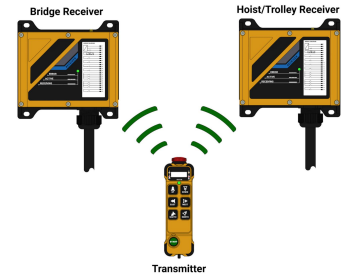


Product Description

- Bridge crane rolls on ASCE crane rail runway
- Typically used for heavy duty and/or long span applications

Product Features

- Capacity: 7.5 Ton, 10 Ton, 15 Ton, 20 Ton
- Span: 20'-110'
- Starke STT end trucks
- Top running wire rope hoist
- Radio Controlled
- Girder to end truck mounting options:
 - Top Mounted
 - Partial Cope
 - Full Cope
 - Drop Cope
 - Drop Step Cope



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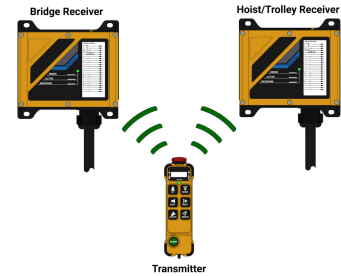


Motorized Top Running Mono Box Girder Bridge Crane



Product Description

- The monobox design is commonly used when a standard single girder or double girder fabricated using WF beams hits it's limit on capacity and/or span.
- Designed to Class D regulations.

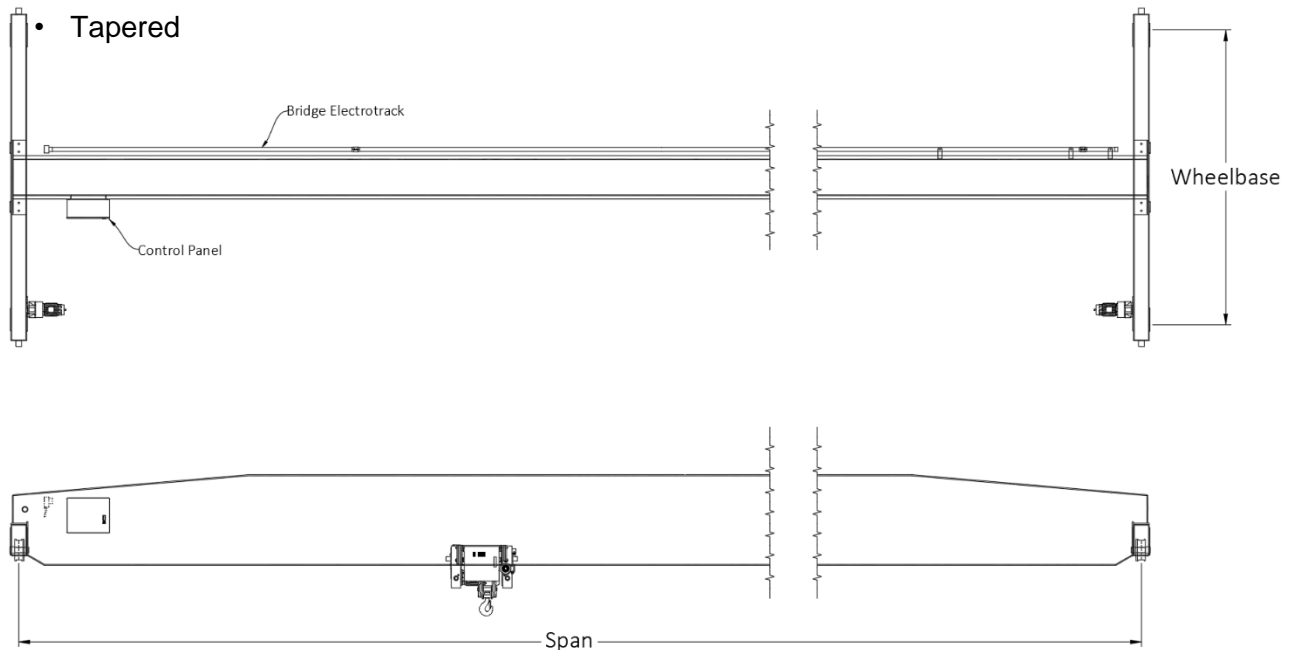


Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton, 12.5 Ton, 15 Ton
- Span: 20'-160'
- Starke STT end trucks
- Mono Box
- Monorail wire rope hoist
- Radio Controlled
- Girder to end truck mounting options:
 - Top Mounted
 - Partial Cope
 - Full Cope
 - Drop Cope
 - Drop Step Cope
 - Tapered



Learn more!



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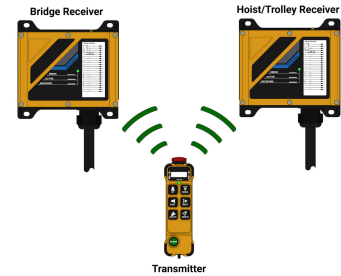


Motorized Top Running Modular Mono Box Girder Bridge Crane



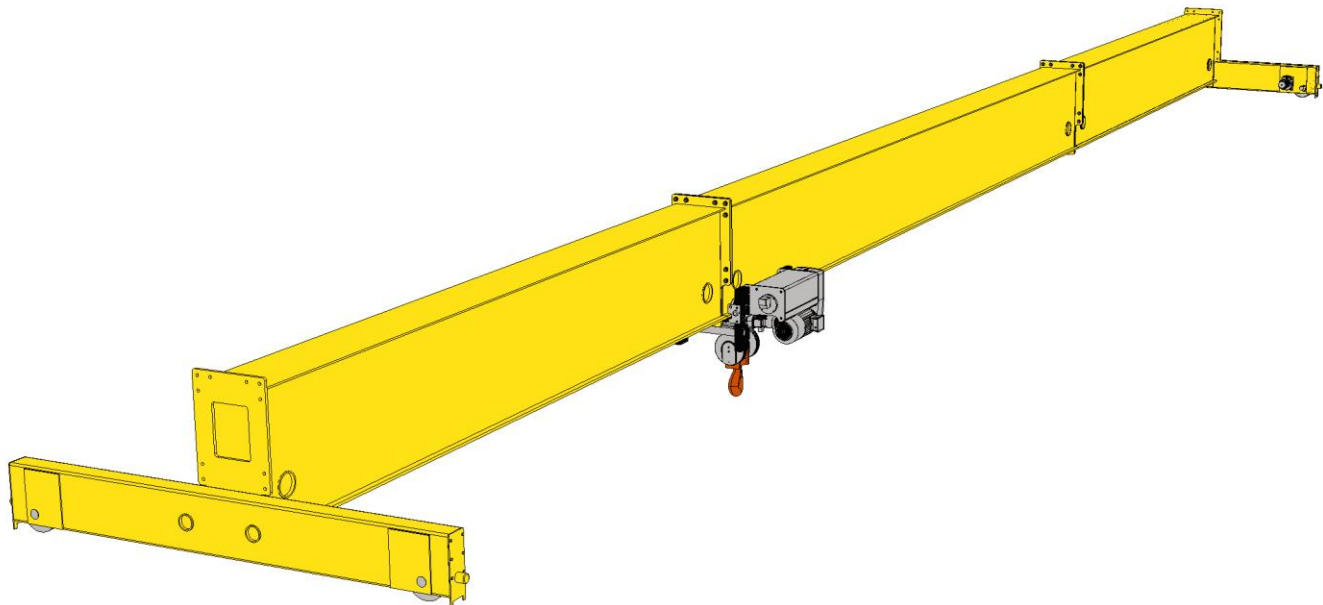
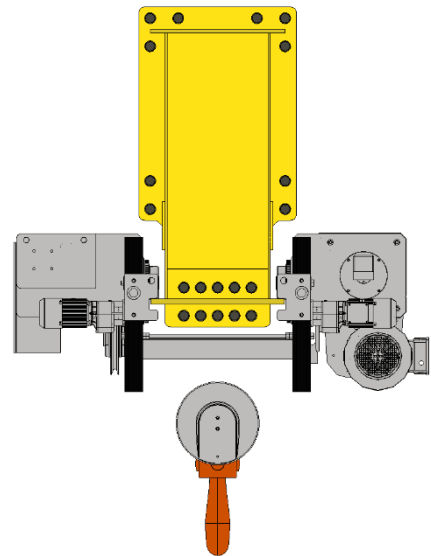
Product Description

- The modular design allows for easier assembly, disassembly and transport for bridge cranes used in temporary situations.
- Modular design also allows custom sections to be fabricated to adjust span while avoiding the need to replace the entire girder.



Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton, 12.5 Ton, 15 Ton
- Span: 20'-160'
- Starke STT end trucks
- Mono Box
- Monorail wire rope hoist
- Radio Controlled
- Girder to end truck mounting options:
 - Side Mount



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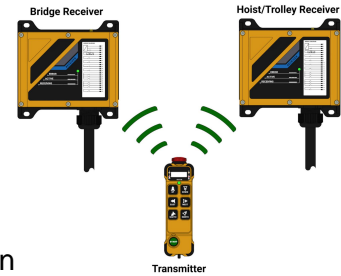


Motorized Top Running Double Box Girder Bridge Crane



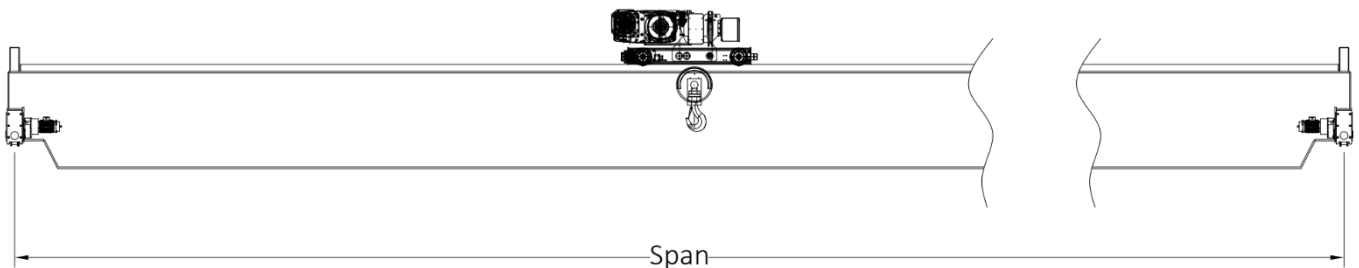
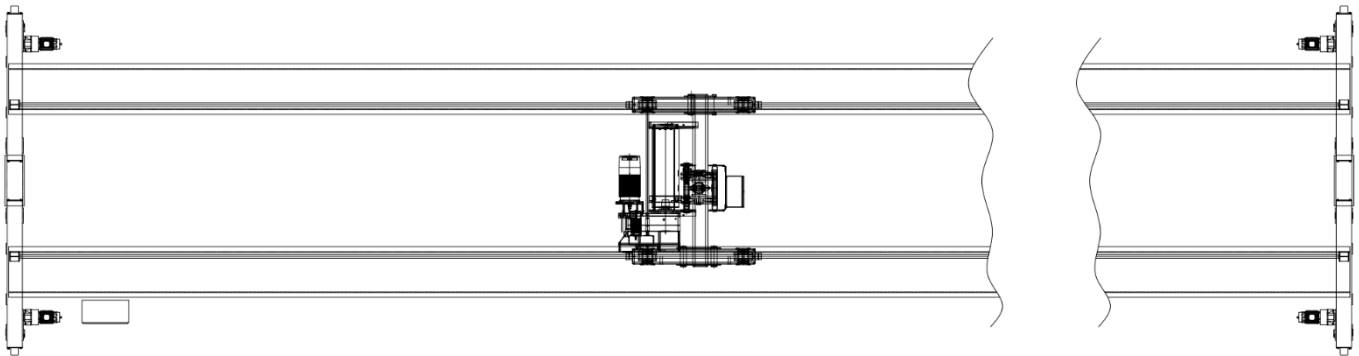
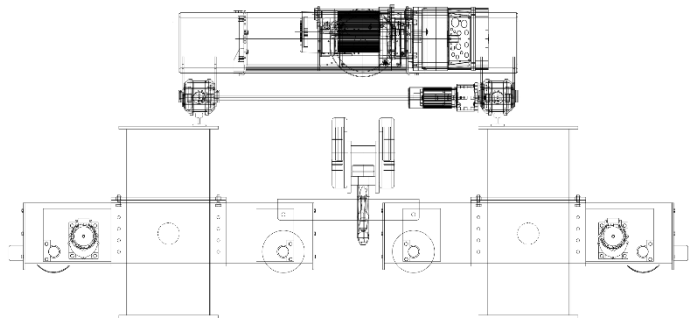
Product Description

- Design that uses (2) monobox girders to meet the highest capacity and span requirements in the industry.



Product Features

- Capacity: 7.5 Ton, 10 Ton, 15 Ton, 20 Ton, 25 Ton, 30 Ton, 40 Ton, 50 Ton
- Span: 20'-160'
- Starke STT end trucks
- Double Box
- Top running wire rope hoist
- Radio Controlled
- Girder to end truck mounting options:
 - Top Mounted
 - Partial Cope
 - Full Cope
 - Drop Cope
 - Drop Step Cope



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Top Running Bridge Crane Spec Sheet



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Company:			
Project Number:			
Date:			
Specifications		Details:	Comments
1	Span		
2	Capacity		
3	CMAA Class		
4	Crane Weight		
5	Crane Type		
6	Number of Hoists on Crane		
7	Bridge Speed		
8	Bridge Collision Avoidance		
9	Trolley Speed		
10	Shaw-Box SK 10 Ton, 20' lift		
11	Max Trolley Flange Width		
12	Hoist Lift Speed (wire rope)		
13	Hoist and Trolley Weight		
14	Girder Connection		
15	Radio Remote Control		
16	Festoon Pendant control		
17	Bridge Electrification		
18	Max Wheel Loading		
19	End Truck Wheel Diameter		
20	End Truck Wheel Base		
21	Runway Rails		
22	Runway Electrification		
23	Mainline Disconnect		
24	Crane Power Supply Voltage		
25			
26			
27			
28			
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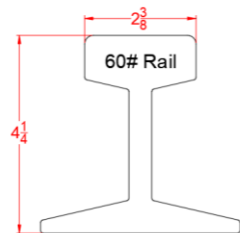
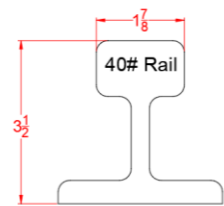
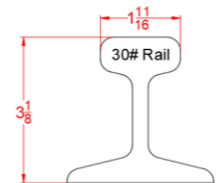
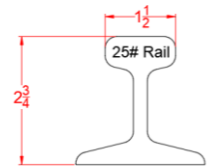
Crane Rail Installation Guide



Top Running Crane Rail Specs

1. Rail Splices:

- SPLICE JOINT BOLT ASSEMBLIES
- There is no specific torque requirement for rail splice bolts but standard practice would dictate the bolts be torqued to a proof load of 70% of the bolt tensile strength.
- Note as shown in figure 2 that the rail splice bolts should be inserted from alternating sides of the splice to aid in equal distribution of the tightening forces.
- Proper splice joints are designed to wedge between the angled underside of the railhead and the angled top of the rail flange as shown in figure 3. The splice joint should not bear against the web of the rail and a drilled flat bar is not an acceptable alternative.
- splice bar is either 12 or 13 degrees depending on the rail size. Both the rail and splice bar have relatively rough surfaces when new and the joints wear in as the runway system is operated.
- Because of the geometry and wear, bolt pretension load can be lost very quickly. This condition can be aggravated when the rail is mounted on a crane rail pad or the rail joint falls between discontinuous support pedestals. Because of this ASTM A325 or ASTM A490 grade bolts should be specified and splice bolts should be retightened after 30 days of use and checked every three months thereafter. On discontinuous supported systems special sole plates should be positioned to support the rail joint whenever feasible.



Crane Rail Installation Guide



Top Running Crane Rail Specs

TYPES OF SPLICES

Mechanical splices are used to connect one length of rail to the next.

Generally, mechanical splices are more popular on smaller rail sizes, such as ASCE sections, or tee rails and should only be used on lighter duty applications not high duty cycle production cranes. Of those joints that are mechanically fastened, most use the splice bar type of plates without any toe, instead of partial or full toe plates.

The term "splice bar" actually refers to only one type of connector but frequently is confused with other types. The drawings shown in figure 1 provide clarification on the proper terminology for each type of connector bar. Angle bars are also sometimes referred to as "full-toe joint bars", and "joint bars" are sometimes called "short toe bars". U.S. crane rail sizes 104#/yd. and above usually have three drilled holes on the end of each rail and a six bolt splice bar pair. They are secured with six sets of bolt assemblies consisting of a bolt, a nut and a washer. ASCE and tee rails are generally joined with four bolt assemblies.

The drilling of rail ends and punching of splice plates follow generally accepted industry standard patterns for bolt assembly size, hole size and spacing which can be found in the AISC Manual of Steel Construction.

The standard drilling for tee rails and corresponding punching for splice bars provide for a 1/16" to 1/8" gap between rail ends. Although this construction is satisfactory for railroad track and light crane service, its use in general crane service may lead to joint batter. For best service in bolted splices it is recommended that "tight fit joints" be stipulated for all rails prepared for crane service.



Crane Rail Installation Guide



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PWI rail installation notes.

1. Maintain 1/2" gap from end of crane rail to beam end stop.
2. On both sides of the crane rail, weld rail clips 2' on center.
3. Use hammer to 'set' the crane rail splice bolts as you torque bolts
4. Crane rail splices should offset from runway beam splices.
5. Crane rail joints on opposite sides of the runway should be staggered.

CMAA 74

- 1.4.1.1 .1 Rails shall be straight, parallel, level, at the same elevation and at the specified center to center distance, within the tolerances given in Table 1.4.1-1.
- 1.4.1.1 .2 The runway rails should be standard rail sections, or other commercial rolled section with equivalent specifications and of a proper size for the crane to be installed.
- 1.4.1.1 .3 Crane rail splices shall be bolted or welded. Rail joints on opposite sides of the runway should be staggered. Properly selected hold-down devices shall be used to anchor the rail to the runway. Lateral "floating" type rail fastening is not recommended.
- 1.4.1.1.4 Rail joint misalignment can be a significant factor in wheel, axle, and bearing failures. It is recommended that horizontal rail separation at joints not exceed 1/16 inch. Vertical and horizontal alignment at joints should be maintained as closely as possible. Rail joints should be ground flush as necessary to provide a smooth transition from each rail segment to the next.

CMAA 70 1.41

1. Elevation of rails: $\pm 3/8"$ above or below an assumed reference elevation.
2. The maximum rate of elevation change: $1/4"$ in 20'-0".
3. Rail to rail elevation: $\pm 1/4"$ within the nominal average span length.
4. The maximum rate of change of rail to rail elevation: $1/4"$ in 20'-0"
5. Straightness of rail: $\pm 3/8"$ on either side of an assumed rail centerline
6. The maximum rate of change of rail straightness: $1/4"$ in 20'-0"
7. Variation in crane span: $\pm 1/4"$ difference relative to the nominal crane span
8. The maximum rate of change of variation in crane span: $1/4"$ in 20'-0"

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Crane Rail Installation Guide



CMAA 74 Table 1.4.1-1

ITEM	FIGURE	OVERALL TOLERANCE	MAXIMUM RATE OF CHANGE
CRANE SPAN (L) MEASURED AT CRANE WHEEL CONTACT SURFACE		$L \leq 50'$ $A = \frac{3}{16}"$ $L > 50' \leq 100'$ $A = \frac{1}{4}"$ $L > 100'$ $A = \frac{3}{8}"$	$\frac{1}{4}"$ IN 20'-0"
STRAIGHTNESS (B)		$B = \frac{3}{8}"$	$\frac{1}{4}"$ IN 20'-0"
ELEVATION (C)		$C = \frac{3}{8}"$	$\frac{1}{4}"$ IN 20'-0"
TOP RUNNING TRANSVERSE RAIL TO RAIL ELEVATION (D)		$L \leq 50'$ $D = \pm \frac{3}{16}"$ $L > 50' \leq 100'$ $D = \pm \frac{1}{4}"$ $L > 100'$ $D = \pm \frac{3}{8}"$	N/A
TRANSVERSE GIRDER TO GIRDER ELEVATION UNDER RUNNING (D)			

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Splice Joint Installation Details

TYPES OF SPLICES

Mechanical splices are used to connect one length of rail to the next. Generally, mechanical splices are more popular on smaller rail sizes, such as ASCE sections, or tee rails and ***should only be used on lighter duty applications not high duty cycle production cranes.*** Of those joints that are mechanically fastened, most use the ***splice bar*** type of plates without any toe, instead of partial or full toe plates.

The term “splice bar” actually refers to only one type of connector but frequently is confused with other types. The drawings shown in figure 1 provide clarification on the proper terminology for each type of connector bar. Angle bars are also sometimes referred to as “full-toe joint bars”, and “joint bars” are sometimes called “short toe bars”.

U.S. crane rail sizes 104#/yd. and

above usually have three drilled holes on the end of each rail and a six bolt splice bar pair. They are secured with six sets of bolt assemblies consisting of a bolt, a nut and a washer. ASCE and tee rails are generally joined with four bolt assemblies.

The drilling of rail ends and punching of splice plates follow generally accepted industry standard patterns for bolt assembly size, hole size and spacing which can be found in the AISC Manual of Steel Construction.

The standard drilling for tee rails and corresponding punching for splice bars provide for a 1/16” to 1/8” gap between rail ends. Although this construction is satisfactory for railroad track and light crane service, its use in general crane service may lead to joint batter. For best service in bolted splices ***it is recommended that “tight fit joints” be stipulated*** for all rails prepared for crane service.

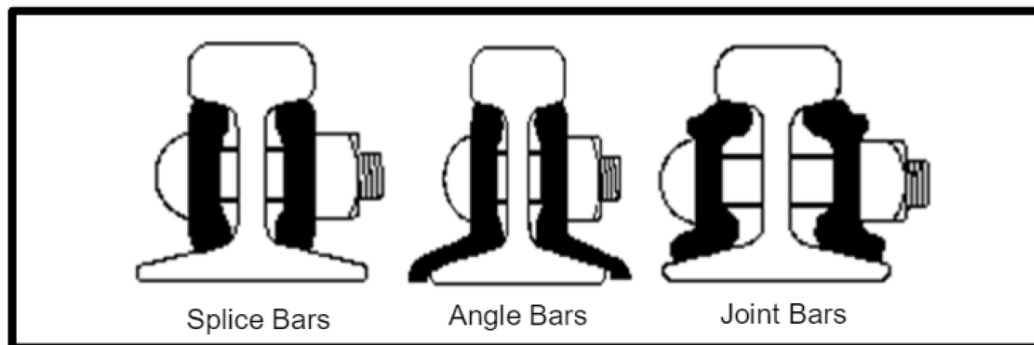


Figure 1

Splice Joint Installation Details

SPLICE JOINT BOLT ASSEMBLIES

There is no specific torque requirement for rail splice bolts but standard practice would dictate the bolts be torqued to a proof load of 70% of the bolt tensile strength.

Note as shown in figure 2 that the rail splice bolts should be inserted from alternating sides of the splice to aid in equal distribution of the tightening forces.



Figure 2

Proper splice joints are designed to wedge between the angled underside of the railhead and the angled top of the rail flange as shown in figure 3. The splice joint **should not bear against the web of the rail and a drilled flat bar is not an acceptable alternative.**

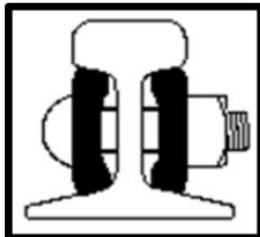


Figure 3

The mating angle between the rail and

splice bar is either 12 or 13 degrees depending on the rail size. Both the rail and splice bar have relatively rough surfaces when new and the joints wear in as the runway system is operated. Because of the geometry and wear, bolt pretension load can be lost very quickly. This condition can be aggravated when the rail is mounted on a crane rail pad or the rail joint falls between discontinuous support pedestals. Because of this ASTM A325 or ASTM A490 grade bolts should be specified and **splice bolts should be retightened after 30 days of use and checked every three months thereafter.** On discontinuous supported systems special sole plates should be positioned to support the rail joint whenever feasible.

Top Running Crane Design Form



The purpose of this form is to help crane OEM's design top running bridge cranes.

Customer Name:

Project Description:

Project #:

Girder Type:

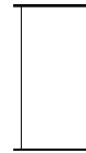
☐ Single Girder

☐ Double Girder

Girder Member Shape:

☐ W Beam Girder Size: _____

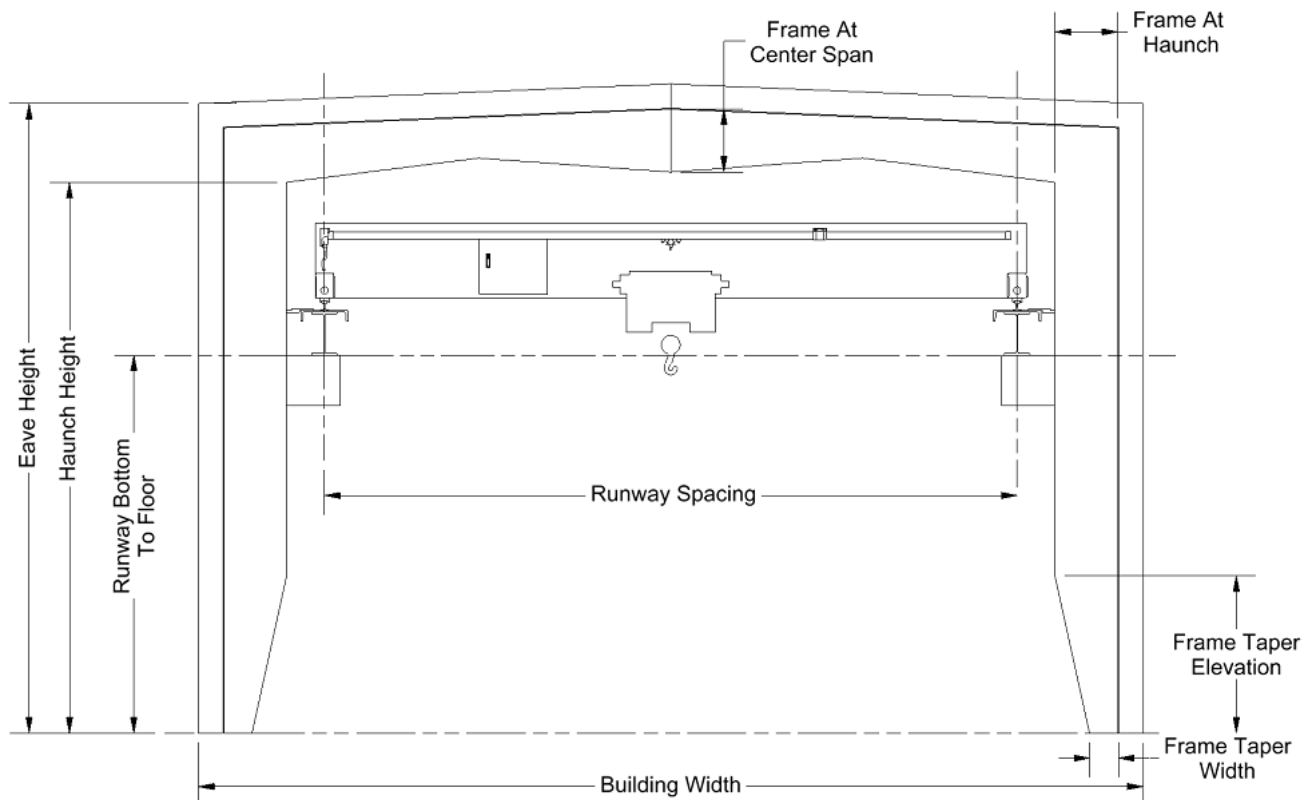
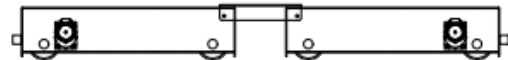
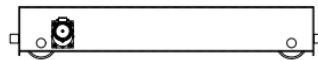
☐ Box Girder Size: _____



Number of End Trucks:

☐ Single End Truck

☐ Bogey End Truck



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Top Running Crane Design Form



Cranes

Mezzanine

Fall Protection

Smart Solutions

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STT Wheel Loading / Wheelbase																																				
	Girder Qty.	D ↓	A →	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"	126"	132"	138"	144"	150"	156"	162"	168"	174"	180"	186"	192"	198"	204"	210"	216"	222"	228"	
STT-130	1	7.87"	lbs. →	→	→	→	→	→	7,100																											
STT-170	1	9.84"			→	→	→	→	→	→	→	→	→	→	→	10,700	10,100	9,400	8,800																	
	2										→	→	→	→	→	→	10,800																			
STT-250	1	15.74"				→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	25,800	24,000													
	2												→	→	→	→	→	→	→	→	→															
STT-300	1	15.74"					→	→	→	→	→	→	→	→	→	→	→	→	→	→	30,500															
	2												→	→	→	→	→	→	→	→	30,500															
	1	20"																				→	→	→	→	→	→	30,500	28,600	27,000						
	2																					→	→	→	→	→	→	→	→	30,500						
STT-500	1	24"						→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	47,500					
	2																	→	→	→	→	→	→	→	→	→	→	→	→	47,500						
	1	30"																→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	47,500	
	2																→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	47,500			
Double Girder = 60" Minimum Gage																																				

Double Girder = 60" Minimum Gage

STT Wheel Loading / Crane Rail												
STT End Truck Wheel Specs				ASCE Crane Rail Size								
Diameter		Tread Width		25#	30#	40#	60#	80#	85#	90#	105#	
				Head Width (in.)								
mm	in.	mm	in.	1.50	1.69	1.88	2.38	2.50	2.56	2.56	2.56	
130	5.12	50	1.97	7,100								
170	6.69	70	2.76		10,700	10,700						
250	9.84	70	2.76		15,700	18,400						
300	11.81	80	3.15			22,200	30,500	30,500	30,500	30,500	30,500	
500	19.69	90	3.54				48,500	48,500	48,500	48,500	48,500	
BHN 420 (Brinell Hardness Number)												



← Check Inventory

CMAA 70

4.13.4 Proper Clearance for Bridge Wheels

A total of approximately 3/4 inch to one inch wider than rail head should be provided between the wheel flanges and rail head. Tapered tread wheels may have a clearance over the rail head of 150 percent of the clearance provided for straight tread wheels as recommended by the crane manufacturer.

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Top Running Crane Design Form



Cranes

Cranes

Mezzanine

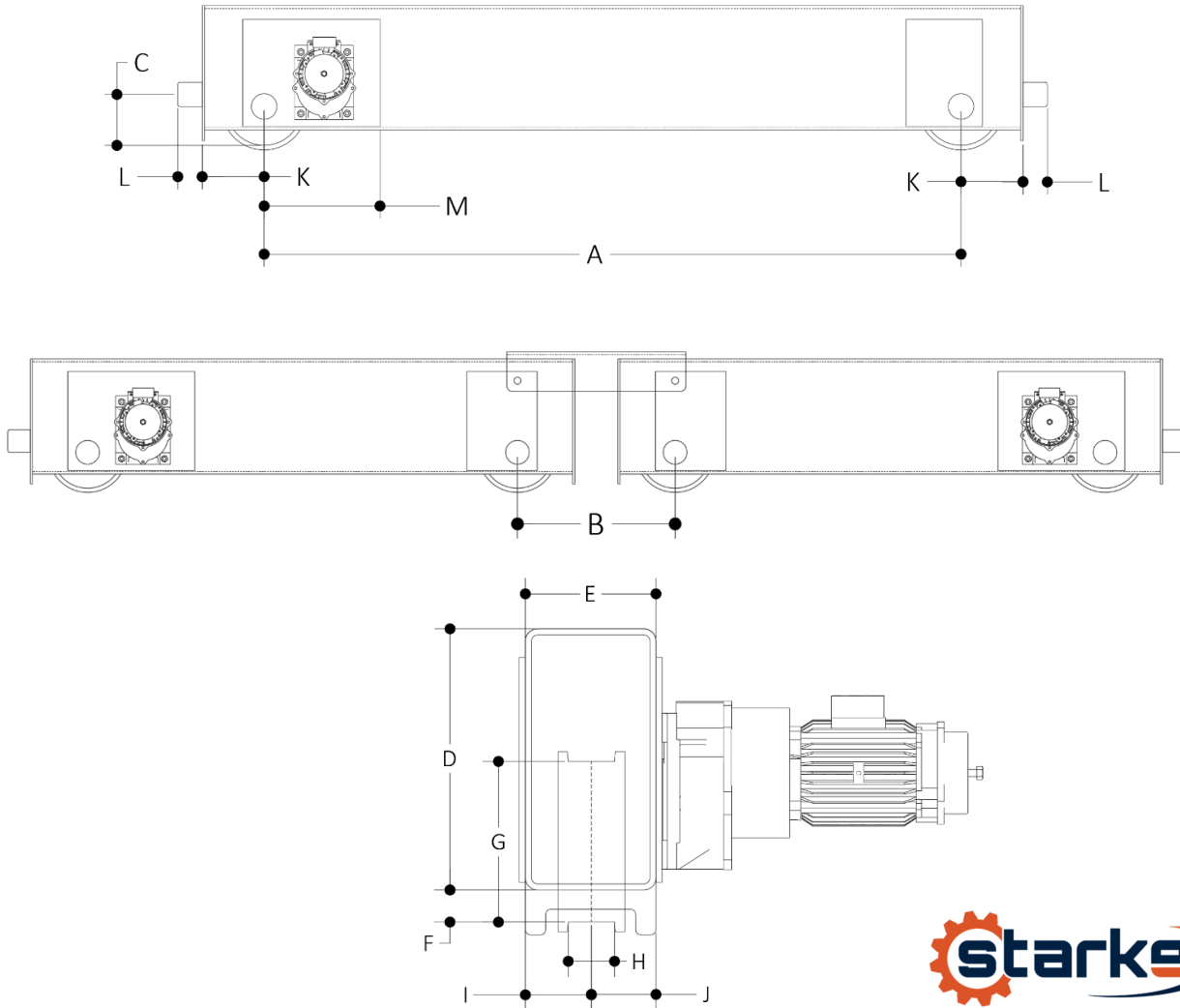
Mezzanine

Fall Protection

Fall Protection

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STT Dimensions														
STT mm	A min	A max	B min	C	D	E	F	G	H	I	J	K	L	M
130	42"	72"	13"	3.34"	7.87"	5.90"	.78"	5.12"	1.96"	2.95"	2.95"	5"	2.18"	7.55"
170	48"	96"	15"	3.54"	9.84"	5.90"	1"	6.69"	2.75"	2.65"	3.24"	6"	2.18"	9.05"
250	54"	120"	19"	6.29"	15.74"	7.87"	1.96"	9.84"	2.87"	3.93"	3.93"	8"	3.12"	15.15"
300	60"	138"	23"	6.29"	15.74"	7.87"	1.96"	11.81"	3.14"	3.93"	3.93"	10"	3.12"	16.45"
	138"	192"	23"	6.29"	20"	8"	1.96"	11.81"	3.14"	4"	4"	10"	3.12"	16.45"
500	66"	192"	31"	8.07"	24"	11"	1.96"	19.68"	3.54"	5.11"	5.89"	14"	4.72"	16"
	192"	228"	31"	8.07"	30"	11"	1.96"	19.68"	3.54"	5.11"	5.89"	14"	4.72"	16"

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Top Running Crane Design Form



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Fall Protection

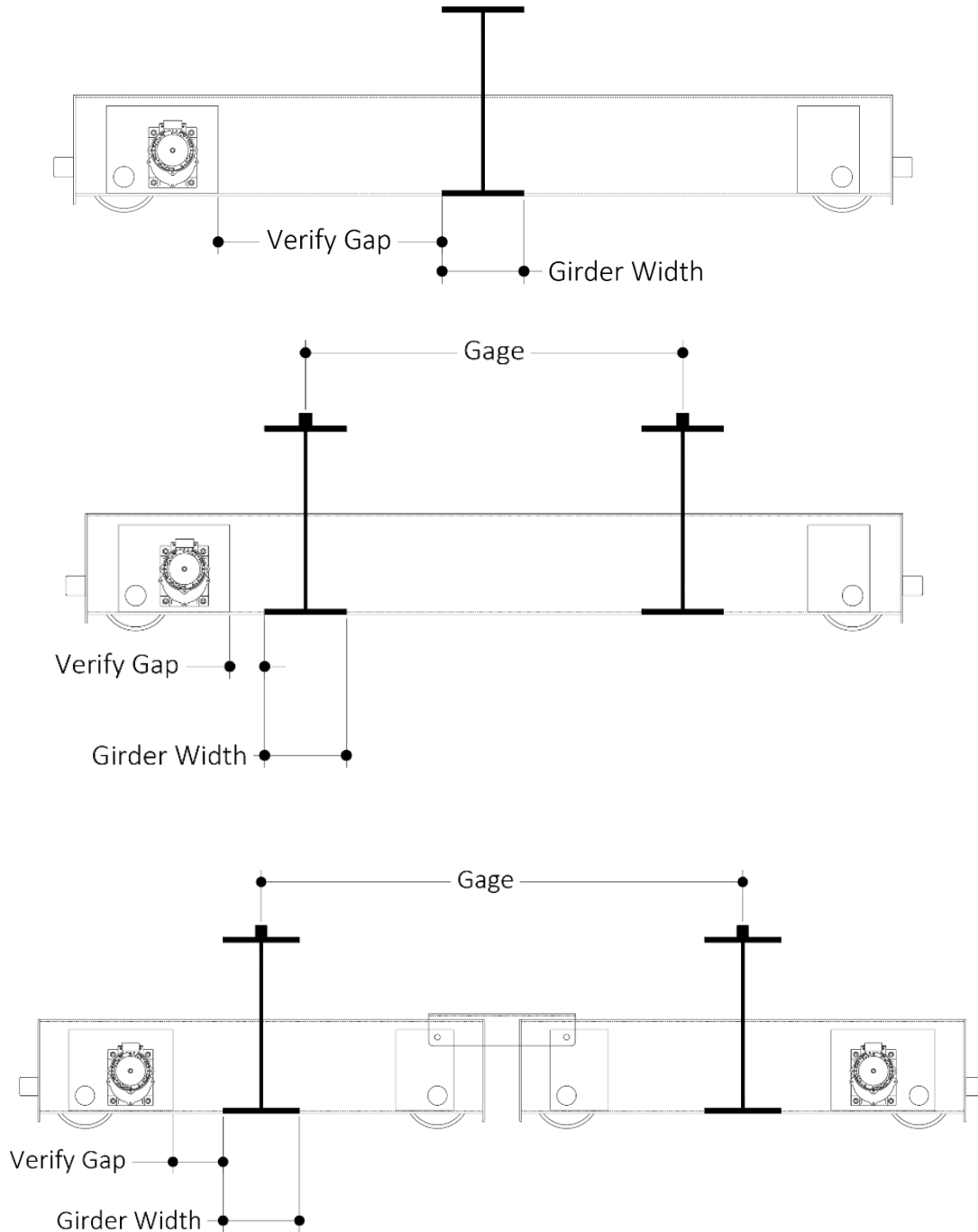
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Top Running Crane Design Form



Cranes

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Fall Protection

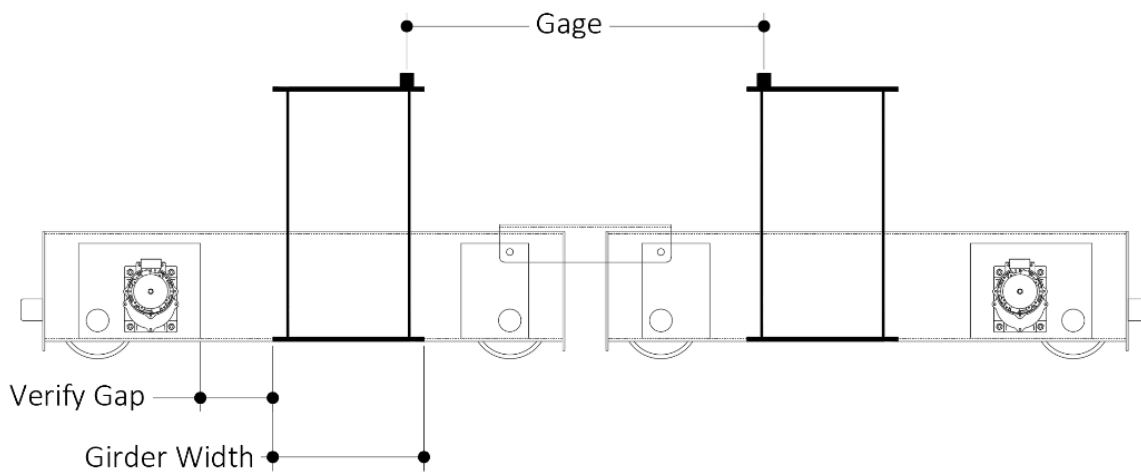
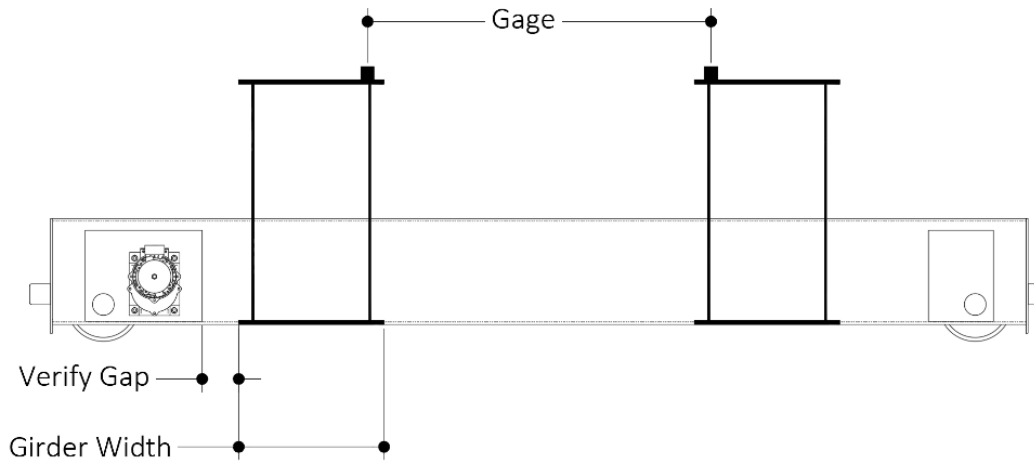
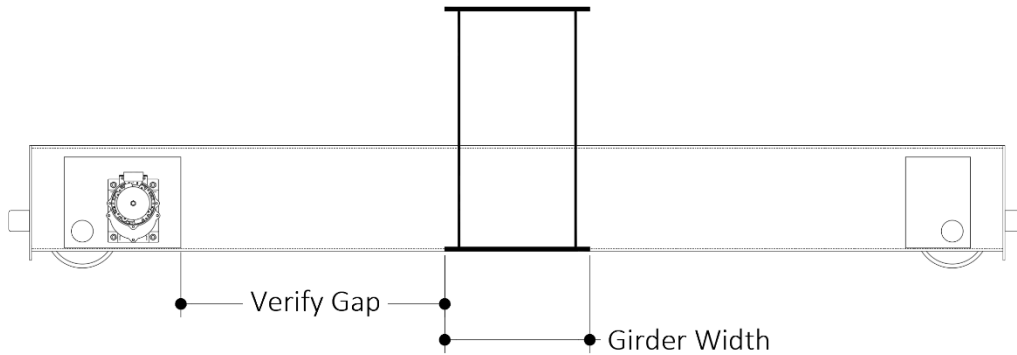
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Top Running Crane Design Form



Girder to End Truck Mounting Options for Wide Flange Beams or Box Girders

Cranes

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Fall Protection

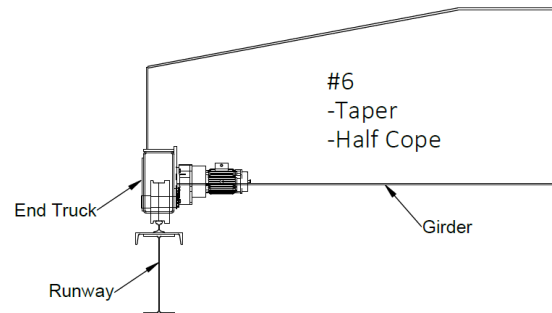
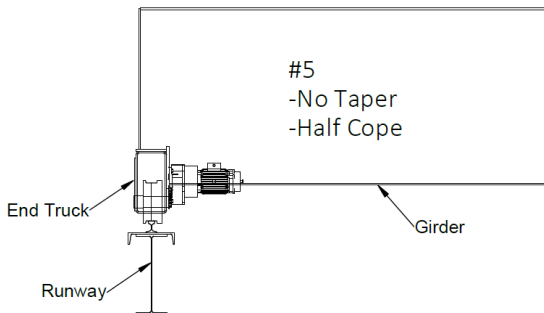
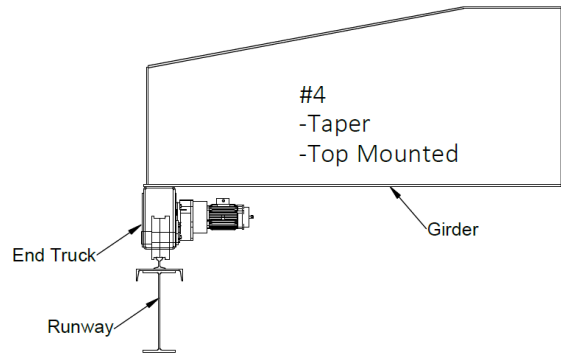
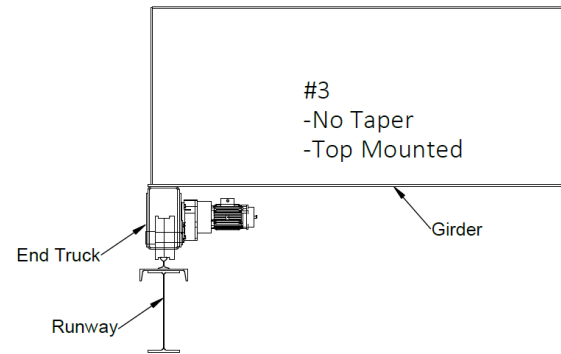
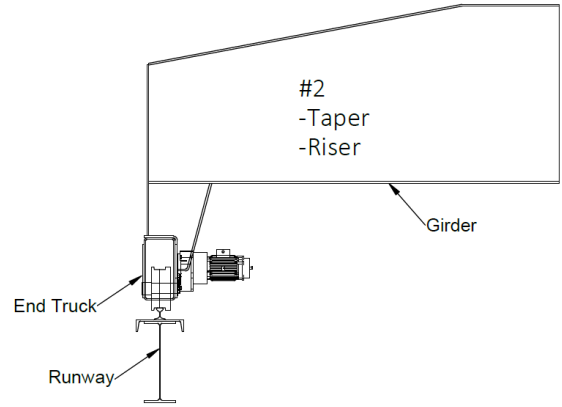
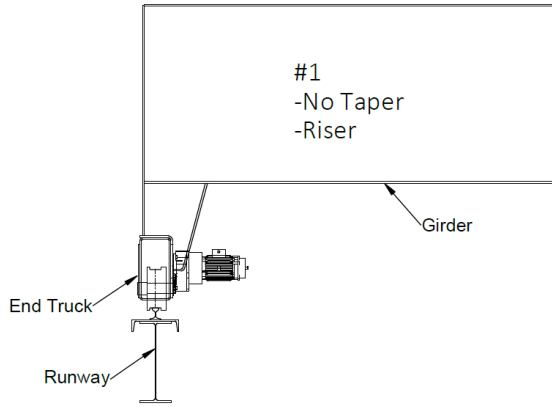
Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



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Top Running Crane Design Form



Girder to End Truck Mounting Options for Wide Flange Beams or Box Girders

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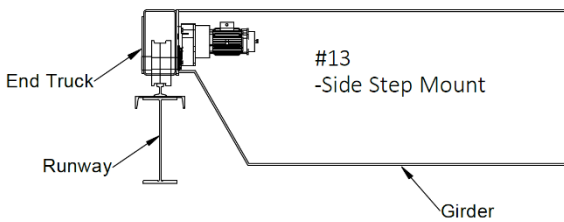
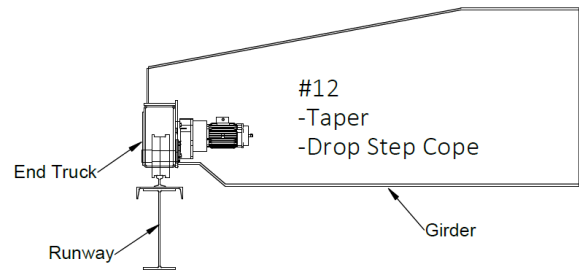
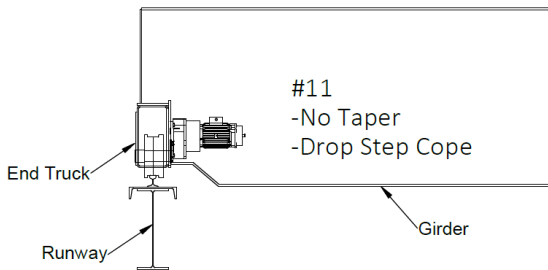
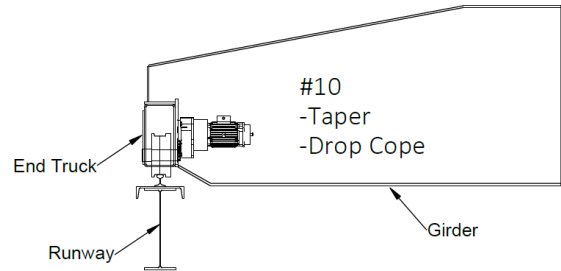
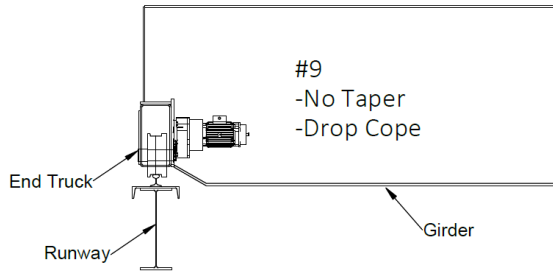
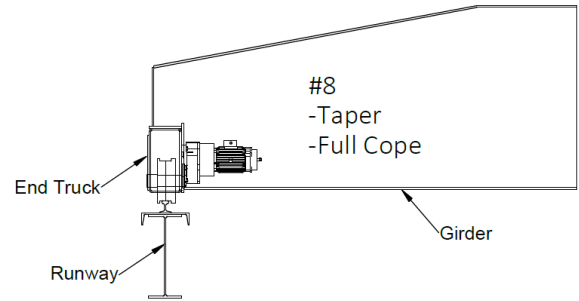
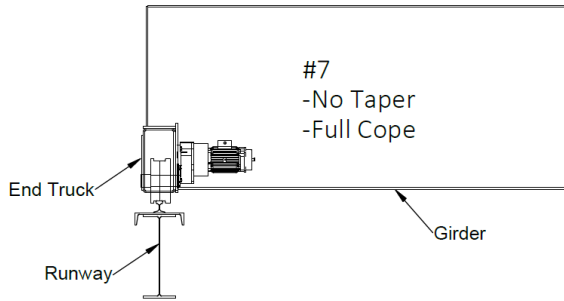
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Box Girder Welding Procedure



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Fall Protection

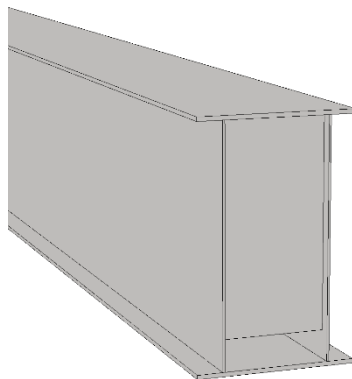
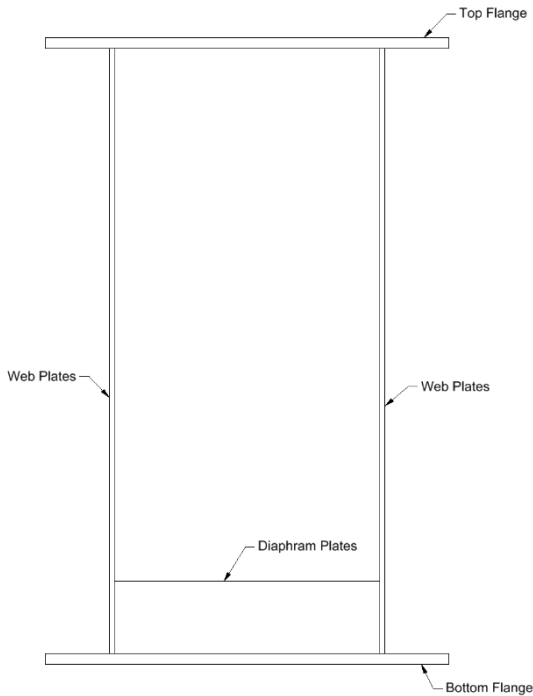
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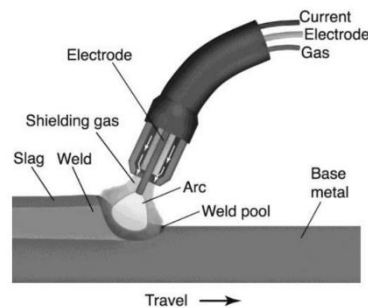
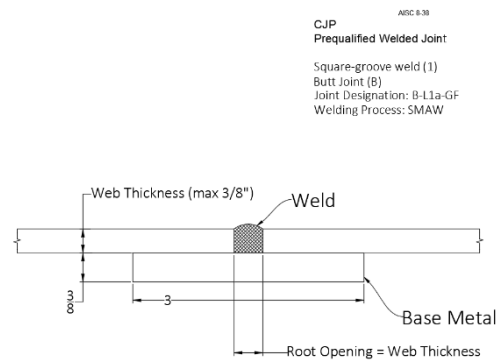
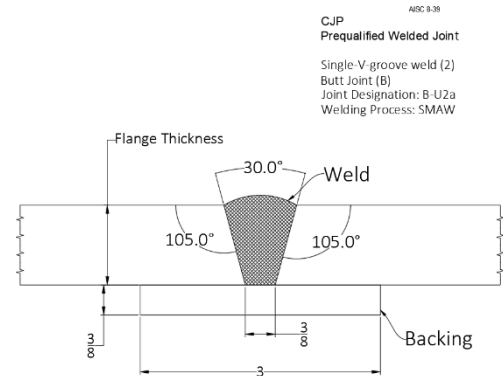
Mezzanine

Fall Protection

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1. All welding must be performed by AISC certified welders.
2. Welding, both shop and field, shall be accomplished by qualified welders for the weld types and positions involved according to the "Structural Welding Code" AWS D14.1. Use only shielded arc electrodes of structural type. Use E-70 electrodes
3. Material list does not include miscellaneous metals, welding material and supplies, end truck material including diaphragm end plates, and other materials not included on the drawings
4. All plate steel for flanges and webs, angles and diaphragms shall be A572 or better.
5. Note: splices in top & bottom flanges shall be C.J.P single V-groove weld (flush). Splices in webs shall be C.J.P. single V-groove weld (flush) with backer plate.



© 2018 Lincoln Electric
FCAW-G Flux Cored Arc Welding (gas-shielded)
The gas-shielded versions of flux-cored electrodes use an externally supplied shielding gas.



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Freestanding Crane Columns

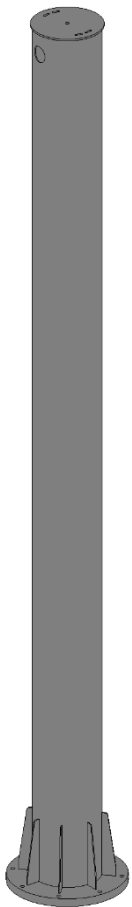


Product Description

- Supports braced or unbraced crane runways
- Effectively withstands imposed crane loads
- 5 options depending on system height, capacity, and structure type

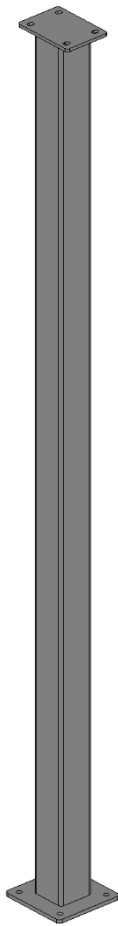
Gusseted Pipe

Unbraced
2 Tone Paint



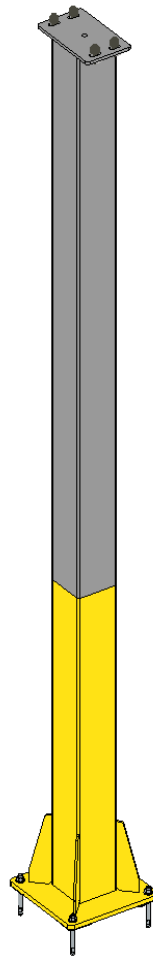
Tube

Braced
2 Tone Paint



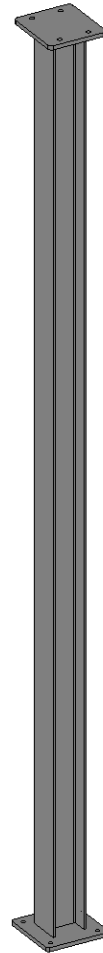
Gusseted Tube

Unbraced
2 Tone Paint



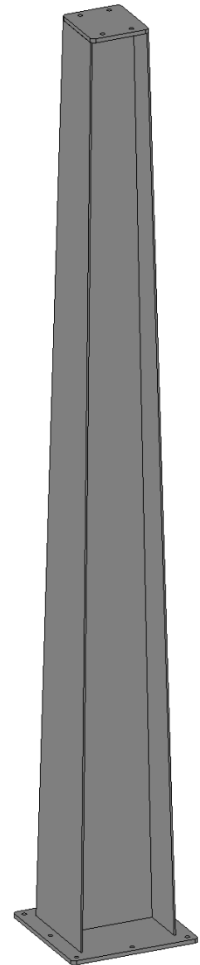
W Beam

Braced



Tapered Beam

Unbraced



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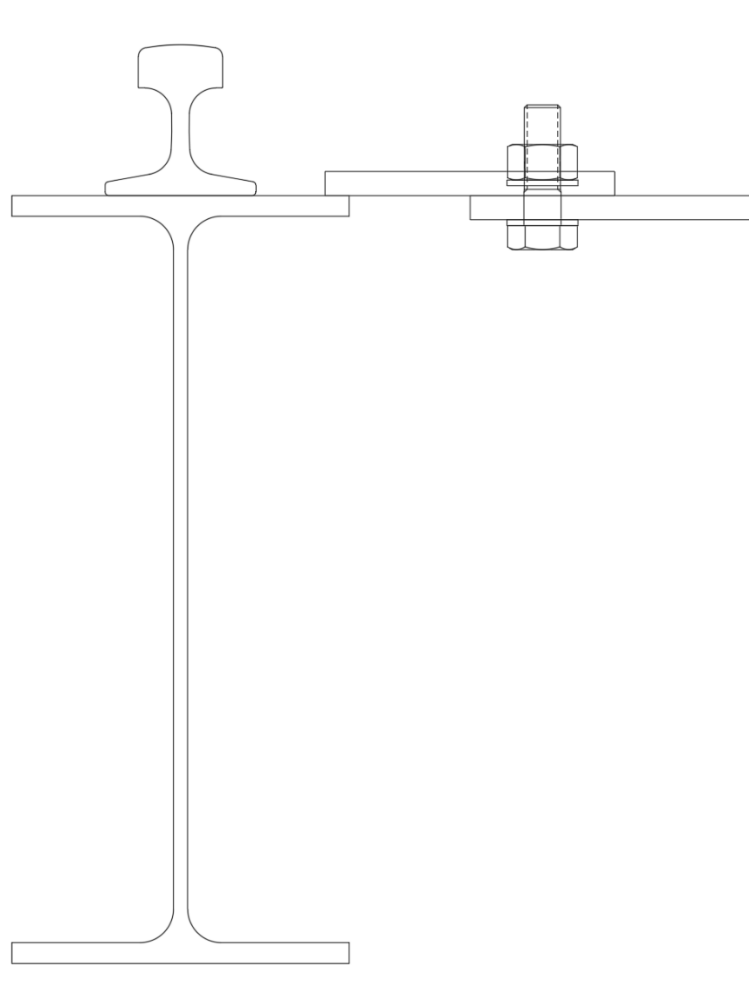


Braced Column Tie Back Plates



Product Description

- Tie backs are installed to attach the top flange of runways to the PEMB (Pre Engineered Metal Building) column
- Tie backs are used when building structure has sufficient strength to withstand crane forces. This scenario would allow using an unbraced W beam or Tube column.



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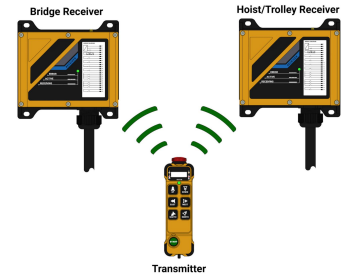


Motorized Under Running Single Girder Bridge Crane



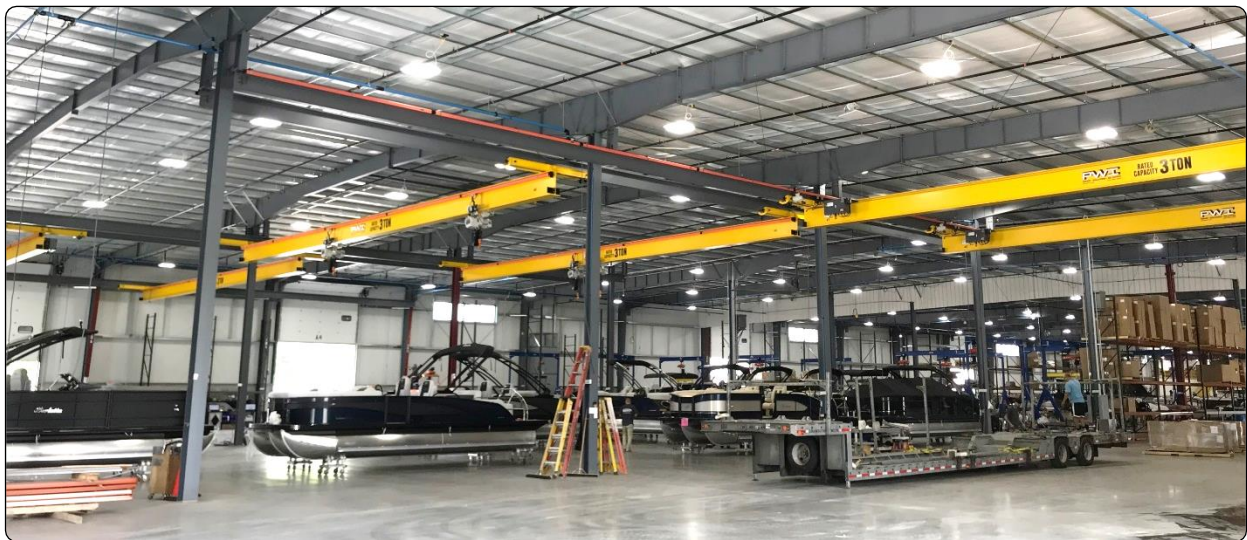
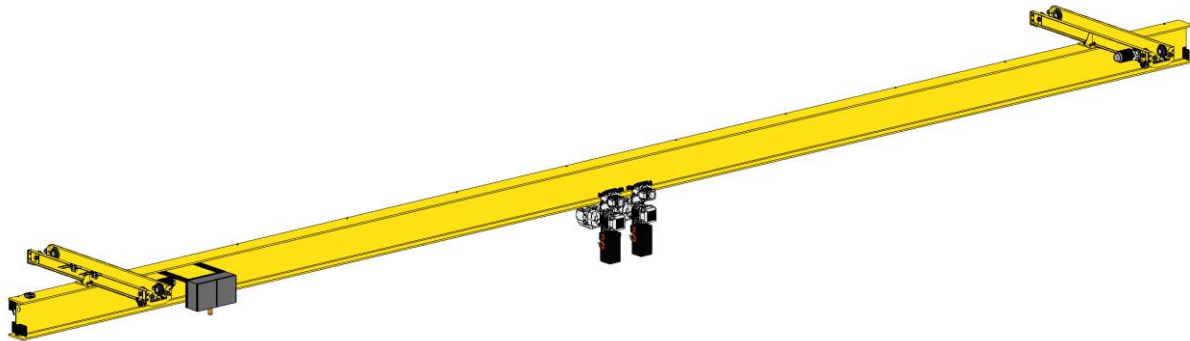
Product Description

- Under running design allowing for the entire width of the crane and workspace to be utilized.
- While it lowers the overall hook height that can be obtained, this system allows for the ability to upgrade to an interlock for important material transfers where necessary.



Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton
- Span: 10'-70'
- Starke SCU end trucks
- Monorail wire rope hoist or chain hoists
- Radio Controlled
- End truck wheels include ball bearings



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Motorized Under Running Single Girder Bridge Crane



Cranes

Mezzanine

Fall Protection

Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions

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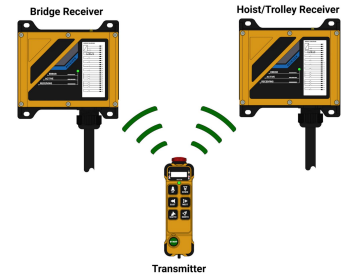


Motorized Under Running Low Headroom Bridge Crane



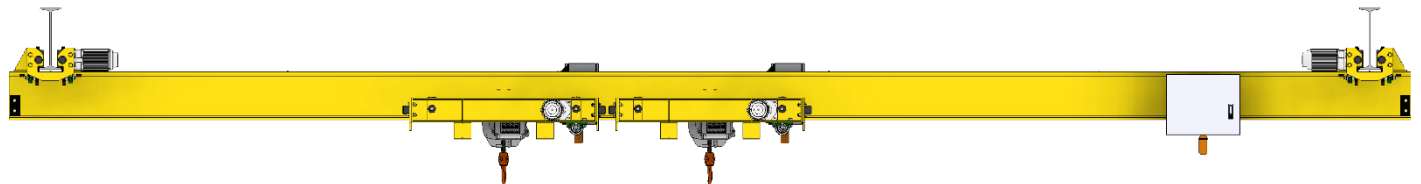
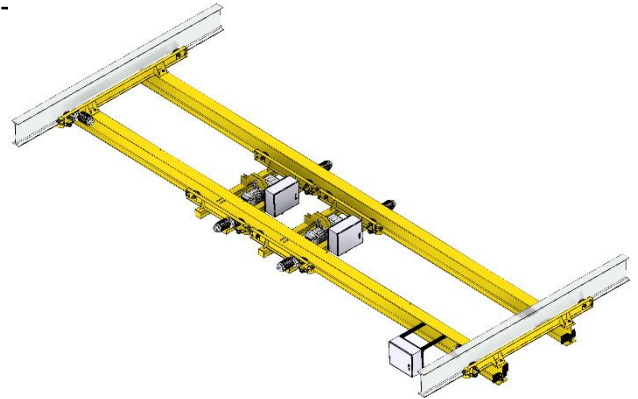
Product Description

- A custom approach that allows for use of an established under running runway system while improving the hook height.
- This system is traditional meant for old equipment upgrades.



Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 "
- Span: 10'-70'
- Starke SCU end trucks
- Chain Hoist
- Radio Controlled
- End truck wheels include ball bearings



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Monobridge

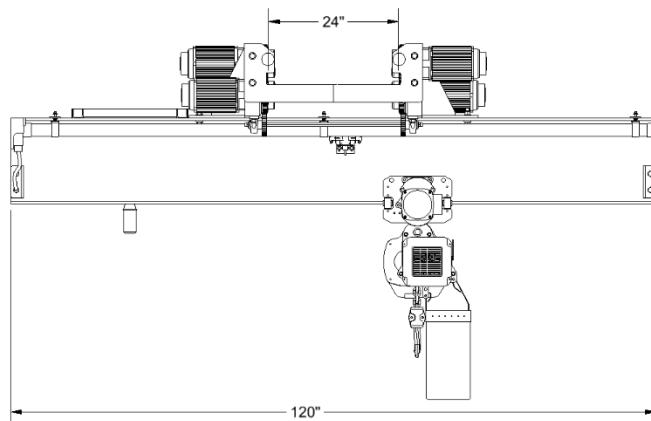
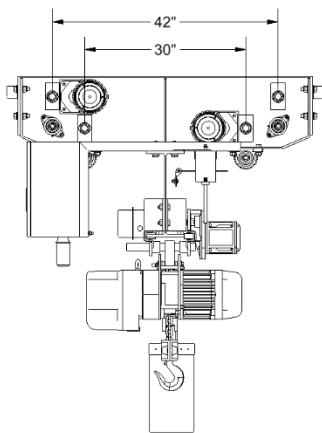
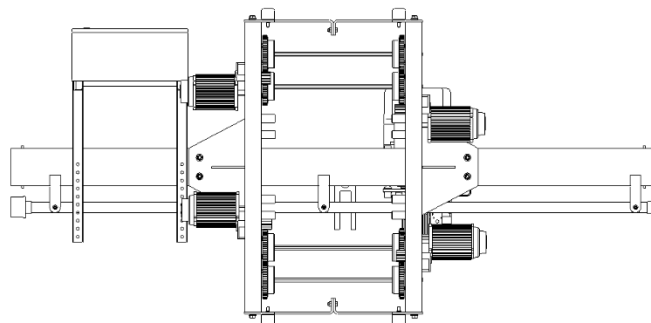
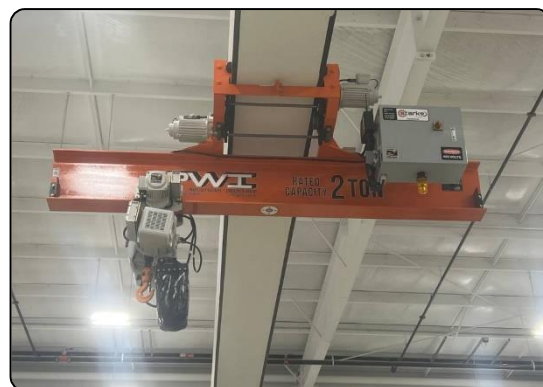
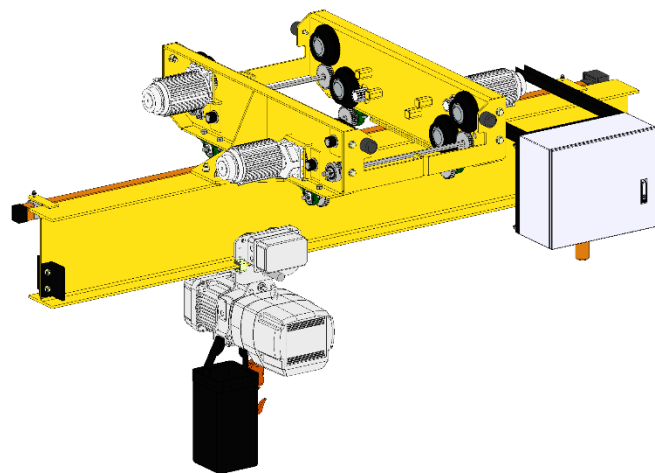


Product Description

- Bridge crane rolls on wide flanged beam bottom flanges
- Utilizes one runway for large span systems that only require minimal hoist trolley travel

Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton
- Span: 5'-15'
- Starke SCU end trucks
- Radio Controlled
- End truck wheels include ball bearings



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Telescoping Motorized Single Girder Bridge Crane

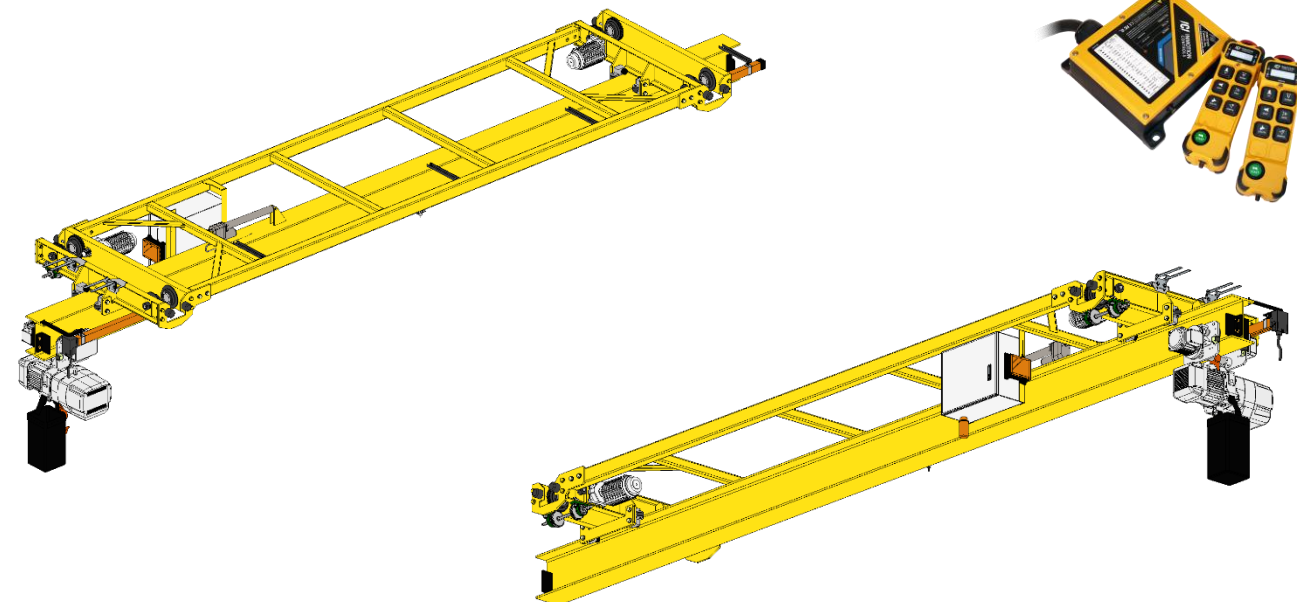
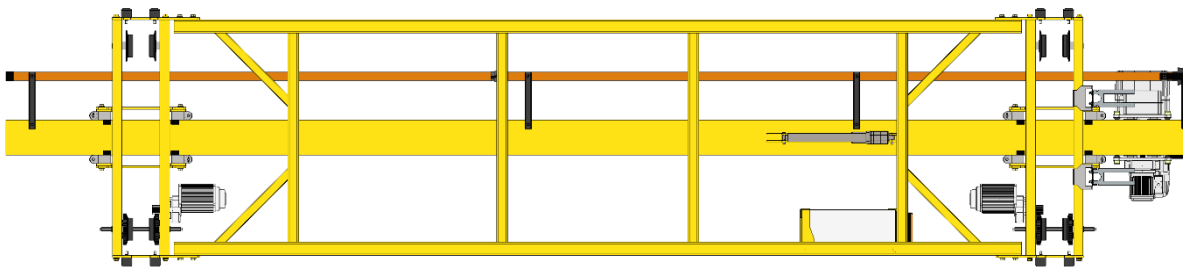


Product Description

- Under running crane upgrade that provide additional coverage around to adjacent workspaces without installation of another crane system.

Product Features

- Capacity: 1 T, 2 T, 3 T, 5 T, 6 T, 7.5 T, 8 T, 10 T
- Span: 10'-60'
- Starke SCU end trucks
- Radio Controlled
- Optional Pneumatic or Electric Telescoping
- Sub Frame to connect end trucks
- End truck to girder rollers allow girder to telescope.



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Under Running Motorized Bridge Interlock



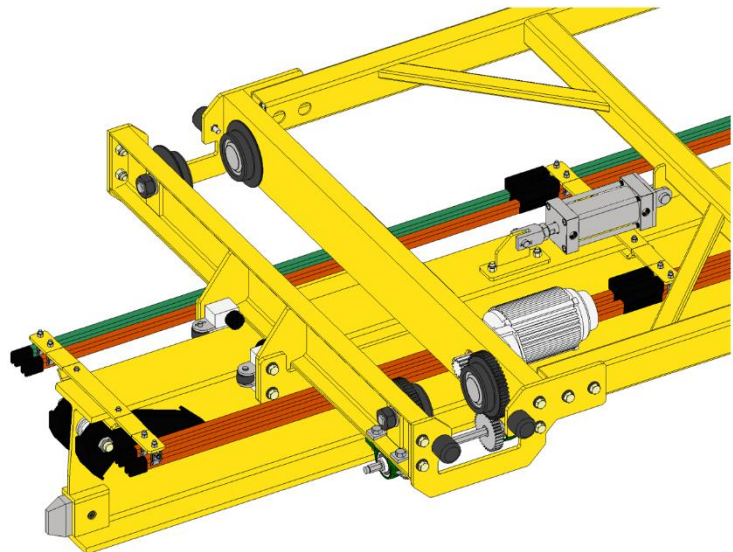
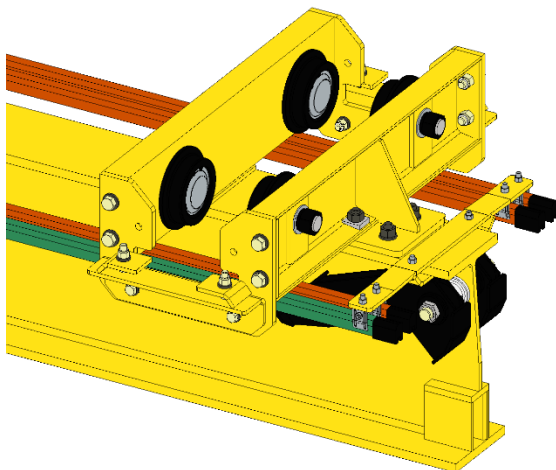
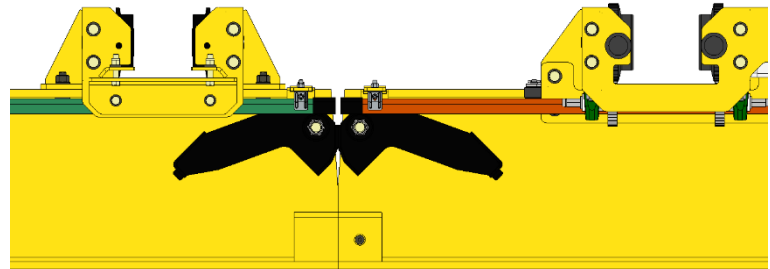
Product Description

- Mechanism that successfully aligns and locks two bridges in place so that the trolley and hoist can travel from one bridge to another successfully transferring loads across a workspace.



Product Features

- Capacity: 1 T, 2 T, 3 T, 5 T, 6 T, 7.5 T, 8 T, 10 T
- Optional interlocking a bridge crane to a monorail or another bridge crane
- Allows for interlocking at any point where both bridges are aligned
- Starke SCU end trucks
- Radio Controlled
- Optional Pneumatic or Electric Telescoping
- Self-aligning blade
- Sub Frame to connect end trucks
- End truck to girder rollers allow girder to Quiet/Smooth operation
- End stops on both sides of beam
- Gapless bottom flange when locked



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Under Running Manual Bridge Interlock

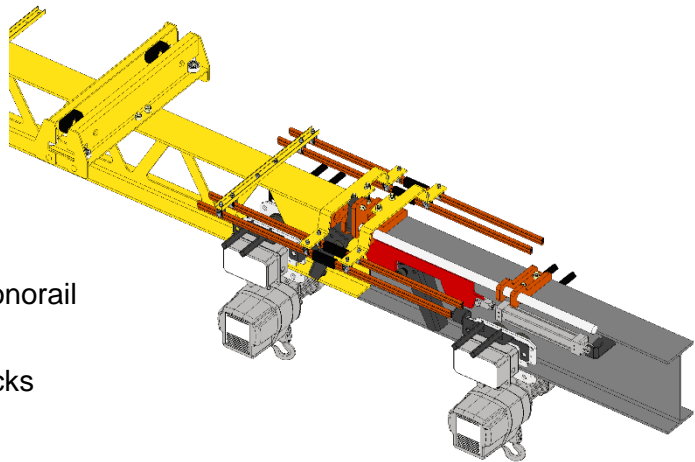


Product Description

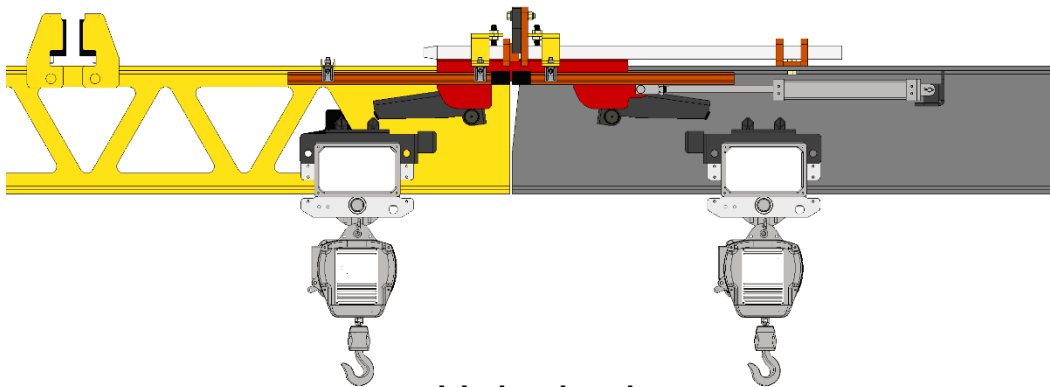
- Mechanism that successfully aligns and locks two bridges in place so that the trolley and hoist can travel from one bridge to another successfully transferring loads across a workspace.

Product Features

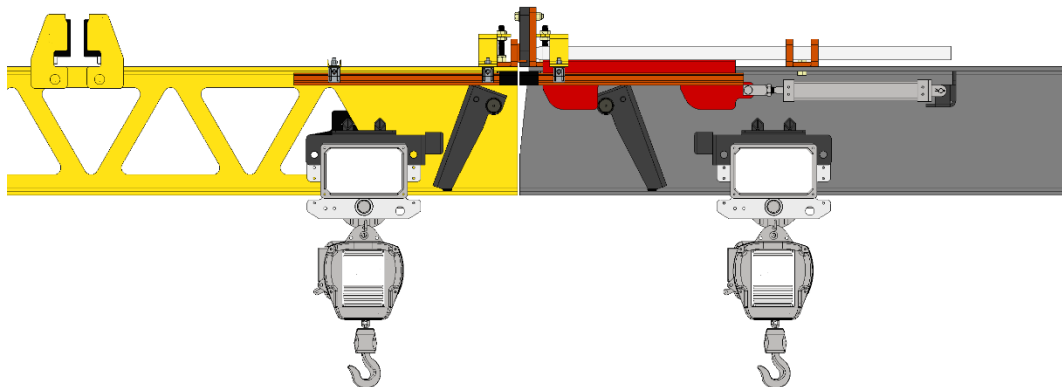
- Capacity: ¼ T, ½ T, 1 T, 2 T, 3 T
- For interlocking a bridge crane to a monorail
- Self-aligning pin
- Less expensive
- End stops only on one side of beams
- Tight clearance required between bridge and monorail
- ¼" Gap on bottom flange whole locked
- Optional Starke SCU end trucks or PZU end trucks
- Radio Controlled
- No subframe required
- Pneumatic



Locked



Unlocked



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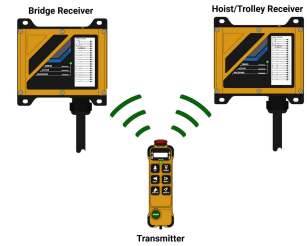


Top Running Motorized Runway Interlock



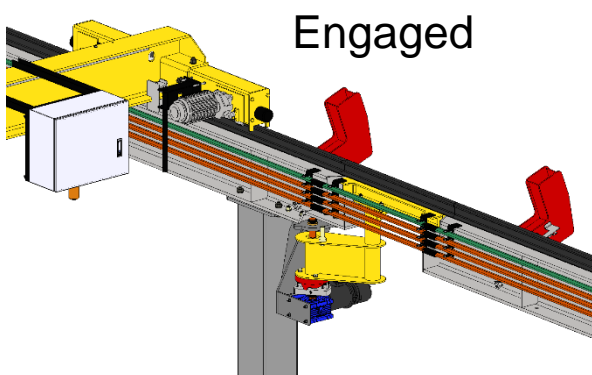
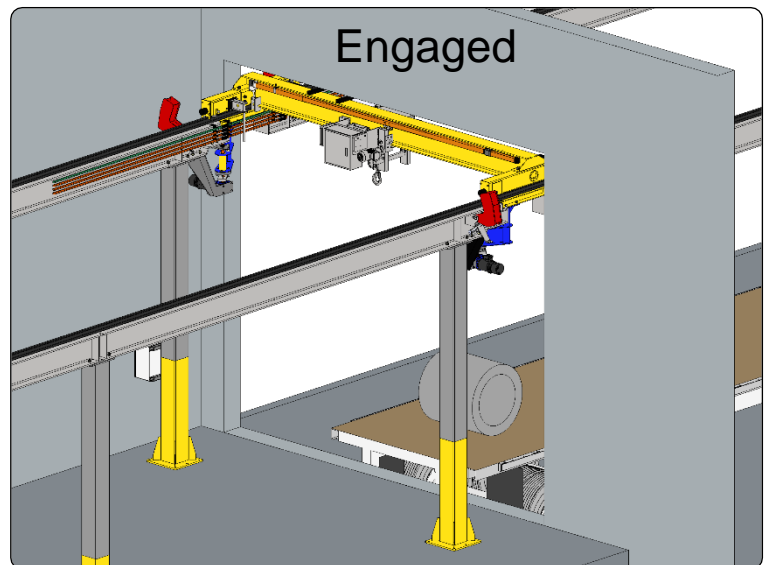
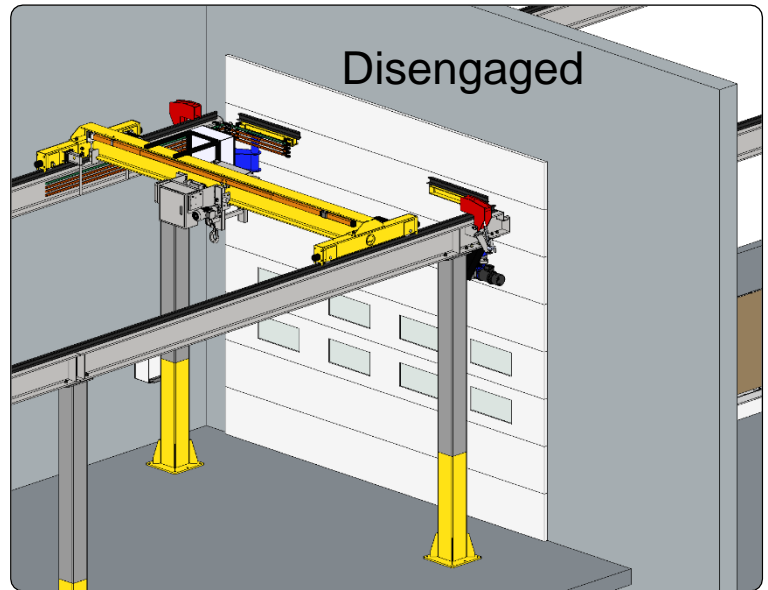
Product Description

- Top running interlock system that allows for an overhead door to pass through runway.
- Applications:
 - Indoor – Outdoor crane system
 - Dock flat bed load / unload
 - Paint Booth enclosure
 - Wash Bay enclosure
 - Maximize existing square footage



Product Features

- Radio controlled for interlock position
- 1 Ton – 50 Ton Runway Capacity
- Accommodates any ASCE rail size
- System Voltage: 460v/3ph
- 90deg. Interlock Rotation
- Powered End Stops
- Includes custom control panel with PLC to control all functions of interlock and end stops to ensure safety and compliance.
- Proximity sensors always ensure position of all components.
- Safety: End stops need to fully open or fully close prior to interlock (Unlock / Lock).



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Under Running Bridge To Monorail Interlock

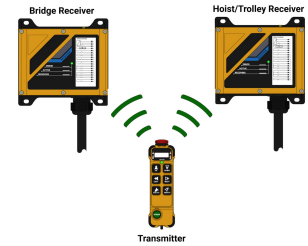


Product Description

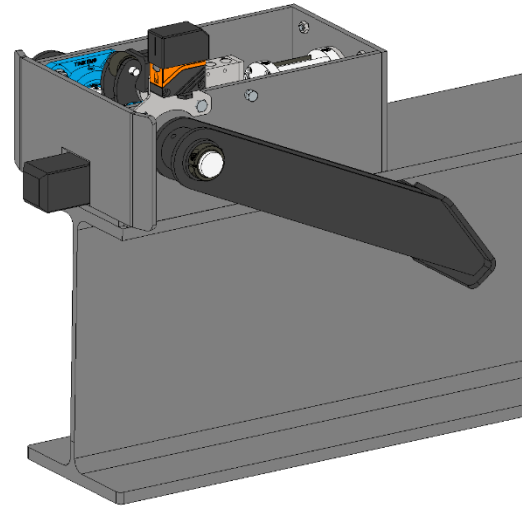
- Interlock system that allows a moving bridge to interlock with a fixed monorail section.

Product Features

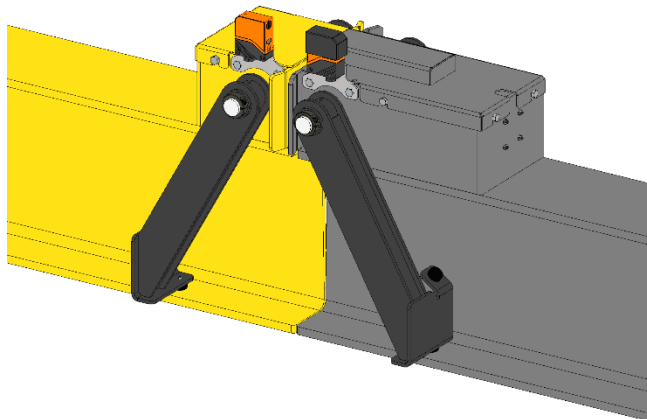
- Capacity: up to 15 ton
- For interlocking a bridge crane to a monorail or transfer zone
- Self-aligning 2" x 2" square locking pin
- Tight clearance required between bridge and monorail
- 1/8" – 1/4" Gap on bottom flange when locked
- Compatible with Starke SCU end trucks
- Radio Controlled
- No subframe required
- Pneumatic cylinder
- Indicator light on bridge will activate when bridge and transfer zone are aligned to activate the interlock locking pin



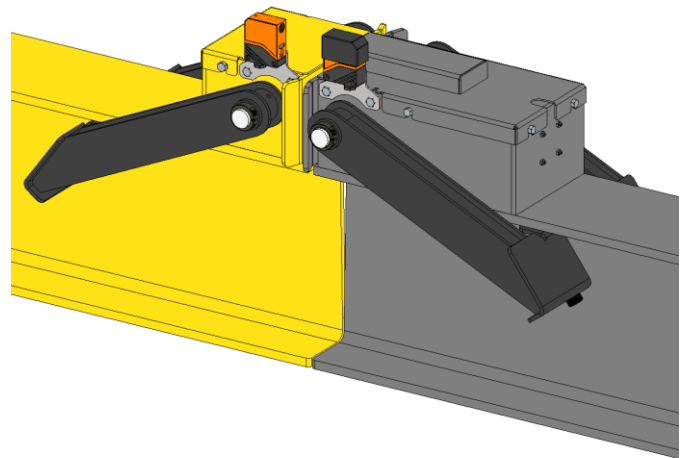
Engaged



Disengaged



Engaged



Under Running Crane Interlock



Cranes

Cranes

Mezzanine

Mezzanine

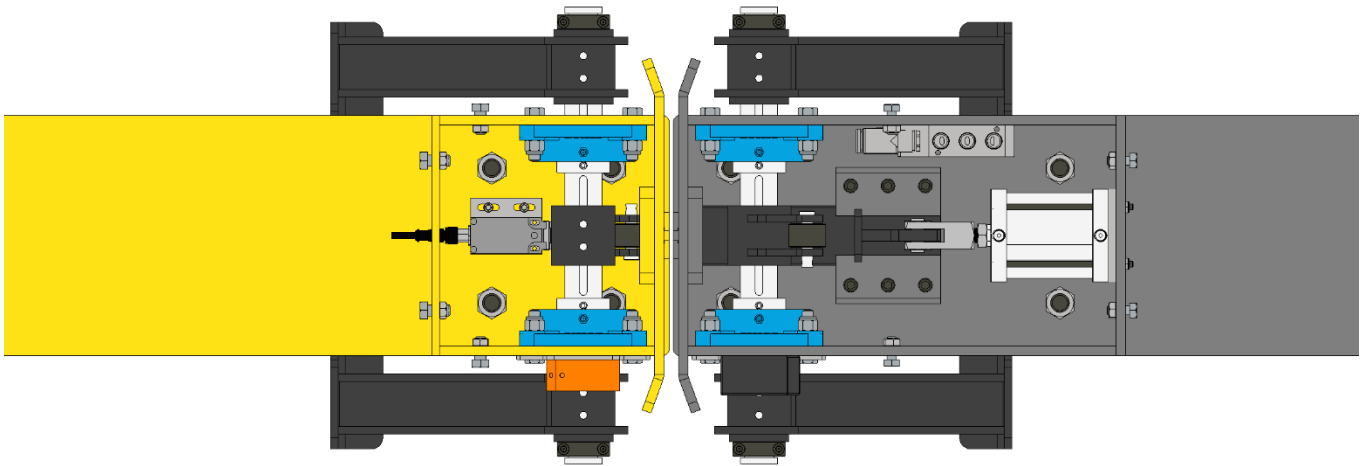
Fall Protection

Fall Protection

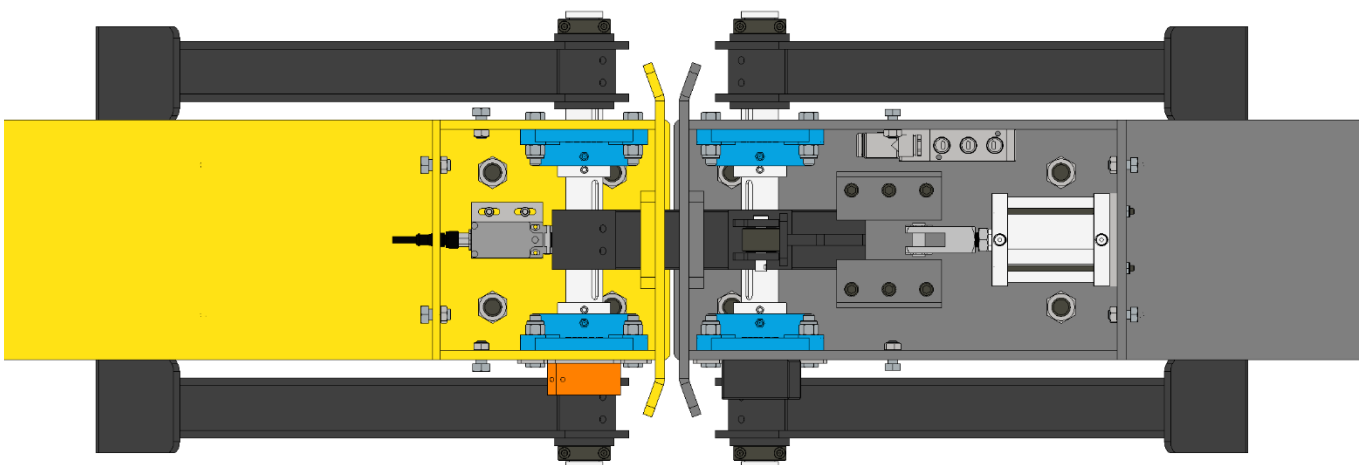
Smart Solutions

Smart Solutions

Disengaged



Engaged



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Under Running Crane Interlock



Cranes

Mezzanine

Fall Protection

Smart Solutions

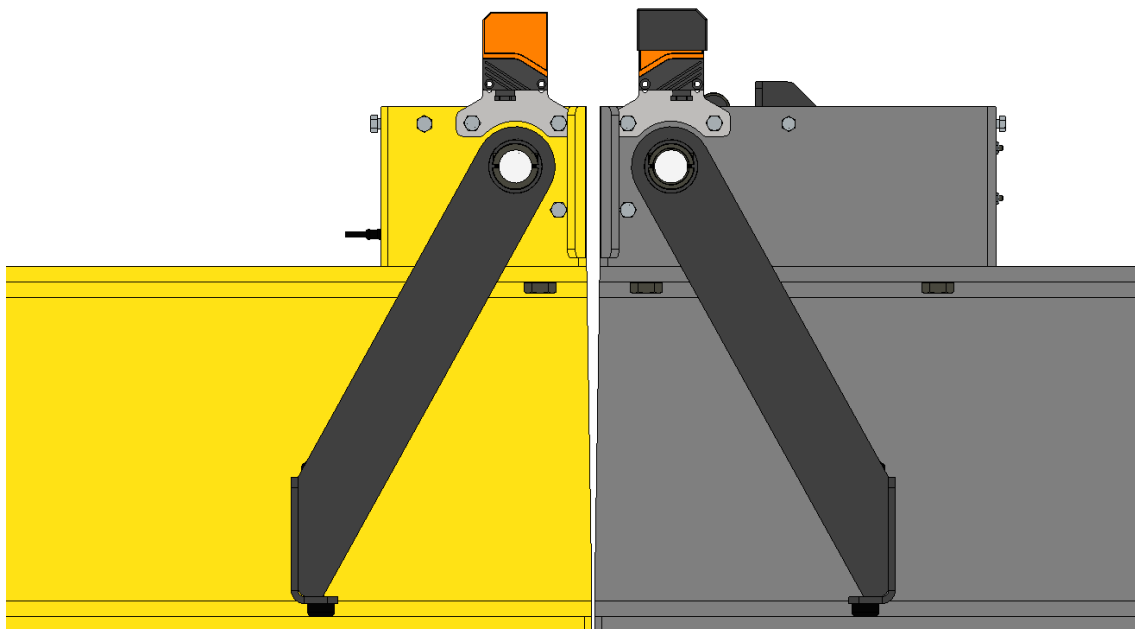
Cranes

Mezzanine

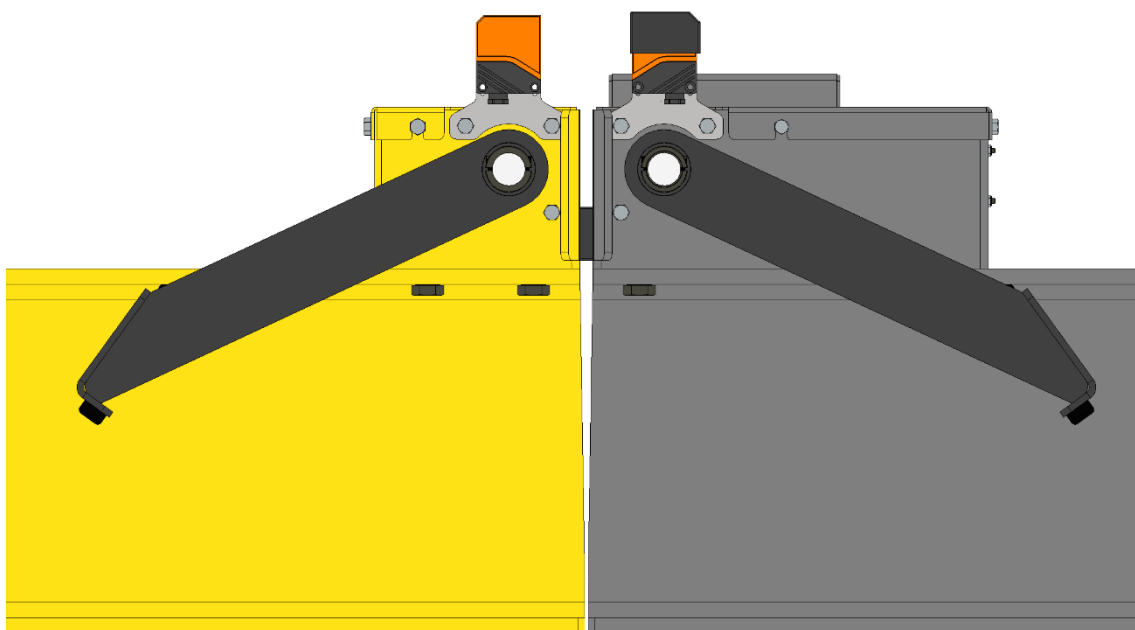
Fall Protection

Smart Solutions

Disengaged



Engaged



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Automated Production Crane

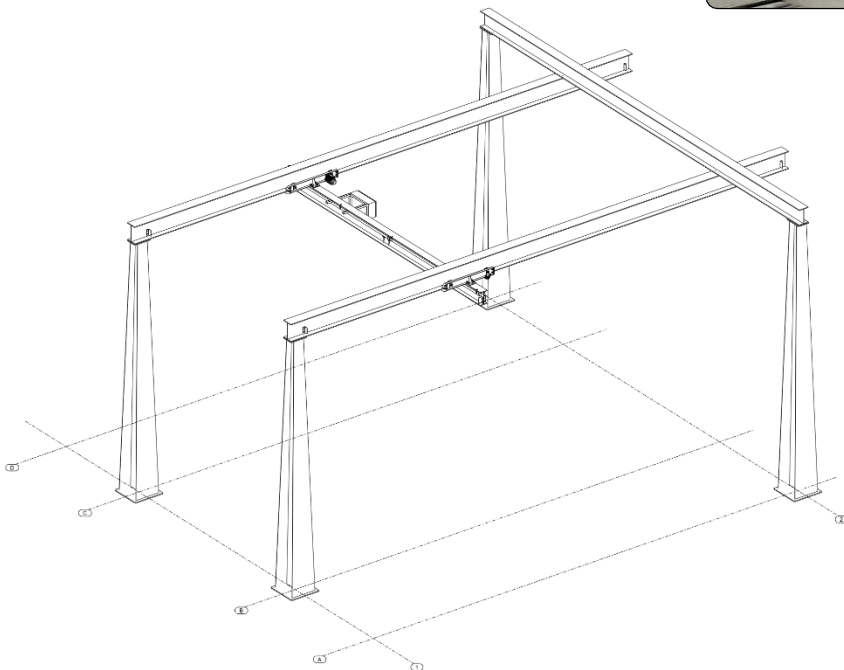


Product Description

- This upgrade can be added to any crane system through the addition of a custom control panel with PLC to provide automated lifting capabilities.

Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton
- Span: 10'-70'
- Bridge travel automated stops: A/B/C/Home
- 480V/3 phase



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Bulk Bag Lifter System

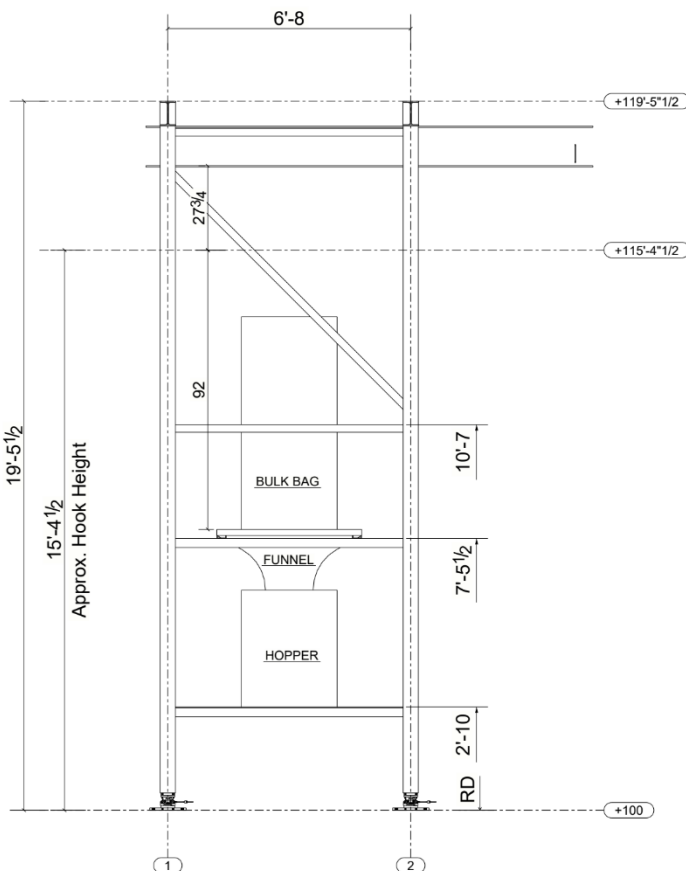
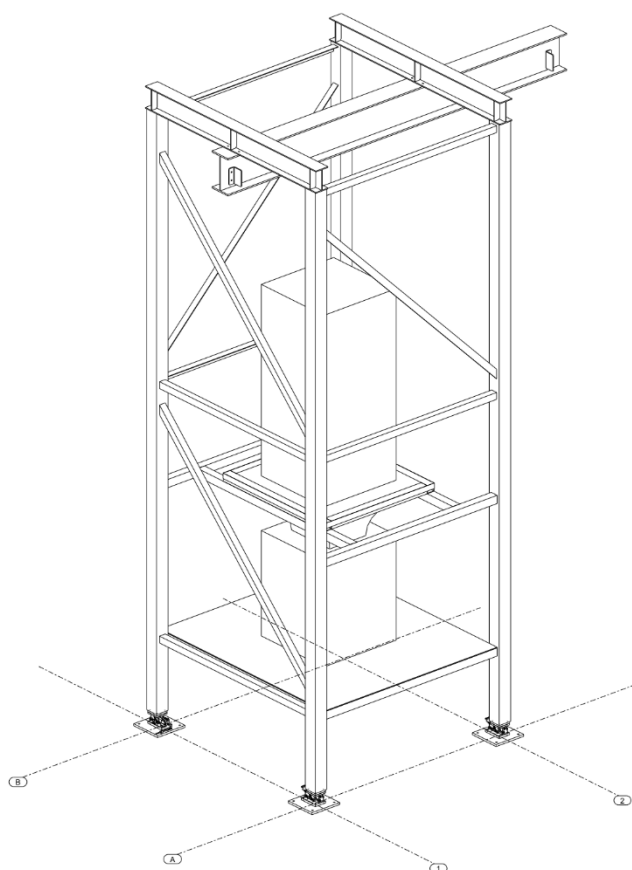


Product Description

- Freestanding monorail system with motorized trolley.
- Specifically designed for bulk bag material loading and unloading.

Product Features

- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton
- 480V/3 phase
- (4) Load Cells mounted at column base



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Decking Lifter

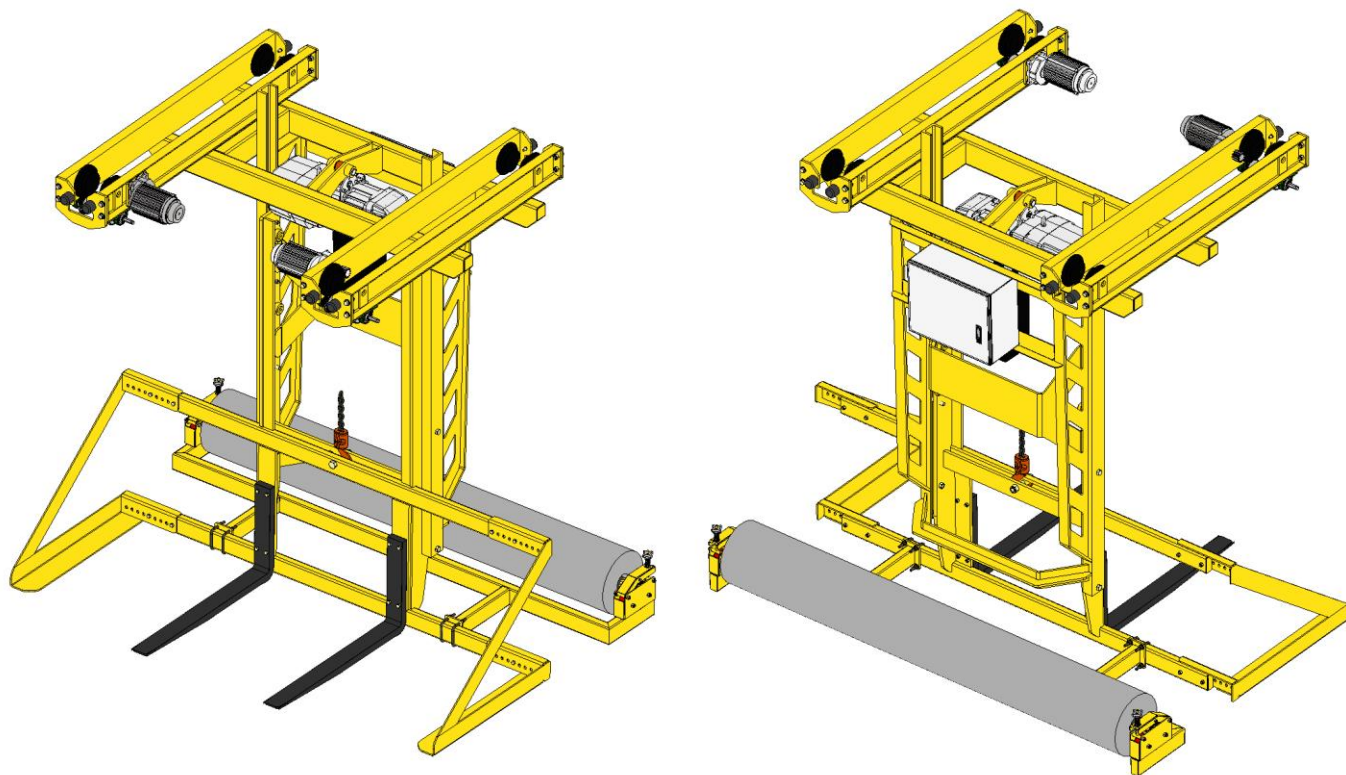


Product Description

This product allows the worker to transport large loads of decking (plywood, OSB, etc.) or pallets of other material from a mezzanine to the manufacturing space, without the need to haul the material by hand.

Product Features

- 2 Ton, 3 Ton
- Rear Foil Rack



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Decking Lifter

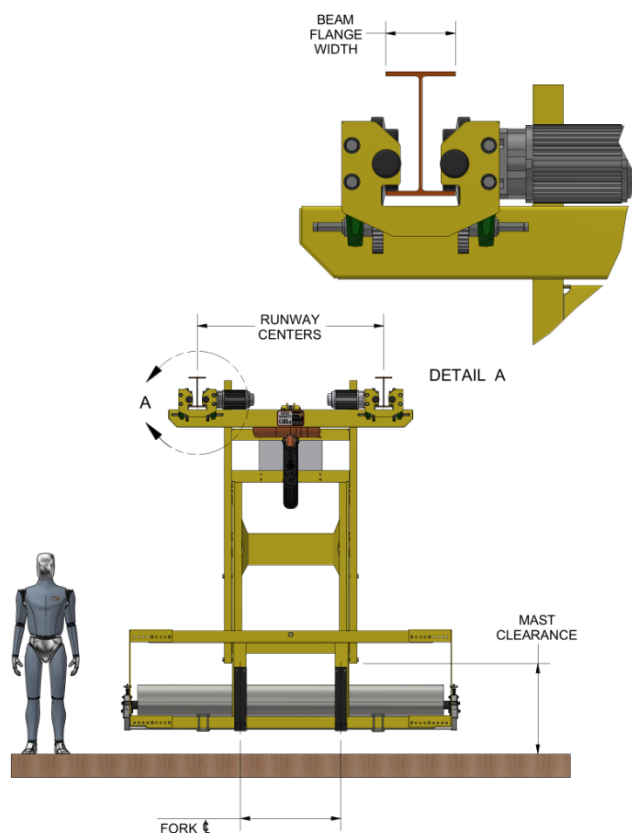
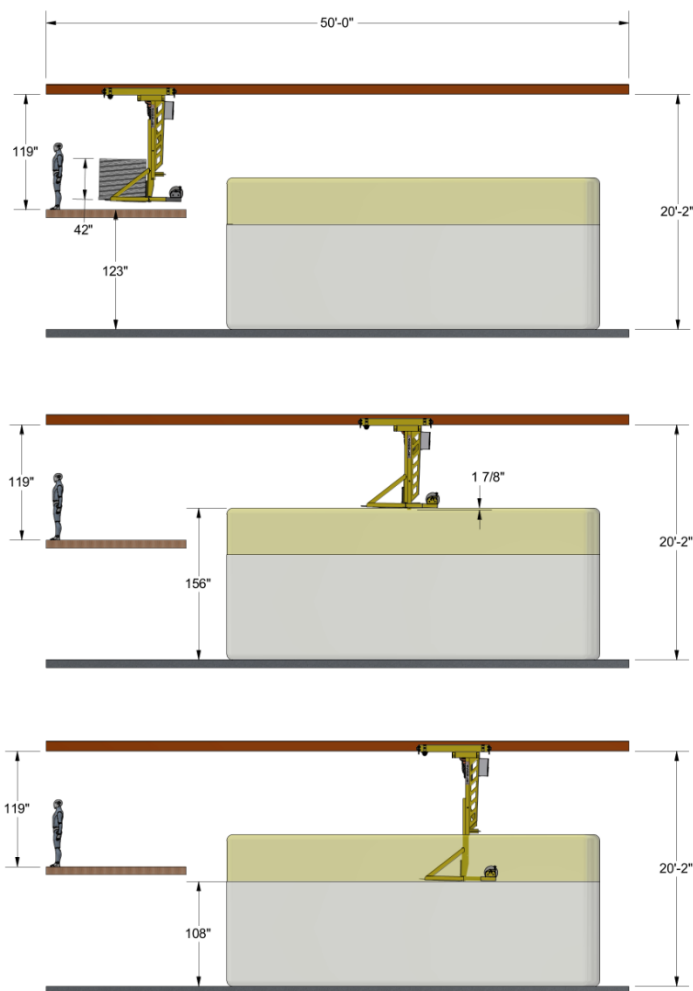


Product Description

This product allows the worker to transport large loads of decking (plywood, OSB, etc.) or pallets of other material from a mezzanine to the manufacturing space, without the need to haul the material by hand.

Product Features

- 2 Ton, 3 Ton
- Optional Rear Fork Rack



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Monorail Cart

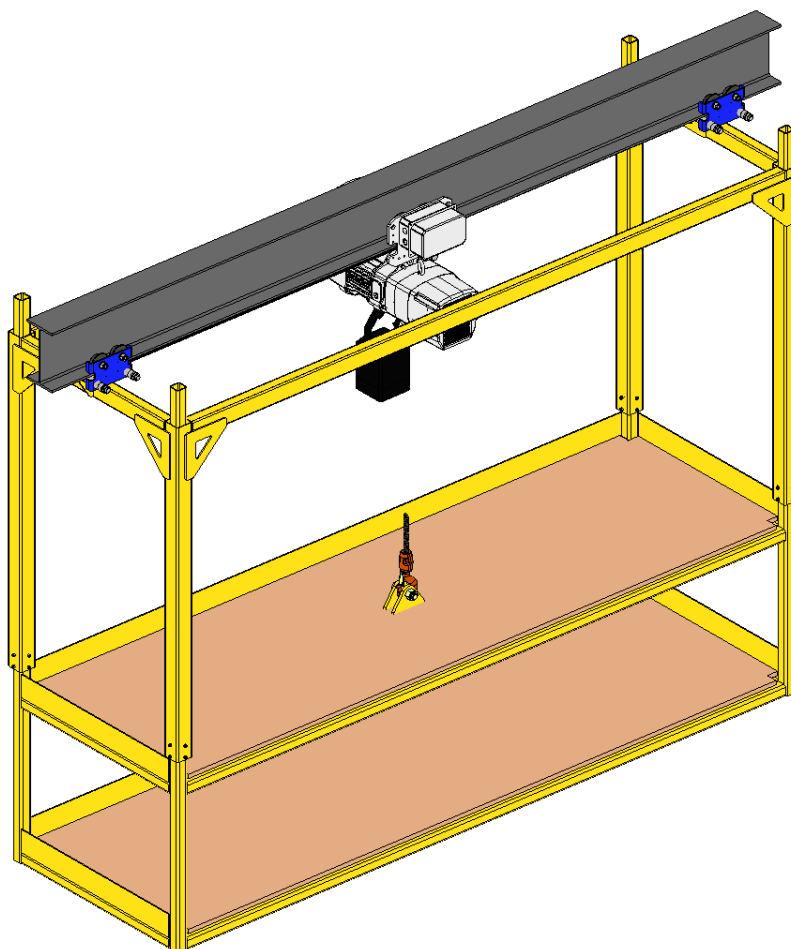


Product Description

This cart can be used to transport loaded tools and materials to and along the workspace. This allows the employee to work efficiently, without needing to carry items to and from the workspace.

Product Features

- 8'-10' Length
- 3' Width
- Motorized or manual trolleys
- 1000lb. Lifting Capacity
- Short lip along 3 sides of each shelf to prevent items from sliding off
- Total Height Adjustability: 2' 6"
- Remote Operated
- Designed in accordance with ASME B30.2 Below-The-Hook Lifting Devices



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Runway Cart

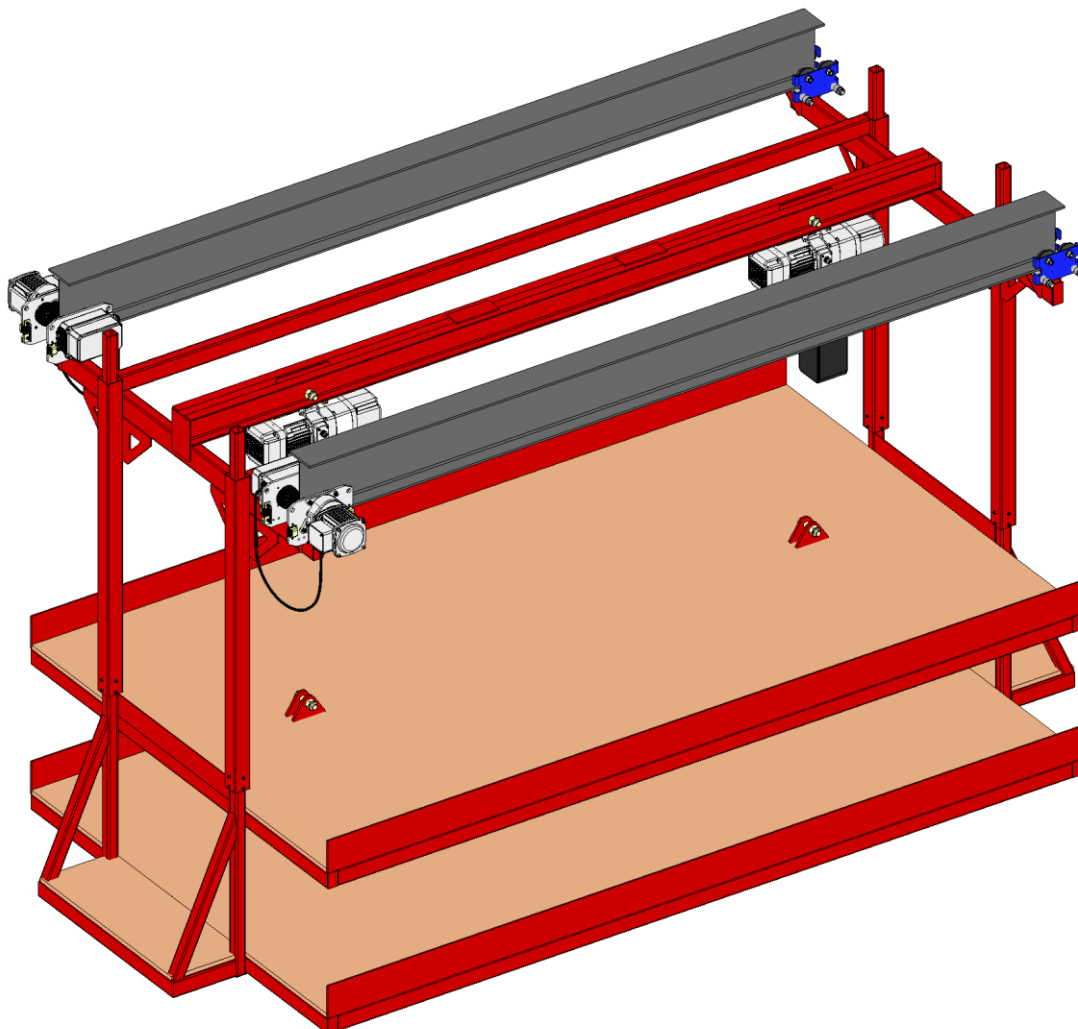


Product Description

This cart can be used to transport loaded tools and materials to and along the workspace. This allows the employee to work efficiently, without needing to carry items to and from the workspace. The runway cart more is stable and gives a larger storage space than the monorail cart.

Product Features

- 12' Length
- 6' Width
- Motorized trolleys
- 800lb. Lifting Capacity
- Short lip along sides of each shelf to prevent items from sliding off
- Designed in accordance with ASME B30.2 Below-The-Hook Lifting Devices



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Stationary Decoiler



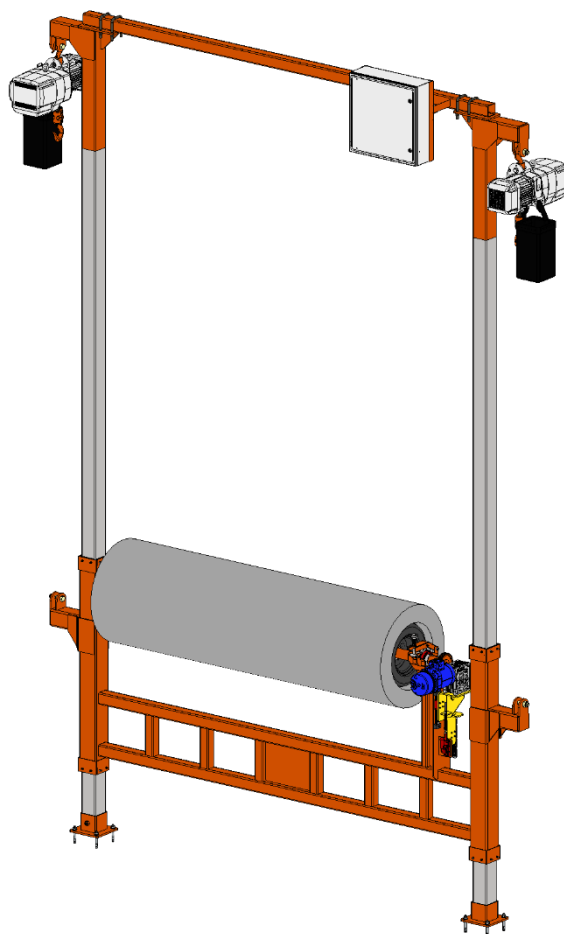
Product Description

- This product is used to safely dispense a roll of material onto a working surface such as a build table or trailer roof.
- The hoisting feature allows it to accommodate any dispensing height required.



Product Features

- **Coil Width:** 103"
- **Coil ID:** 19.5"
- **Coil OD:** 30"
- **Lifting Capacity:** 4,000#
- **Lift Height:** 14'
- **Power Supply:** (460V)
- **Lifting Speed:** 26 fpm
- **Rotation/Decoiling Speed:**



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Traveling Decoiler



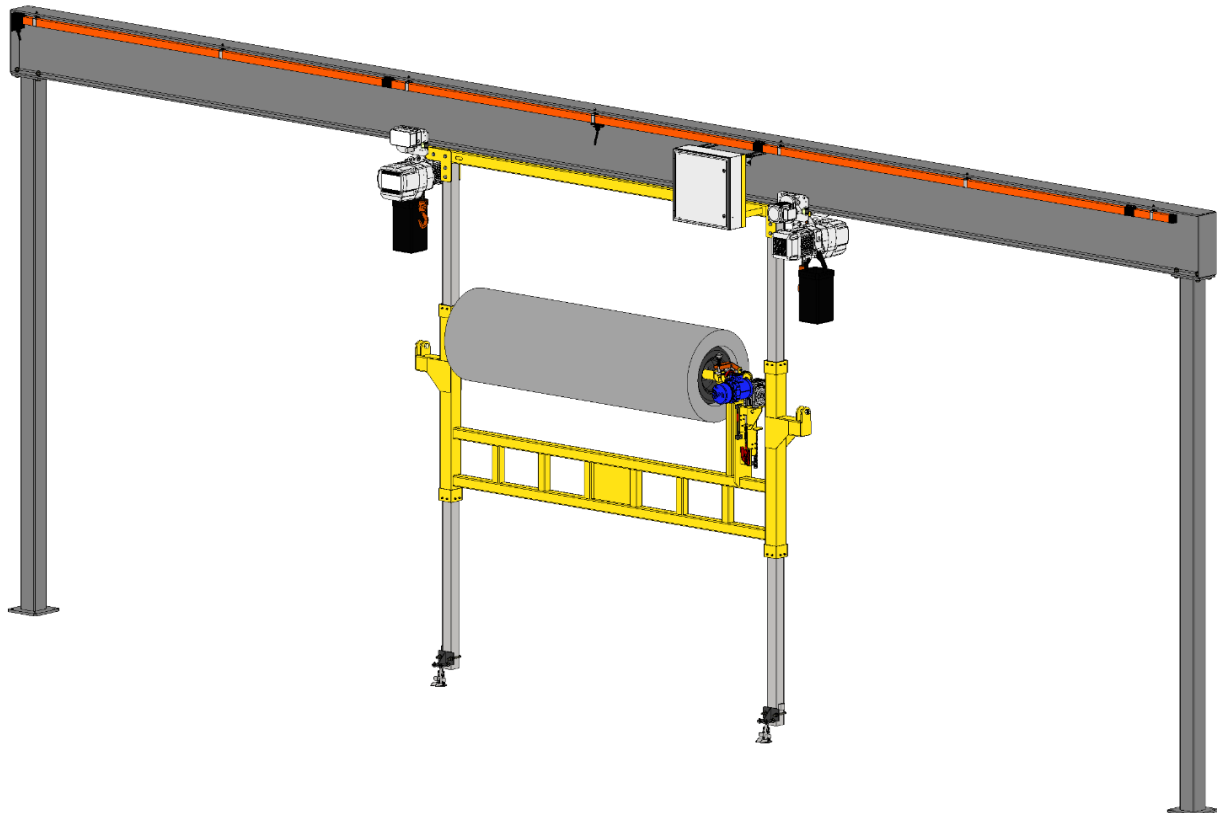
Product Description

- This product is used to safely dispense a roll of material onto a working surface such as a build table or trailer roof.
- The hoisting feature allows it to accommodate any dispensing height required.
- Travels side to side for coil loading/unloading away from a single file production line.



Product Features

- **Coil Width:** 103"
- **Coil ID:** 19.5"
- **Coil OD:** 30"
- **Lifting Capacity:** 4,000#
- **Lift Height:** 14'
- **Power Supply:** (460V)
- **Lifting Speed:** 26 fpm
- **Rotation/Decoiling Speed:** variable



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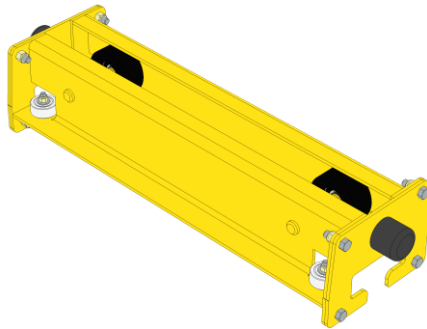
Overhead Crane End Trucks



Manual

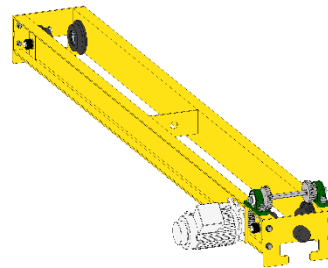
Motorized

PZT – Top Runner

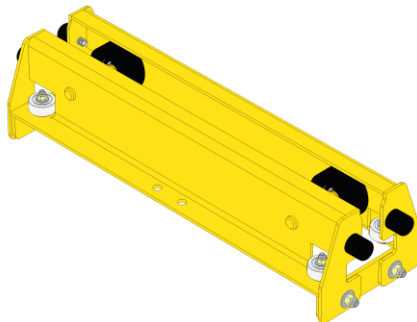


ULTRALITE
SERIES

SCT – Top Runner

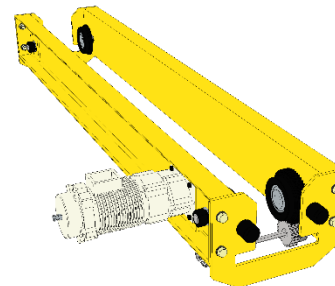


PZU – Under Running

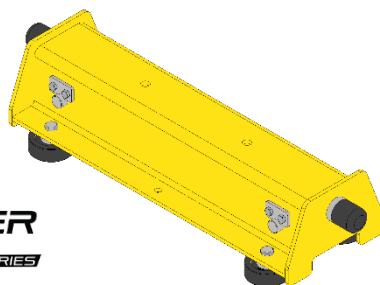


ULTRALITE
SERIES

SCU – Under Running



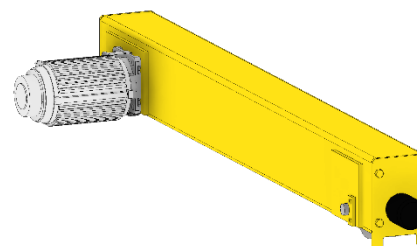
PHT - Tube End Truck



HYPHER
LITE SERIES

GARAGE
SERIES

STT – Top Running



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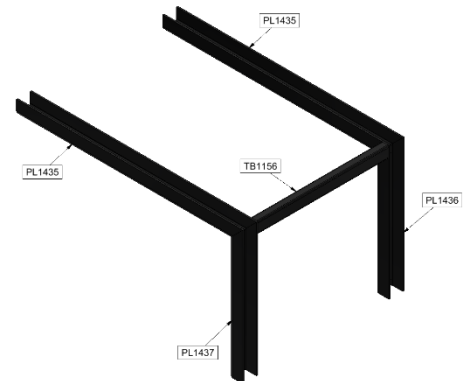
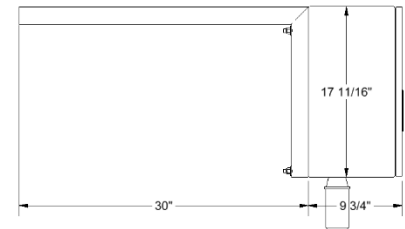
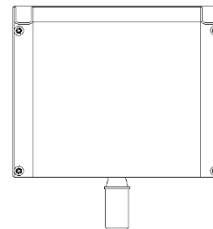
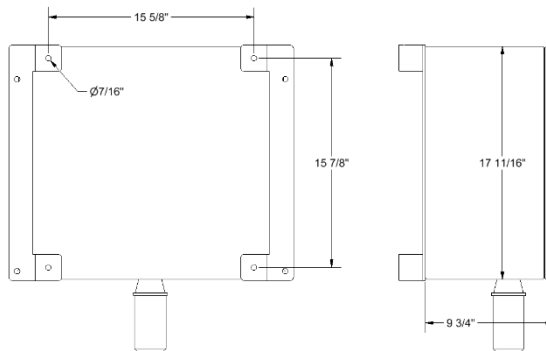
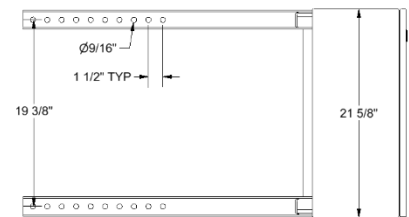
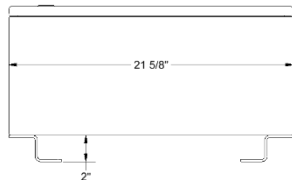
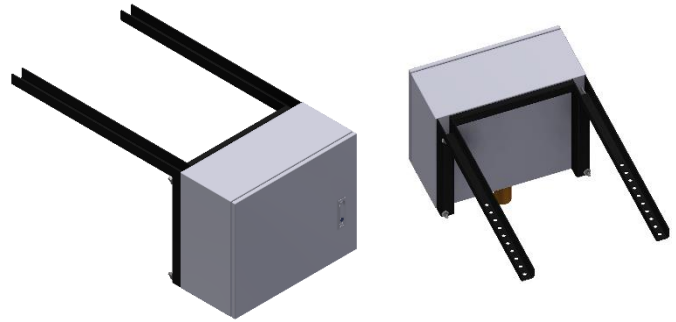
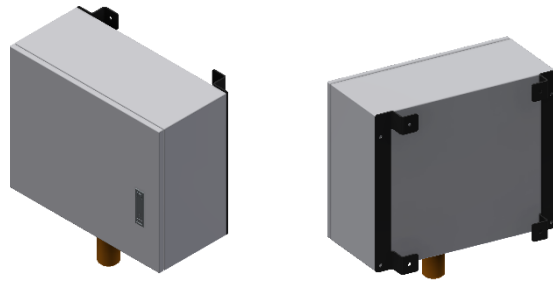


Bridge Control Panel Mounting Options



Side Mounted

Top Mounted



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Control Options



Cranes

Mezzanine

Fall Protection

Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions

Controls Type	Single or 2 Speed	Full Variable Control
Wireless		
Pendant		

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Control Options



Cranes

Cranes

Mezzanine

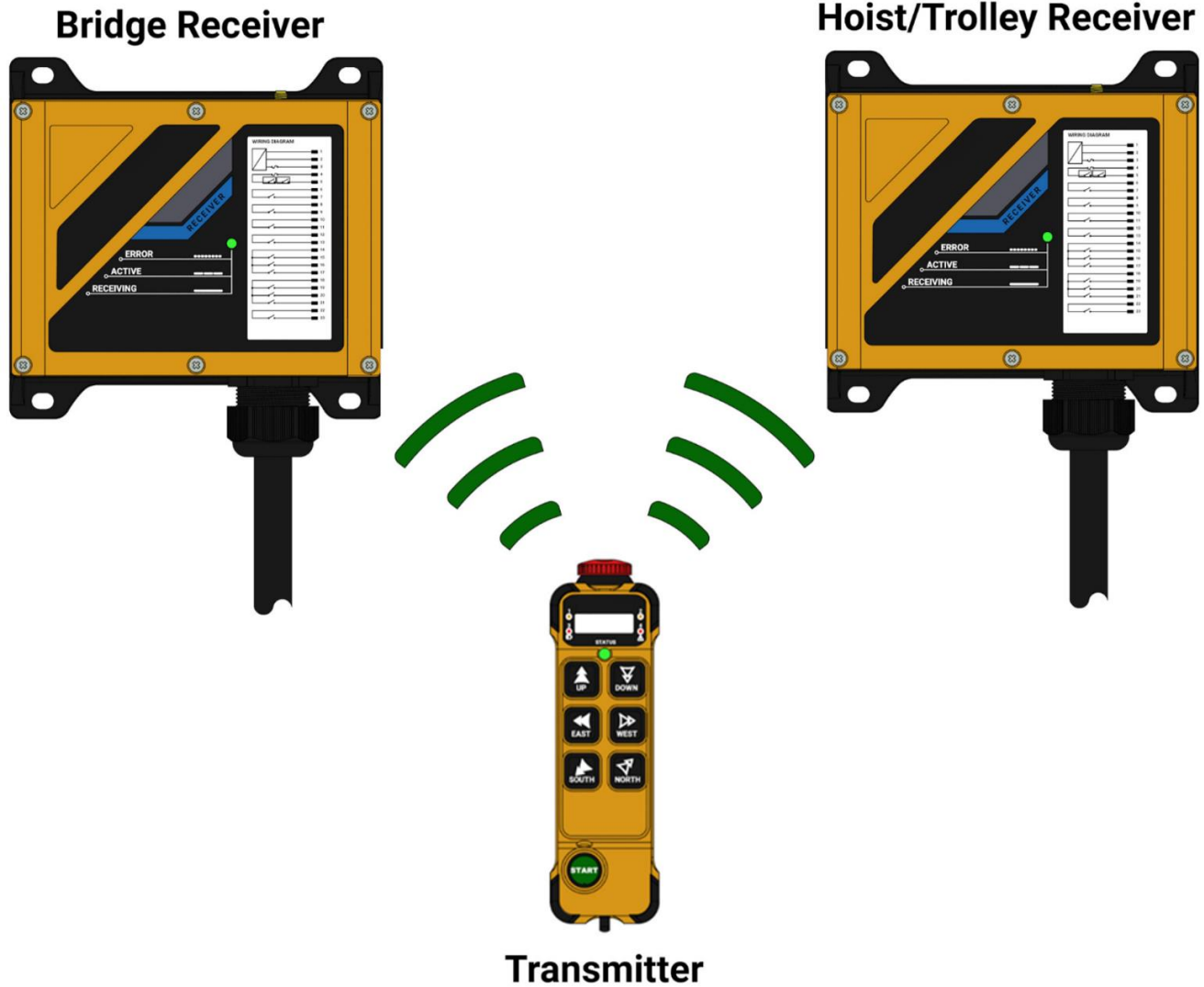
Mezzanine

Fall Protection

Fall Protection

Smart Solutions

Smart Solutions



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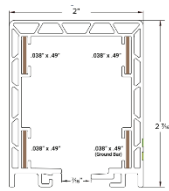


Power Supply Options



Cranes

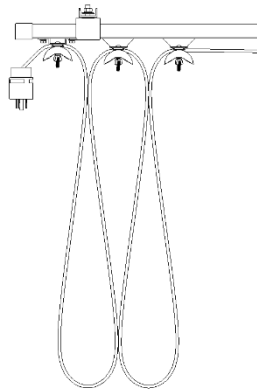
Starke
Elektrotrack



Cranes

Mezzanine

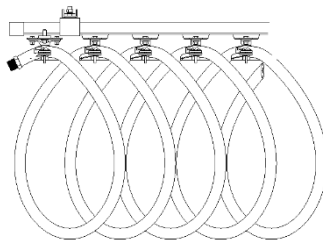
Starke
Festoon



Mezzanine

Fall Protection

Starke
Air Festoon



Fall Protection

Smart Solutions

Smart Solutions

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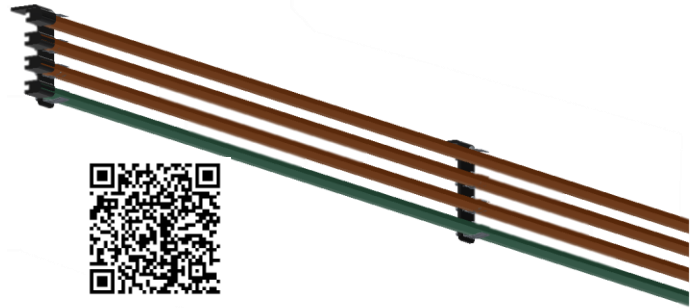
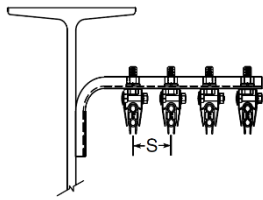
Power Supply Options



Cranes



Duct-O-Bar

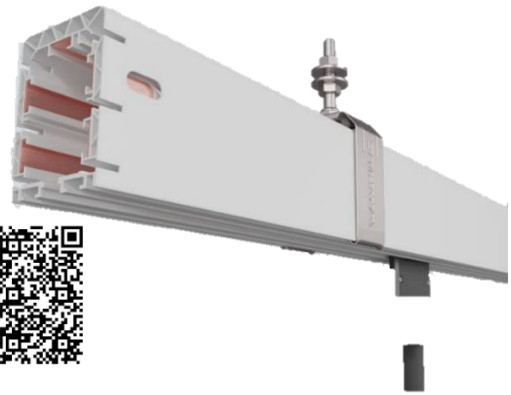
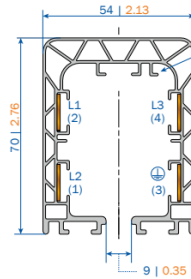


Cranes

Mezzanine



Enclosed Conductors



Mezzanine

Fall Protection

Fall Protection

Smart Solutions

Smart Solutions

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Bridge Crane Buffer



Product Description

- Limits travel between adjacent hoists or bridges to maximize bridge or runway capacity

Product Features

- Options:
 - Top Runner Bridges
 - Top Runner Runways
 - Underhung Bridges
 - Underhung Runways



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Manual Bridge I Beam Brake



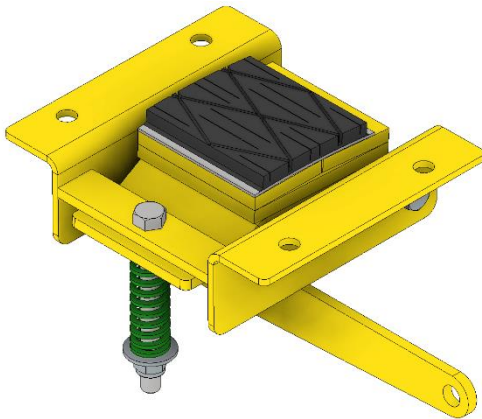
Product Description

- Manual Bridge Brake

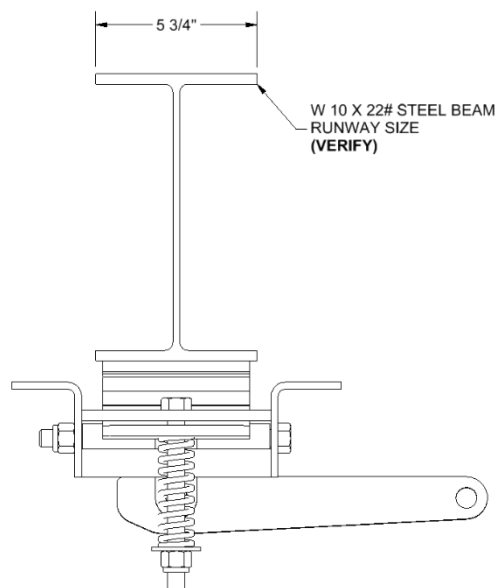
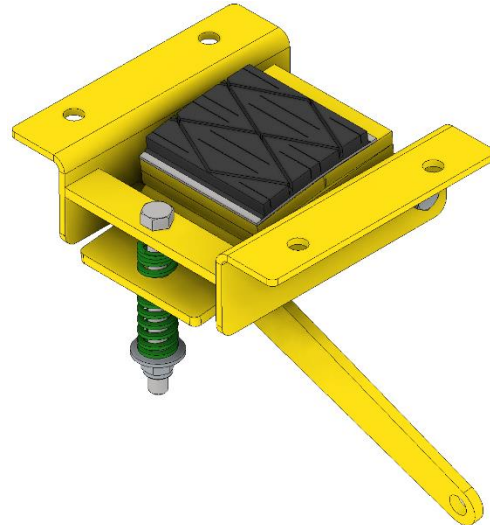
Product Features

- Compatible with PZU End Trucks

Engaged



Disengaged



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Stationary Under Running Side Guide Roller



Product Description

- Side Guide Roller

Product Features

- Stationary Side Guide Rollers



Cranes

Cranes

Mezzanine

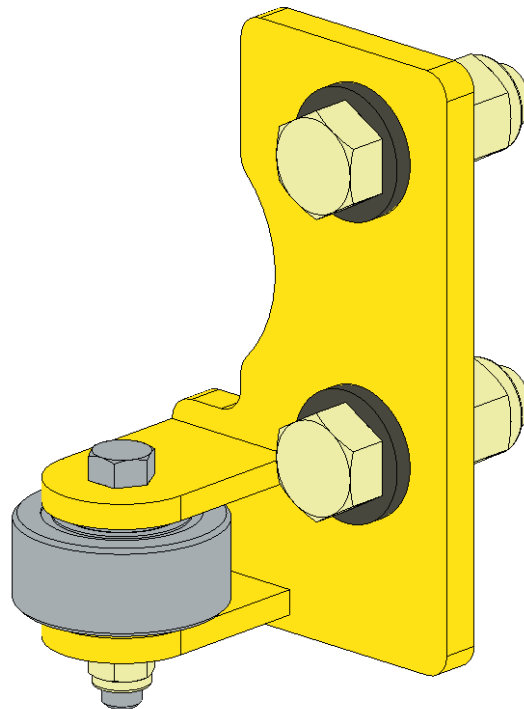
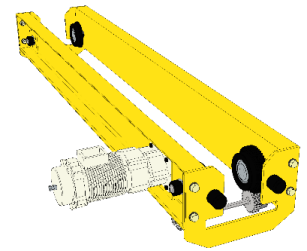
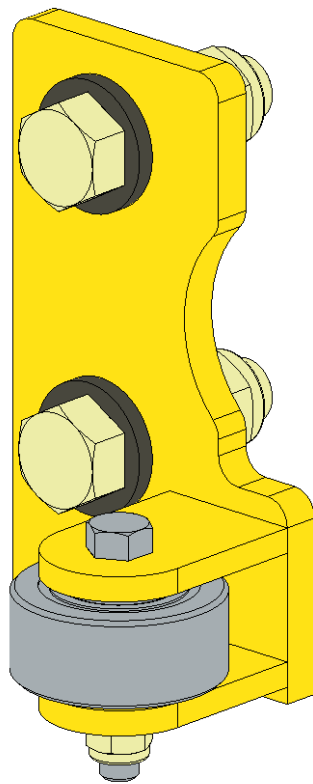
Mezzanine

Fall Protection

Fall Protection

Smart Solutions

Smart Solutions



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Adjustable Under Running Side Guide Roller



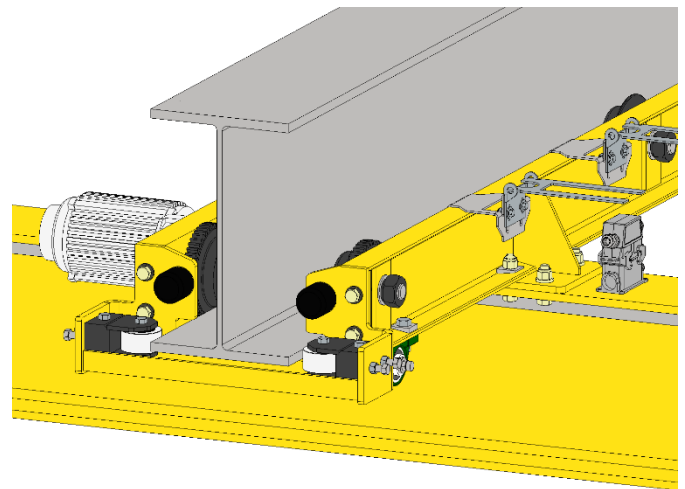
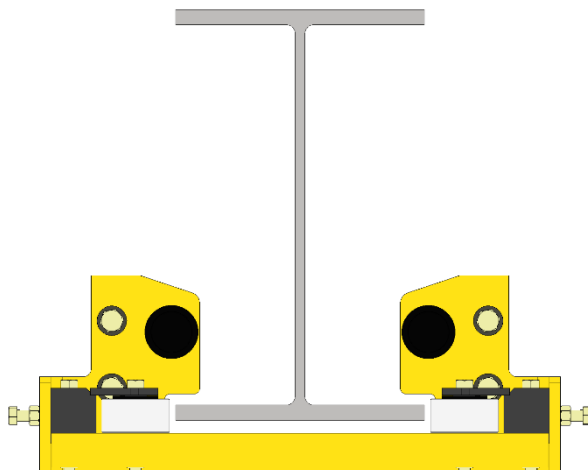
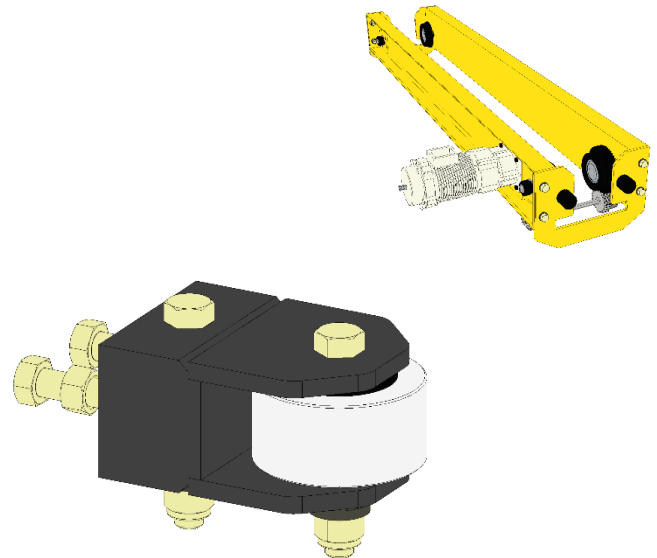
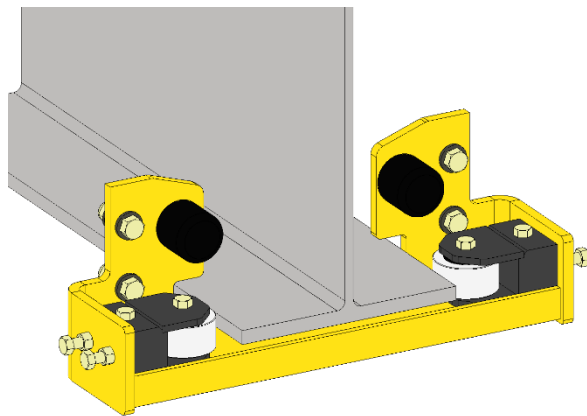
Product Description

- Adjustable side guide roller for Starke SCU Under Running End trucks on Wide Flange beams



Product Features

- Compatible with SCU End Trucks
- Adjust bridge girder alignment with monorail / interlocks



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Starke 300 Series Brake

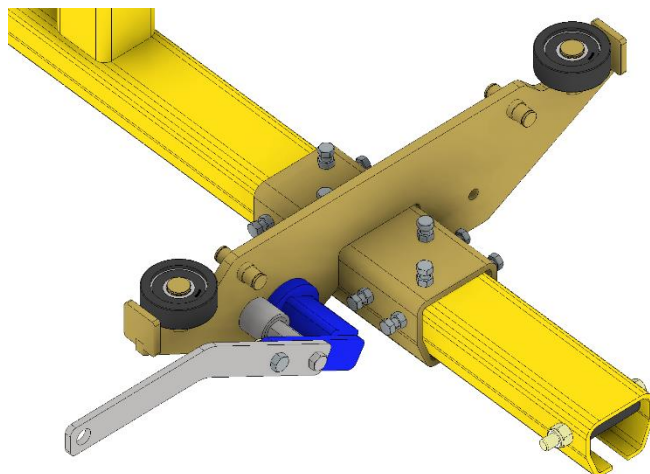
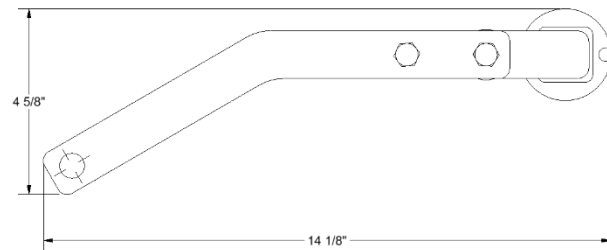
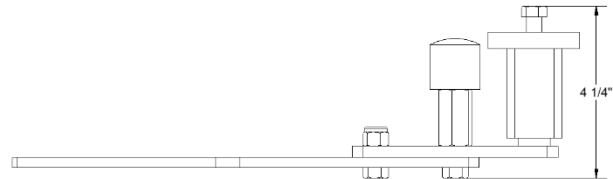
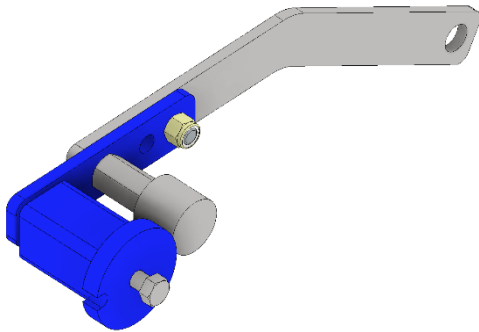


Product Description

- Parking brake system that can be added to any PWI Hyperlite bridge crane system.
- Provides the user with a method of holding the bridge in place for specific applications.

Product Features

- Compatibility:
 - Starke End Trucks
 - Crosswalks



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Bridge End Stops

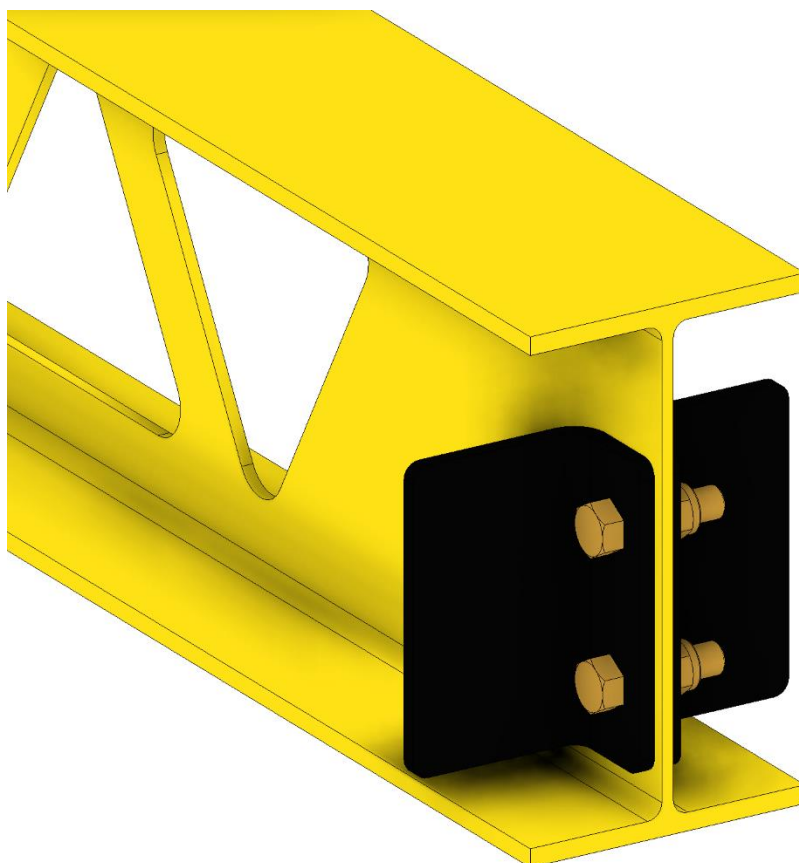


Product Description

- Web Bolted End Stops

Product Features

- Formed plate
- Small, medium per beam height



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Bridge End Stops



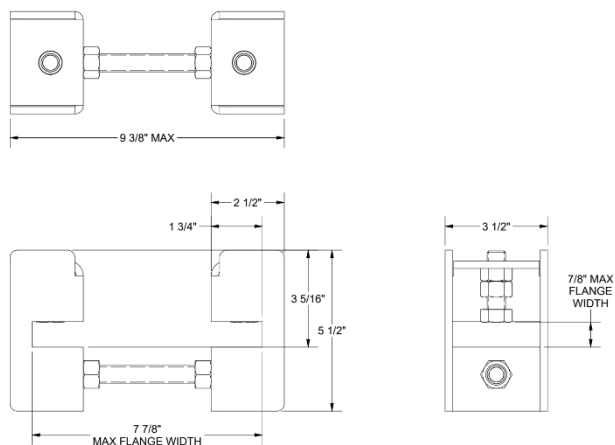
Product Description

- Clamp Style End Stops

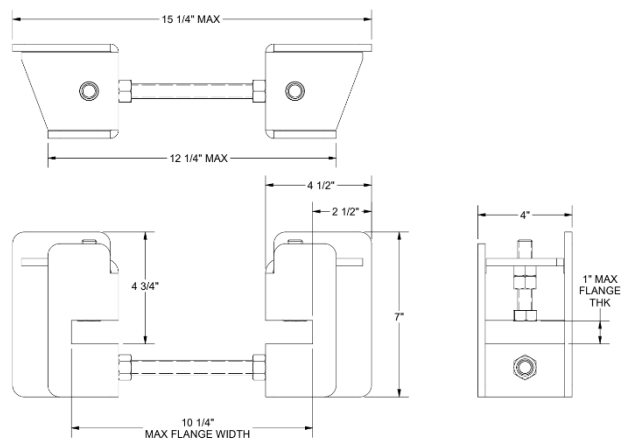
Product Features

- Clamped to bottom flange
- Adjustable placement
- Small, medium, large per beam flange

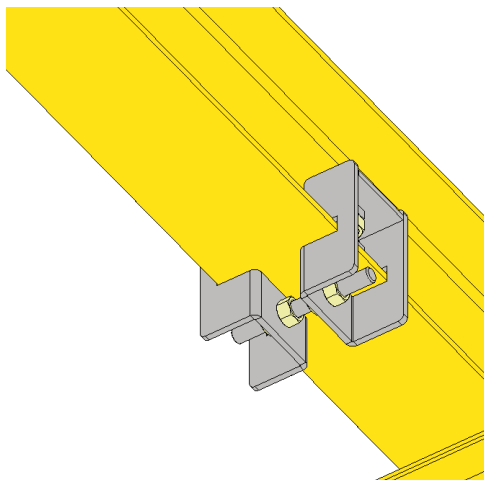
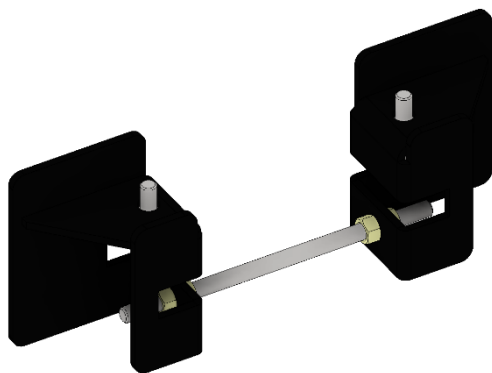
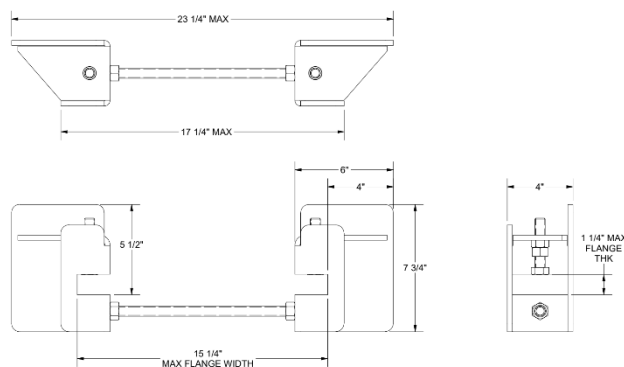
Small



Medium



Large



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Runway End Stops

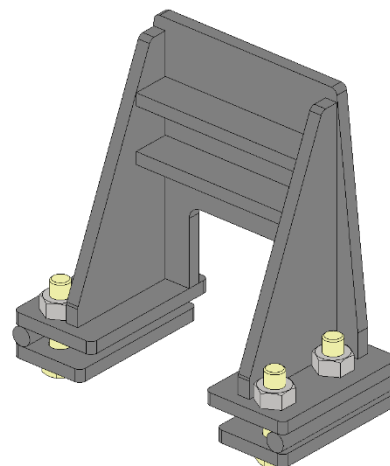
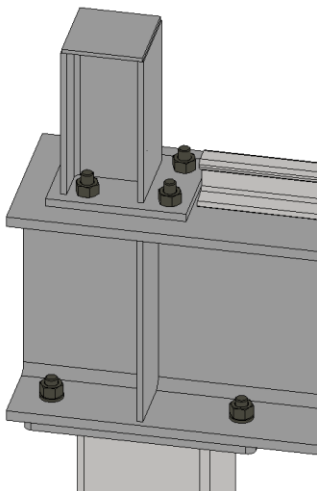
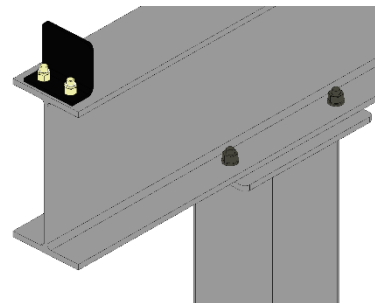


Product Description

- Runway Mounted End Stops

Product Features

- Formed Plate
 - Bolted to web or top flange
 - Used for monorail runways or top runner cranes
- Beam End Stop
 - Bolted to top flange
 - Used for top running cranes
- Clamp End Stop
 - Clamped to top flange
 - Used for top running cranes
 - Allows for adjustable bridge travel



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BTH Device Index



Cranes

- Spreader Bars
- Coil Lifting
- X-Axis Positioner
- Torque Frame Rotator
- Front Hitch Rotation Units

Mezzanine

- Axle Lifting
- RV Frame Lifting
- RV Floor Lifting
- RV Sidewall Lifting
- RV Slideout Lifting
- RV Roof Lifting
- RV Generic Lifting

Fall Protection

Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



Adjustable Spreader Bar

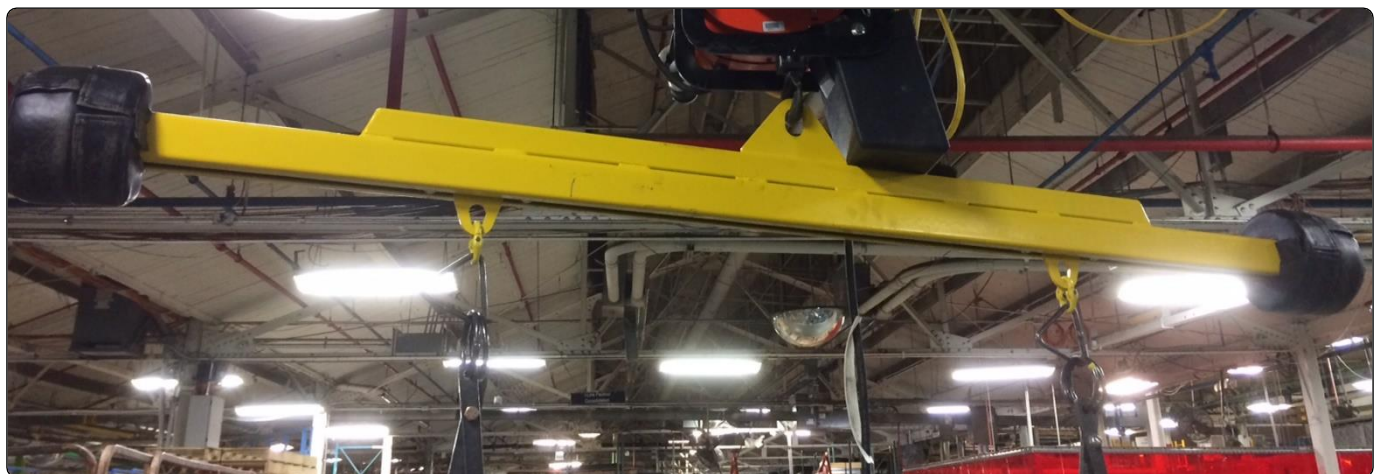
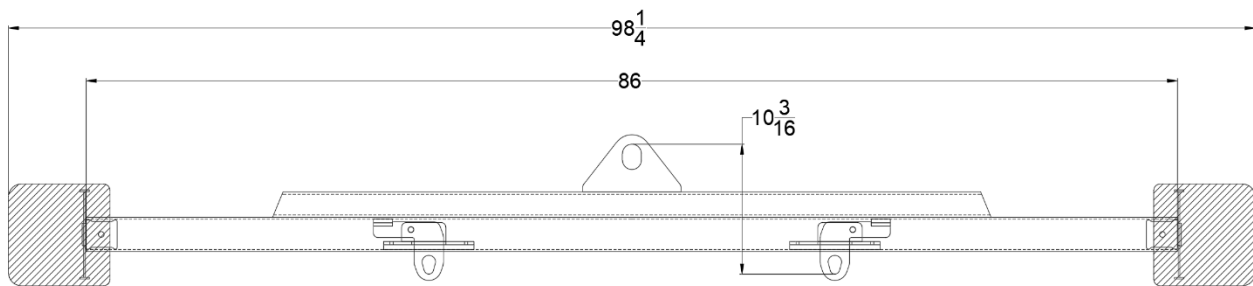


Product Description

- Adjustable spreader bar designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 500lb.
- Foam End Protection
- Clamping lift points to allow quick hook placement and ensure stability during use.



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Coil Lifter

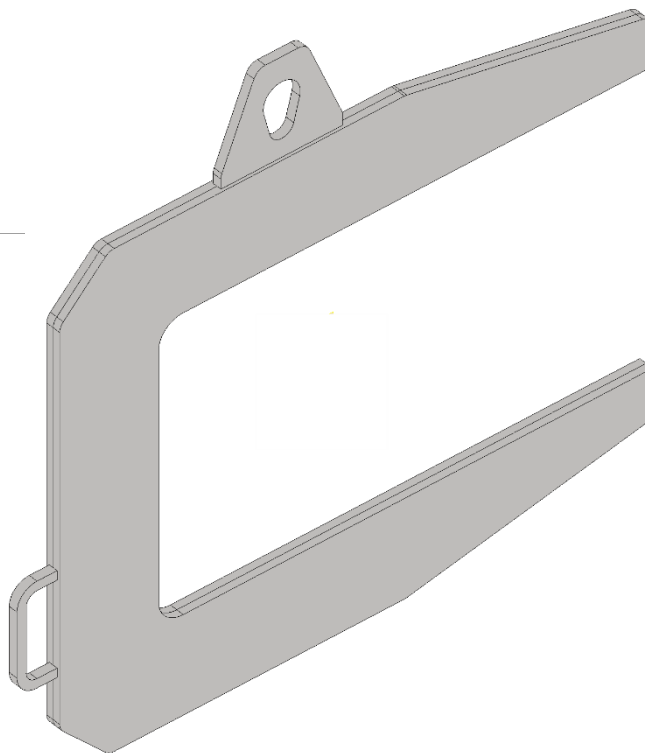
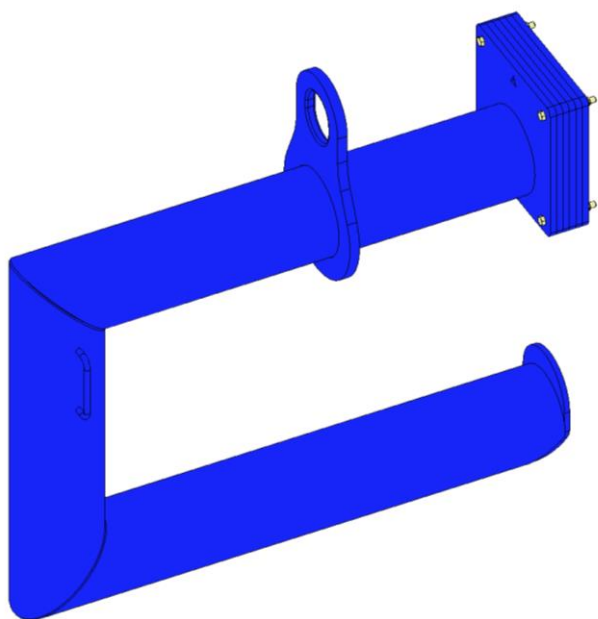


Product Description

Coil lifting device designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 500 lbs. - 10 Ton
- Contact your sales rep for higher capacities



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X-Axis Positioner

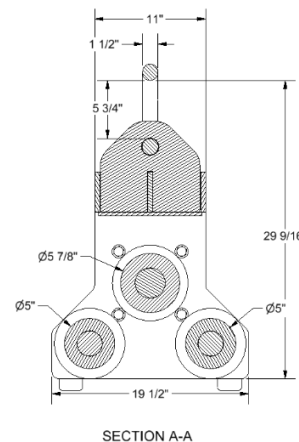
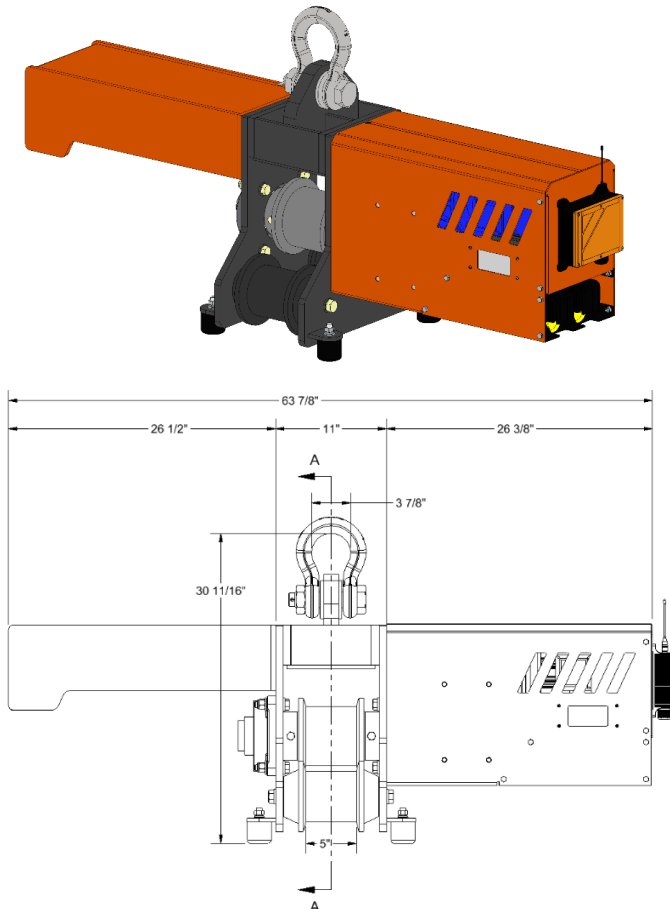
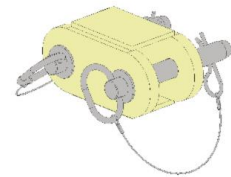


Product Description

- Designed in accordance with ASME B30.2 Below-The-Hook Lifting Devices
- The X-Axis Positioner is a state-of-the-art Below-the-Hook device that safely rotates material without the operator needing to be in harm's way. The utilization of DeWALT batteries makes this device work on any hoist system without having to add any electrical components.

Product Features

- Capacity: 10 Ton (per unit)
- Sold as a pair (2 units)
- X-Axis Positioner Unit Weight: 750 lbs. (per unit)
- Remote Controlled (pair)
- Wireless
- DeWALT Battery Powered
- Variable Speed Rotation Control
- Eliminates shock load on bridge crane



X-AXIS
POSITIONER

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X-Axis Positioner

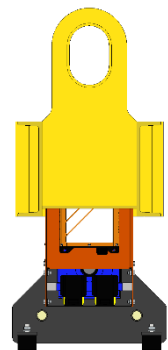
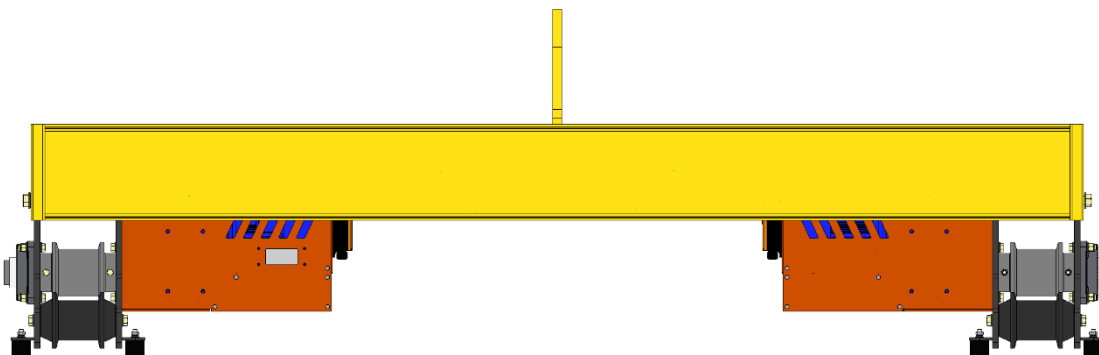
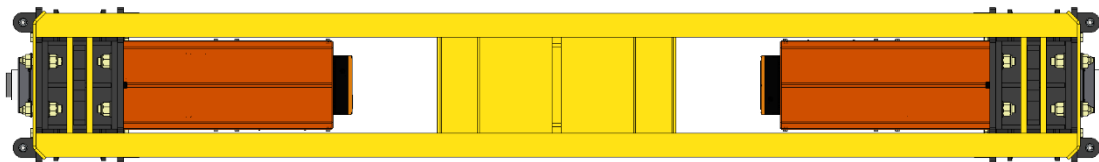
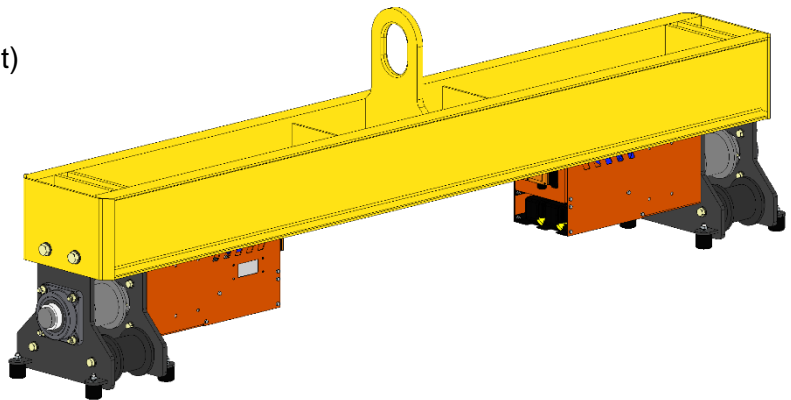


Product Description

- Designed in accordance with ASME B30.2 Below-The-Hook Lifting Devices

Product Features

- Modular Design allows for single unit on one hoist, or tandem unit mounted on spreader bar.
- Remove counterweight from both X-Axis Positioners and attach to spreader bar to lift/rotate from one hoist.
- Capacity: 10 Ton (per unit)
- 20 Ton Capacity Spreader Bar
- X-Axis Positioner Weight: 750 lbs. (per unit)
- 10' Spreader Bar Weight: 975 lbs.



X-AXIS
POSITIONER

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X-Axis Positioner



Cranes

Mezzanine

Fall Protection

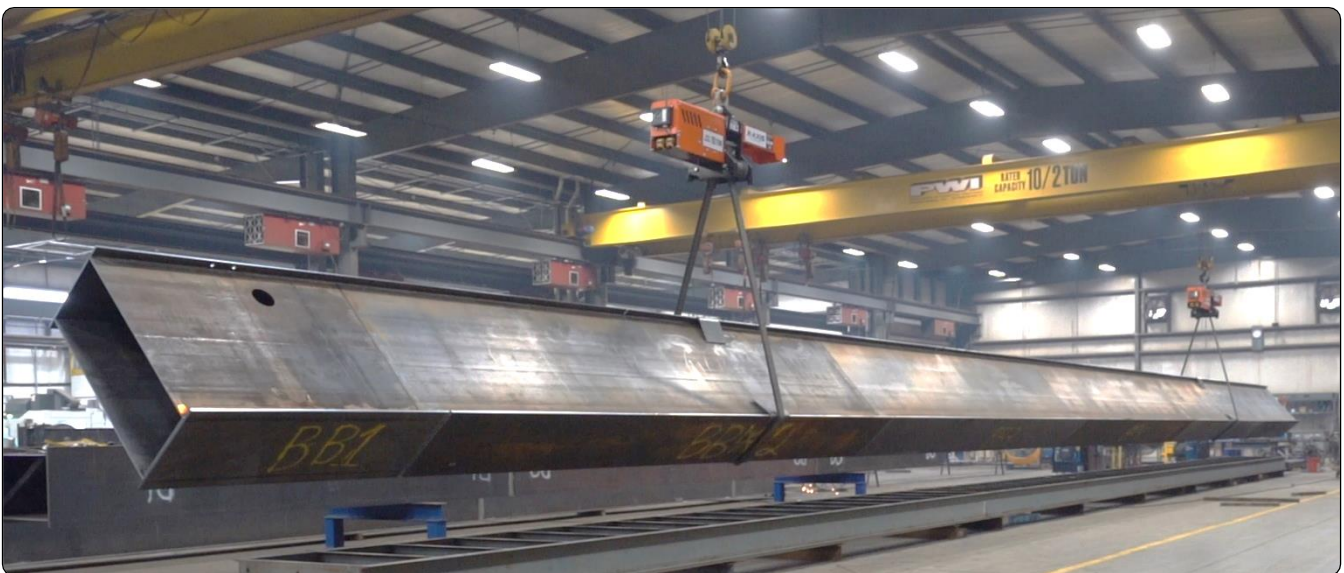
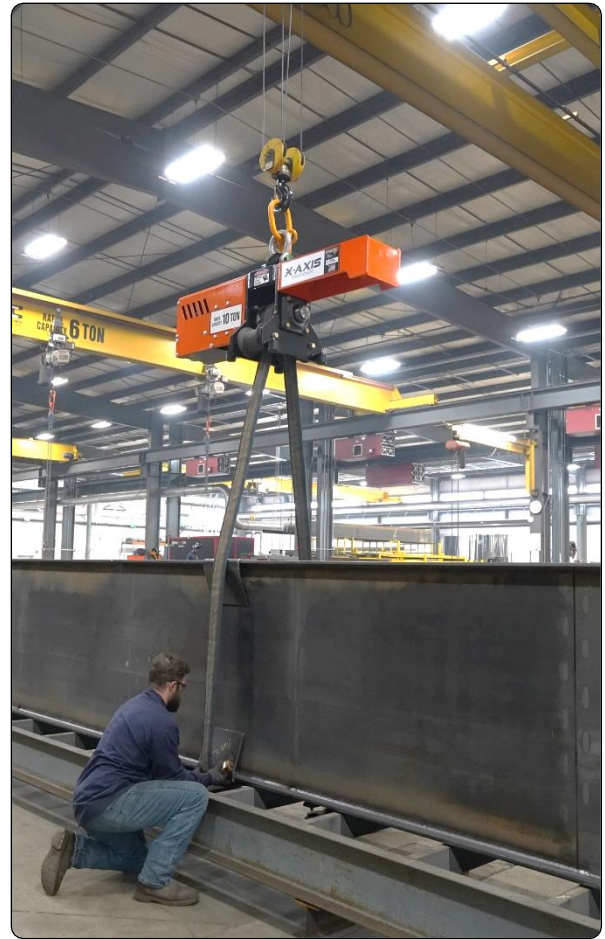
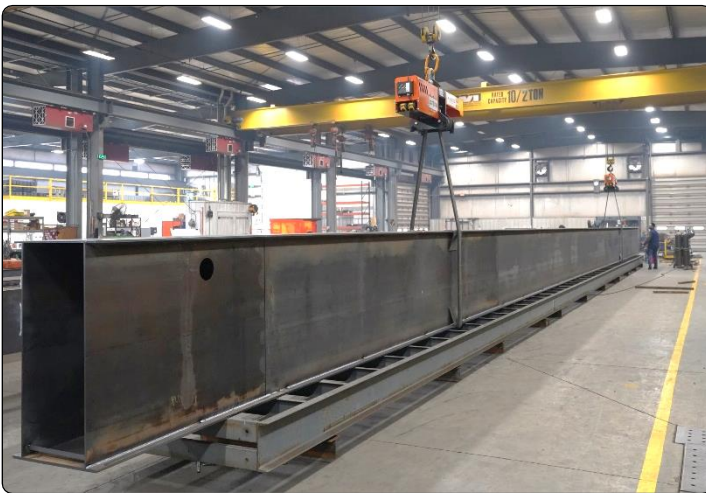
Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



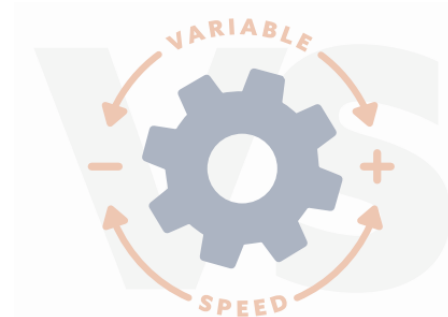
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X-Axis Positioner



K PLUS SERIES K202 R FULL VARIABLE RADIO REMOTE CONTROL



THE K202 FULL VARIABLE SYSTEM IS A 1 MOTION, FULL VARIABLE CONTROL SOLUTION FOR A SINGLE FUNCTION CONTROL OR MONORAIL HOIST APPLICATIONS.

- COMPLIES WITH UL 61010-1 AND CSA C22.2
- "QI" WIRELESS CHARGING (TRANSMITTER)
- G-FORCE SHOCK DETECTION WITH DISABLE
- OPERATING VOLTAGE 24 – 240 VAC / 24 – 160 VDC
- NIMH TRANSMITTER BATTERIES INCLUDED
- 900MHZ FCC, IC AND CE COMPLIANT
- IP 65, PA6 NYLON – 30% GLASS FILLED ENCLOSURE

EACH SYSTEM INCLUDES TWO RECEIVING UNITS, ONE TRANSMITTER WITH LEGEND SHEET, BATTERIES, QI CHARGING PAD, LANYARD, MOUNTING HARDWARE AND INSTALLATION INSTRUCTIONS.

ZERO-G SAFETY IS ONLY AVAILABLE WITH THE K PLUS SERIES. THE ZERO-G SAFETY FUNCTION CAN PREVENT THE UNCONTROLLED OUTPUT OF COMMANDS. THE G SENSOR CAN DETECT IF THE TRANSMITTER IS DROPPED OR THROWN. THESE FEATURES CAN DEACTIVATE THE COMPLETE RADIO SYSTEM OR ONLY THE RELEVANT FUNCTIONS.



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TorqueX BTH Frame Rotator



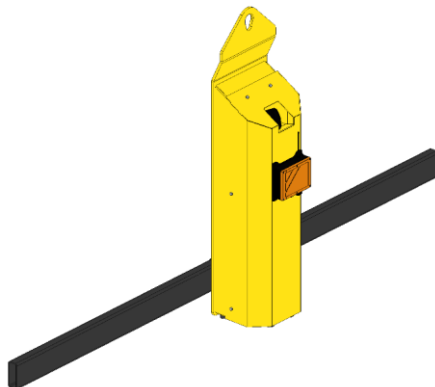
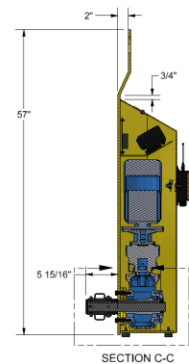
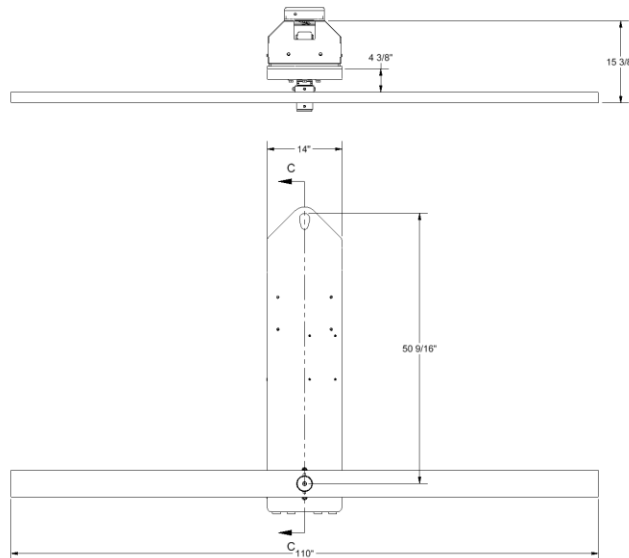
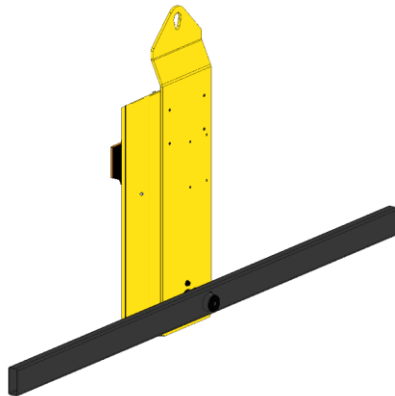
Product Description

- Like our floor mounted options, the Torque Frame Rotator designed to rotate heavy trailer or RV frames while staying suspended from an overhead crane.
- Torque is designed in accordance with ASME B30.2 below-the-hook lifting devices.



Product Features

- Model Number: FRC2596
- Rotating Capacity: 4,000 lbs. **TOTAL** weight of trailer not to exceed 4,000lbs.
- The Rotating Capacity may decrease if the center of mass is eccentric to the front and rear rotation attachment points.
- 110" Wide spreader bar included
- Includes HD Electric Gear DC Motor
- Operates on rechargeable batteries (DeWALT FLEXVOLT 20/60 MAX DCB609)
- Includes Trailer Frame Bumper Coupler to Match your frame design
- Radio controlled (full variable) (Rotate LH & RH)
- Includes battery charger base



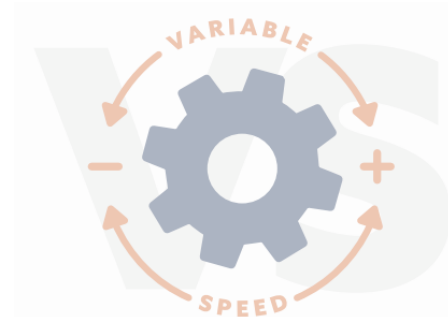
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TorqueX BTH Frame Rotator



K PLUS SERIES K202 R FULL VARIABLE RADIO REMOTE CONTROL

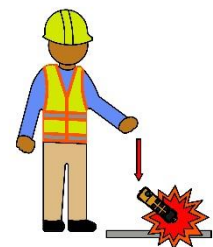


THE K202 FULL VARIABLE SYSTEM IS A 1 MOTION, FULL VARIABLE CONTROL SOLUTION FOR A SINGLE FUNCTION CONTROL OR MONORAIL HOIST APPLICATIONS.

- COMPLIES WITH UL 61010-1 AND CSA C22.2
- "QI" WIRELESS CHARGING (TRANSMITTER)
- G-FORCE SHOCK DETECTION WITH DISABLE
- OPERATING VOLTAGE 24 – 240 VAC / 24 – 160 VDC
- NIMH TRANSMITTER BATTERIES INCLUDED
- 900MHZ FCC, IC AND CE COMPLIANT
- IP 65, PA6 NYLON – 30% GLASS FILLED ENCLOSURE

EACH SYSTEM INCLUDES TWO RECEIVING UNITS, ONE TRANSMITTER WITH LEGEND SHEET, BATTERIES, QI CHARGING PAD, LANYARD, MOUNTING HARDWARE AND INSTALLATION INSTRUCTIONS.

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TorqueX BTH Frame Rotator



Cranes

Mezzanine

Fall Protection

Smart Solutions

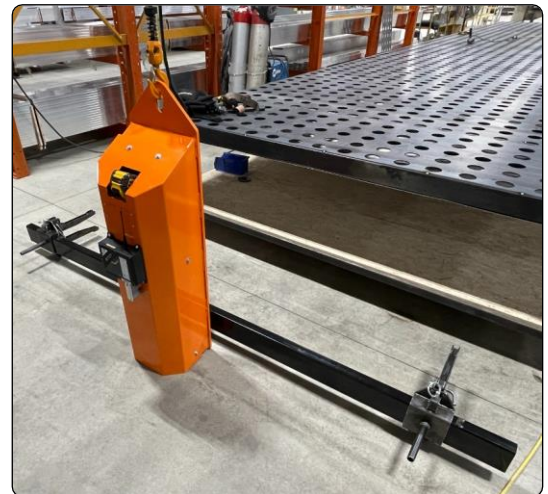


Cranes

Mezzanine

Fall Protection

Smart Solutions



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Front Ball Hitch Rotation Unit

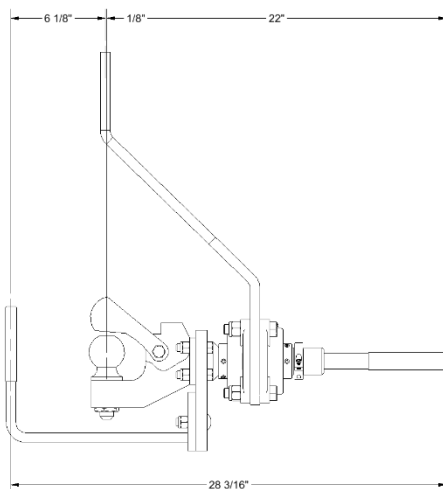
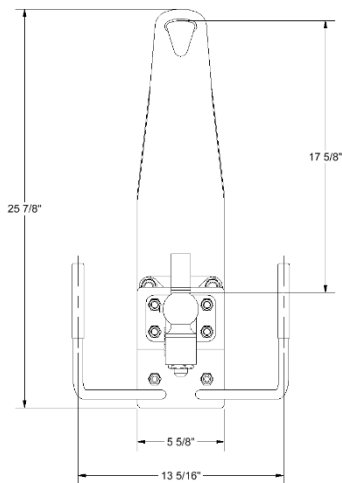


Product Description

- The front ball hitch rotation unit is the perfect device to use in tandem with PWI's frame rotator. The integrated ball bearing makes the rotation of any A frame trailer smooth and safe.
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 2,000



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Front Fifth Wheel Rotation Unit

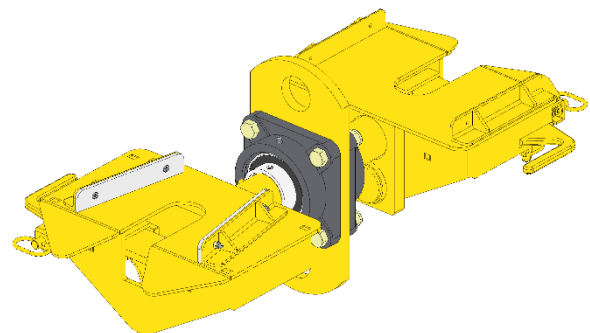
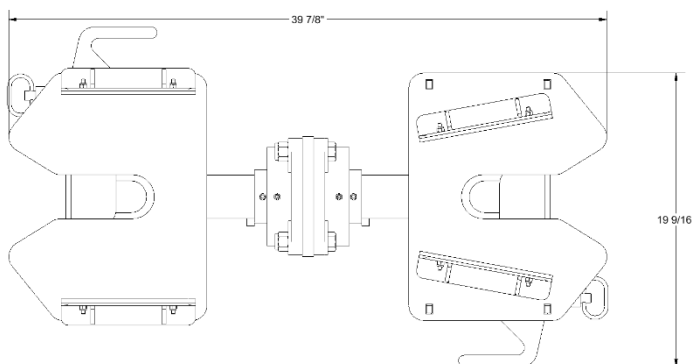
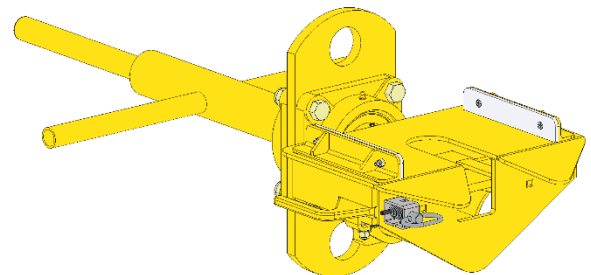
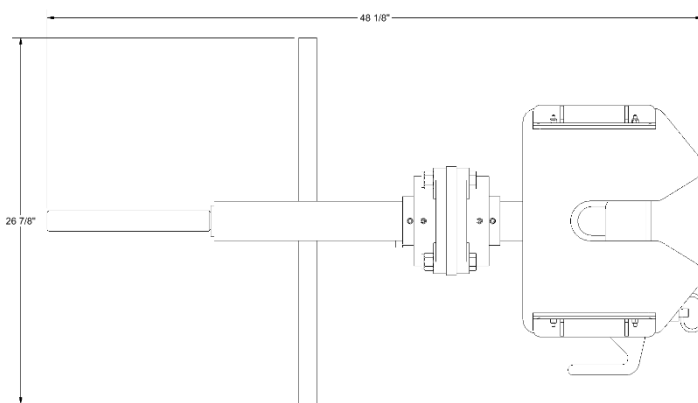


Product Description

- The front fifth wheel rotation unit is the perfect device to use in tandem with PWI's frame rotator. The integrated ball bearing makes rotation of even the largest fifth wheel units smoothly and safely.
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 4,000 lb.
- Single and Double Rotators
- Autolocking handle
- Compatible with multiple brands of fifth wheel units



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Single Axle Lifter



Product Description

- The Single Axle Lifter give a single operator the ability to lift vehicle or RV axles without the help of a second person. The convenient handle gives the operator the ability to precisely manipulate the axle without being under it.
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 1,000lb.



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Double Axle Lifter

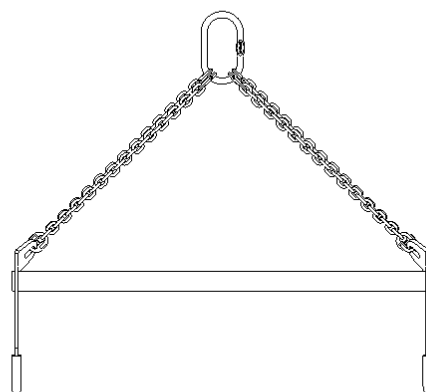
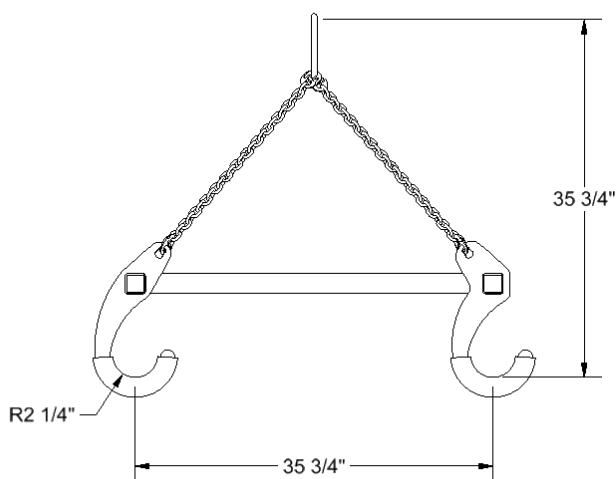
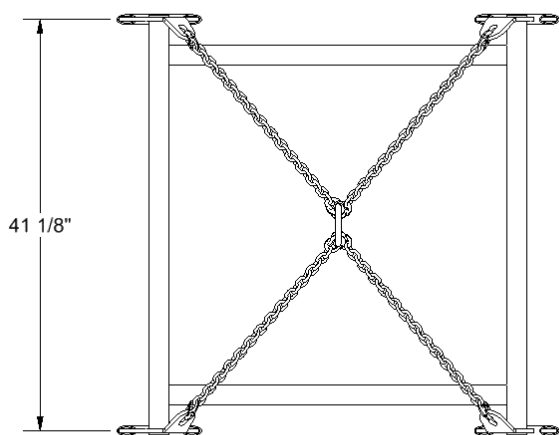


Product Description

- The Single Axle Lifter give a single operator the ability to lift 2 vehicle or RV axles without the help of a second person. The convenient handle gives the operator the ability to precisely manipulate the axle without being under it.
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 1,000lb.



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Sliding RV Frame Lifting Clamp

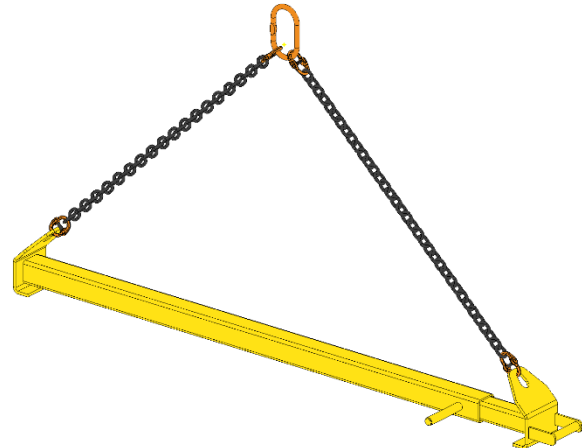
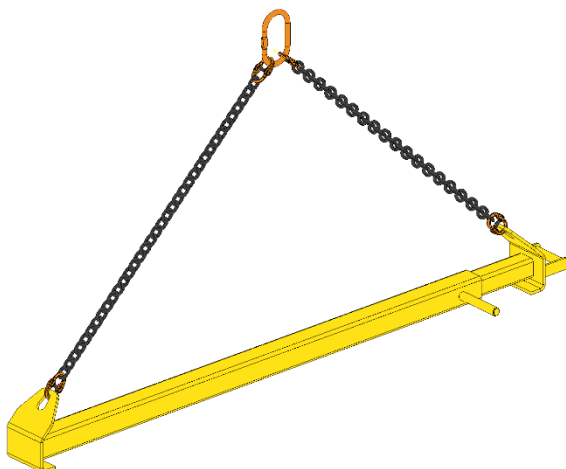
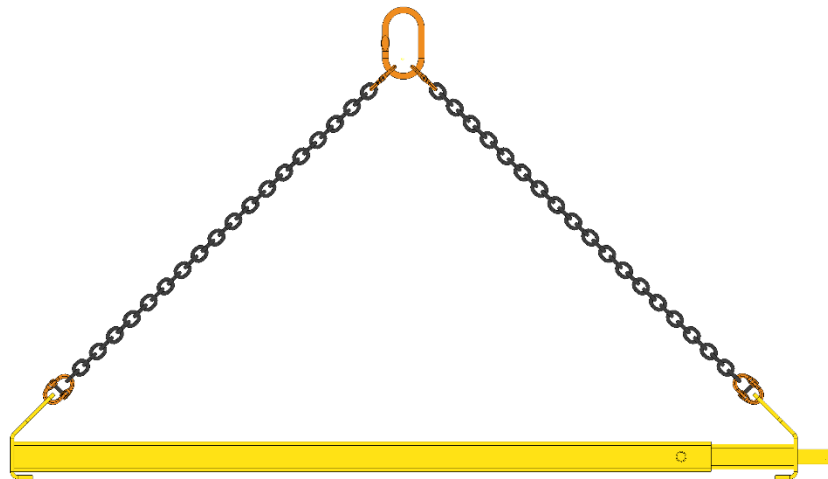


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 2,000lb.
- 74" Min. / 90" Max Frame Width



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Beam Frame Lifter

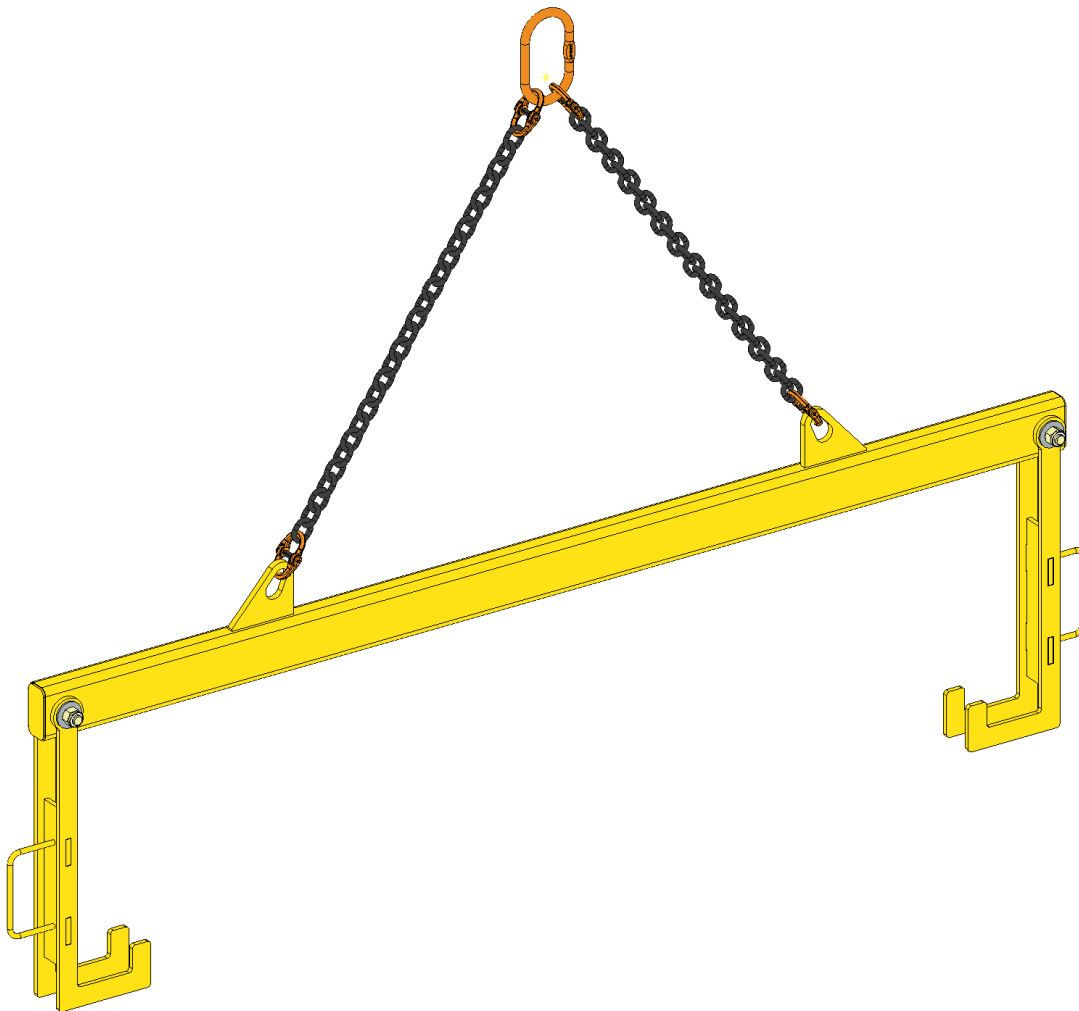


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 4,000lb.
- Customizable Length



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Big Board Lifter

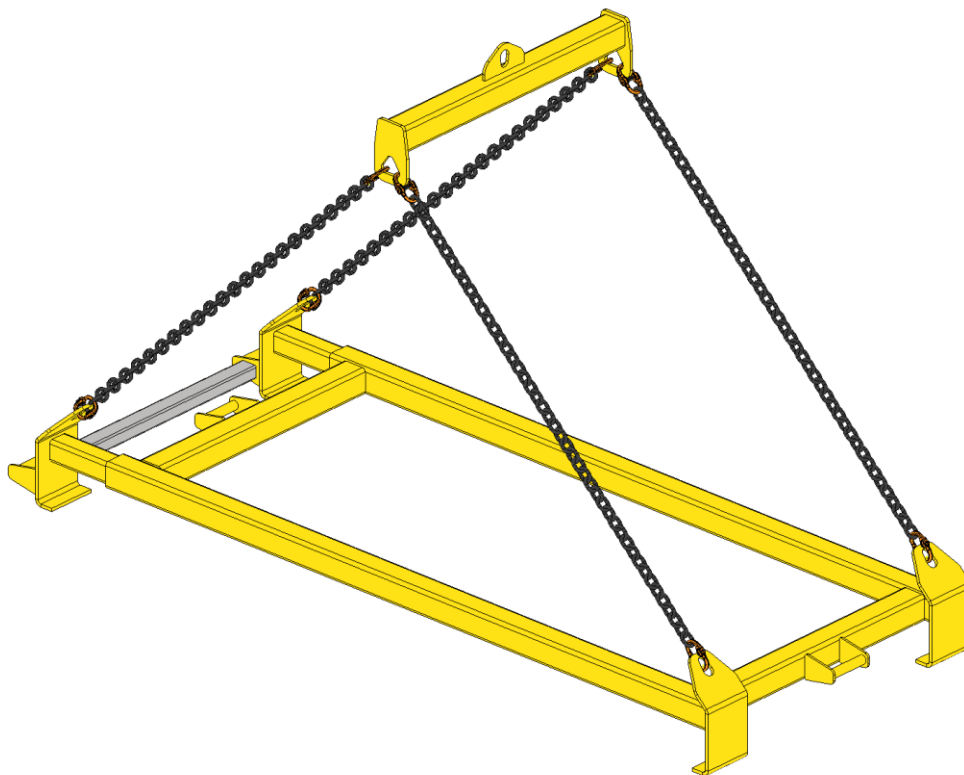


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: Contact your sales rep



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Adjustable Floor/Roof Lifter



Product Description

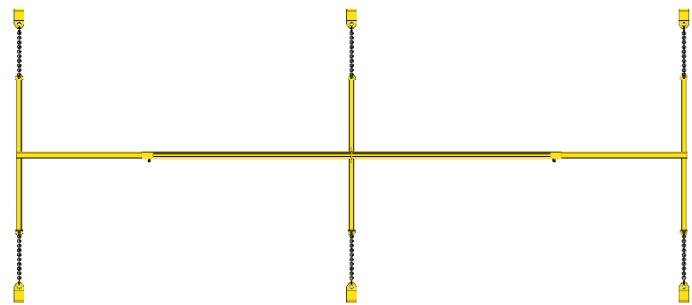
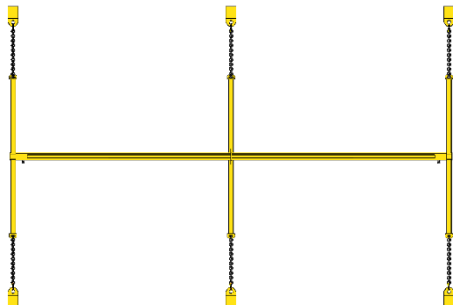
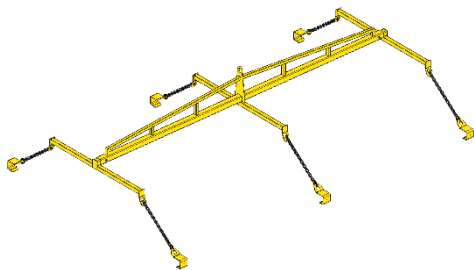
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: Contact your sales rep
- Adjustable Length

Retracted

Extended



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Side Wall Hook

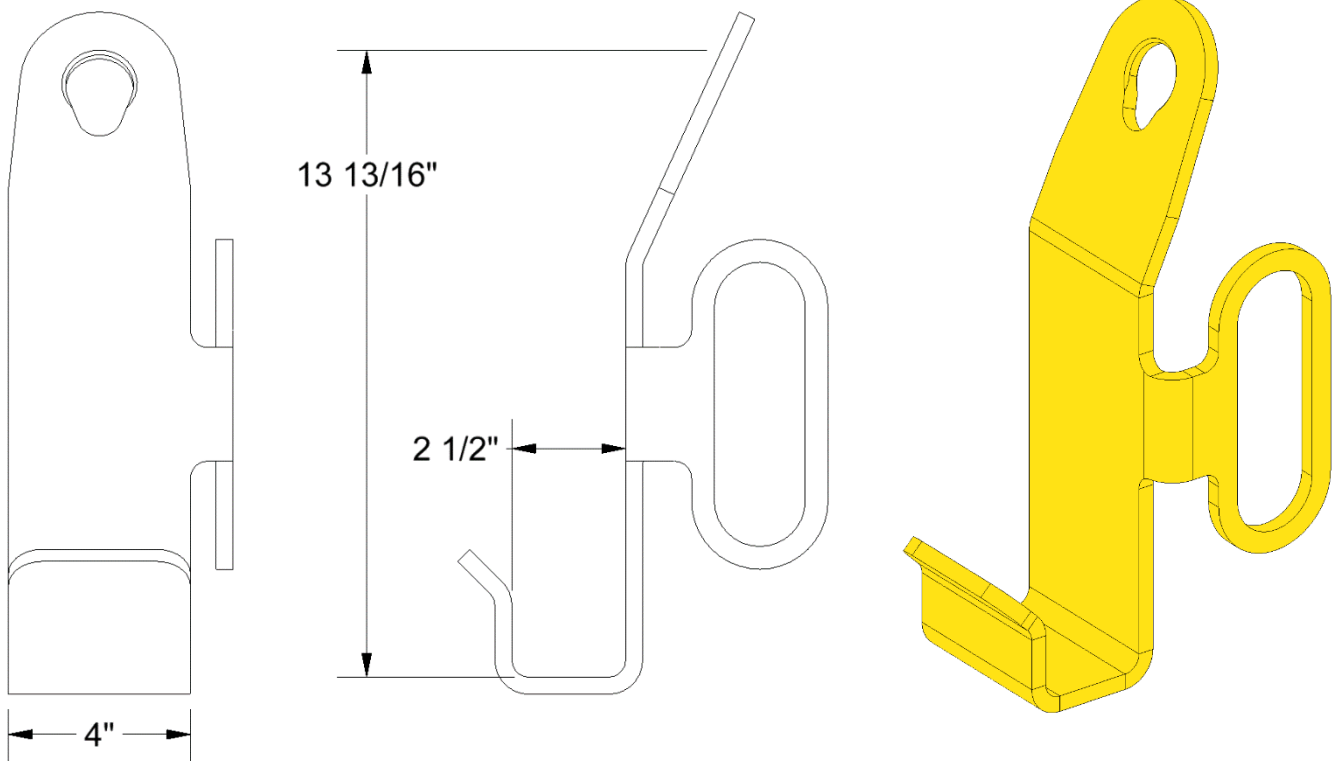


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Part Number: SH-15-1000
- Rated Capacity: 1,000lb.



- Part Number: SH-15-1000
- 1,000lb. Lifting Capacity

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Side Wall Hook

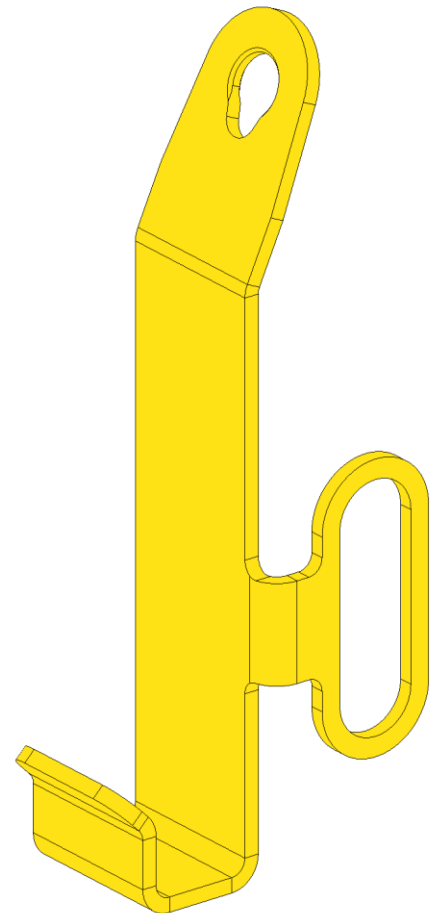
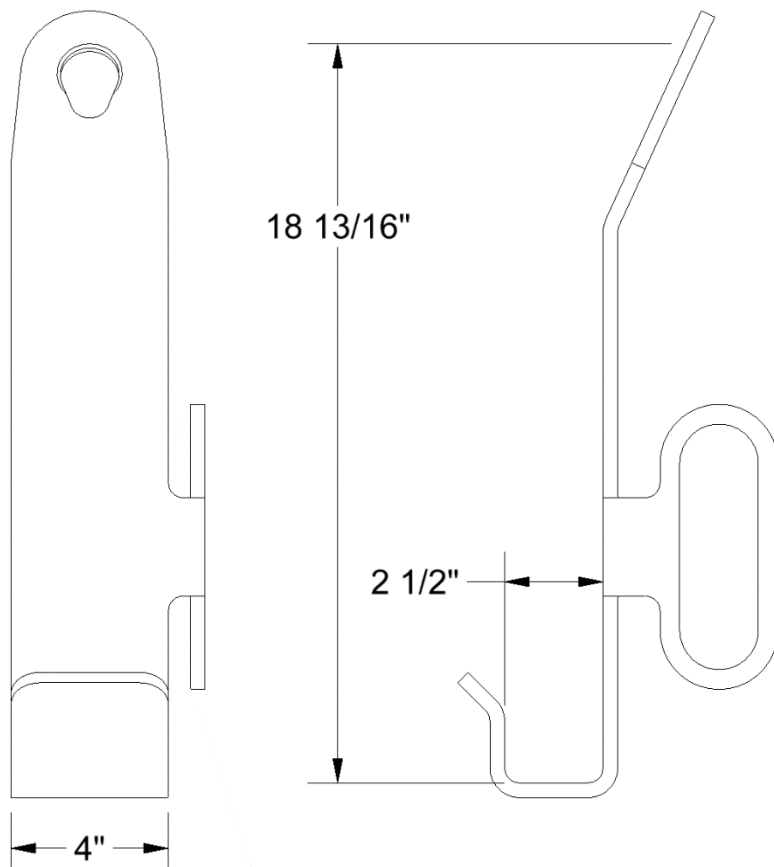


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Part Number: SH-20-1000
- Rated Capacity: 1,000lb.



Side Wall Hook

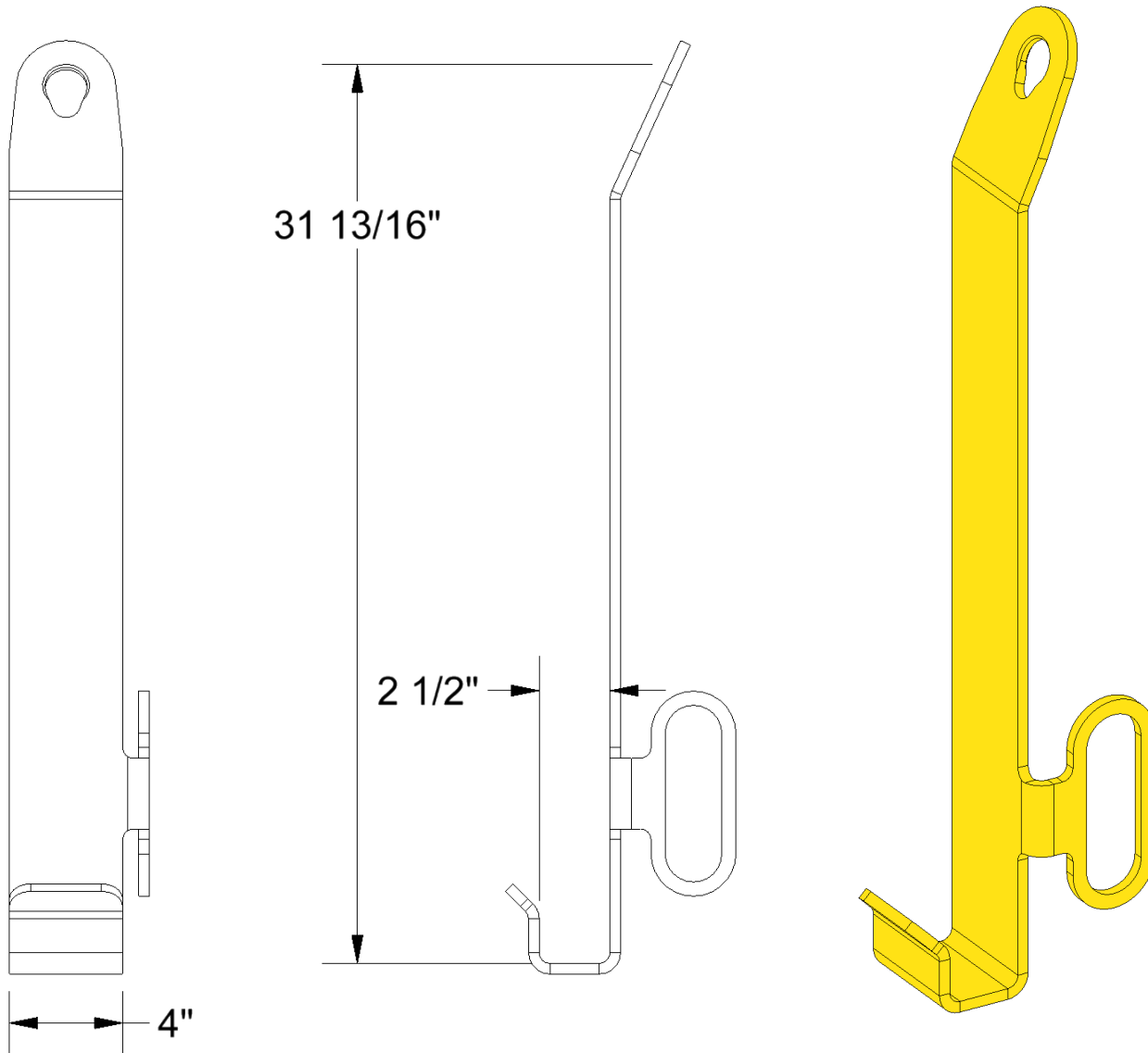


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Part Number: SH-33-1000
- Rated Capacity: 750lb.



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Pneumatic Sidewall Lifter

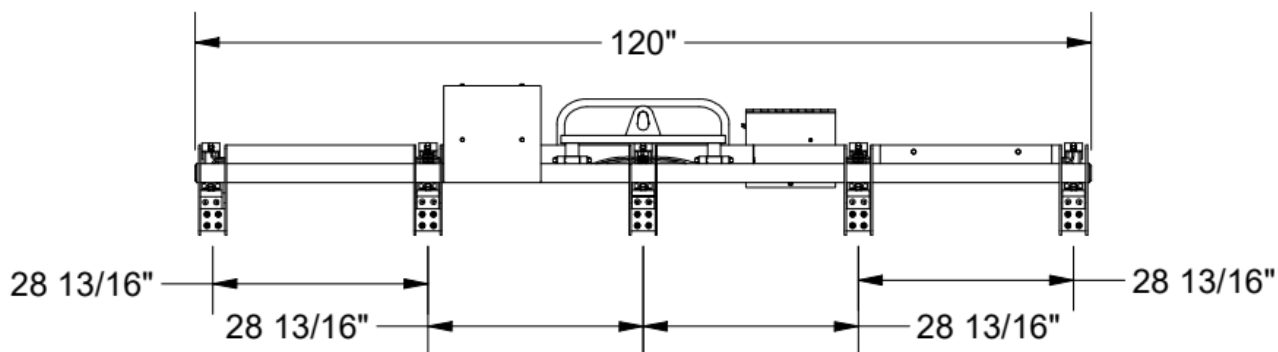
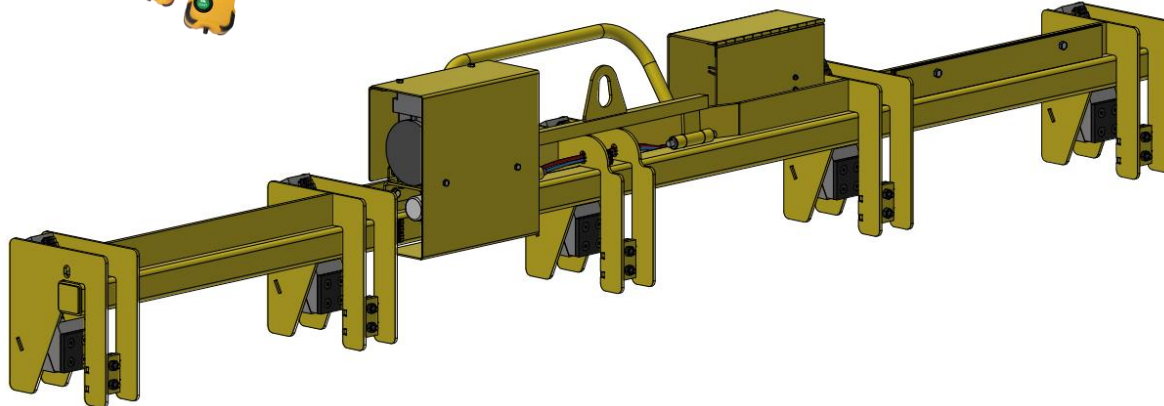
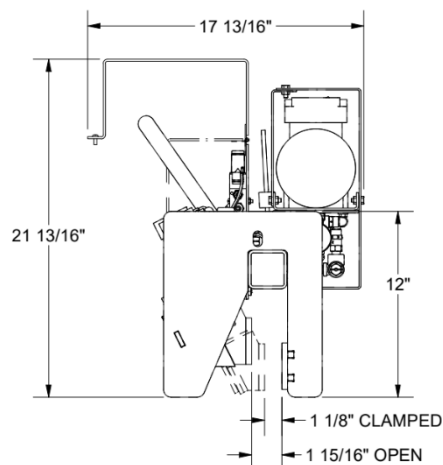


Product Description

- The Pneumatic Sidewall Lifting Device is a remote-controlled clamping device that allows the operator to engage or disengage with the clamps. This below-the-hook lifter can be used to pick a variety of products such as RV Sidewalls, Plywood, Vinyl Sheets, etc.
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: Contact your sales rep
- Dual piston air compressor
- Self-contained air system
- Clamps: 3 or 5
- Radio Controlled



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LD Slideout Lifter

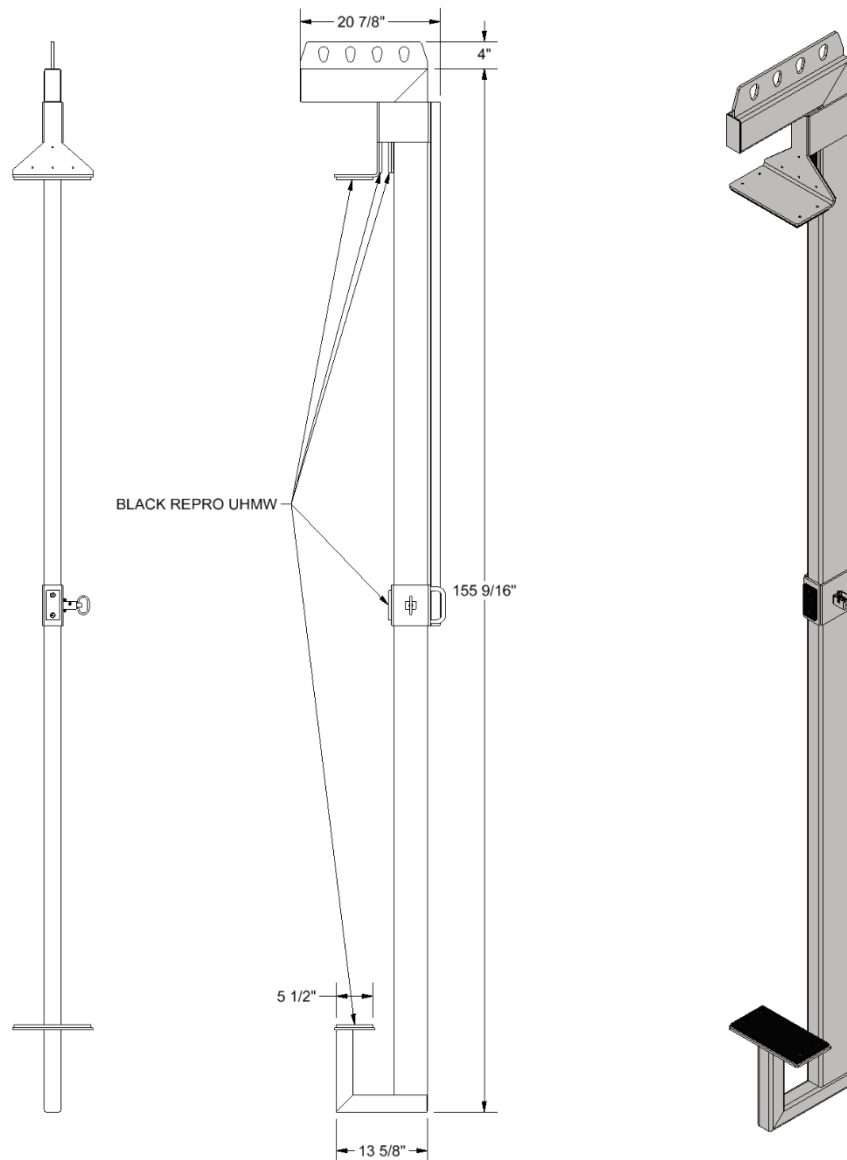


Product Description

- Slide Out Module Lifting Device
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 400 lbs.
- Vertical Clamping Design
- One hoist required



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HD Slideout Out Lifter

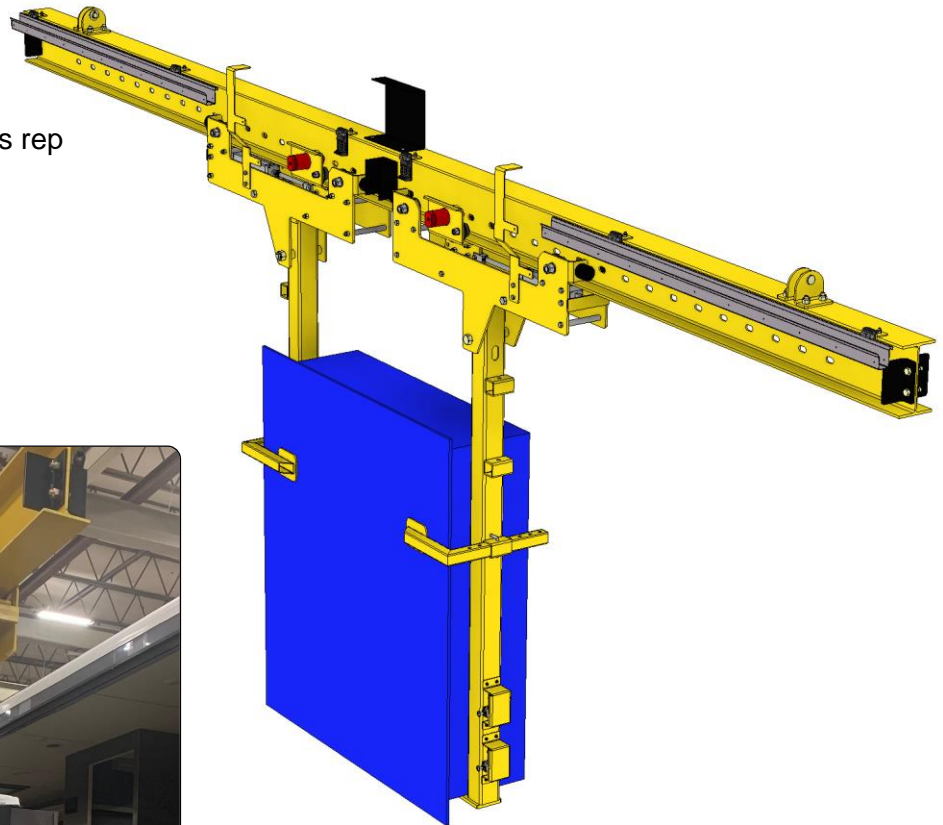


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.
- The HD Slide Out Lifter is used to secure a slide out from each end allowing for accurate positioning inside of the unit.
- Safety and efficiency are greatly improved through utilizing a tool that minimizes the dangers of this process.

Product Features

- Rated Capacity: Contact your sales rep
- Air Cylinders
- Horizontal Clamping Design
- 2 Hoists Required



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Adjustable Roof Lifter

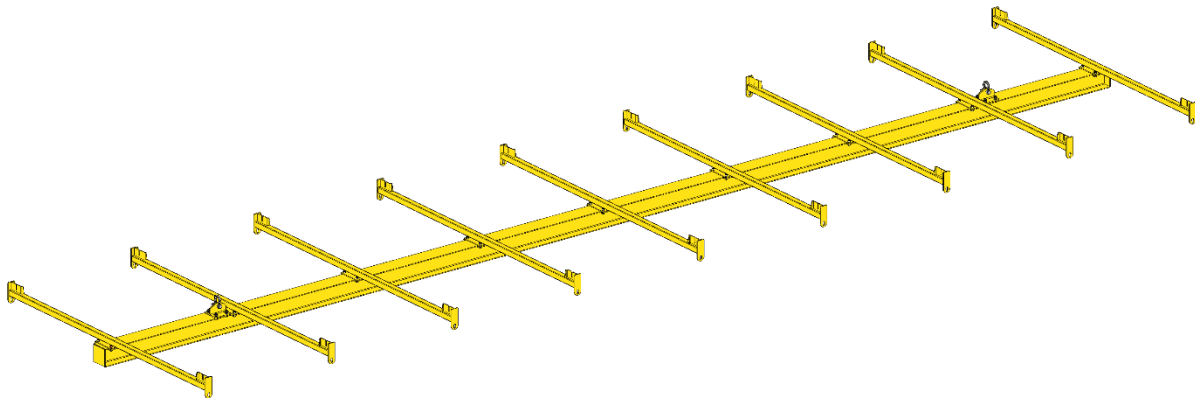


Product Description

- Roof lifting frame designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: contact your sales rep
- For low headroom applications



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Center Roof Lifter

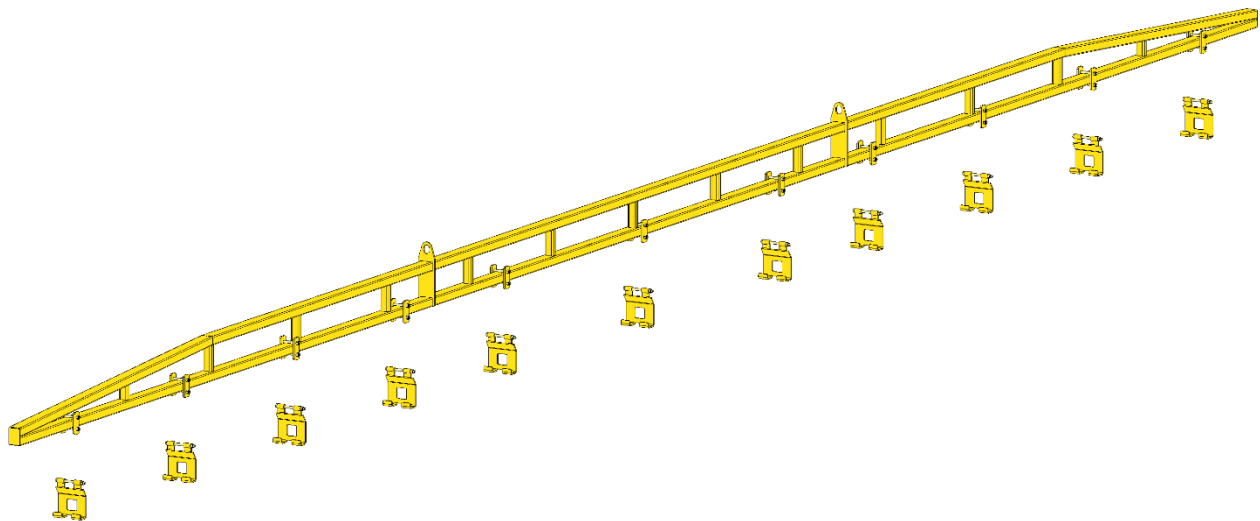


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: Contact your sales rep
- Customizable length
- Polyester sling supported hooks
- Adjustable hook placement



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Vacuum Roof Lifter

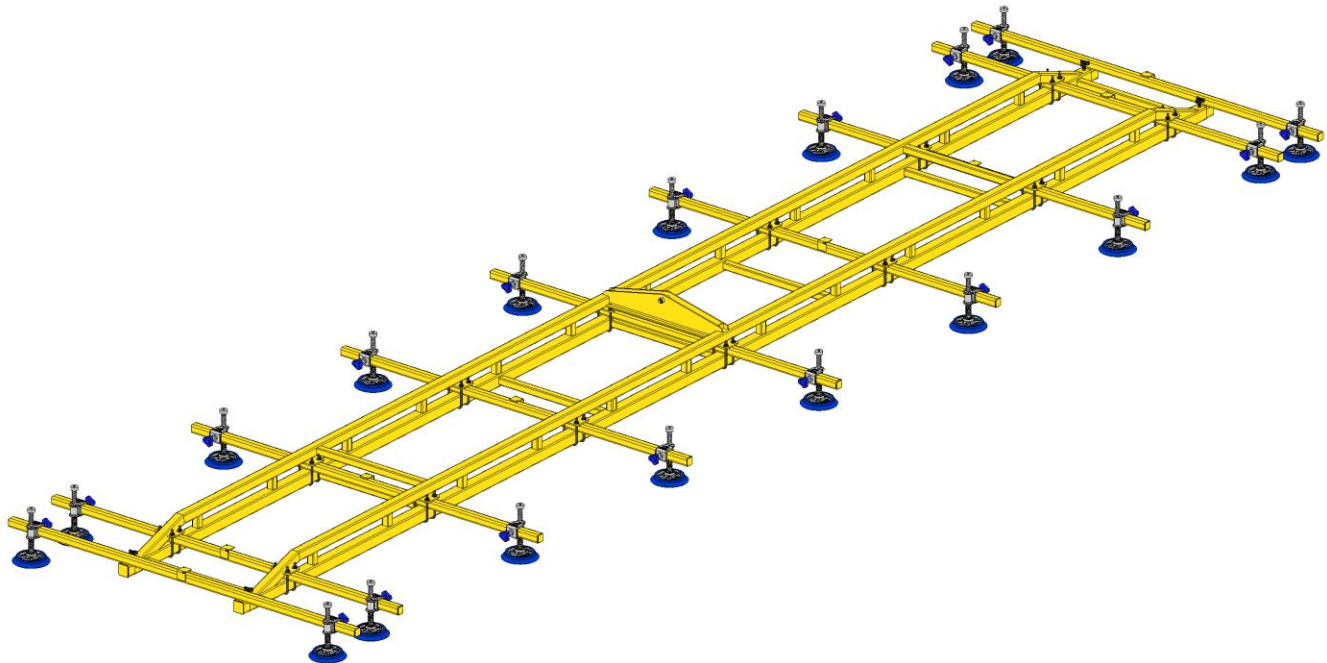


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: Contact your sales rep
- Customizable design for individual applications
- Adjustable arm and cup placement



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AC Lifter

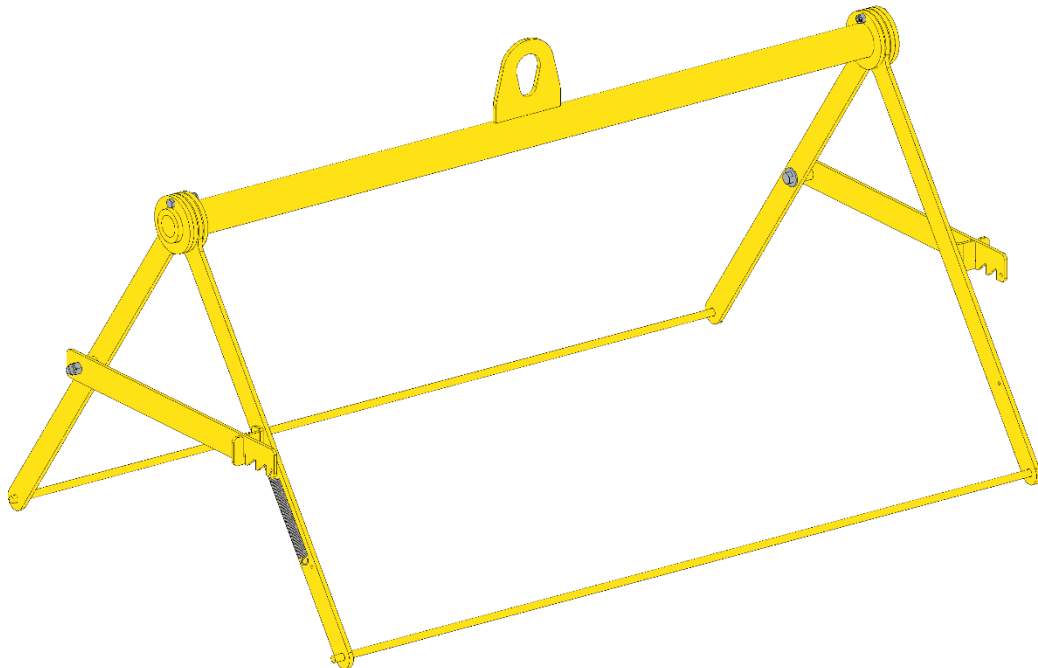


Product Description

- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

- Rated Capacity: 300 lb.
- Self-closing scissor design
- Spring tensioned lock arm



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Mezzanines Index



Cranes

- Columns
- Crossmembers
- Bracing
- Guardrail
- Gates

Cranes

Mezzanine

- Stairs
- Material Chutes
- Footings
- Anchors
- Grout
- VRCs

Mezzanine

Fall Protection

Fall Protection

Smart Solutions

Smart Solutions

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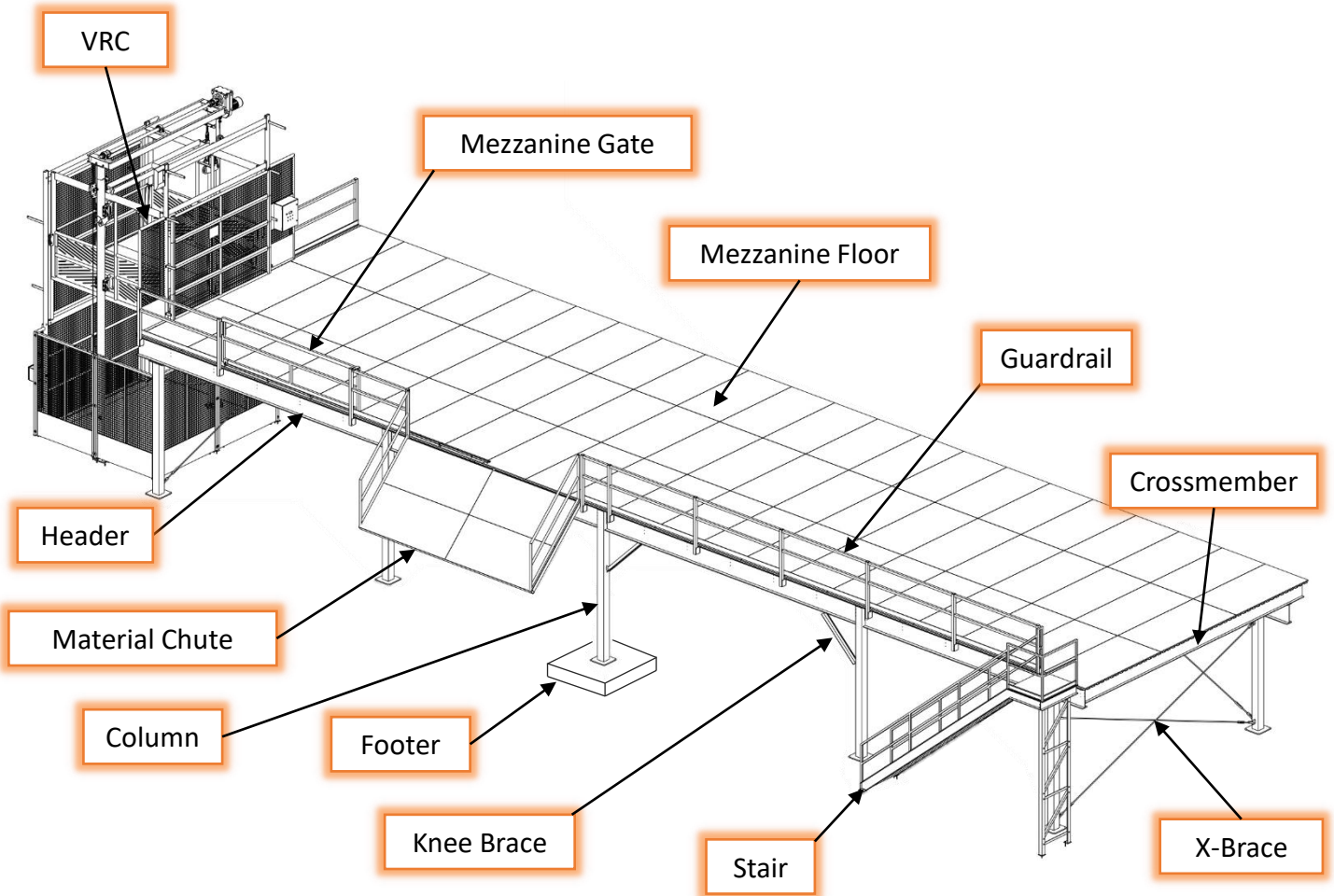


Mezzanine



I Need More Space.

Investing in additional storage or manufacturing space is a big decision. At PWI, our goal is to simplify this process, allowing you to concentrate on your other responsibilities. Our sales and engineering teams get it. We do this every day, and we are here to help.



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Mezzanine Design Process



Cranes

First Step

Call PWI to get started. Send us a few pictures of the area and preferably a CAD layout of your facility, if available. Your CAD layout may not be 100% up to date, but this gives our team a jump start on the layout process.

Mezzanine

Height

Is your ceiling height in your facility tall enough to add a mezzanine? The mezzanine floor structure depth varies based on your mezzanine column spacing but generally plan on a mezzanine floor structure depth of 16"-24". When you're standing on or below your new mezzanine will the clear height be sufficient?

Location

Mezzanines are an excellent solution for increasing your storage capacity. One key advantage of incorporating a mezzanine into your existing manufacturing space or new construction is the ability to store your products closer to the work cell or assembly line. Doing this will improve your efficiency and workflow, which will impact your bottom line.

Fall Protection

Load/Unload

Vertical Reciprocating Conveyers (VRCs or material lifts) are a great option that PWI offers to load/unload your mezzanine. The location of these VRCs is crucial to your facility's overall efficiency. However, VRCs are not always necessary or the best solution depending on the size or amount of product. VRCs take up valuable floor space. Sometimes, the best solution is a mezzanine safety gate which allows a forklift to load/unload your mezzanine. In most situations, the best ROI is a combination of VRCs and mezz gates strategically located to optimize efficiency.

Smart Solutions

Engineering

PWI has an in-house team of engineers who not only have a lot of experience but can help you maximize your ROI by providing calculations and specs on all aspects of the mezzanine project including structural calculations, site specific ASCE seismic reports, Hilti Profis anchor design, footer and slab analysis. PWI provides PE or SE stamped drawings in all 50 states.



Cranes

Mezzanine

Fall Protection

Smart Solutions



Mezzanine Design Process



Access

Stairs are used to access a mezzanine. Although code requirements for stairs can be complex, a general guideline is to have two stairs for every mezz, and you should always be within 75' of a stair at any point on a mezzanine. PWI has tremendous capacity in options and customization for stairways. Check out stairzone.com (a division of PWI) to place a stair order and receive an instant quote and custom drawing for your application.



Flooring

Choosing the correct flooring type is crucial to avoiding problems in the future. PWI has in-house roll forming for B Deck and Form Deck. This is a big advantage which allows us to design and build custom mezzanines while staying on schedule.



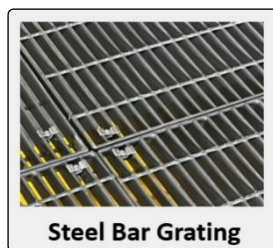
Will you be using a pallet jack on the mezzanine? Is there a chance of the mezzanine deck getting wet from products are coming in with snow/water causing the mezz floor to be wet?

Concrete with form deck mezzanine flooring is the best most durable option for any application, it is also the most expensive and has the highest dead load which will always require large footers.

AdvanTech on B Deck is a good option for a variety of applications and can withstand some moisture.

ResinDek on B Deck is a good option for lighter applications.

Steel Bar Grating is a great option for equipment platforms and other applications where a pallet jack will not be used.



Mezzanine Subfloor Options



Cranes

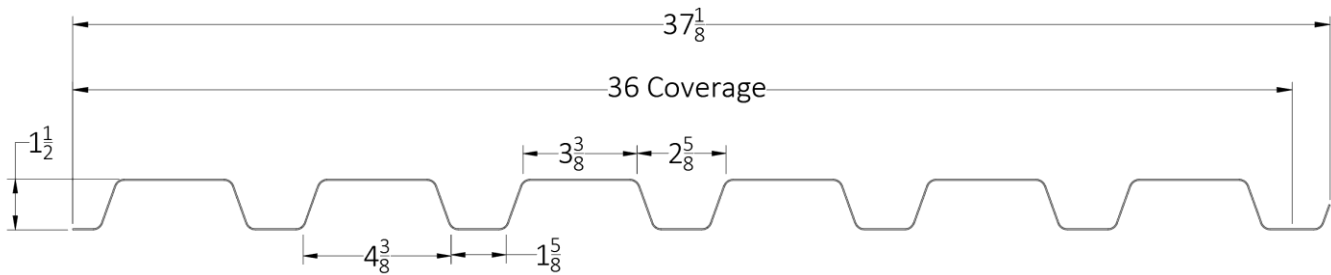
Cranes

Mezzanine

Mezzanine

B Deck

- [1.5" B Deck Specs PDF](#)
- Steel Grade: A1011 CS Type B

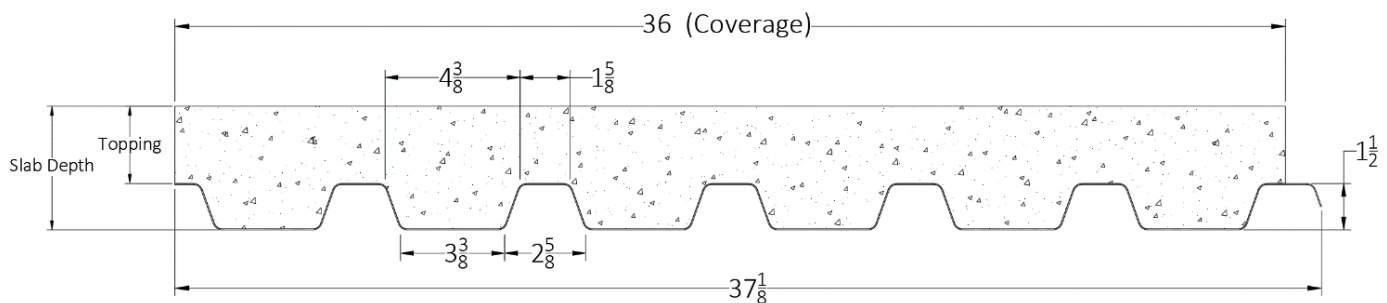


Fall Protection

Fall Protection

Form Deck

- [Form Deck Specs PDF](#)
- Steel Grade: A1011 CS Type B



Smart Solutions

Smart Solutions

STRUCTURAL DECK.com
BY PWI

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Mezzanine Design Sketch Page



Cranes

Mezzanine

Fall Protection

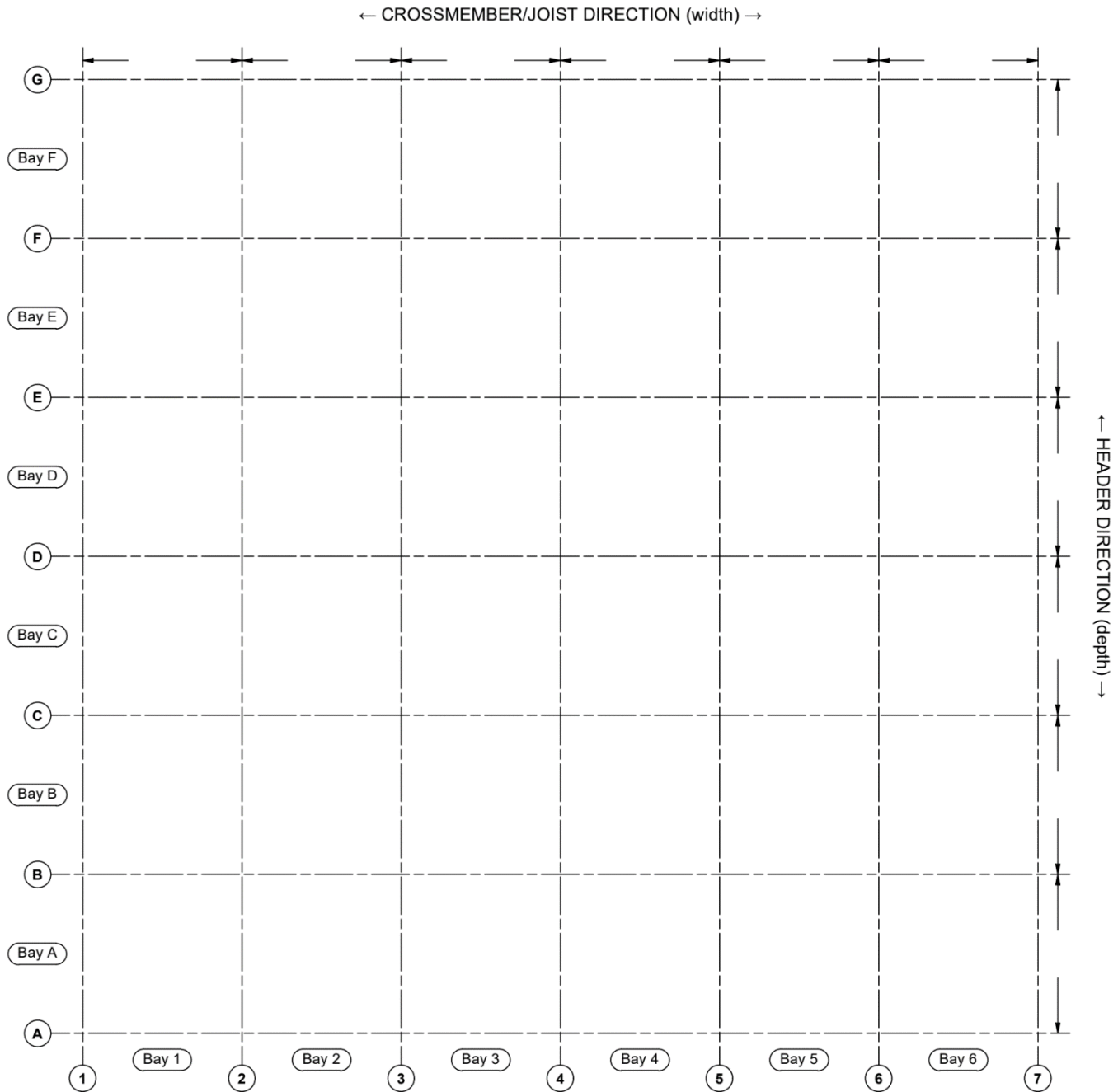
Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



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Mezzanine Height Descriptions



Cranes

Mezzanine

Fall Protection

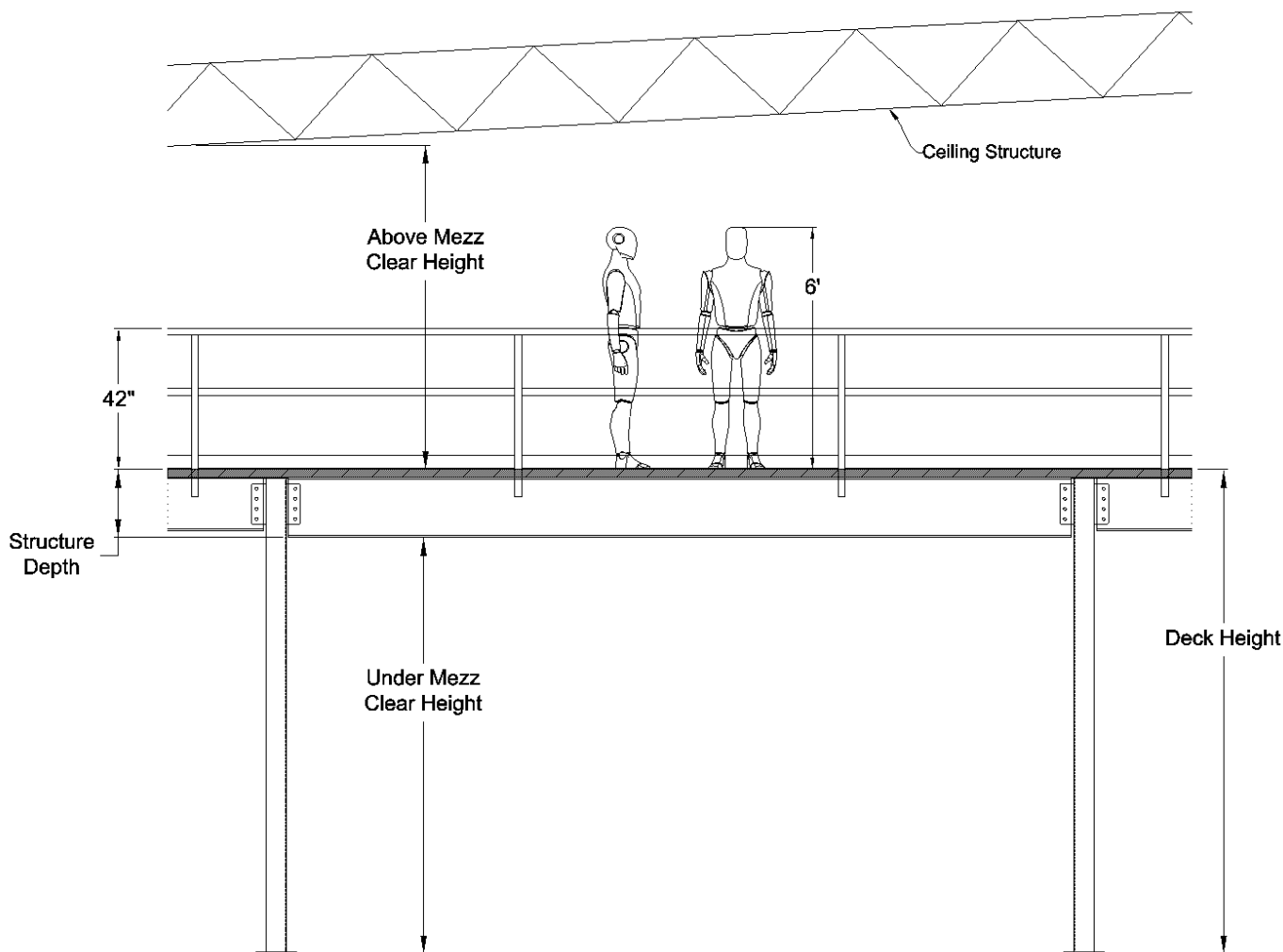
Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



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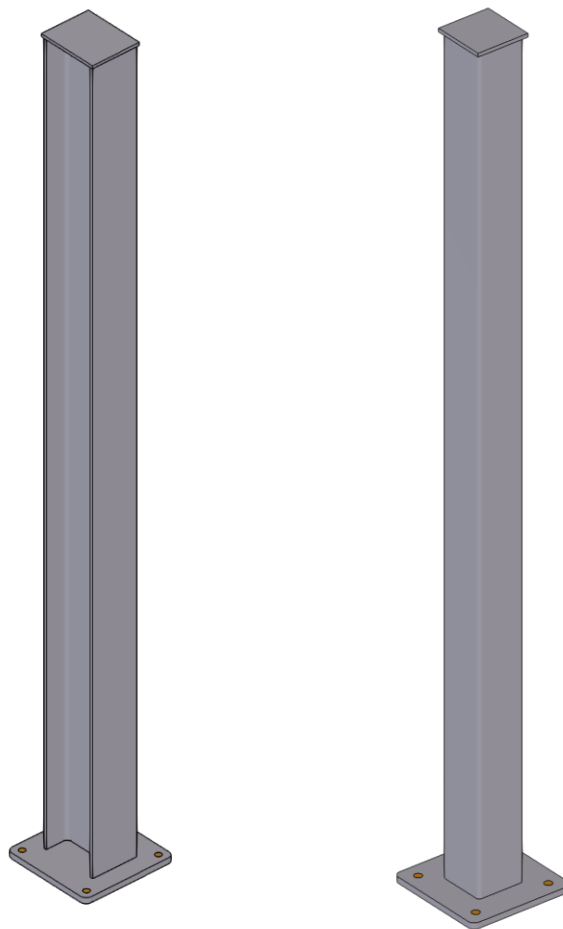


Mezzanine Columns



Product Options

- W-Beam
 - More economical vs. HSS tubes
 - Used in a system where moment connections are required
 - Used in a braced mezzanine
- HSS Tube
 - Used in freestanding system
 - Used in high seismic applications



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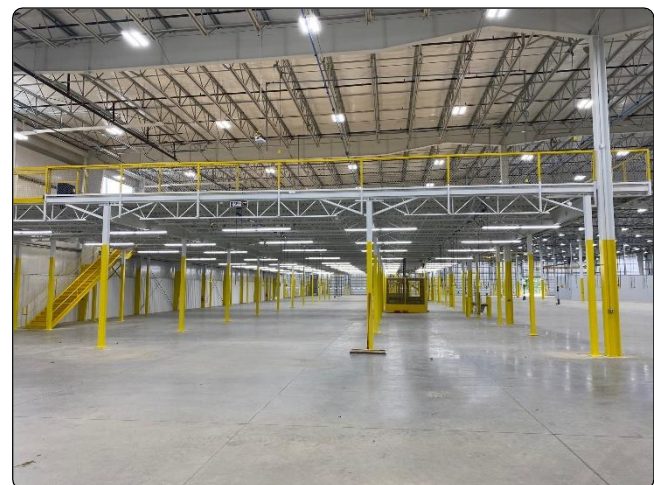
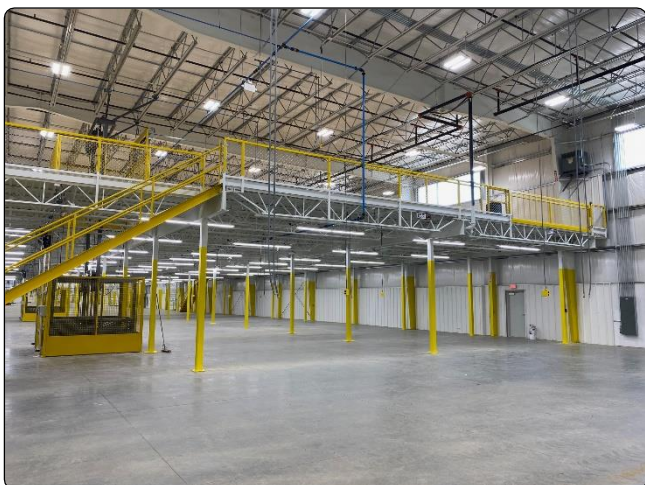


Mezzanine Crossmembers



Product Options

- W-Beam Crossmembers
 - Allows for a low deck profile without compromising on longer column spans
- Bar Joists
 - Accommodates large spans or projects that require vast, unobstructed floor space
 - Allows the installation and access of sprinkler systems, electrical conduit, and mechanical equipment



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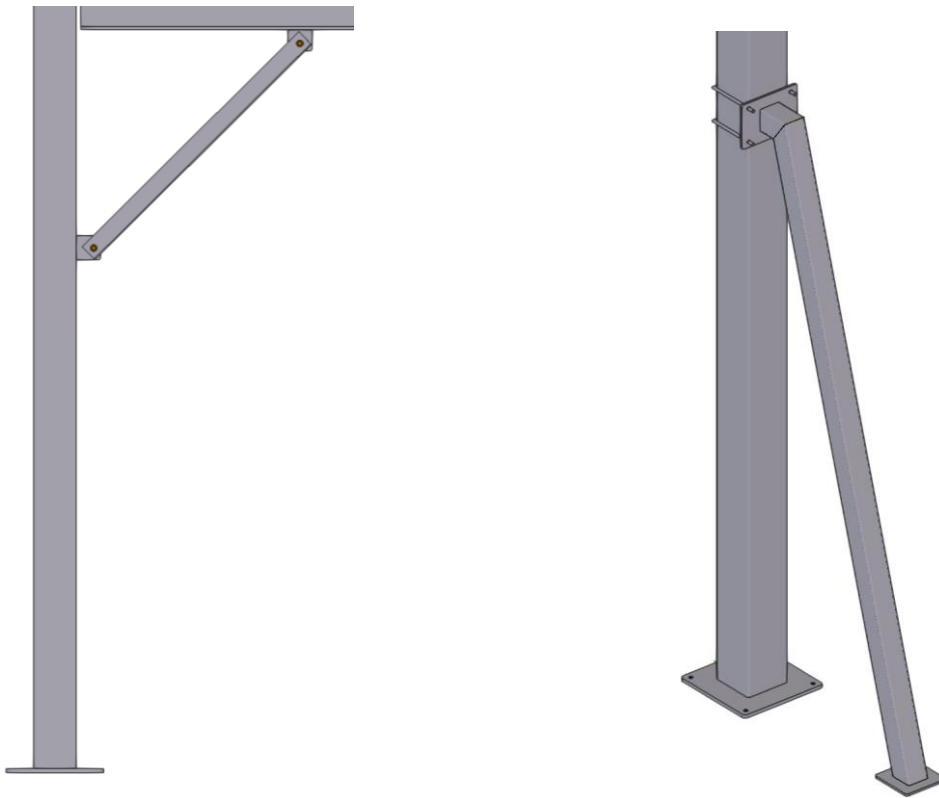
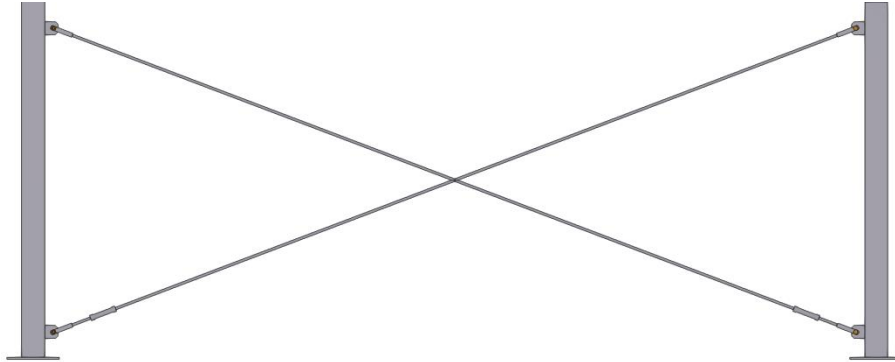


Mezzanine Bracing



Product Options

- X Bracing (Cross Bracing)
- Knee Bracing
- Floor Bracing
- Brace to Existing Structure



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Bolted Guardrail

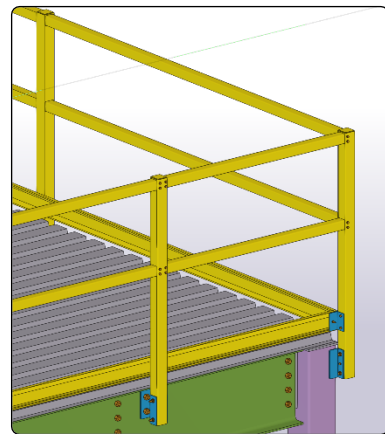
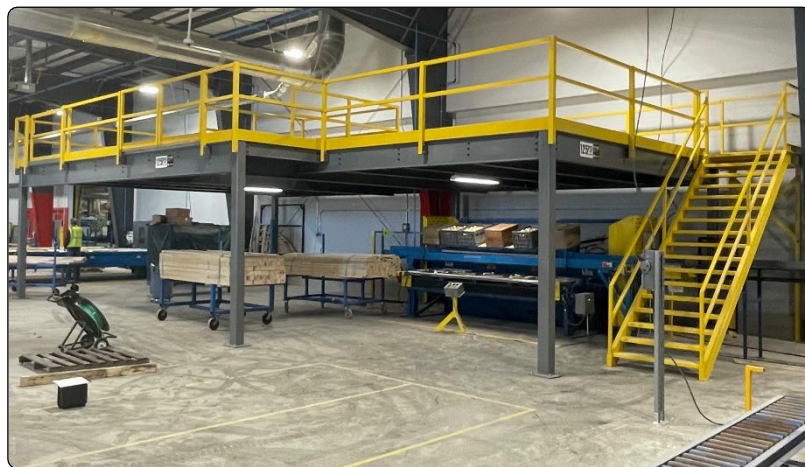


Product Description

- Bolt-on guardrail system that allows for simple, flexible installation.

Product Features

- Customizable lengths and configurations for many applications.
- Avoids the need to weld guardrail components on-site.



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Welded Guardrail

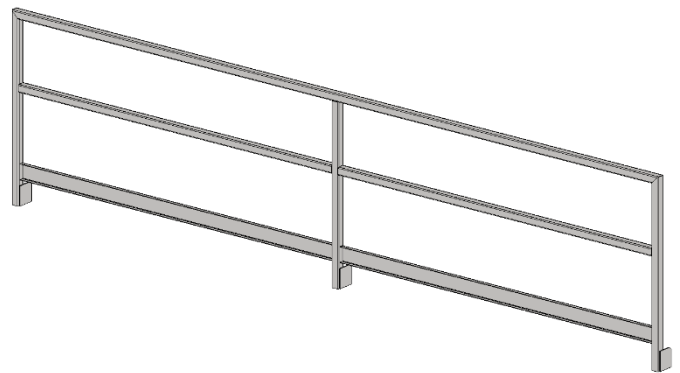
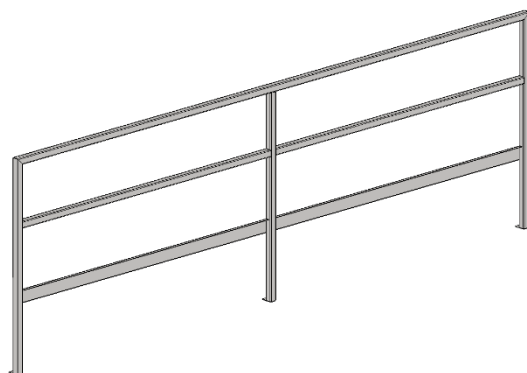
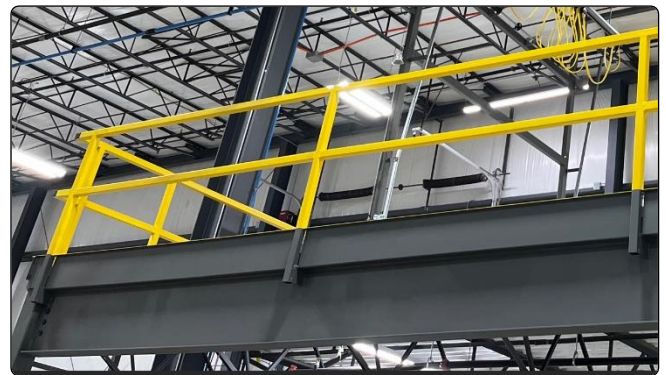


Product Description

- Weld-on guardrail sections for a range of mezzanine scenarios.

Product Features

- Mounting Types
 - Bare Post
 - Base Plate
 - Flag/Tab
- Adjustable post and top/mid rail member sizes



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Surface Mounted Guardrail

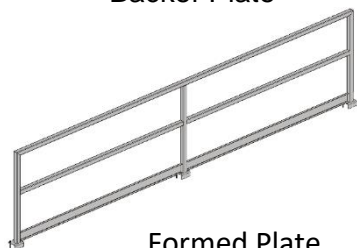


Product Description

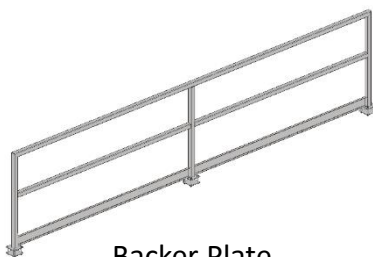
- Top mounted guardrail applications for concrete, wood, or steel decking. Surface Mounted Guardrail has splicing options to accommodate any onsite installation scenario:
 - Welded
 - Formed Plate using Self-Tapping Screws
 - Flat Bar using Self-Tapping Screws
- PWI's guardrail is compliant with OSHA [1910.29\(b\)](#).

Product Features

- Flooring Types
 - B Deck / 3/4" Wood Decking
 - B Deck / Tread Plate
 - Tread Plate
 - Concrete
- Mounting Types
 - Base Plate
 - 2 Holes
 - 4 Holes
 - Formed
 - Backer Plate



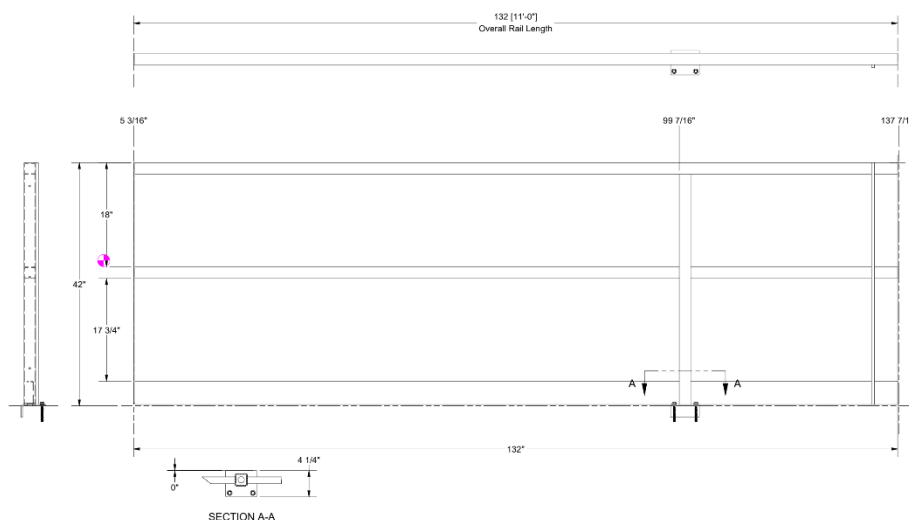
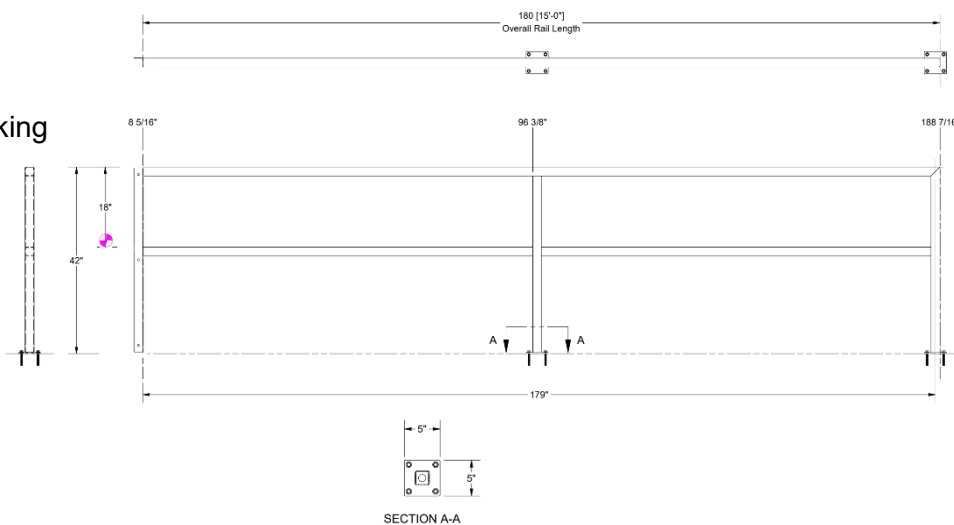
Formed Plate



Backer Plate



4 Hole



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Mesh Guardrail

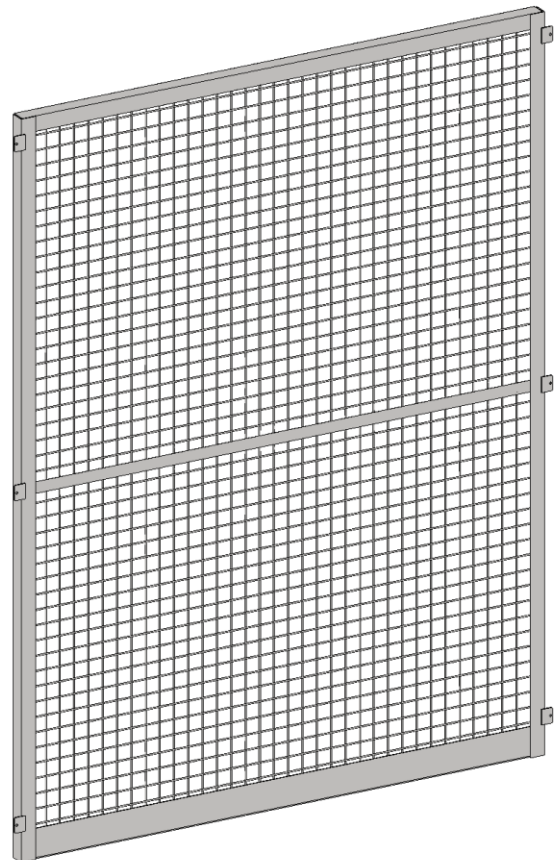
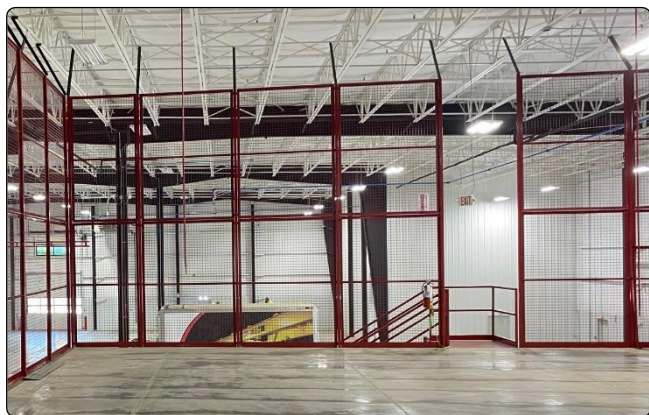
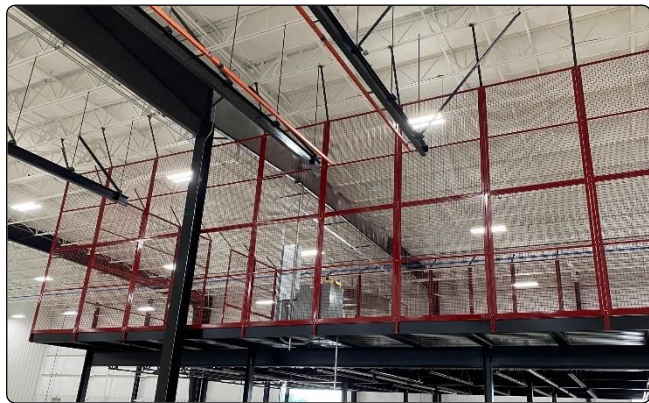


Product Description

- Steel mesh guardrail is commonly used to prevent materials from falling from the mezzanine level causing injury.

Product Features

- Customizable Height
- Modular Mesh Panels



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M Toe Kick

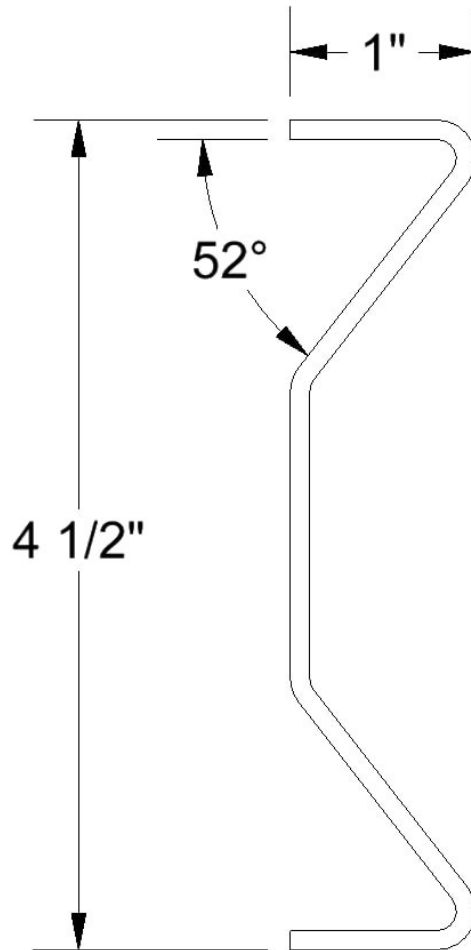
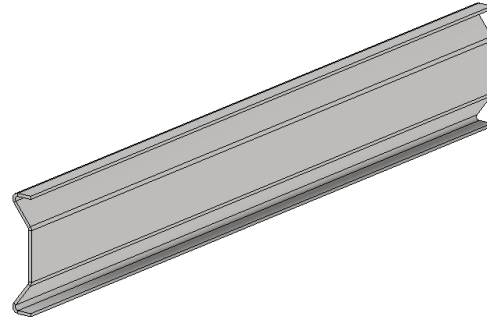


Product Description

- Toe kick is necessary to keep spaces within OSHA compliance

Product Features

- 12ga. Steel
- Roll Form or Press Brake
- Weld In or Screw On
- Resistant to Warping During Hot Dip Galvanizing



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L Toe Kick

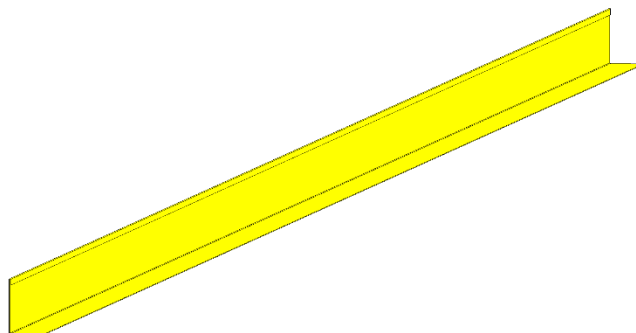


Product Description

- Toe kick is necessary to keep spaces within OSHA compliance

Product Features

- 14ga. Steel
- Press Brake
- Screw On
- Installed under mezzanine decking
- Adjustable height for varying decking thickness



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C Toe Kick

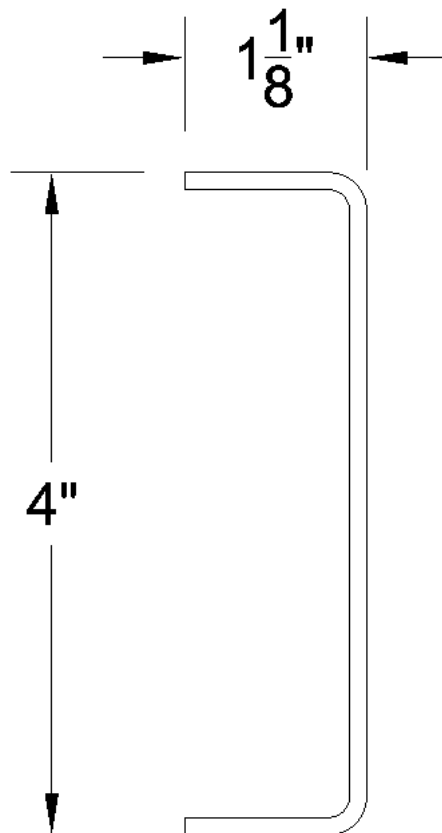
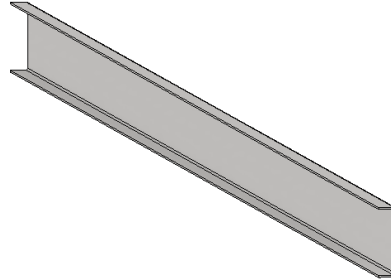


Product Description

- Toe kick is necessary to keep spaces within OSHA compliance

Product Features

- 12ga. Steel
- Roll Form or Press Brake
- Weld In



Product specifications and dimensions are approximate and for informational purposes only. Variations may occur due to design or manufacturing adjustments. For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.



Z Toe Kick

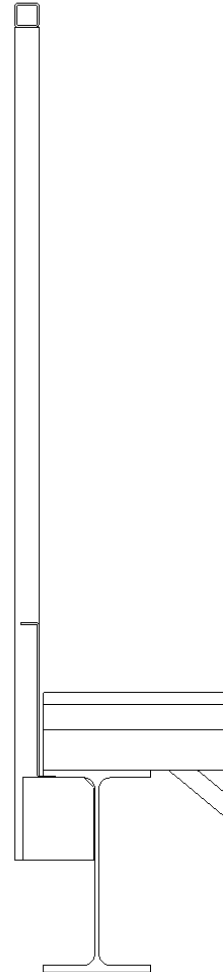
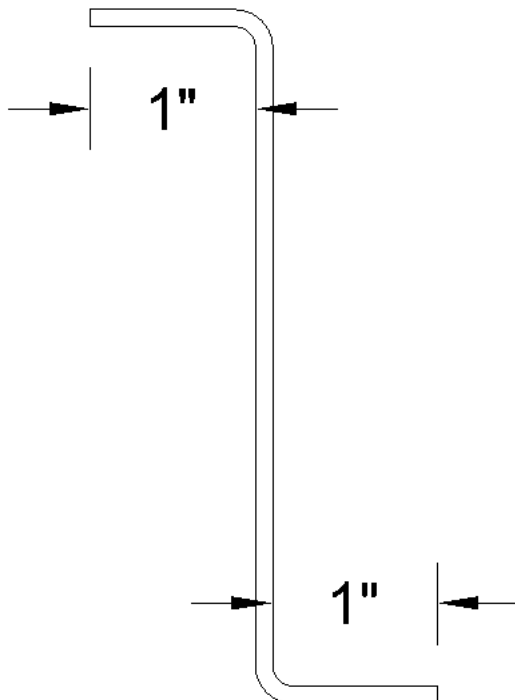


Product Description

- Toe kick is necessary to keep spaces within OSHA corr

Product Features

- 12ga. Steel
- Press Brake
- Weld In
- Adjustable height to cap beam or joist ends



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Swing Gate

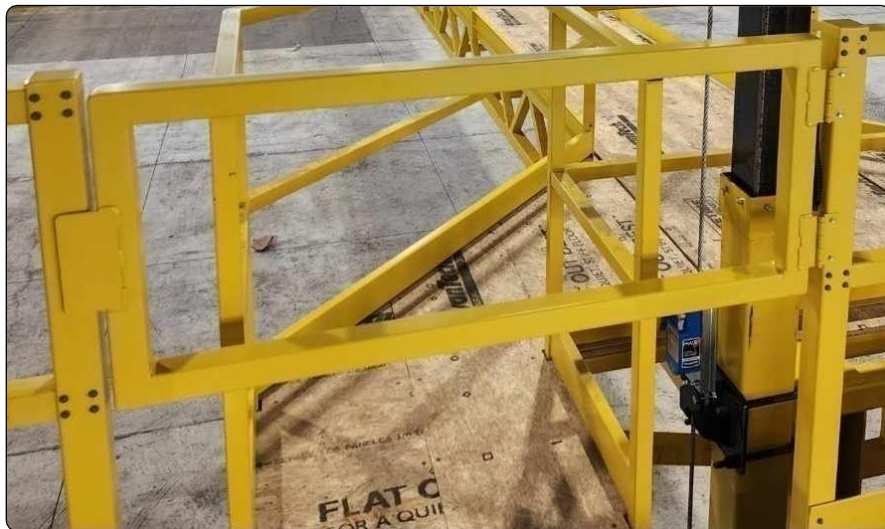
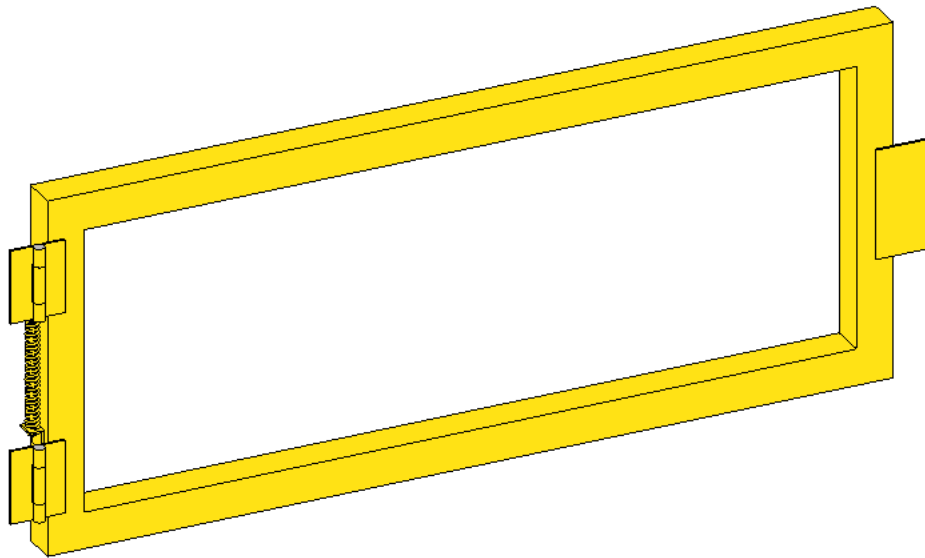


Product Description

- Simple safety access gate, custom designed for most common mezzanine exit point widths.
- Commonly used for mezzanine to work platform transfers.

Product Features

- Self-closing
- Opening Widths: 14" - 52"



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Manual Flip Gate



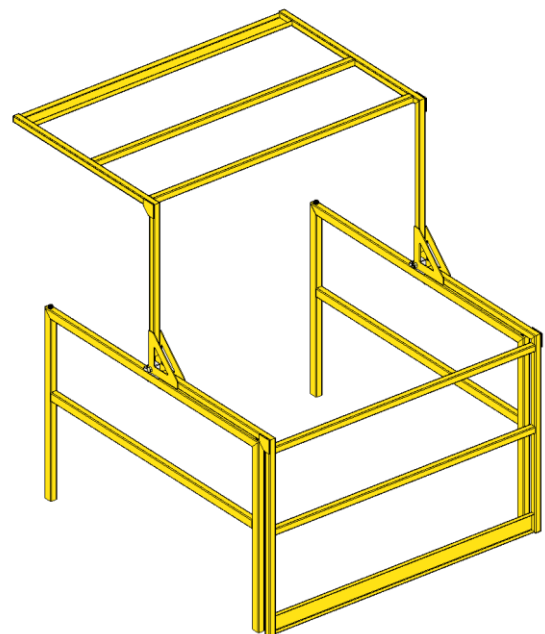
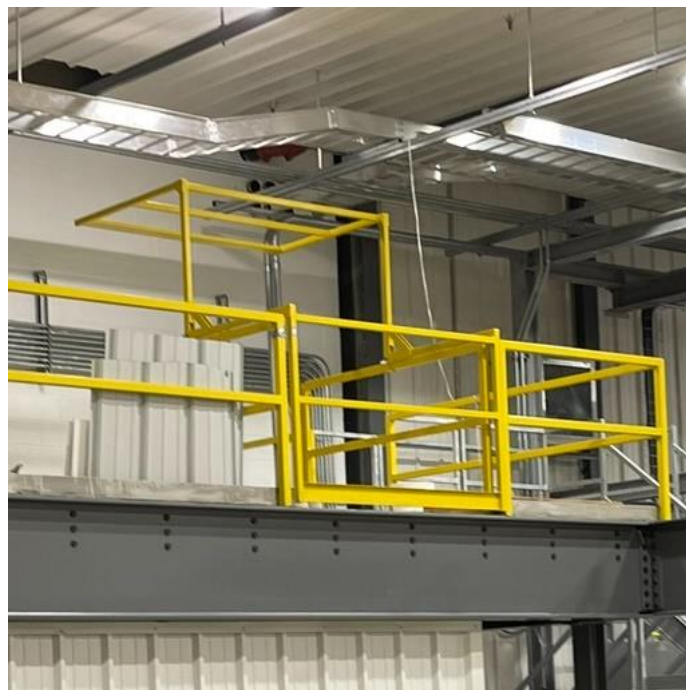
Product Description

- Gate option that provides a guarded edge at all times.

Product Features

- Provides safe area for material access
- Easy operation
- Optional: air powered lift

LiftMaster



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Manual Drop Gate

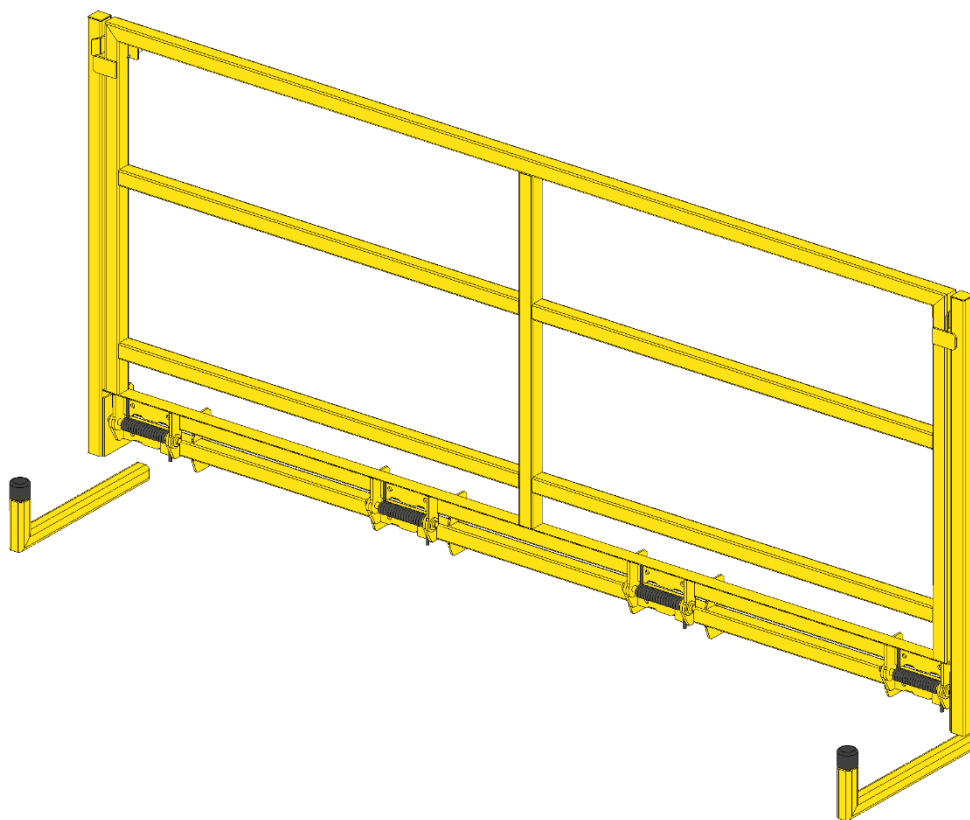


Product Description

- Manual Mezzanine Drop Gate

Product Features

- Minimize gate footprint
- Provides access for material handling



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LD Manual Rolling Gate

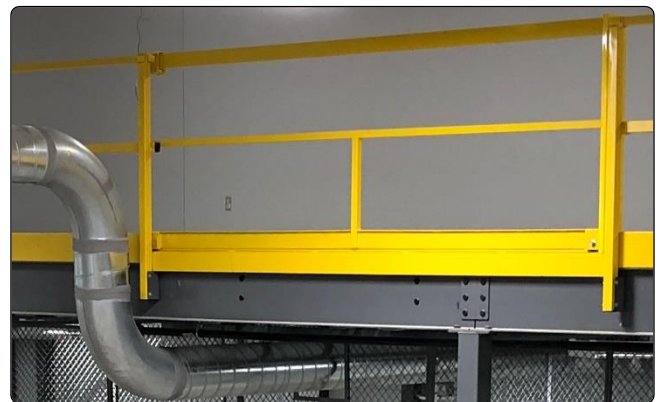
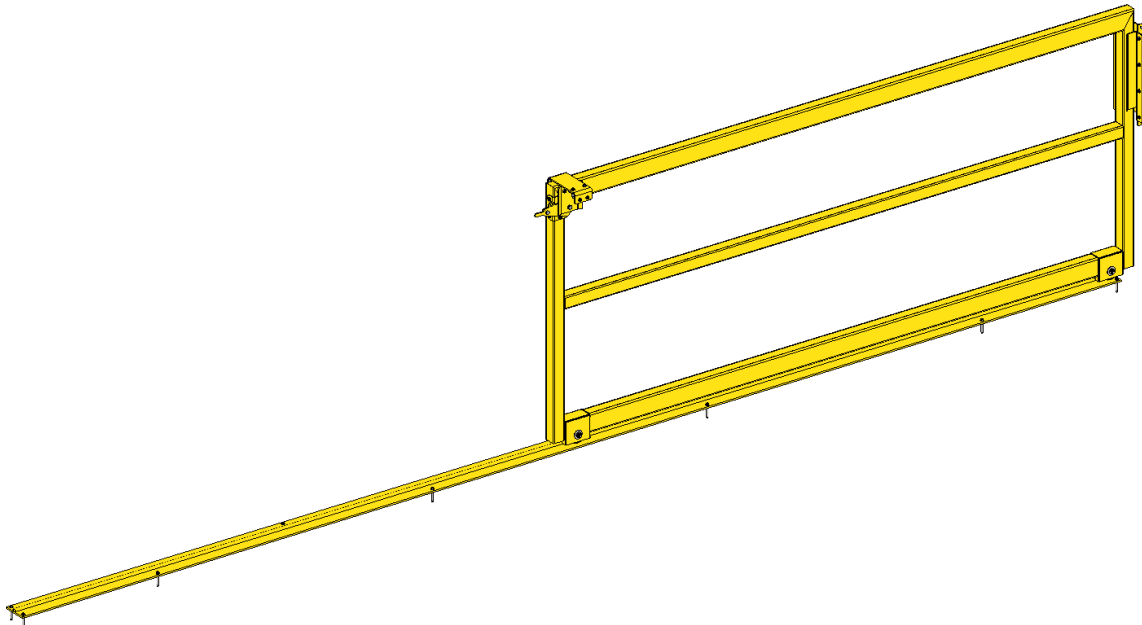


Product Description

- Our economical access solution.

Product Features

- Provides easy access for pallets and material
- Max Opening: 16'



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LD Motorized Rolling Gate

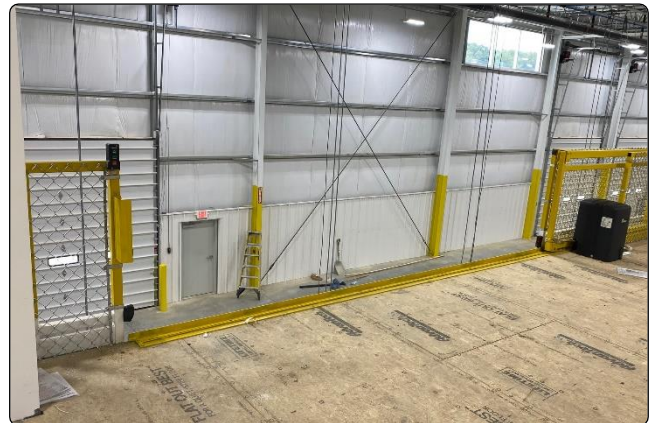
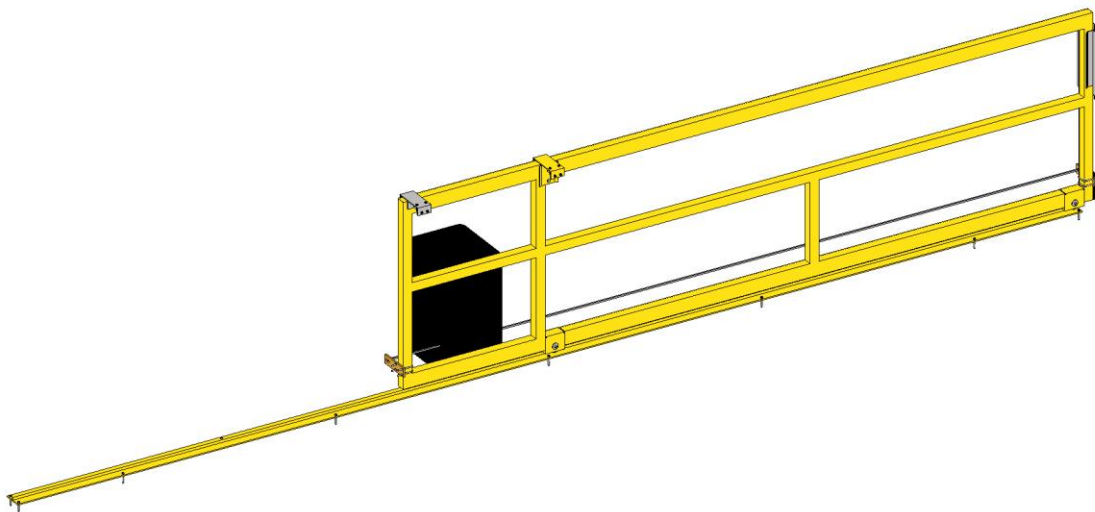


Product Description

- Upgraded version of the manual gate with motorized operation.

Product Features

- Provides easy access for pallets and material
- Max Opening: 16'



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Motorized Overhead Gate

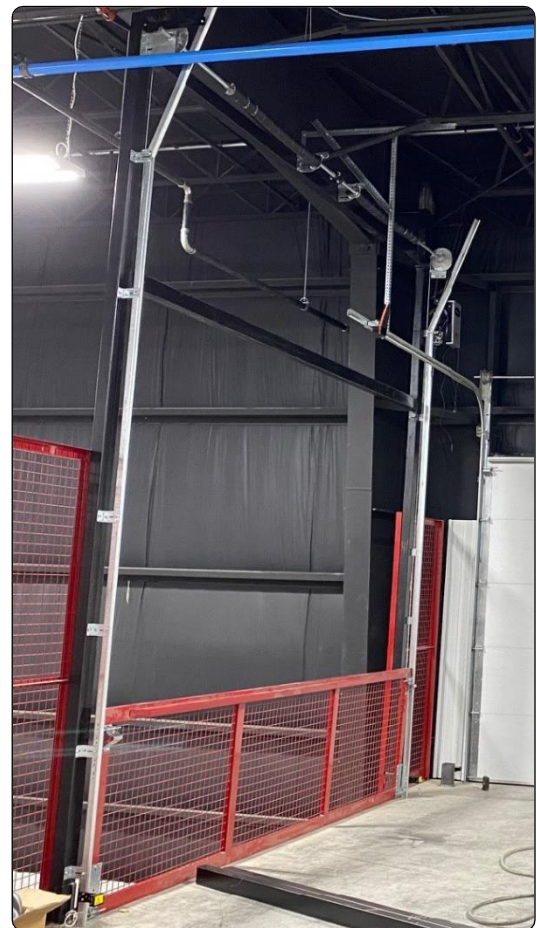
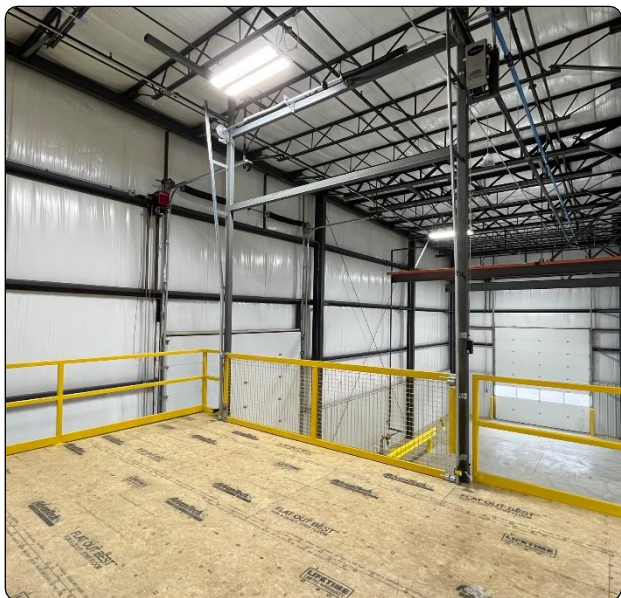
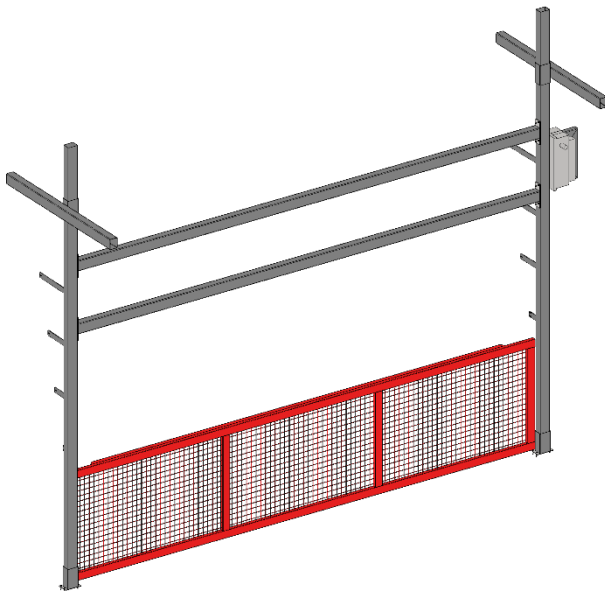


Product Description

- Garage door style overhead gate with motorized operation.

Product Features

- A great option for securing and pallet/material loading zones
- Operable from floor or mezzanine level



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Motorized Drop Gate

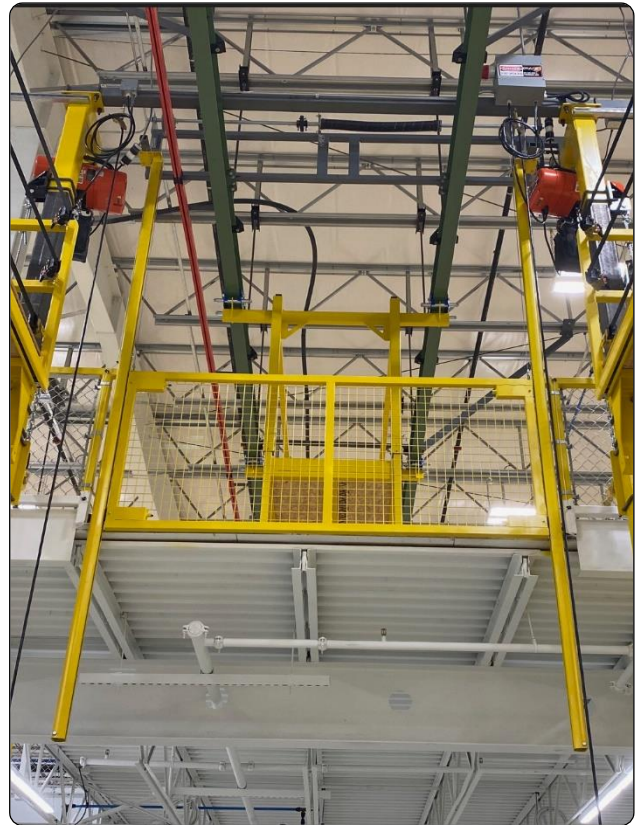
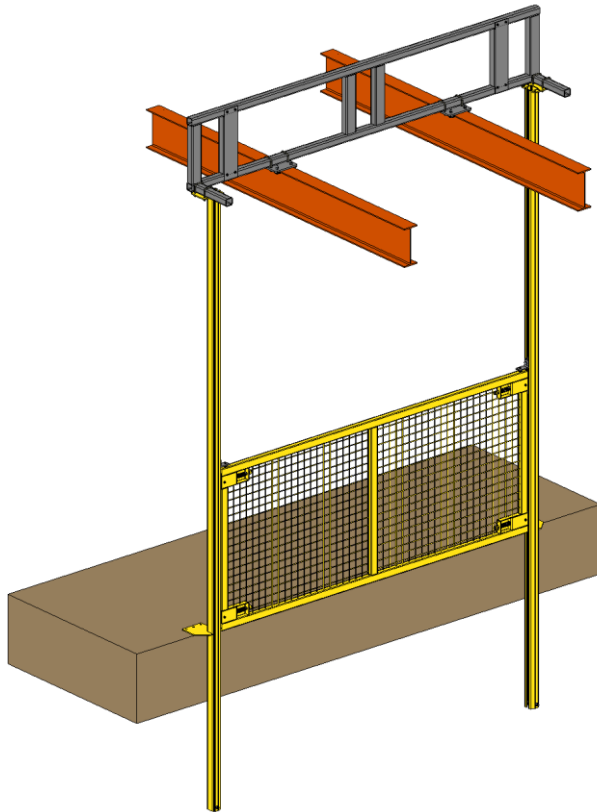


Product Description

- Specialized design allowing for the transfer of material through the gate with an overhead crane system.

Product Features

- Minimize gate footprint
- Provides access for material handling



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Material Chute

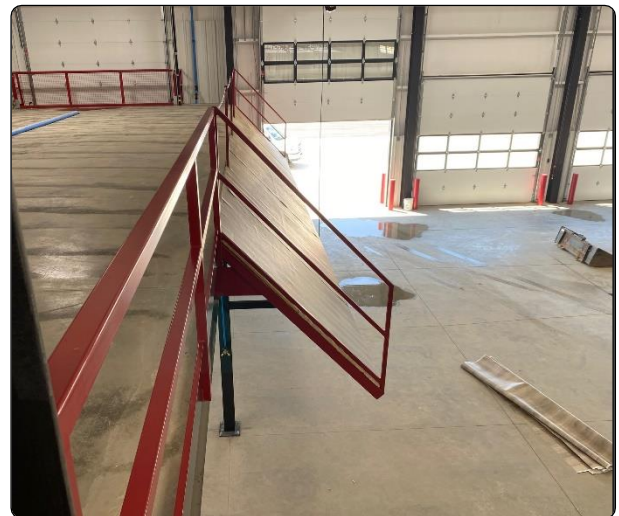
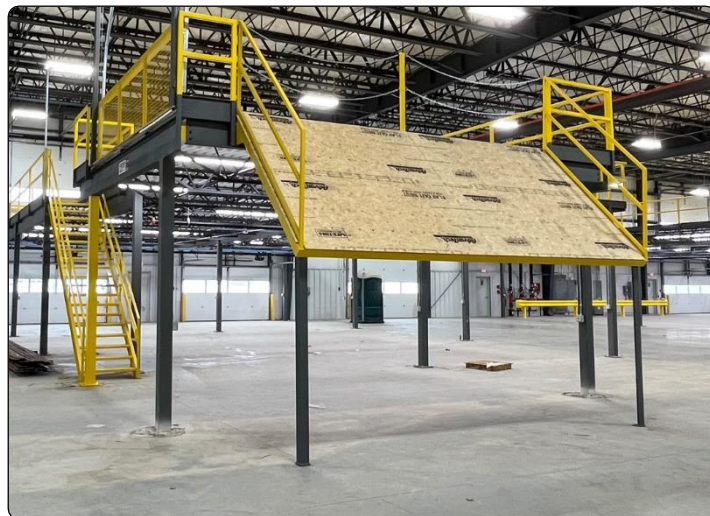
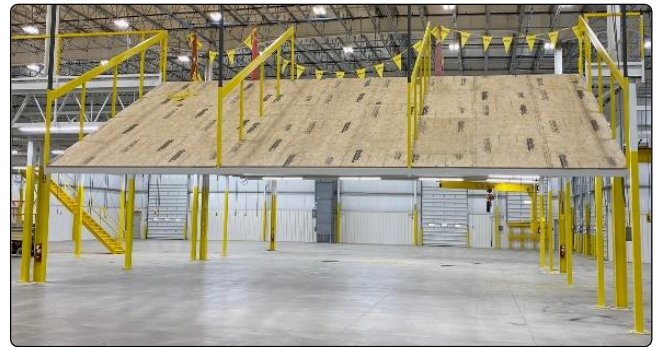
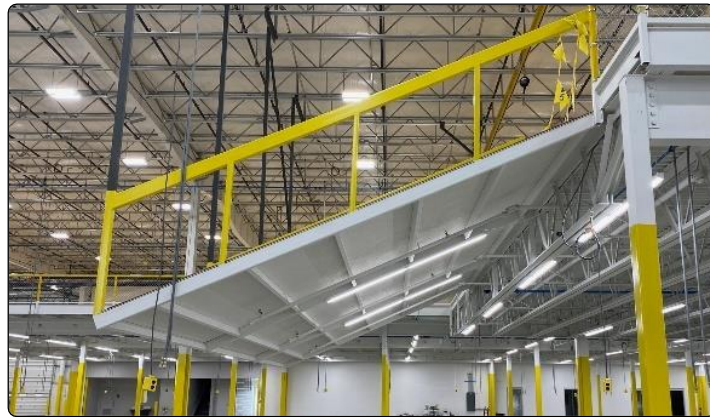


Product Description

- Material delivery chute designed to send components to the production line directly from the mezzanine level.
- These are often combined with a fall protection system for the increased safety of workers at the mezzanine level.

Product Features

- Optional mounting: cantilever, column mounted
- Quick access to stored products and materials



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Mezzanine Mounted Under Running Crane

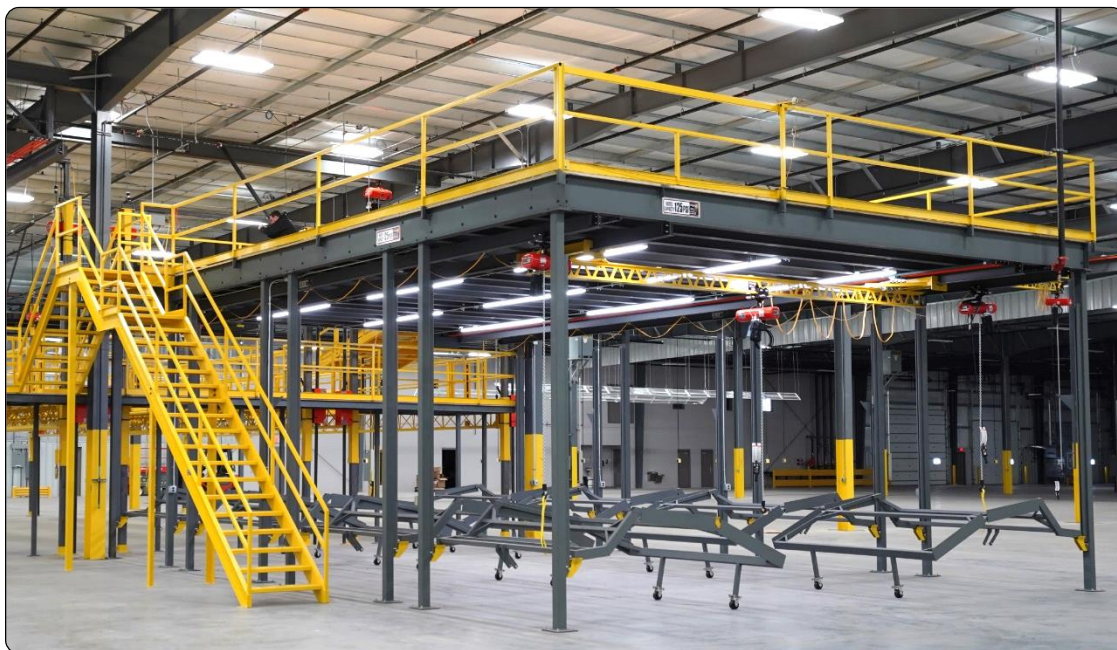
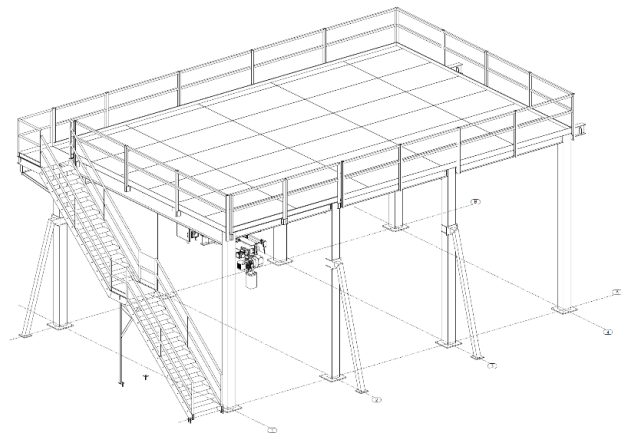
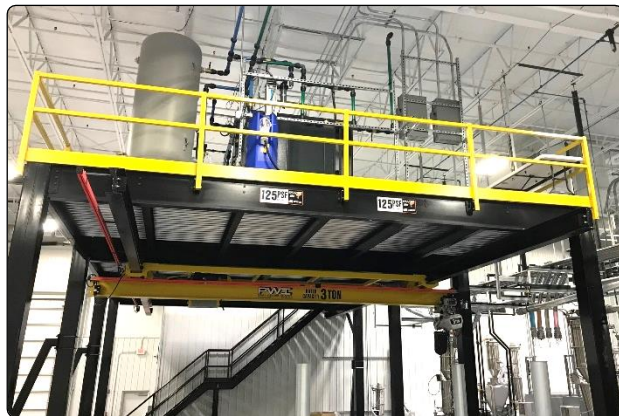


Product Description

- Gain additional space all while increasing production efficiency through pairing a mezzanine with our manual or motorized under running crane systems.

Product Features

- Capacity: 500lbs. 1,000lbs. 1 Ton, 2 Ton, 3 Ton
- Span: 5'-60'



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Outrigger



Product Description

- A mezzanine outrigger is a perfect solution to provide working level access to any PWI work platforms or production line process.
- This feature allows you to maintain a satisfactory mezzanine clearance, while improving safety and access to other processes at the same time.

Product Features

- Optional Mounting: Cantilever, Column Mounted
- Access production area without sacrificing storage



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Stairway Configurations



Cranes

Mezzanine

Fall Protection

Smart Solutions

Straight



L



Switchback



Crossover



Cranes

Mezzanine

Fall Protection

Smart Solutions



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Ship Stairs

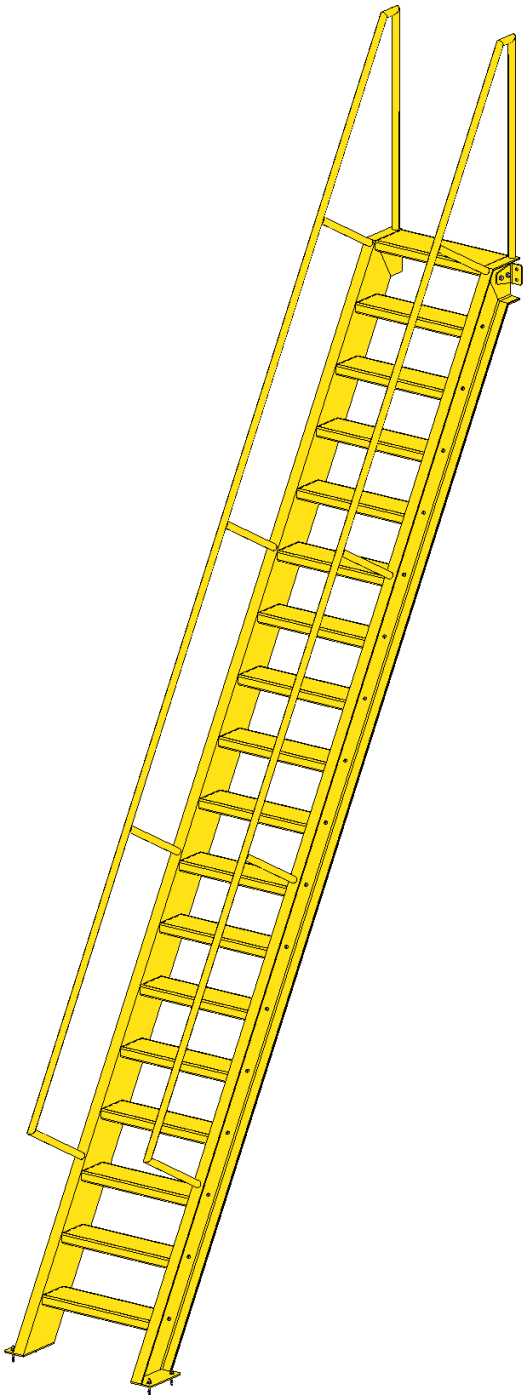


Cranes

Mezzanine

Fall Protection

Smart Solutions

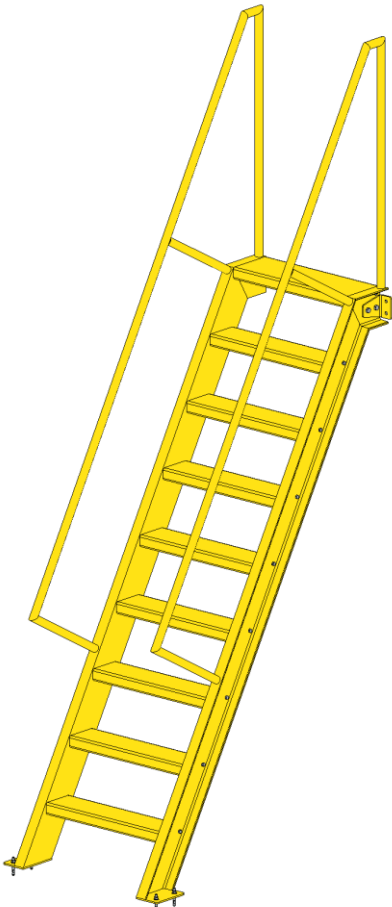


Cranes

Mezzanine

Fall Protection

Smart Solutions



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Ship Stairs



Cranes

Mezzanine

Fall Protection

Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions

1910.25(e)

Ship stairs. In addition to paragraph (b) of this section, the employer must ensure ship stairs (see Figure D-9 of this section):

1910.25(e)(1)

Are installed at a slope of 50 to 70 degrees from the horizontal;

1910.25(e)(2)

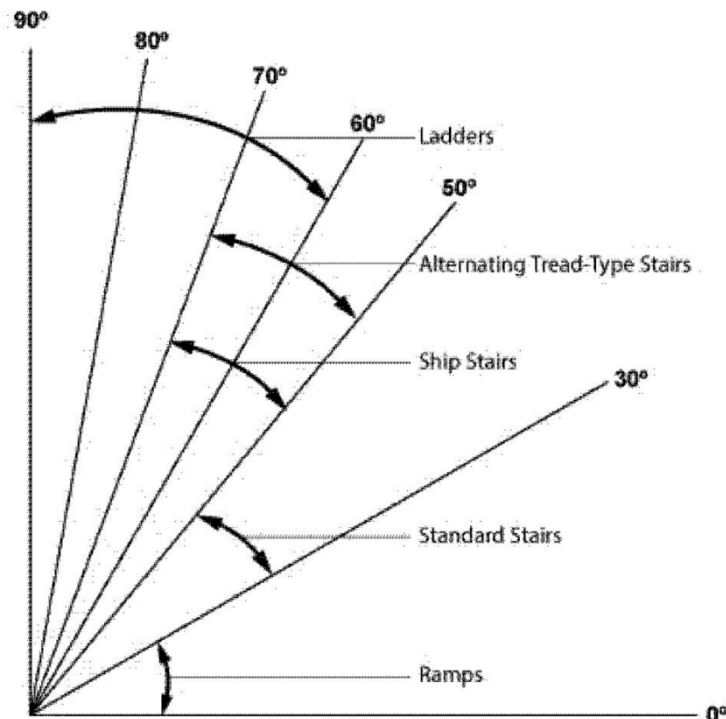
Have open risers with a vertical rise between tread surfaces of 6.5 to 12 inches (17 to 30 cm);

1910.25(e)(3)

Have minimum tread depth of 4 inches (10 cm); and

1910.25(e)(4)

Have a minimum tread width of 18 inches (46 cm).



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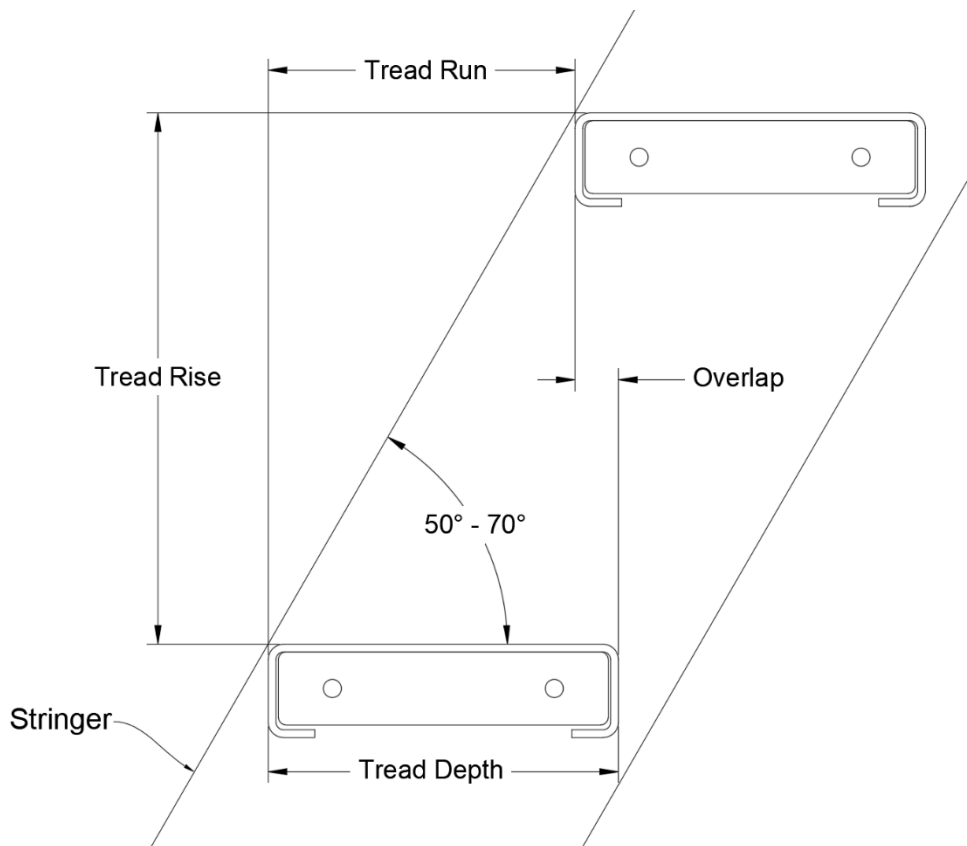


Ship Stairs



OSHA Ship Stairs Specs:

OSHA Degree Range:	50° - 70°
OSHA Tread Rise:	6.5" - 12"
OSHA Minimum Tread Run:	4"
OSHA Minimum Tread Width:	18"



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CHOOSE YOUR TREAD TYPE

OSHA Compliant

Diamond Plate Open Riser

- 7-9" rise
- 8 1/2" run
- Popular for industrial
- Embossed diamond for traction and durability

OSHA Compliant

Bar Grating Open Riser

- 7-9" rise
- 8 1/2" run
- Popular for industrial
- Anti-slip serrated grating

IBC Compliant

Bar Grating Partially Closed Riser

- 6-7" rise
- 11" run
- Popular for industrial
- Anti-slip serrated grating

IBC Compliant

Diamond Plate Closed Riser

- 6-7" rise
- 11" run
- Popular for industrial
- Embossed diamond for traction and durability

IBC Compliant

Poured Pan Closed Riser

- 6-7" rise
- 11" run
- Popular for contractors
- Ultimate sturdiness with concrete

IBC Compliant

Diamond Plate "Thick Profile" Open Riser

- 6-7" rise
- 11" run
- Popular for industrial
- Embossed diamond for traction and durability

CHOOSE YOUR RAILING TYPE

Cranes

Mezzanine

Fall Protection

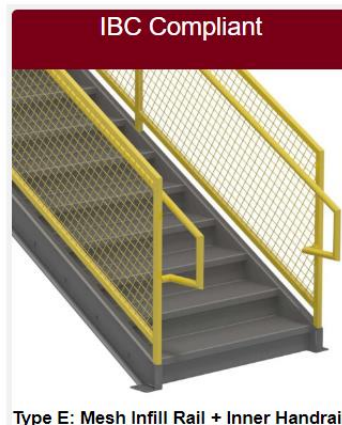
Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



Paint Colors



Cranes

Cranes

Mezzanine

Mezzanine

Fall Protection










Fall Protection

Smart Solutions

Smart Solutions

CHOOSE YOUR COATING

You are choosing the coating for the entire stairway package including the railing.

<p>Interior</p>  <p>Gray Primer Apply your own finish paint</p>	<p>Interior</p>  <p>Safety Yellow Paint Industrial application</p>	<p>Interior</p>  <p>Black Paint Commercial application</p>
<p>Interior</p>  <p>Orange Paint Commercial application</p>	<p>Interior</p>  <p>Blue Paint Commercial application</p>	<p>Interior</p>  <p>Red Paint Commercial application</p>
<p>Interior</p>  <p>Gray Paint Commercial application</p>	<p>Exterior</p>  <p>Black Epoxy Coating Commercial application</p>	<p>Exterior</p>  <p>Galvanized Industrial application * Only available with bar grating tread * Adds 2 weeks to standard lead time</p>



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Ladder



Cranes

Mezzanine

Fall Protection

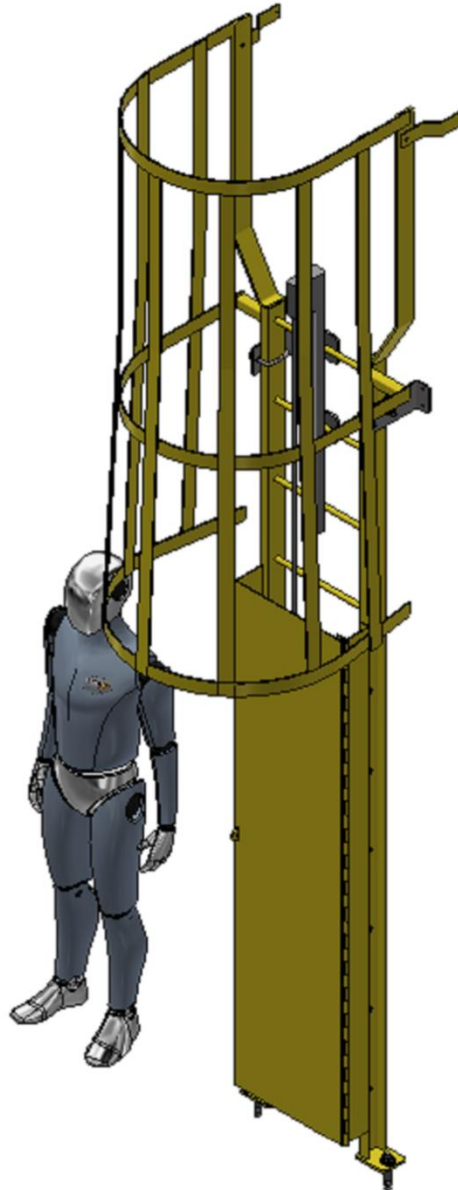
Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



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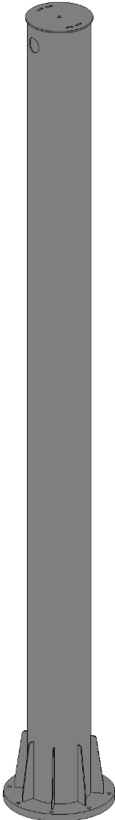
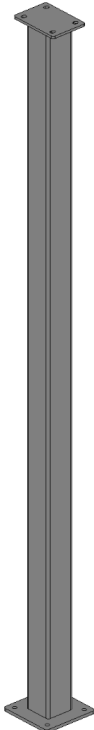
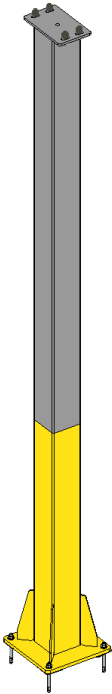
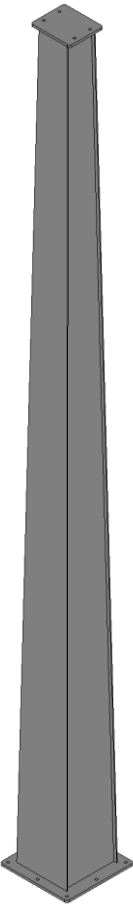
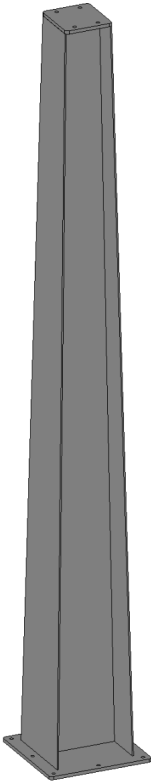
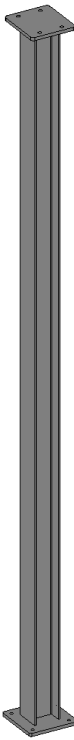


Columns



Product Description

- 6 different types of columns are used for a variety of applications:
- Cranes
- Mezzanines
- Fall Protection

Gusseted Pipe	Tube	Gusseted Tube	Tapered Box	Tapered Beam	W Beam
Unbraced 2 Tone Paint	Braced 2 Tone Paint	Unbraced 2 Tone Paint	Unbraced Height: 20' – 30'	Unbraced Max Height: 20'	Braced
					

Column Placement

Many times, the existing concrete conditions dictate where a column can be placed to due to minimum edge distance that the anchor can be from edge of slab.

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Column Footing



Product Description

For high-capacity crane systems or mezzanines, footers are necessary to support the columns. Using a variety of structural calculation software, PWI ensures safety while keeping the footprint as small as possible.

Engineering Notes:

THE ENGINEER HAS ASSUMED 3000 PSF SOIL BEARING.
THE OWNER IS RESPONSIBLE FOR ANY INFORMATION THAT WOULD AFFECT THIS ASSUMPTION.

ALL CONCRETE POURED WITH A SLUMP OF FOUR.

CONCRETE TO BE 3000 PSI IN 28 DAYS AND WORK IS TO CONFORM CRSI AND PSA SPECIFICATIONS.

ANY FILL MATERIAL UNDER BEARING LOCATIONS TO BE COMPACTED TO 100% STD. PROCTOR AND OF APPROVED MATERIAL.

ANY FILL MATERIAL REQUIRED AT OTHER LOCATIONS TO BE COMPACTED TO 95% MODIFIED PROCTOR AND MEET PCA RECOMMENDATIONS, OR PER SOIL INVESTIGATION REPORT.

ALL REINFORCING STEEL TO BE GRADE 60 PER ASTM SPECIFICATIONS.

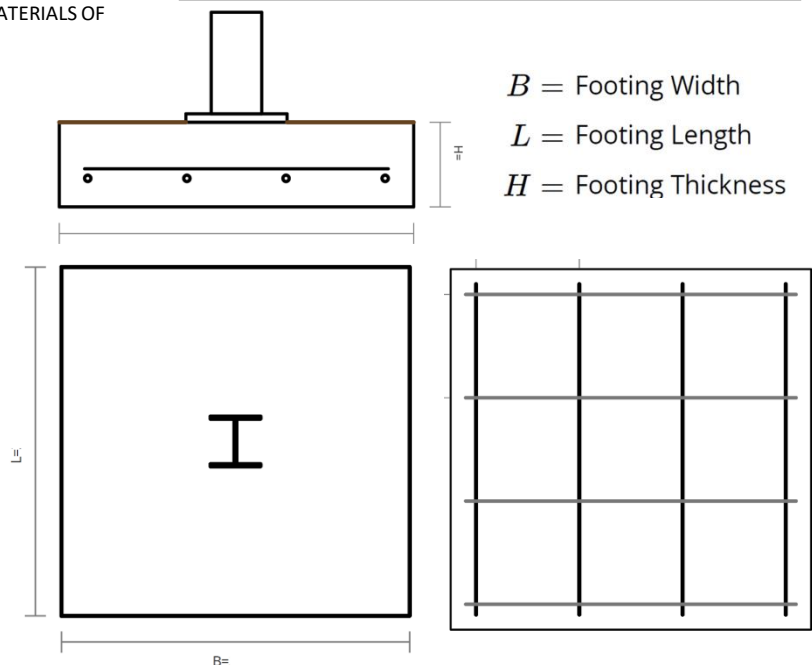
EXPANSIONS JOINTS AND CONTROL JOINTS TO BE PLACED AS RECOMMENDED BY SCI, CRS, PCA, ACSI, LOCAL CODES, AND THE STEEL BUILDING MANUFACTURER.

ALL UNSPECIFIED CONSTRUCTION TO MEET ALL STATE AND LOCAL CODE REQUIREMENTS.

ALL MATERIALS MUST BE APPROVED AND LISTED FOR THEIR INTENDED USE.

ALL MATERIALS LISTED MAY BE SUBSTITUTED WITH APPROVED MATERIALS OF EQUAL OR BETTER QUALITY.

Footer Size (ft)	Kips	Thickness (in.)	3/4" (#6) Rebar
L / B		H	Qty.
3.0	25	12	3
3.5	34	12	4
4.0	44	12	4
4.5	53	12	5
5.0	68	14	5
5.5	82	14	6
6.0	98	16	6
6.5	115	17	7
7.0	130	18	8
8.0	168	21	9
9.0	212	23	11
10.0	260	26	13



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Column Footing



Concrete Footer Install Process:

- Cutting
- Removing Slab
- Excavation
- Place Rebar
- Pour
- Finish



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Column Footing



Monolithic Concrete Footer Install Process:

- Excavation
- Place Rebar
- Pour with slab pour
- Finish with slab



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Column Anchors



Product Features

- Wedge Anchor
 - Post-installed anchor
 - Used for light duty applications
- Screw Anchor
 - Post-installed anchor
 - Used for light duty applications
- Epoxy Anchor
 - Post-installed anchor
 - Used for medium to heavy applications
- CIP Anchor
 - Type A: L Anchor
 - Type F: Square Plate Washer
 - Cast-in-place anchor installed into wet concrete
 - Used for heavy duty applications or when large embedment depths are required

Cranes

Mezzanine

Fall Protection

Smart Solutions

Wedge



Screw



Epoxy



CIP: A



CIP: F



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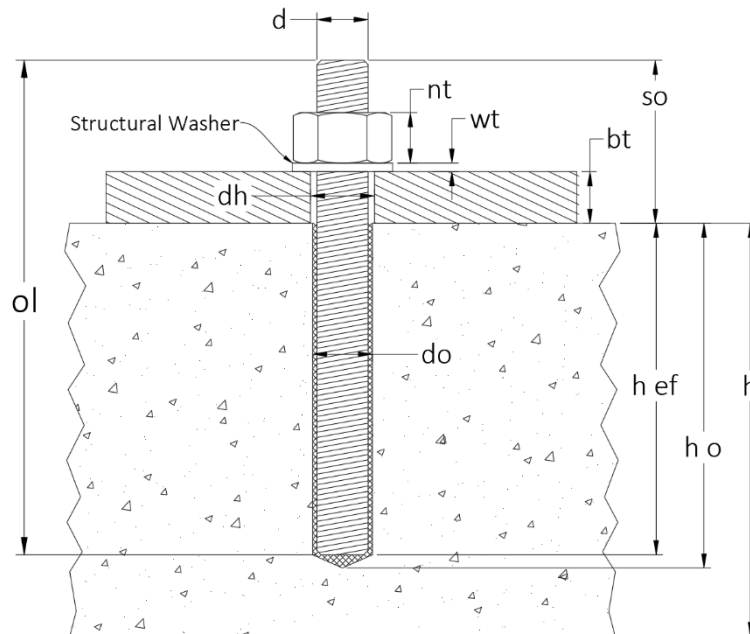


Column Anchors



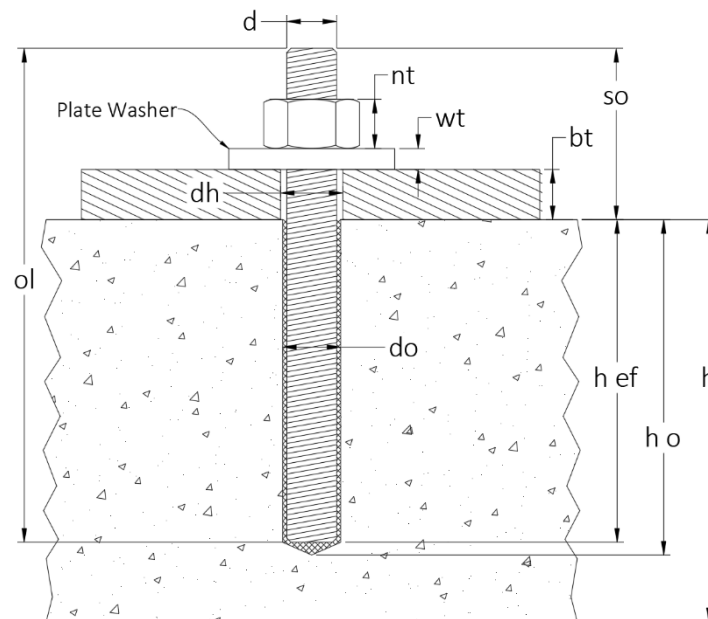
Form ID: EP1

Epoxy Anchor Specs



Form ID: EP2

Epoxy Anchor Specs



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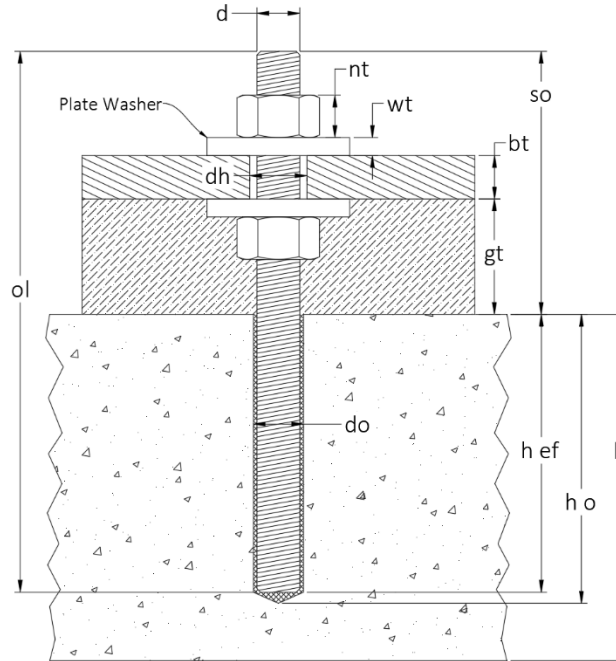


Column Anchors



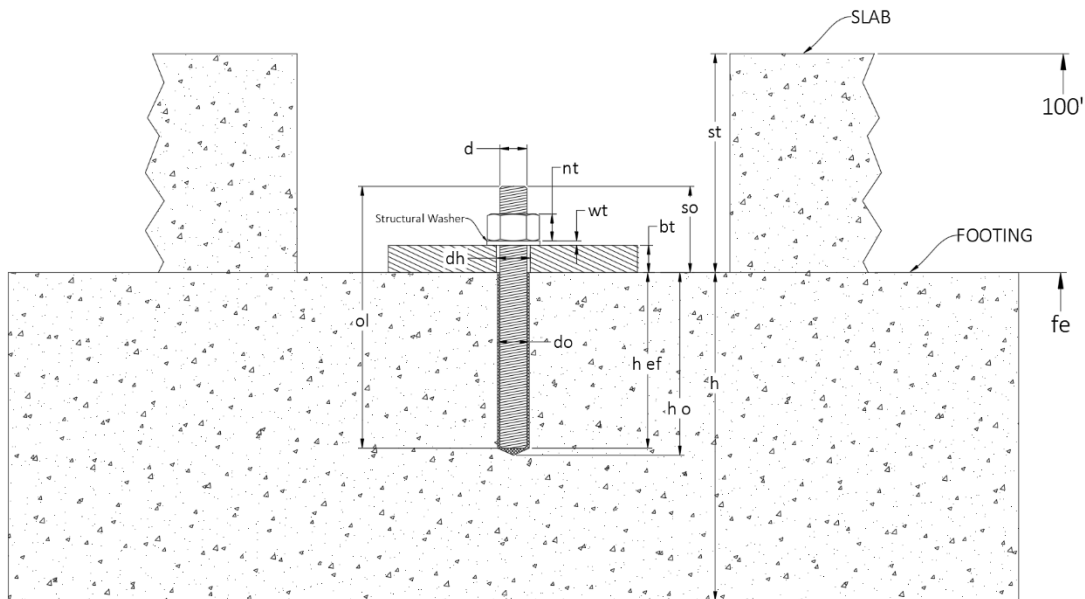
Form ID: EP3

Stand Off Epoxy Anchor Specs



Form ID: EP4

Recessed Epoxy Anchor Specs



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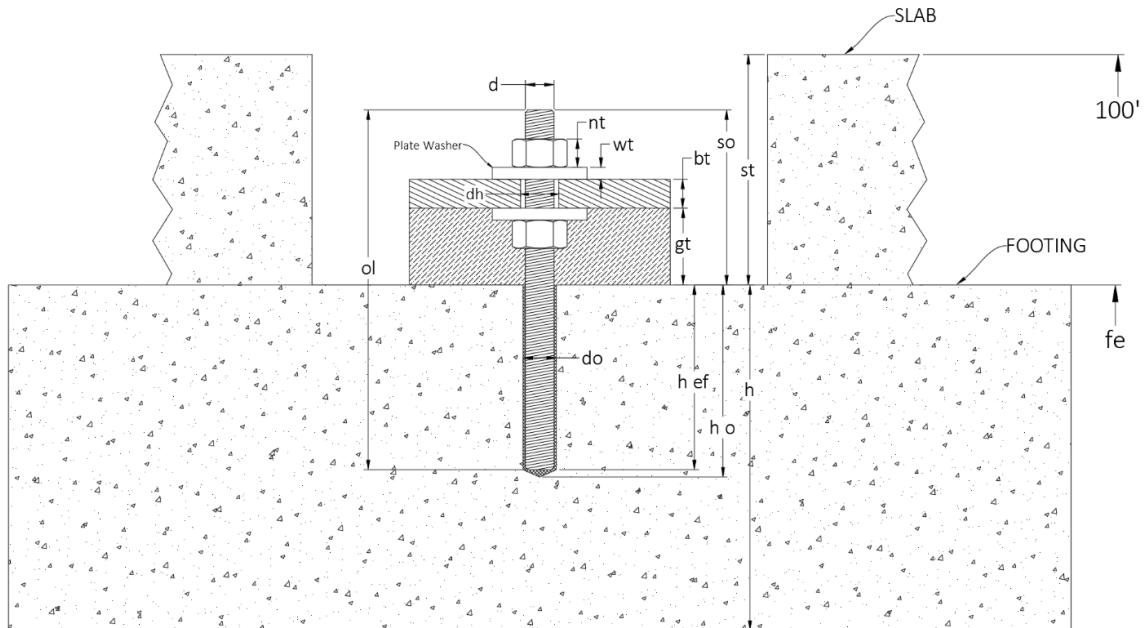


Column Anchors



Form ID: EP5

Recessed Epoxy Stand Off Anchor Specs

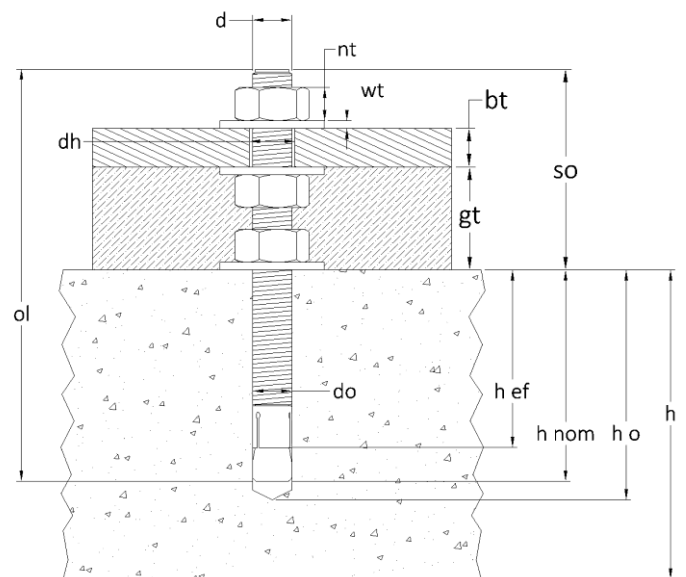
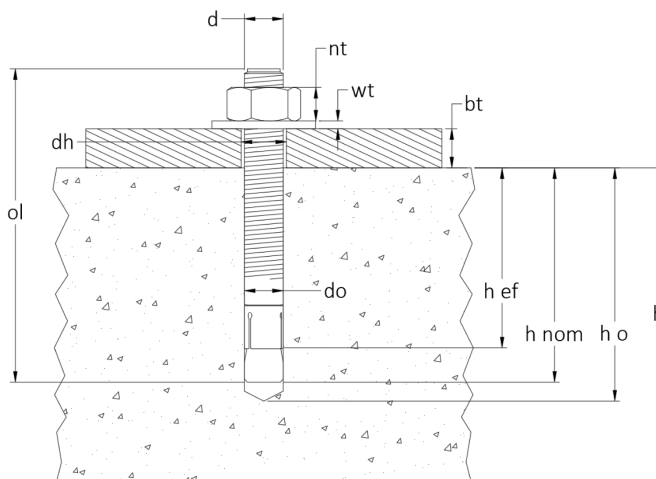


Form ID: WE2

Stand Off Wedge/Expansion Anchor Specs

Form ID: WE1

Wedge/Expansion Anchor Specs



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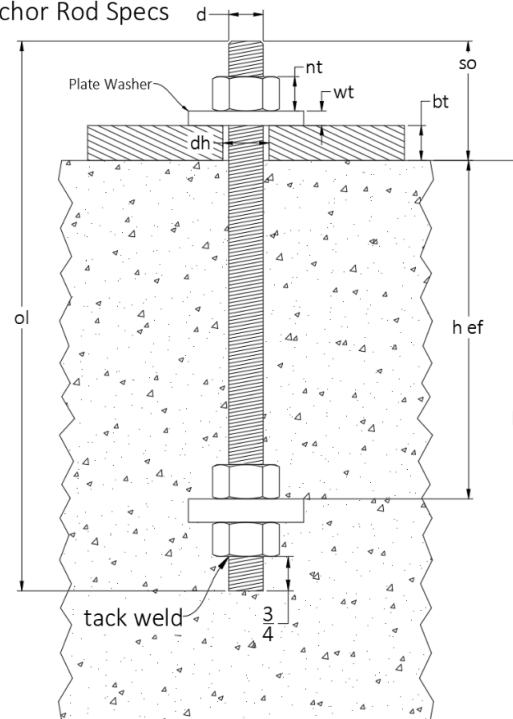


Column Anchors



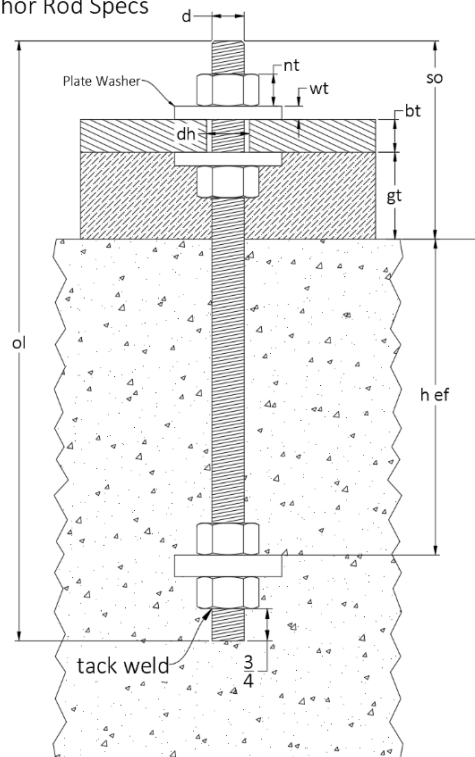
Form ID: AR1

Anchor Rod Specs



Form ID: AR2

Stand Off Anchor Rod Specs



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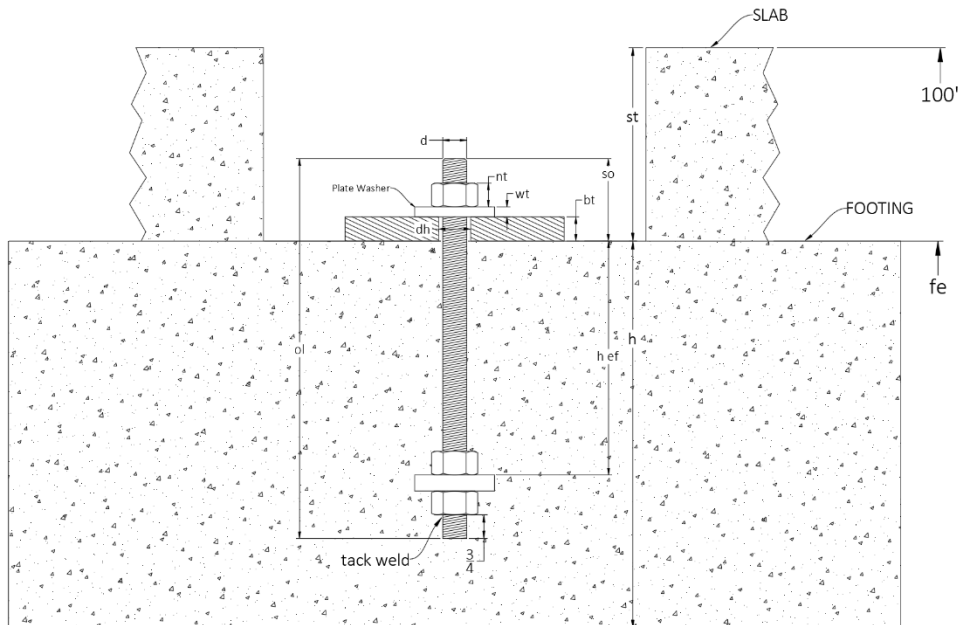


Column Anchors



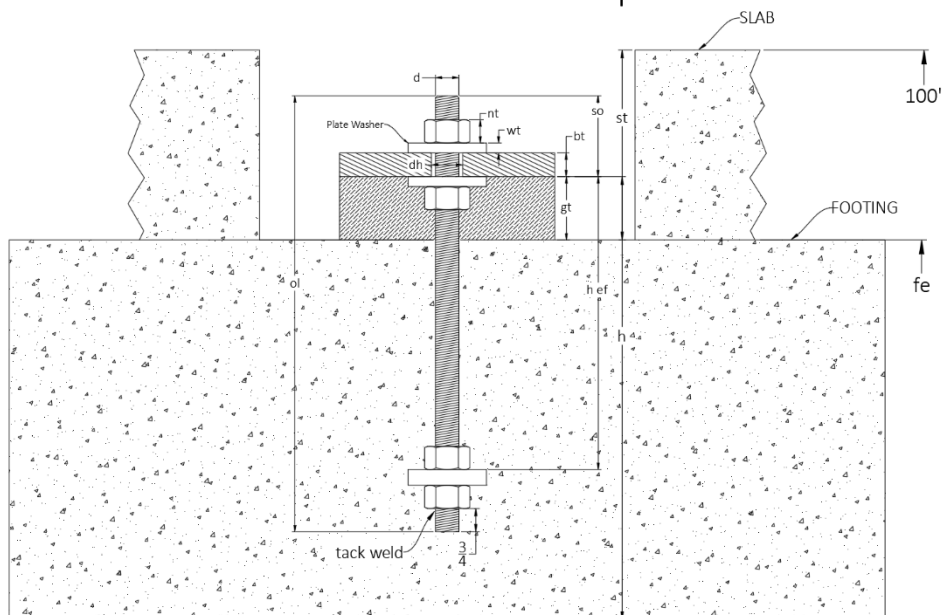
Form ID: AR3

Recessed Anchor Rod Specs



Form ID: AR4

Recessed Stand Off Anchor Rod Specs



Product specifications and dimensions are approximate and for informational purposes only. Variations may occur due to design or manufacturing adjustments. For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.

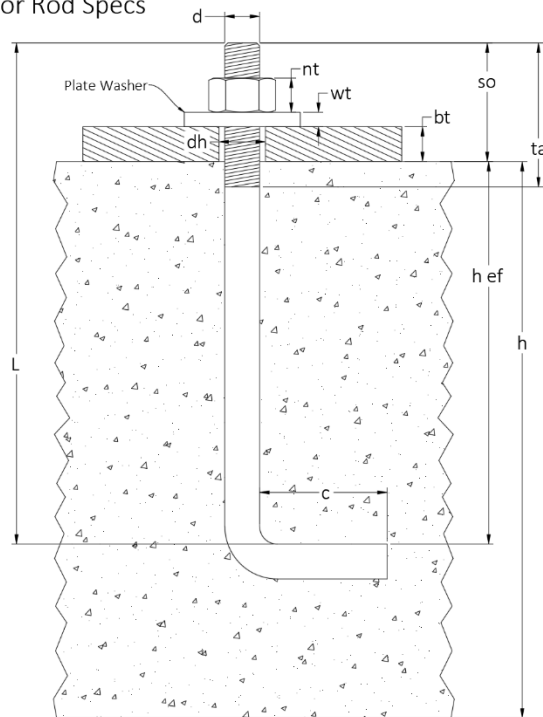


Column Anchors



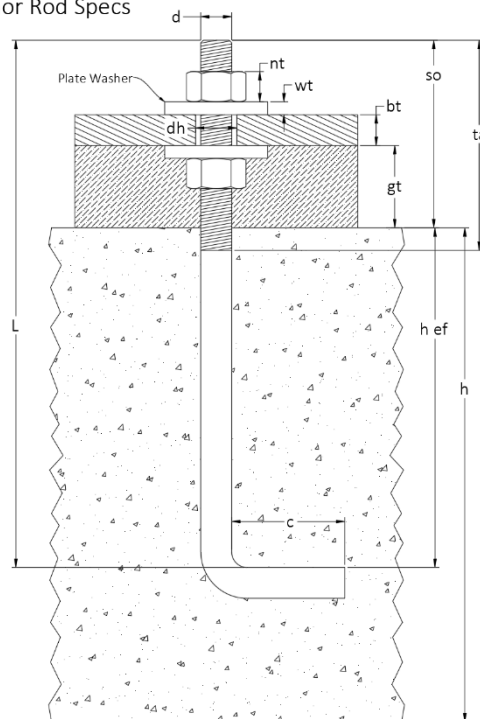
Form ID: AR5

Stand Off Anchor Rod Specs



Form ID: AR6

Stand Off Anchor Rod Specs



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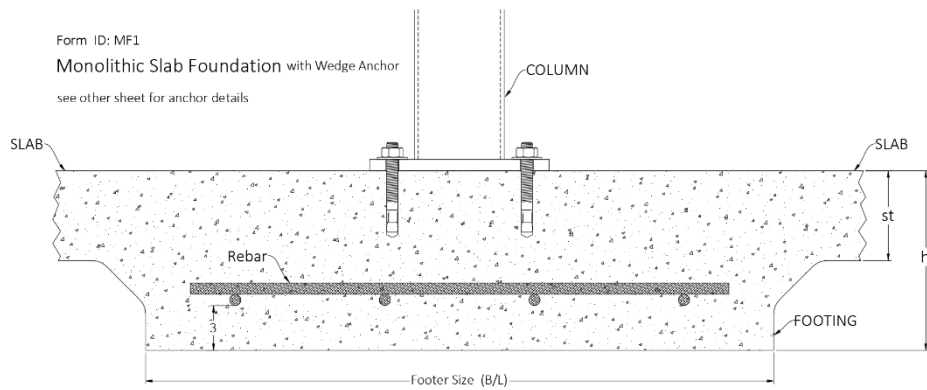
Column Anchors



Form ID: MF1

Monolithic Slab Foundation with Wedge Anchor

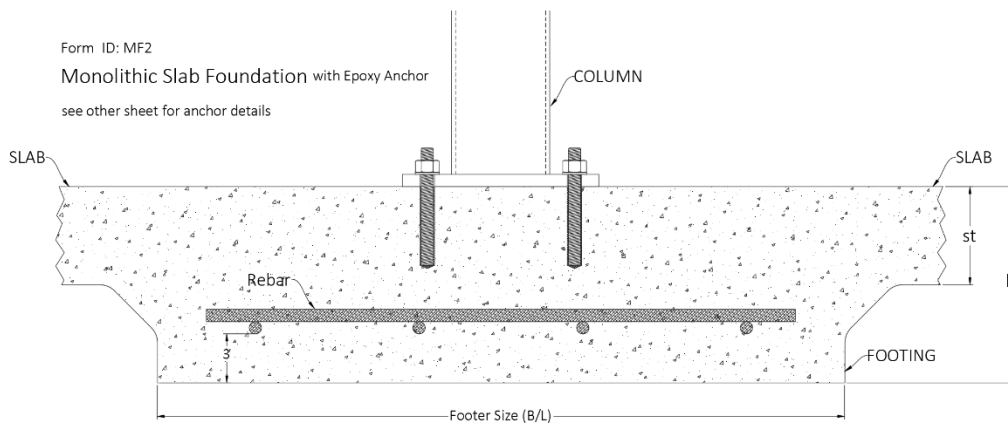
see other sheet for anchor details



Form ID: MF2

Monolithic Slab Foundation with Epoxy Anchor

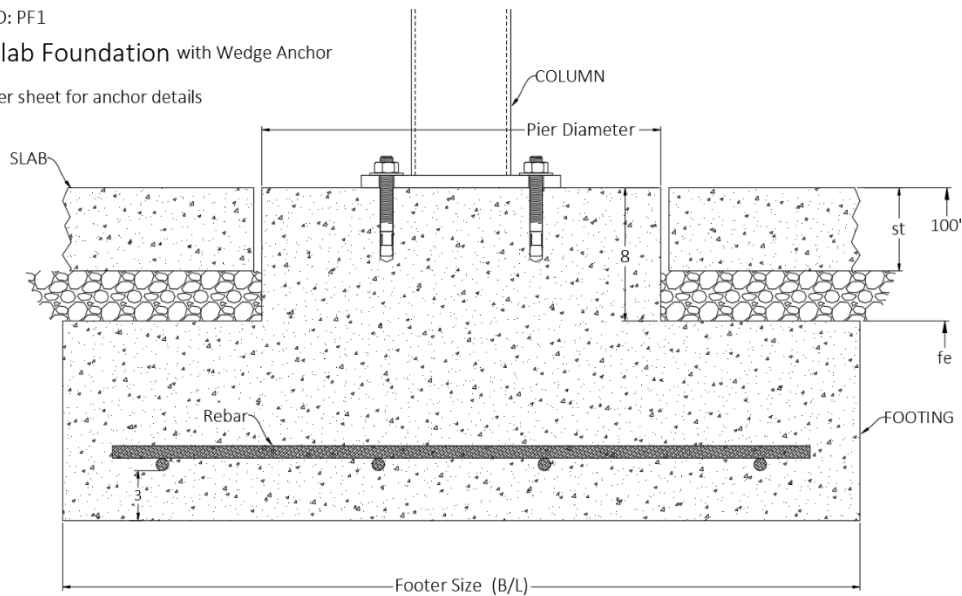
see other sheet for anchor details



Form ID: PF1

Pier Slab Foundation with Wedge Anchor

see other sheet for anchor details



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Column Grout



Grout Installation: If the steel column is already fixed with setting nuts, and a wood form is used to contain the grout during the installation process, the procedure can be adjusted as follows:

Materials and Tools Needed:

- Non-shrink grout
- Steel column with setting nuts
- Wood formwork
- Clean water
- Mixing container or mixer
- Trowel
- Shims
- Level
- Measuring tape
- Safety gear (gloves, safety glasses, and dust mask)

Procedure:

1. Preparation:

- Ensure the steel column with setting nuts and the wood formwork are in place and properly aligned.
- Check the dimensions and layout of the base plate and verify that it is correctly positioned within the wood form.

2. Mixing the Non-Shrink Grout:

- Follow the manufacturer's instructions for the appropriate water-to-grout ratio.
- Place the non-shrink grout into a clean container or mixer.
- Gradually add water while mixing until you achieve a smooth, lump-free consistency. Do not overmix.

3. Placing the Wood Formwork:

- Set up the wood formwork around the base of the steel column to create a containment area for the grout.
- Ensure that the formwork is securely in place and that there are no gaps or leaks through which the grout could escape.

4. Pouring the Non-Shrink Grout:

- Carefully pour the mixed grout into the containment area created by the wood formwork.
- Work quickly but carefully to ensure the grout fills the space evenly and covers the setting nuts.
- A hopper or funnel may be helpful in this step.



Column Grout



5. Positioning the Steel Column Base Plate:

- Place the steel column base plate onto the freshly poured grout within the wood form.
- Ensure that it is properly aligned with the setting nuts and the formwork.
- Use a level to confirm that the base plate is level in all directions.

6. Shimming (if necessary):

- Use shims as needed to make precise adjustments to the position and level of the base plate.
- Insert shims under the base plate until it is perfectly level.
- Or use setting nuts to adjust column to confirm it is level and at the correct elevation.

7. Curing:

- Allow the grout to cure according to the manufacturer's recommendations. This may involve keeping the area moist and covering it to prevent rapid drying.
- Curing time can vary, but typically it takes a few days to achieve full strength.

8. Final Inspection:

- After the grout has fully cured, check the base plate for any movement or settlement.
- Verify that the column base plate is securely in place and level.

9. Remove Wood Formwork:

- Carefully remove the wood formwork from around the grouted area.

10. Clean Up:

- Clean all tools and equipment promptly to prevent grout from hardening on them.

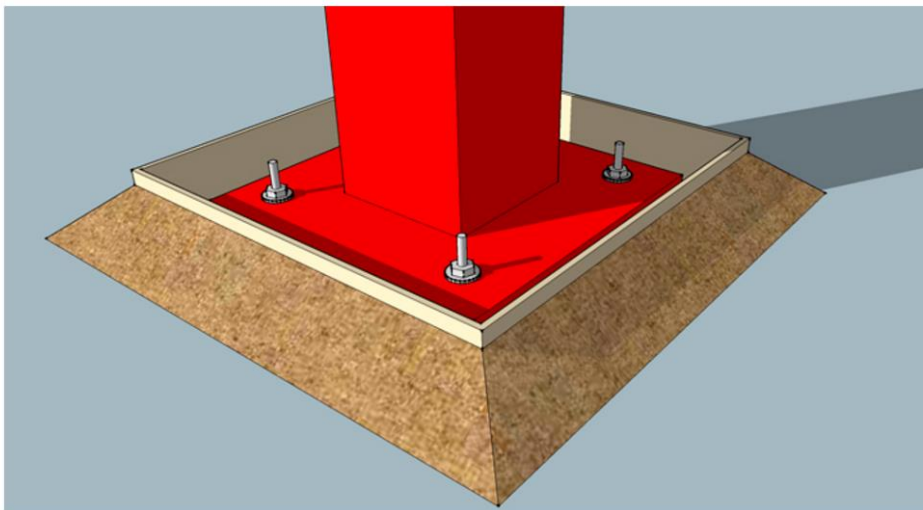
Before applying any load to the steel column base plate, you should wait until the grout has fully cured, and the final inspection confirms that it is secure and level. The loading list and specific loading requirements will depend on the project's engineering specifications and calculations. Always consult with a structural engineer or follow the project's design documentation for accurate guidance.



Column Grout

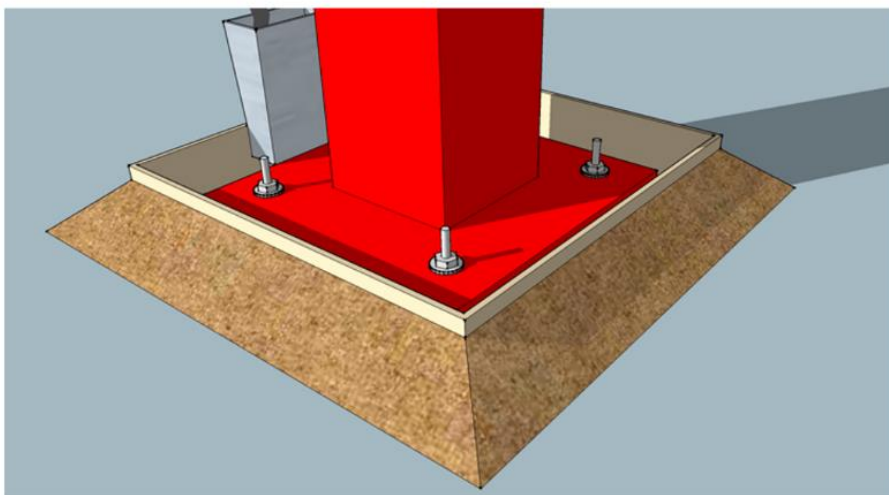


STEP 1 - CREATE A FORMWORK AROUND THE BASEPLATE



This can be done using timber with a sand haunching to keep it in place while the non-shrink grout is poured. Leave space around the perimeter, so the grout can be seen emerging from the opposite side and rise to the level required.

STEP 2 - USE A HOPPER AND POUR IN THE GROUT



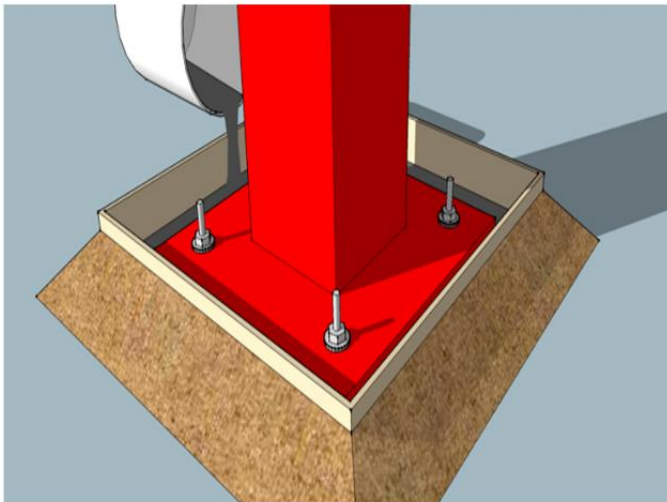
Pour the non-shrink grout into a hopper. Do not move the hopper and pour from any other location, because this can lead to air-pockets forming beneath the plate, meaning the loading from the steel will not be transferred evenly to the structure beneath. A hopper is especially useful if the baseplate is large, and the non-shrink grout has to flow a long distance. It builds a head of pressure that forces the grout beneath the plate at an even rate.



Column Grout

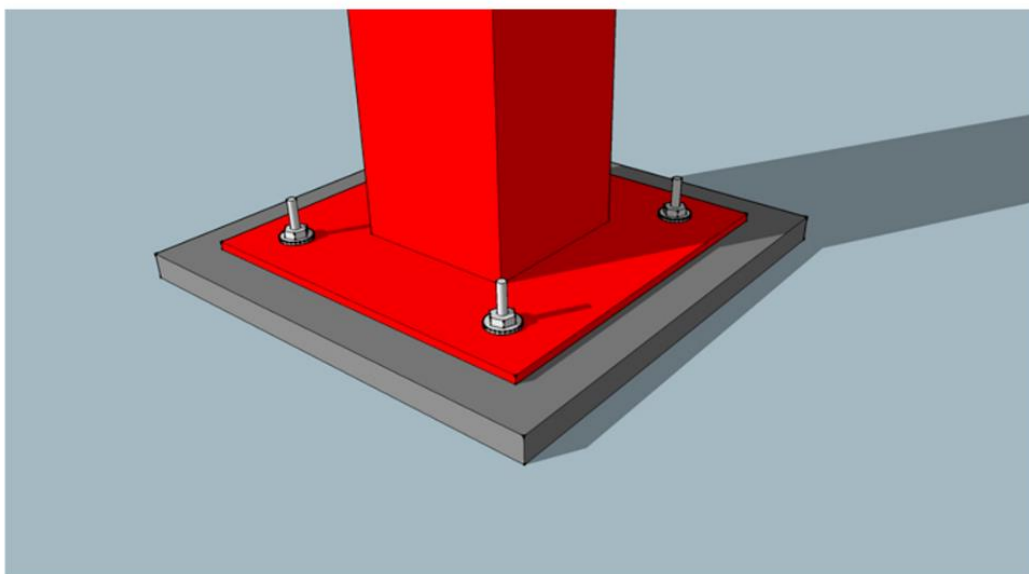


ALTERNATIVE STEP 2 - POUR THE GROUT DIRECTLY FROM THE MIXING VESSEL



When pouring the non-shrink grout directly from the mixing vessel it is important to pour from one point only. Moving position while pouring can lead to air pockets forming beneath the baseplate. This means that load will not be transferred evenly through to the structure below.

STEP 3 - WAIT FOR NON-SHRINK GROUT TO GO OFF THEN REMOVE FORMWORK



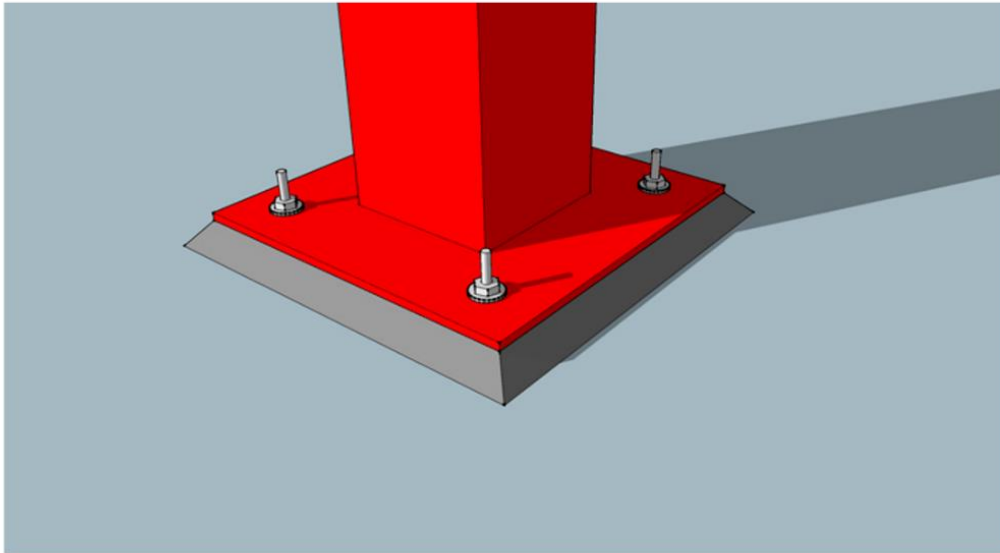
Once the non-shrink grout has gone off enough, remove the formwork.



Column Grout

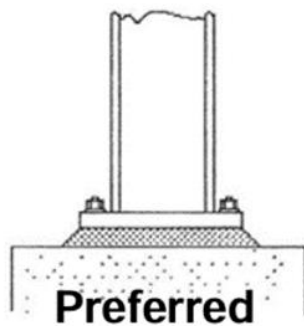


STEP 4 - CHAMFER OFF CORNERS ON EXPOSED EDGES



Before the grout has gone off completely cut back the exposed corners to create a neat chamfer.

GROUT SHOULDER CONFIGURATIONS



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NON-SHRINK GENERAL PURPOSE GROUT

PRODUCT NO. 1585-01, 1585-51

DIVISION 3

03 62 00 Non-Shrink Grouting

PRODUCT DESCRIPTION

QUIKRETE® Non-Shrink General Purpose Grout is a high-strength, non-metallic, non-shrink grout designed for grouting and general construction applications. It can be mixed to a fluid, flowable, or plastic consistency requiring only the addition of clean water.

PRODUCT USE

Typical applications for QUIKRETE® Non-Shrink General Purpose Grout include grouting of:

- Steel columns
- Bearing plates
- Precast concrete
- Keyway Grouting
- Other anchoring or void filling conditions that require high strength

The non-shrink characteristics of Non-Shrink General Purpose Grout make it stable and capable of handling high load transfers.

NOTE: This product is not for use in precision grouting of machinery. (For precision grouting of machinery use QUIKRETE® Non-Shrink Precision Grout No. 1585-00)

SIZES

- 50 lb (22.6 kg) bags

YIELD

- Each 50 lb (22.6 kg) bag will yield 0.45 ft³ (12.7 L) at flowable consistency

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- ASTM C827 Standard Test Method for Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures
- ASTM C939 Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)
- ASTM C1090 Standard Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic-Cement Grout
- ASTM C1107 Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
- ASTM C1437 Standard Test Method for Flow of Hydraulic Cement Mortar
- US Army Corps of Engineers (COE) CRD-C 621 Specification for Non-Shrink Grout



- ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair
- ACI 305R Guide to Hot Weather Concreting
- ACI 306R Guide to Cold Weather Concreting

PHYSICAL/CHEMICAL

QUIKRETE® Non-Shrink General Purpose Grout complies with the physical requirements of ASTM C1107 and CRD 621. Typical results obtained for QUIKRETE® Non-Shrink General Purpose Grout, when tested at 73.5 °F ± 3.5 °F (23.0 °C ± 2.0 °C), are shown in Table 2.

INSTALLATION

SURFACE PREPARATION

Wear the appropriate personal protective equipment. All grouting surfaces should be clean and free of foreign substances including corrosion, if present on steel. Remove all spalled areas and areas of unsound concrete. Preparation work done on the grouting surfaces should be completed by high pressure water blast, breaker, hammer, or other appropriate mechanical means to obtain a properly prepared surface. Saturate repair area with clean water before grouting to ensure SSD condition. No standing water should be left in the repair area. Refer to current ICRI Guide 310.2R for additional surface preparation information.

MIXING

WEAR IMPERVIOUS GLOVES, such as nitrile when handling product. QUIKRETE® Non-Shrink General Purpose Grout should be mechanically mixed for a minimum of 3 minutes using a 5 gallon (19 L) bucket with a ½ in (13 mm) drill and paddle mixer. For larger applications, a standard mortar mixer may be used. Add only enough water to achieve the preferred consistency listed in Table 2. Add the powder to the water and mix to a lump free consistency. Typical starting water contents can be found in Table 1.

APPLICATION

WEAR IMPERVIOUS GLOVES, such as nitrile when handling product. Place the grout quickly and continuously using proper consolidation techniques when possible (i.e. light rodding, vibrating, tamping, etc.) to



Column Grout



Cranes

Mezzanine

Fall Protection

Smart Solutions

eliminate air bubbles. The typical application depth of QUIKRETE® Non-Shrink General Purpose Grout is up to 3 inches (75 mm). For applications over 3 inches (75 mm) in depth, it is preferable to extend the product with high quality 3/8 in (9.5 mm) pea gravel, at a rate of approximately 25 pounds (11.3 kg) of gravel per 50 pound (22.6 kg) bag of QUIKRETE® Non-Shrink General Purpose Grout. For many applications, it may be placed up to 6 inches (150 mm) in depth without the extension. When placing at depths over 3 inches (75 mm) and the surface area is over 2 ft² (0.19 m²), the product should be extended. For all these applications, care should be taken to not overwater, which may cause segregation.

CURING

A damp cure of at least 3 days is necessary to control the non-shrink characteristics and maintain strength levels.

PRECAUTIONS

- Additions of cement or other materials will eliminate the designed product qualities
- Water quantities may be affected by temperature, mixing method and batch size
- QUIKRETE® Non-Shrink General Purpose Grout should not be re-tempered
- Mix no more grout than can be placed in 25 minutes
- Follow ACI 305R when using product in hot weather
- Follow ACI 306R when using product in cold weather
- Use a consistent water temperature when mixing multiple batches, to prevent performance fluctuations

TABLE 1 TYPICAL WATER DEMAND PER 50 lb (22.6 kg) BAG

Consistency	Volume
Plastic	4-1/2 qt (4.3 L)
Flowable	5 qt (4.7 L)
Fluid	5-1/2 qt (5.2 L)

SAFETY

IMPORTANT: Read Safety Data Sheet carefully before using. **WEAR IMPERVIOUS GLOVES**, such as nitrile, mask, and eye protection.

DANGER: Causes sever skin burns and serious eye damage. Prolonged or repeated inhalation of dust may cause lung damage or cancer.

KEEP OUT OF REACH OF CHILDREN

SHELF LIFE

12 months from date of manufacture as long as the undamaged package is stored in a dry location that is protected from moisture, and out of direct sunlight.

WARRANTY

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.quikrete.com/product-warranty or send a written request to The Quikrete Companies, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured by or under the authority of The Quikrete Companies, LLC. © 2022 Quikrete International, Inc.

TABLE 2 TYPICAL PHYSICAL PROPERTIES AT 73.5 °F (23 °C)

Consistency	Plastic
Flow @ 5 Drops, ASTM C1437	100 to 125%
Compressive Strength, ASTM C109 (Modified)	
Age	PSI (MPa)
1 day	3000 (20.6)
3 days	5500 (37.9)
7 days	7000 (48.2)
28 days	9000 (62.0)
Height change, ASTM C1090	
@ 1, 3, 7 & 28 days	0.0 to 0.2%
Height change, ASTM C827	0%
Consistency	Flowable
Flow @ 5 Drops, ASTM C1437	125 to 145%
Compressive Strength, ASTM C109 (Modified)	
Age	PSI (MPa)
1 day	2500 (17.2)
3 days	4500 (31.0)
7 days	6500 (44.8)
28 days	8000 (55.1)
Height change, ASTM C1090	
@ 1, 3, 7 & 28 days	0.0 to 0.2%
Height change, ASTM C827	0.3%
Consistency	Fluid
Flow, ASTM C939	20 to 30 seconds
Compressive Strength, ASTM C109 (Modified)	
Age	PSI (MPa)
1 day	2000 (13.7)
3 days	3500 (24.1)
7 days	5500 (37.9)
28 days	7000 (48.2)
Height change, ASTM C1090	
@ 1, 3, 7 & 28 days	0.0 to 0.2%
Height change, ASTM C827	0.8%

Cranes

Mezzanine

Fall Protection

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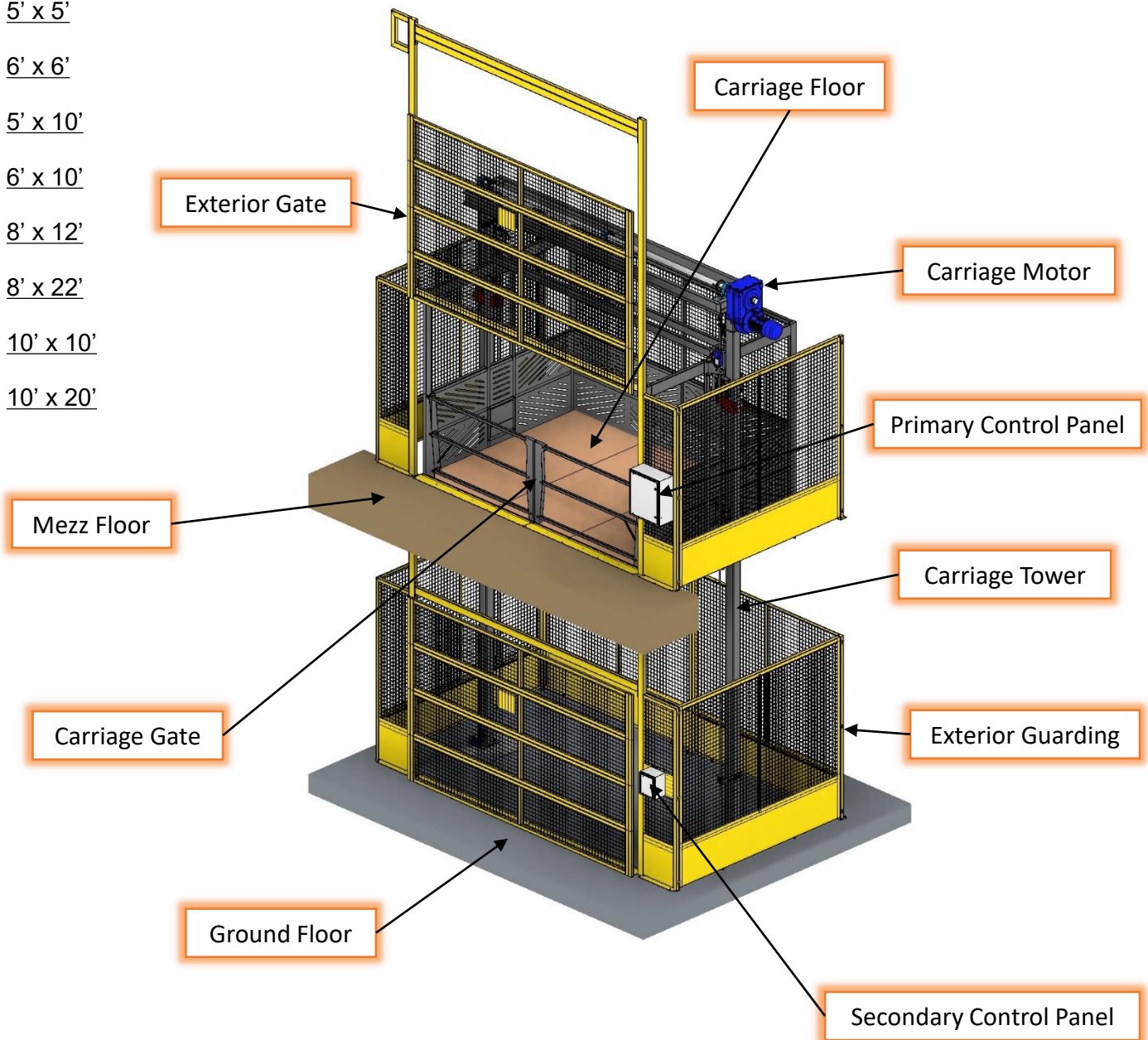


Product Description

- Vertical Reciprocating Conveyers (VRC) are a great option that PWI offers to load/unload your mezzanine.
- The location of these VRCs is crucial to your facility's overall efficiency

Carriage Sizes:

- 5' x 5'
- 6' x 6'
- 5' x 10'
- 6' x 10'
- 8' x 12'
- 8' x 22'
- 10' x 10'
- 10' x 20'



Product Features

- Multiple Sizes
- Safety Options: Gate Sensors, Upper limit/ Lower limit, Guarding to prevent pinch points
- Operation from Mezzanine level or ground level
- Safety load arrestor system

Cranes

Cranes

Mezzanine

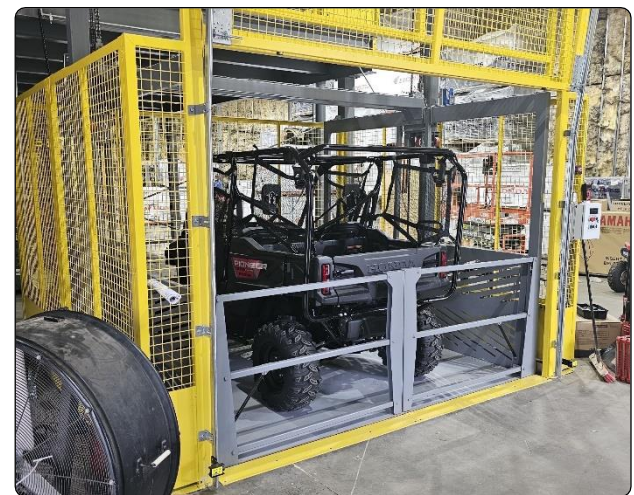
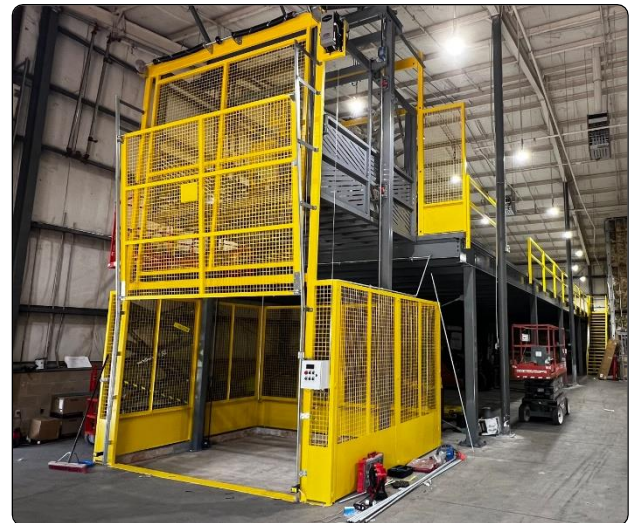
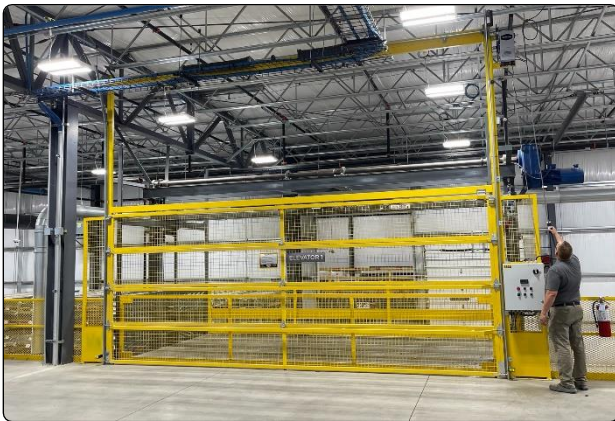
Mezzanine

Fall Protection

Fall Protection

Smart Solutions

Smart Solutions



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VRC Control Panel



Secondary Control Panel

Product Description

- The VRC Control Panels are multifunctional.

Product Features

- E Stop Button
- Up/Down Carriage Buttons
- Open/Close Door Buttons
- Power On Indication Safety Button
- Dan Foss VFD for precise speed programming
- Green Live Load Display



Primary Control Panel



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VRC Carriage Gate Options

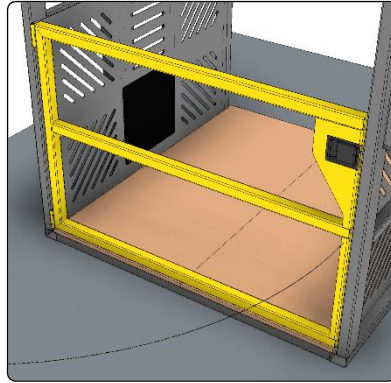


Product Description

- Gates ensure that your product is safely transported onto and off your mezzanine.

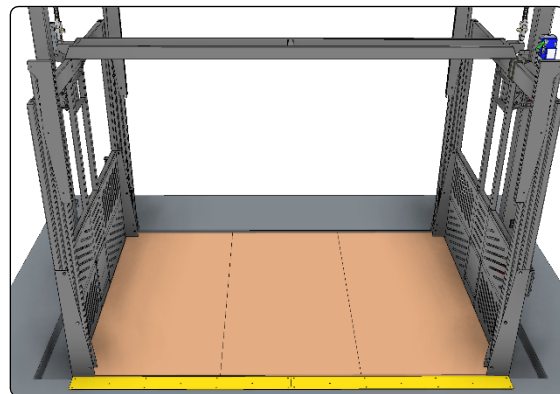
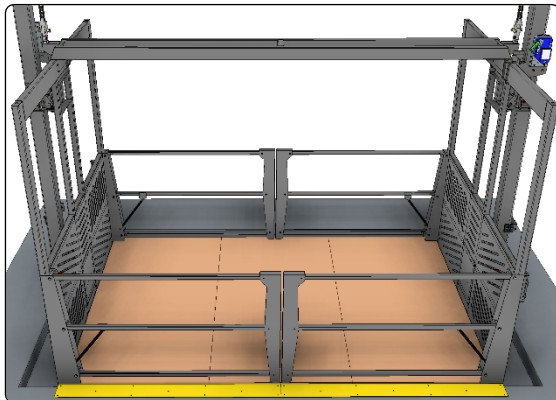
Swing Gate

- Max Opening: 6'
- Latch System



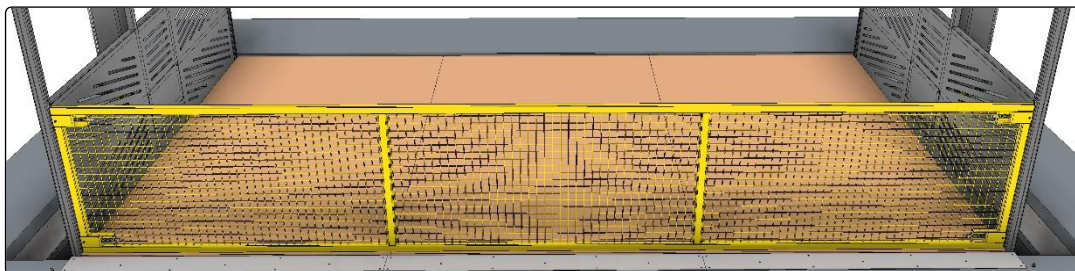
Rail Rod Gate

- Max Opening: 12'
- Air Assist Cylinders



Vertical Gate

- Max Opening: 20'
- Motorized Opener
- Starke 300 Series Track



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VRC Exterior Gate Options

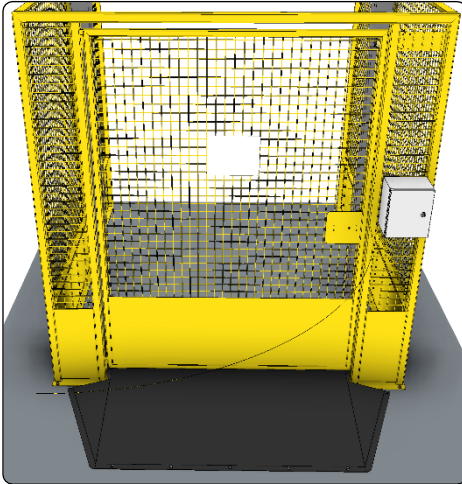


Product Description

- Gates ensure that your product is safely transported onto and off your mezzanine.

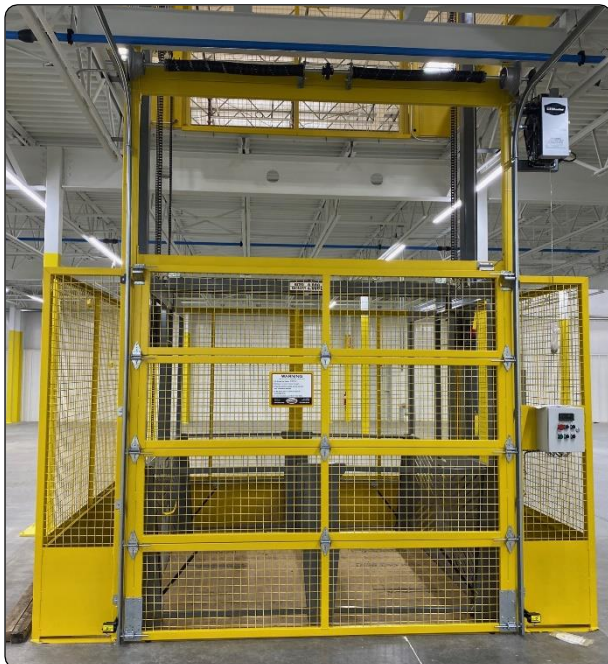
Swing Gate

- Max Opening: 6'
- Latch System



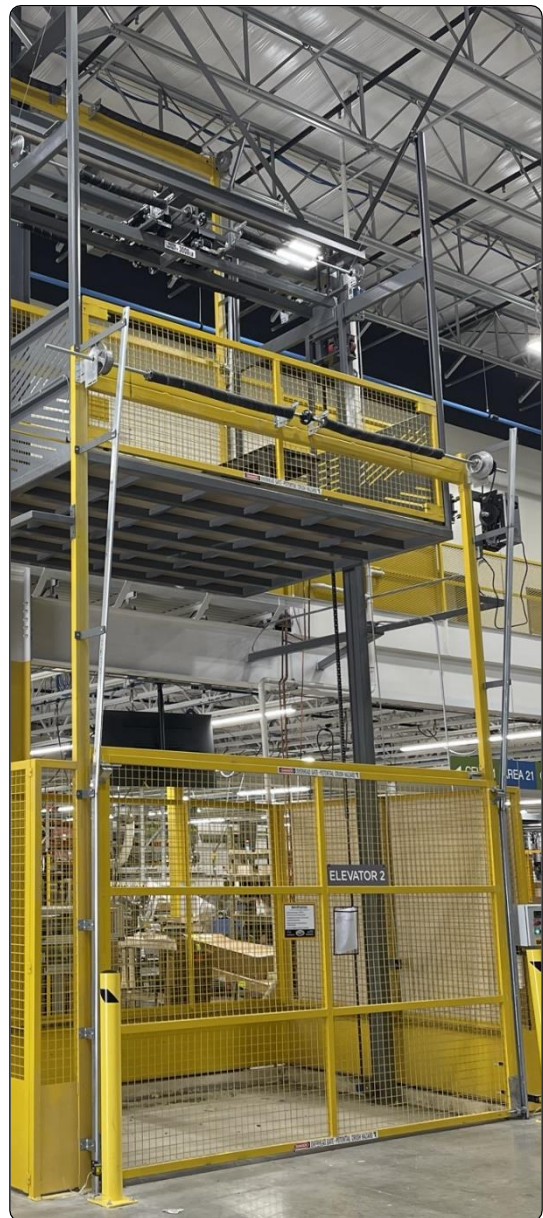
Multi Panel Vertical Gate

- Max Opening: 20'
- Motorized Opener
- Garage Door Track



Single Panel Vertical Gate

- Max Opening: 20'
- Motorized Opener
- Garage Door Track



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VRC Pit and Footer



Product Description

Footers are necessary to support the VRC column loads. The pit of the VRC allows for the carriage to be loaded/unloaded flush with the factory floor.

Engineering Notes:

THE ENGINEER HAS ASSUMED 3000 PSF SOIL BEARING.
THE OWNER IS RESPONSIBLE FOR ANY INFORMATION THAT WOULD AFFECT THIS ASSUMPTION.

ALL CONCRETE POURED WITH A SLUMP OF FOUR.

CONCRETE TO BE 3000 PSI IN 28 DAYS AND WORK IS TO CONFORM CRSI AND PSA SPECIFICATIONS.

ANY FILL MATERIAL UNDER BEARING LOCATIONS TO BE COMPACTED TO 100% STD. PROCTOR AND OF APPROVED MATERIAL.

ANY FILL MATERIAL REQUIRED AT OTHER LOCATIONS TO BE COMPACTED TO 95% MODIFIED PROCTOR AND MEET PCA RECOMMENDATIONS, OR PER SOIL INVESTIGATION REPORT.

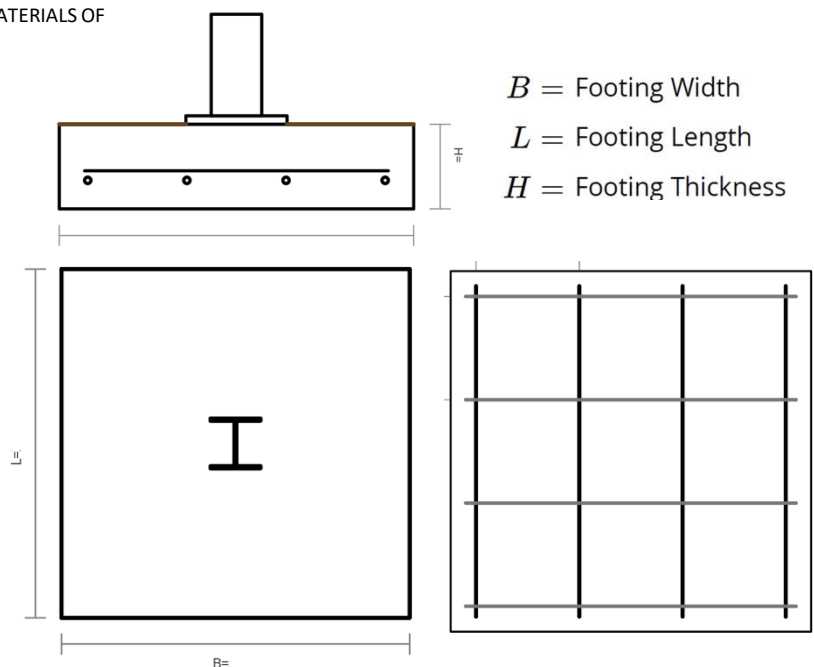
ALL REINFORCING STEEL TO BE GRADE 60 PER ASTM SPECIFICATIONS.

EXPANSIONS JOINTS AND CONTROL JOINTS TO BE PLACED AS RECOMMENDED BY SCI, CRS, PCA, ACSI, LOCAL CODES, AND THE STEEL BUILDING MANUFACTURER.

ALL UNSPECIFIED CONSTRUCTION TO MEET ALL STATE AND LOCAL CODE REQUIREMENTS.

ALL MATERIALS MUST BE APPROVED AND LISTED FOR THEIR INTENDED USE.

ALL MATERIALS LISTED MAY BE SUBSTITUTED WITH APPROVED MATERIALS OF EQUAL OR BETTER QUALITY.



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VRC Column and Footer



Product Description

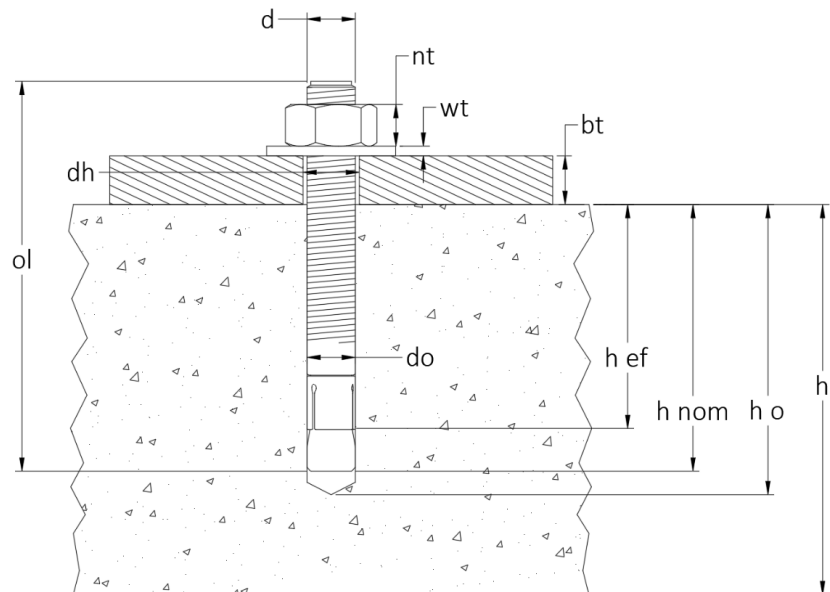
- Wedge Anchor
 - Post-installed anchor
 - Used for light duty applications

Wedge



Form ID: WE1

Wedge/Expansion Anchor Specs



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VRC Column and Footer

Product Description

- VRC column must be mounted to floor of VRC with a footer below that.
- Mounting the column on top of slab by the edge of pit will cause concrete breakage and design failure.



Cranes

Mezzanine

Fall Protection

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Cranes

Mezzanine

Fall Protection

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VRC Entrance Configurations



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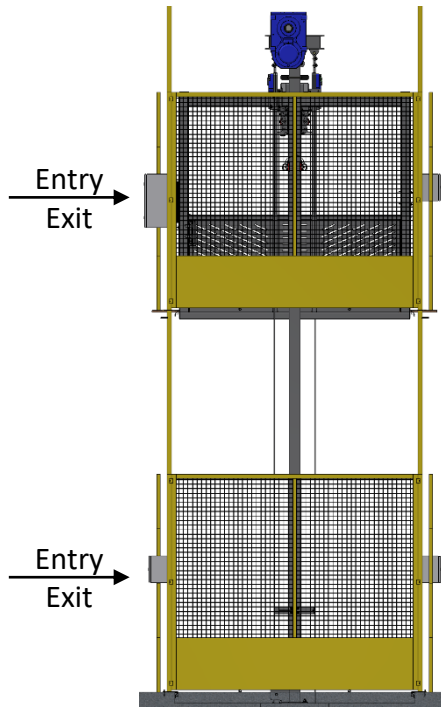
Cranes

Mezzanine

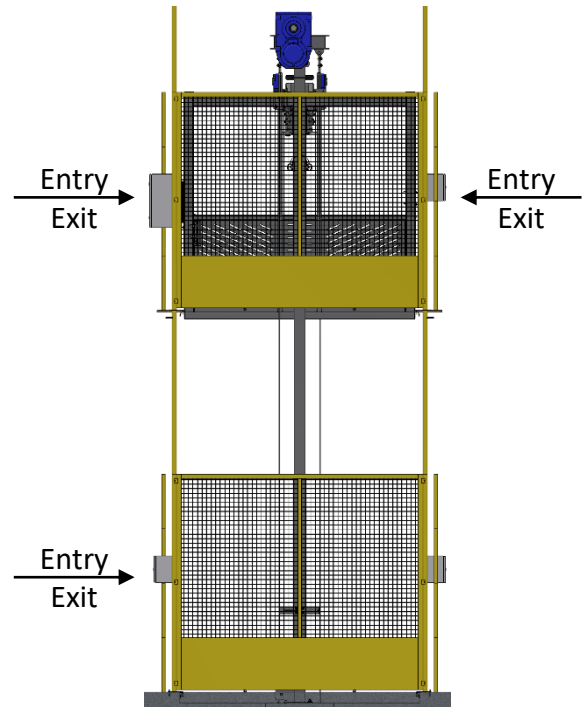
Fall Protection

Smart Solutions

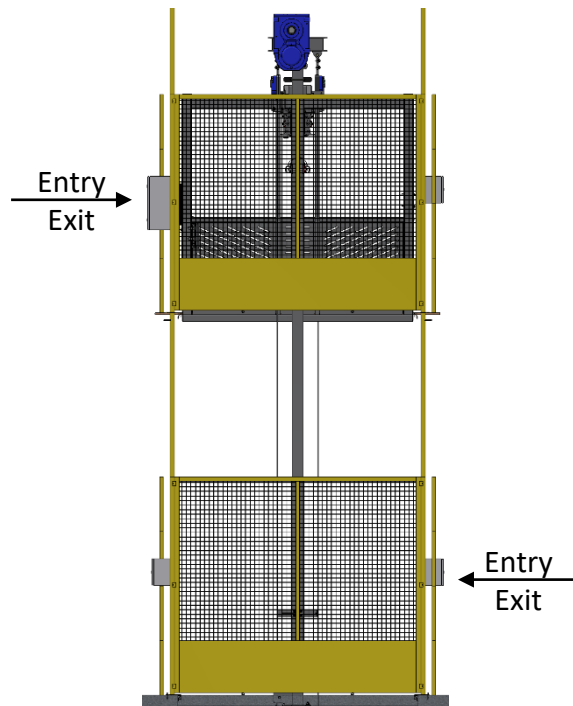
C-Style



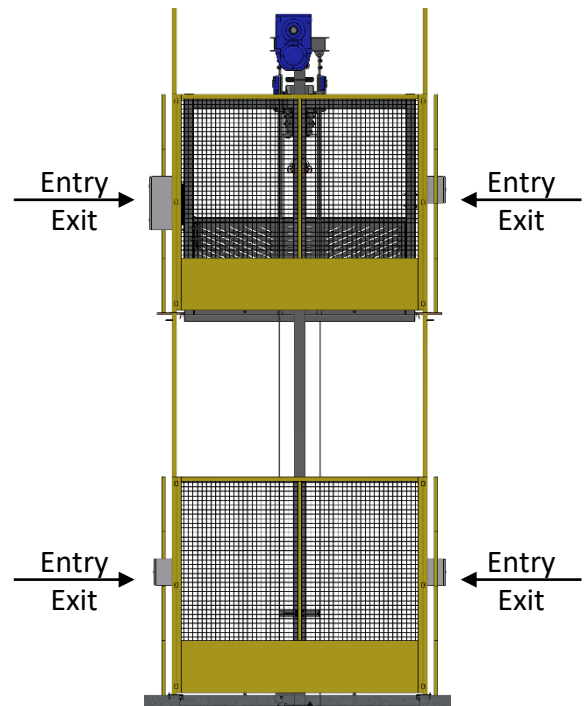
P-Style



Z-Style



X-Style



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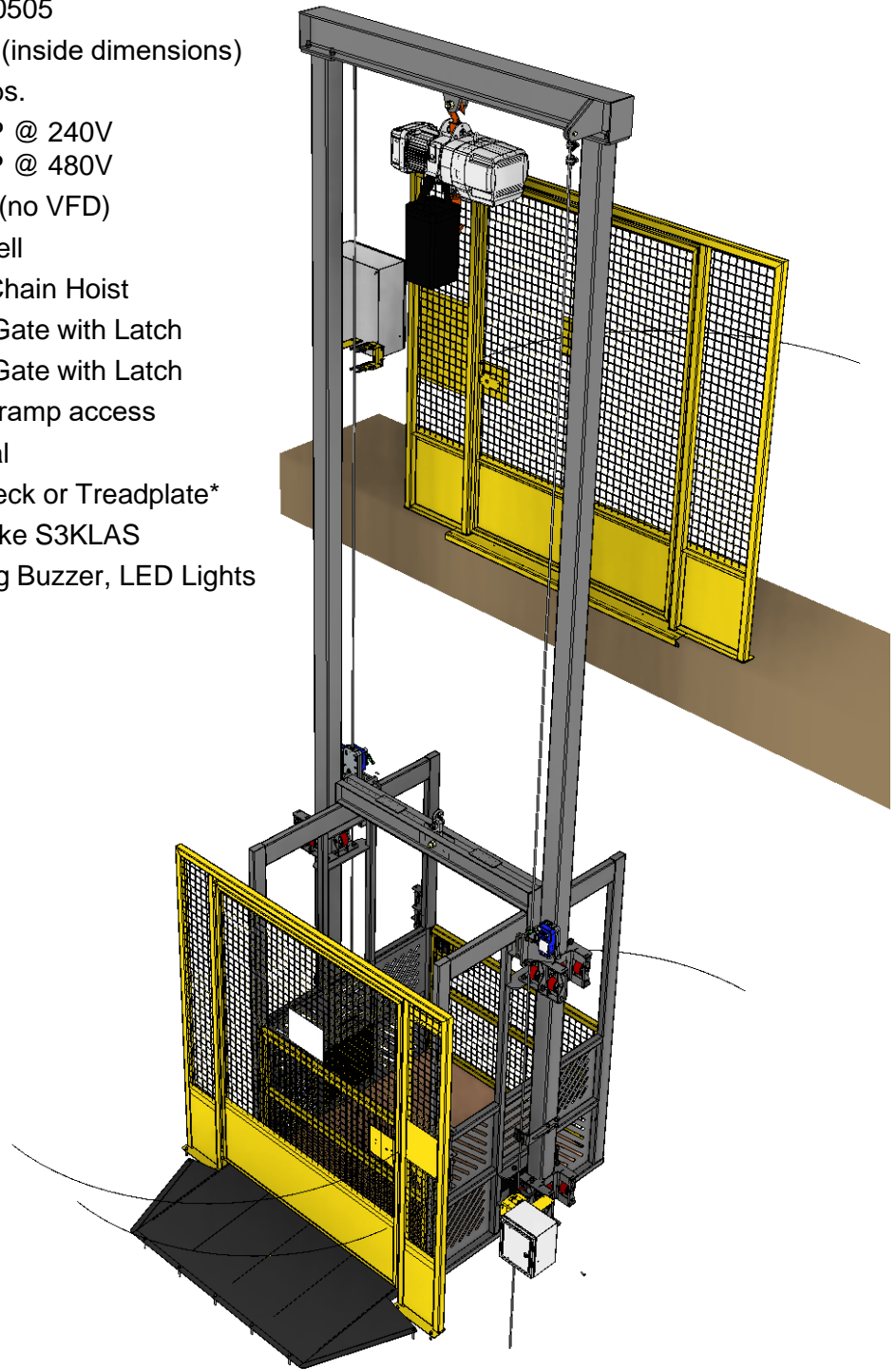


5'x5' VRC



Product Information

- Model: PWSG0505
- Carriage Size: 5' x 5' (inside dimensions)
- Lifting Capacity: 2,000 lbs.
- Power Supply Options: 20 AMP @ 240V
20 AMP @ 480V
- Lifting Speed: 26fpm (no VFD)
- Load Limiter: Load Cell
- Lifting Type: 2 Ton Chain Hoist
- Carriage Door: Swing Gate with Latch
- Exterior Door: Swing Gate with Latch
- Concrete Pit Depth: 5" if no ramp access
- Ramp Access: Optional
- Floor Type: Resindeck or Treadplate*
- Fall Protection: (1) Starke S3KLAS
- Optional Features: Warning Buzzer, LED Lights



*Treadplate reduces capacity.

Product specifications and dimensions are approximate and for informational purposes only. Variations may occur due to design or manufacturing adjustments. For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.

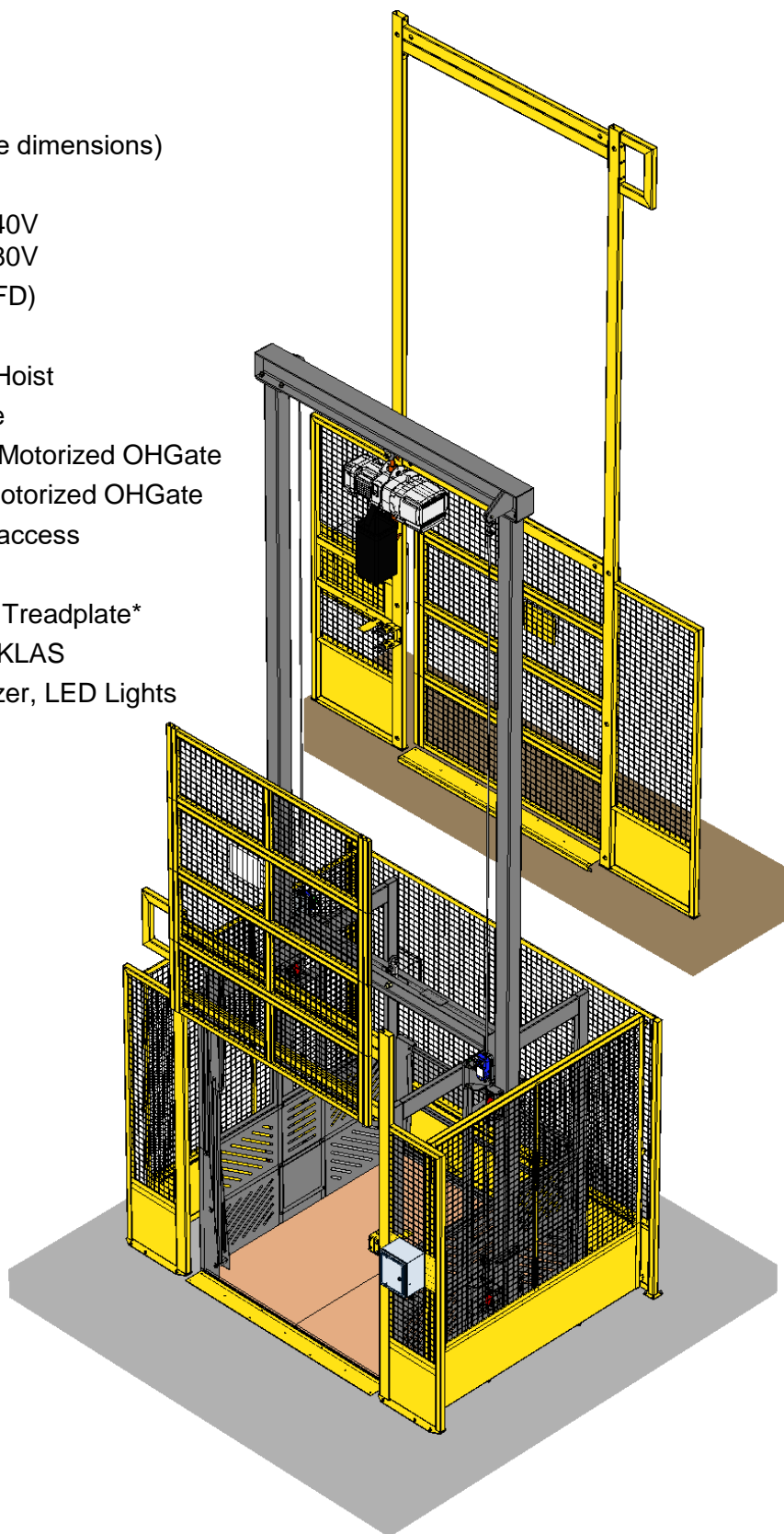


6'x6' VRC



Product Information

- Model: PWLT0606
- Carriage Size: 6' x 6' (inside dimensions)
- Lifting Capacity: 2,000 lbs.
- Power Supply Options: 20 AMP @ 240V
20 AMP @ 480V
- Lifting Speed: 26fpm (no VFD)
- Load Limiter: Load Cell
- Lifting Type: 3 Ton Chain Hoist
- Carriage Door: Railroad Gate
- Exterior Door Options: Single Panel Motorized OHGate
Multi Panel Motorized OHGate
- Concrete Pit Depth: 5" if no ramp access
- Ramp Access: Optional
- Floor Type: Resindeck or Treadplate*
- Fall Protection: (2) Starke S2KLAS
- Optional Features: Warning Buzzer, LED Lights



*Treadplate reduces capacity.

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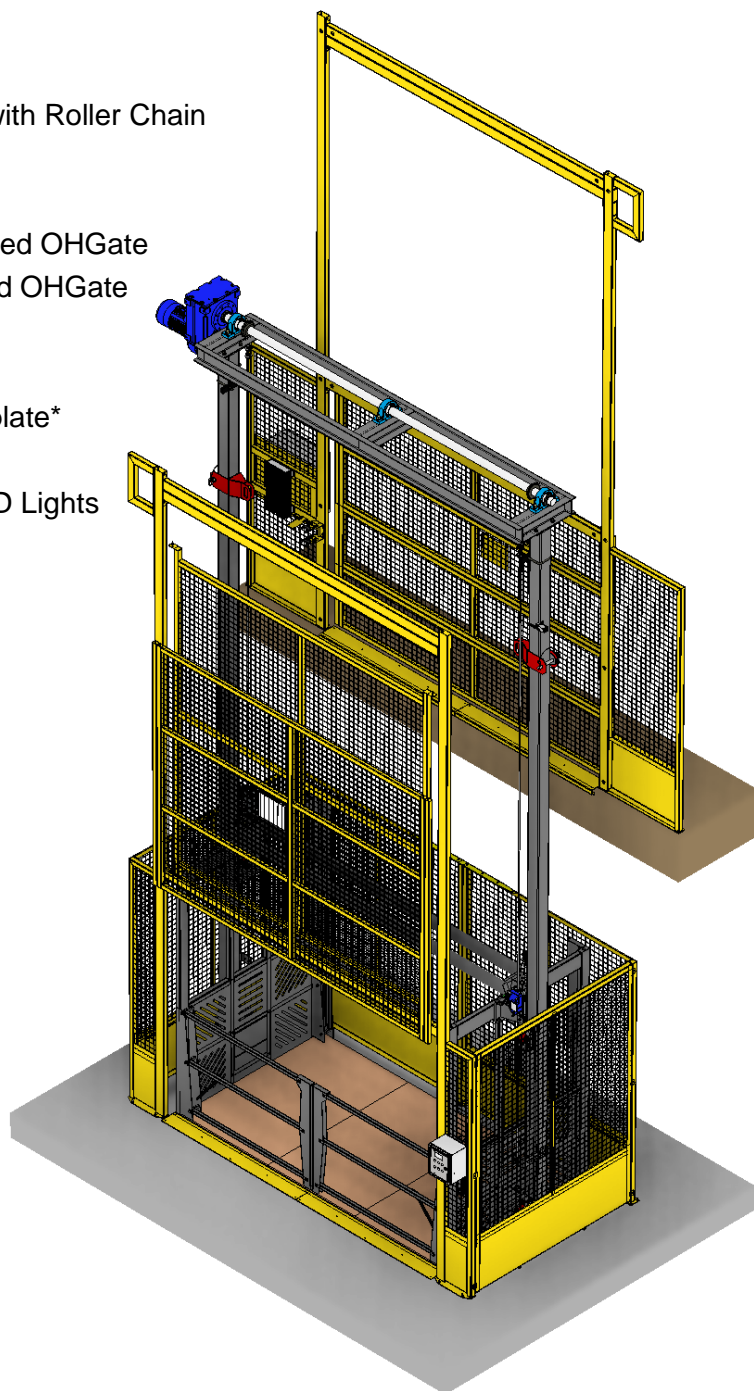


5'x10' VRC



Product Information

- Model: PWSD0510
- Carriage Size: 5' x 10' (inside dimensions)
- Lifting Capacity: 2,500 lbs.
- Power Supply Options: 20 AMP @ 480V
- Lifting Speed: 20fpm (with VFD)
- Load Limiter: Load Cell
- Lifting Type: 7.5 HP Gear Motor with Roller Chain
- Carriage Door Options: Railroad Gate
Vertical Gate
- Exterior Door Options: Single Panel Motorized OHGate
Multi Panel Motorized OHGate
- Concrete Pit Depth: 5"
- Ramp Access: No
- Floor Type: Resindeck or Treadplate*
- Fall Protection: (2) Starke S3KLAS
- Optional Features: Warning Buzzer, LED Lights



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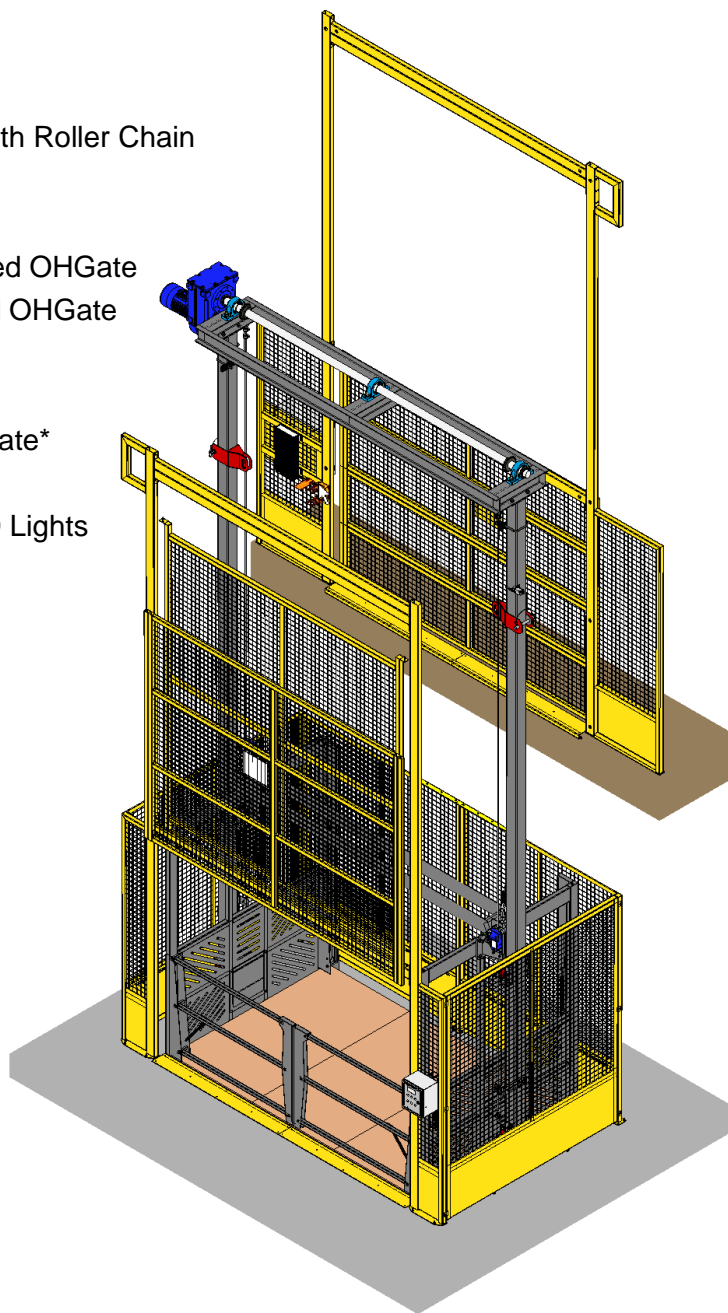


6'x10' VRC



Product Information

- Model: PWSD0610
- Carriage Size: 6' x 10' (inside dimensions)
- Lifting Capacity: 2,500 lbs.
- Power Supply Options: 20 AMP @ 480V
- Lifting Speed: 20fpm (with VFD)
- Load Limiter: Load Cell
- Lifting Type: 7.5 HP Gear Motor with Roller Chain
- Carriage Door Options: Railroad Gate
Vertical Gate
- Exterior Door Options: Single Panel Motorized OHGate
Multi Panel Motorized OHGate
- Concrete Pit Depth: 5"
- Ramp Access: No
- Floor Type: Resindeck or Treadplate*
- Fall Protection: (2) Starke S3KLAS
- Optional Features: Warning Buzzer, LED Lights



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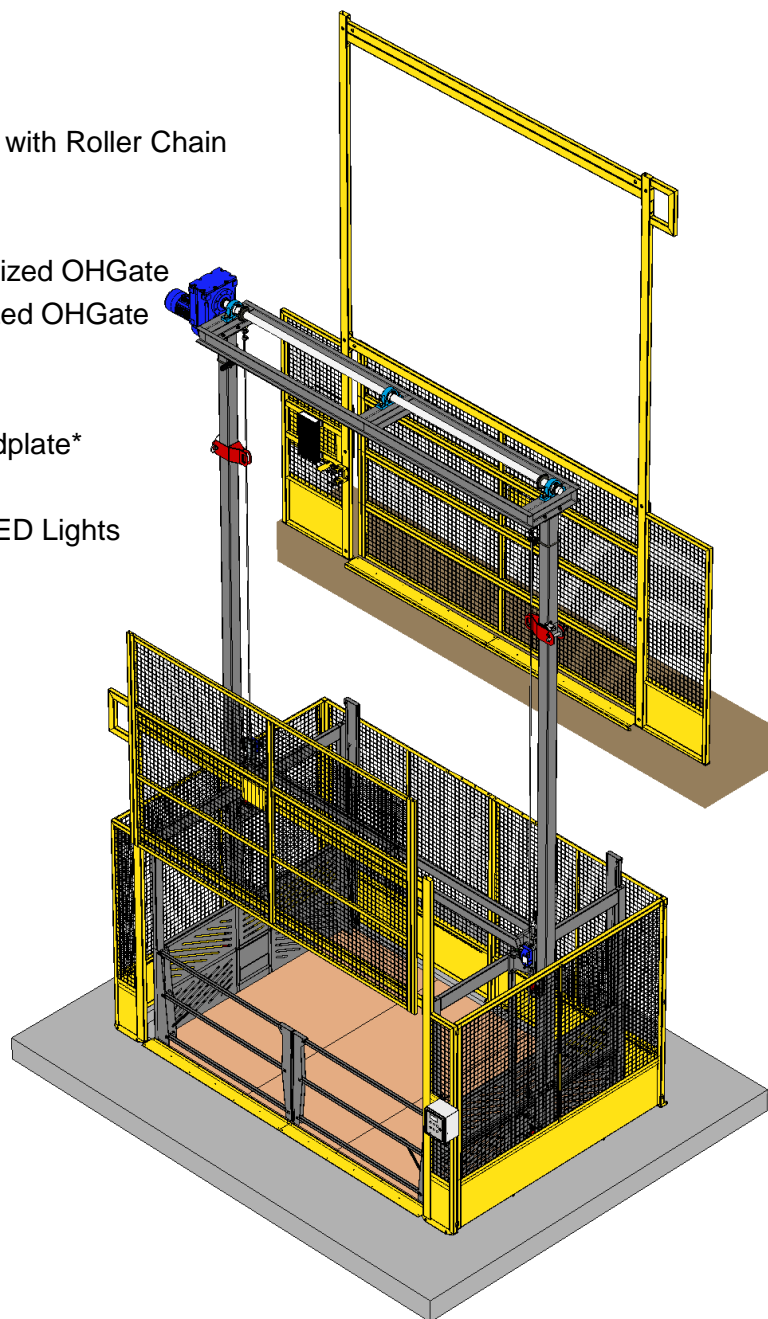


8'x12' VRC



Product Information

- Model: PWSD0812
- Carriage Size: 8' x 12' (inside dimensions)
- Lifting Capacity: 2,500 lbs.
- Power Supply Options: 20 AMP @ 480V
- Lifting Speed: 20fpm (with VFD)
- Load Limiter: Load Cell
- Lifting Type: 7.5 HP Gear Motor with Roller Chain
- Carriage Door Options: Railroad Gate
Vertical Gate
- Exterior Door Options: Single Panel Motorized OHGate
Multi Panel Motorized OHGate
- Concrete Pit Depth: 5"
- Ramp Access: No
- Floor Type: Resindeck or Treadplate*
- Fall Protection: (2) Starke S3KLAS
- Optional Features: Warning Buzzer, LED Lights



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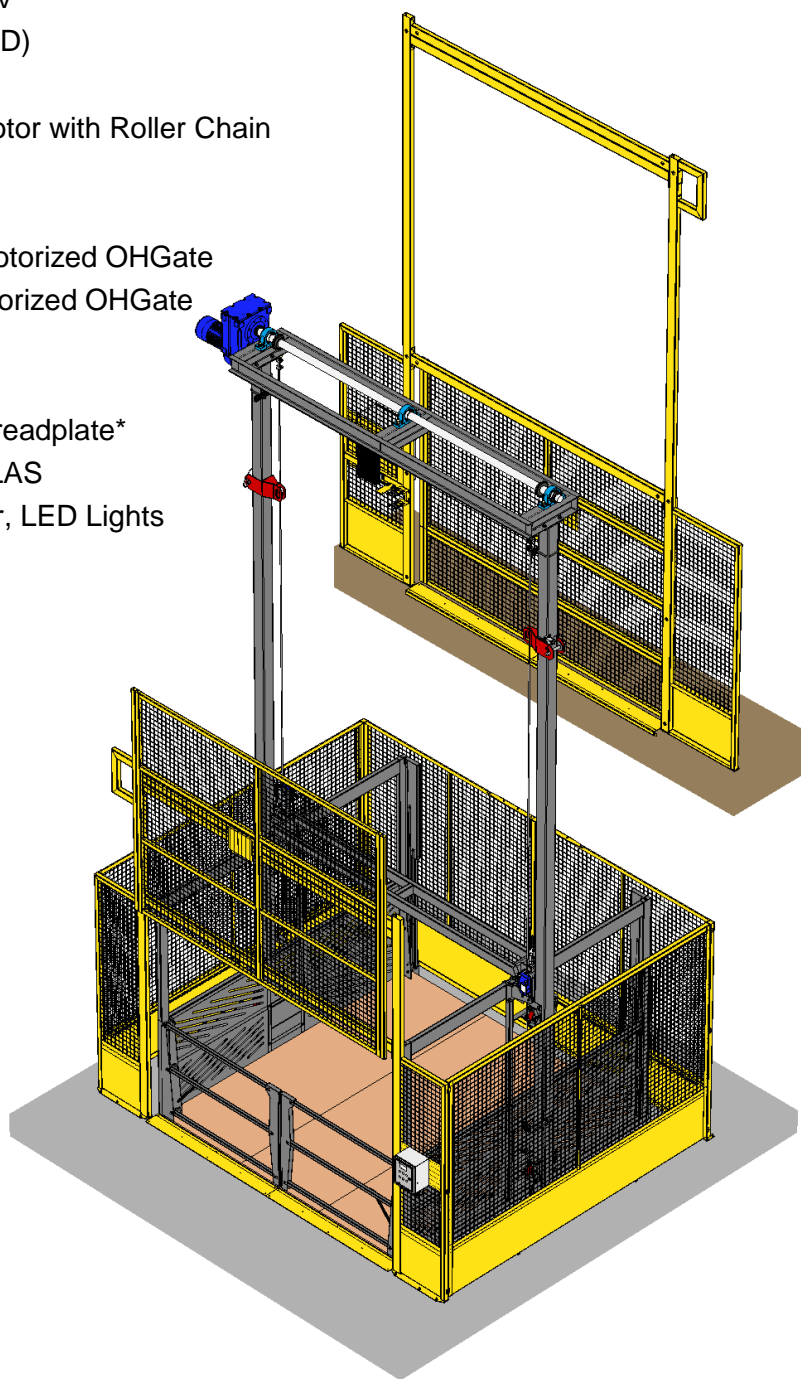


10'x10' VRC



Product Information

- Model: PWSD1010
- Carriage Size: 10' x 10' (inside dimensions)
- Lifting Capacity: 2,500 lbs.
- Power Supply Options: 20 AMP @ 480V
- Lifting Speed: 20fpm (with VFD)
- Load Limiter: Load Cell
- Lifting Type: 7.5 HP Gear Motor with Roller Chain
- Carriage Door Options: Railroad Gate
Vertical Gate
- Exterior Door Options: Single Panel Motorized OHGate
Multi Panel Motorized OHGate
- Concrete Pit Depth: 5"
- Ramp Access: No
- Floor Type: Resindeck or Treadplate*
- Fall Protection: (2) Starke S3KLAS
- Optional Features: Warning Buzzer, LED Lights



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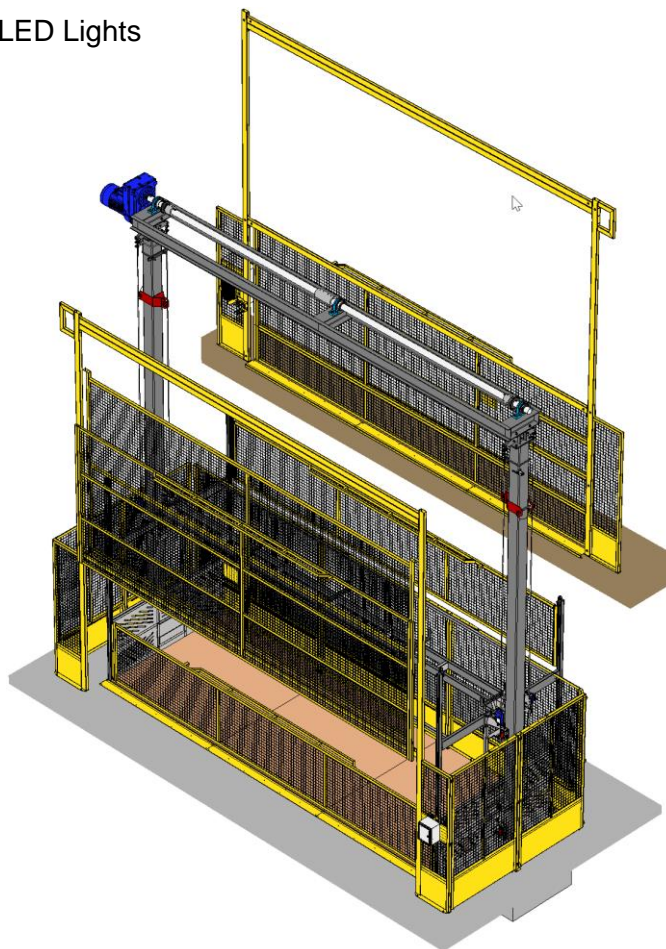


8'x22' VRC



Product Information

- Model: PWHD0822
- Carriage Size: 8' x 22' (inside dimensions)
- Lifting Capacity: 2,500 lbs.
- Power Supply Options: 30 AMP @ 480V
- Lifting Speed: 20fpm (with VFD)
- Load Limiter: Load Cell
- Lifting Type: 15 HP Gear Motor with Roller Chain
- Carriage Door: Vertical Gate
- Exterior Door Options: Single Panel Motorized OHGate
Multi Panel Motorized OHGate
- Concrete Pit Depth: 14"
- Ramp Access: No
- Floor Type: Resindeck or Treadplate*
- Fall Protection: (4) Starke S3KLAS
- Optional Features: Warning Buzzer, LED Lights



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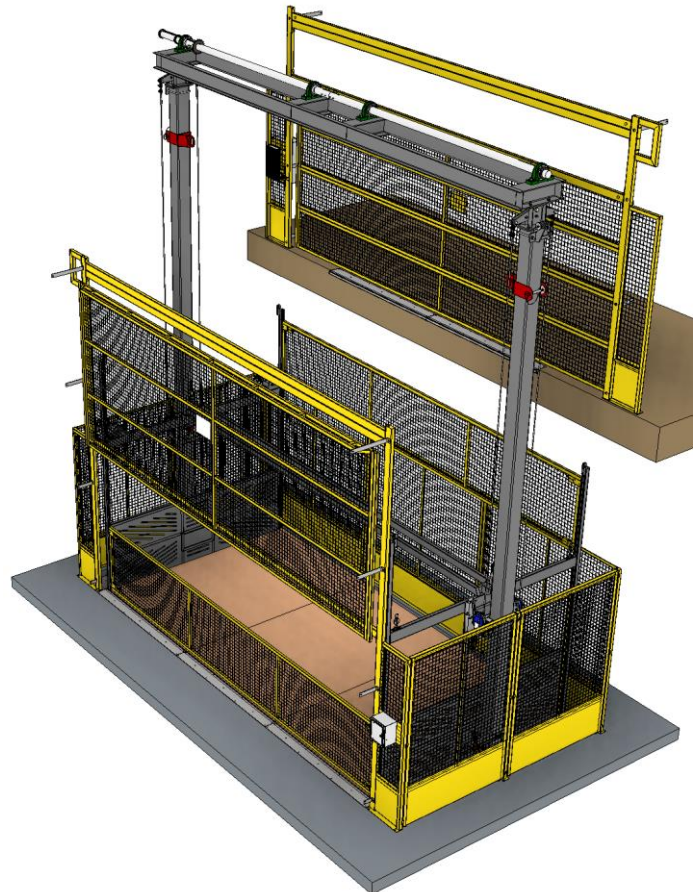


10'x20' VRC



Product Information

- Model: PWHD1020
- Carriage Size: 10' x 20' (inside dimensions)
- Lifting Capacity: 5,000#
- Power Supply Options: 30 AMP @ 480V
- Lifting Speed: 22fpm (with VFD)
- Load Limiter: Load Cell
- Lifting Type: 15 HP Gear Motor with Roller Chain
- Carriage Door: Vertical Gate
- Exterior Door Options: Single Panel Motorized OHGate
Multi Panel Motorized OHGate
- Concrete Pit Depth: 14"
- Ramp Access: No
- Floor Type: Resindeck or Treadplate*
- Fall Protection: (4) Starke S3KLAS – Secondary Brake Device
- Optional Features: Warning Buzzer, LED Lights



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Fall Protection Index



Cranes

Cranes

Mezzanine

Mezzanine

Fall Protection

Fall Protection

Smart Solutions

Smart Solutions

- 307 Series Fall Protection
- 310 Series Fall Protection
- Freestanding Fall Protection
- Column Mounted Roof Build Safety Arms
- Ceiling Mounted Roof Build Safety Arms
- Work Platform

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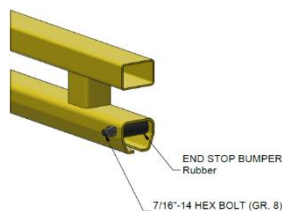
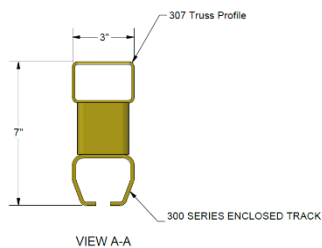
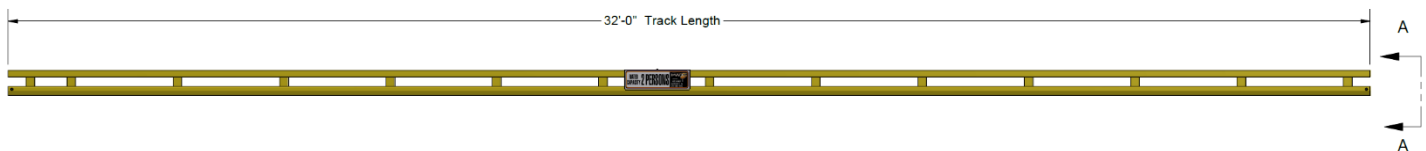
307 Series Stationary Fall Protection



Product Description

- 307 Truss Profile
- 1 Person Capacity Max Span 20'
- 2 Person Capacity Max Span 20'
- 3 Person Capacity Max Span 20'
- 4 Person Capacity Max Span 18'
- Max Cantilever: 4'
- Minimum distance between splice to support: 4'

OSHA 1910.140(c)(13)(i) requires that an anchorage point be capable of supporting 5000# for each employee OR 1910.140(c)(13)(ii) designed, installed, and used, under the supervision of qualified person, as part of a complete personal fall protection system that maintains a safety factor of at least two. Utilizing a self-retracting lifeline with a Maximum Average Arresting Force of 900 lbs. PWI designs our engineered track system for 900 lbs. max arresting force with a safety factor of 2, What this means is that our track system is rated for 1800# for a 1-man system. The probability of more than one worker falling and dynamically impacting the fall protection system in the same critical millisecond-range is remote. Since typical lanyard arrest forces peak in the 5-millisecond duration range, the chances that multiple maximum arrest forces are going to be superimposed is extremely unlikely. Therefore, industry standard is to rate this a 2-man system for 2160# (which includes the safety factor of 2). $1800 \text{ MAF} + 1 \text{ man (310\#)} + \text{tools (50\#)} = 2160 \text{ lbs.}$



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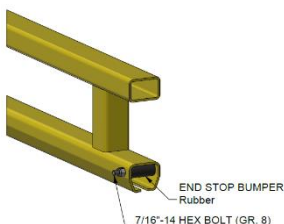
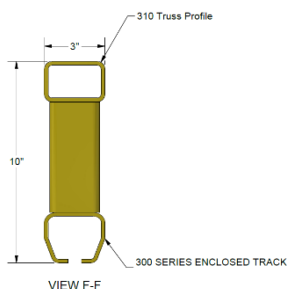
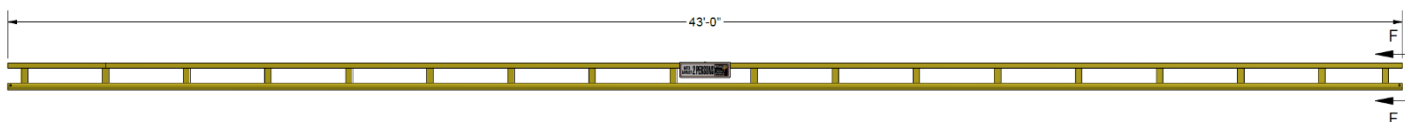
310 Series Stationary Fall Protection



Product Description

- 310 Truss Profile
- 1 Person Capacity Max Span 40'
- 2 Person Capacity Max Span 40'
- 3 Person Capacity Max Span 40'
- 4 Person Capacity Max Span 32'
- Max Cantilever: 4'
- Minimum distance between splice to support: 4'

OSHA 1910.140(c)(13)(i) requires that an anchorage point be capable of supporting 5000# for each employee OR 1910.140(c)(13)(ii) designed, installed, and used, under the supervision of qualified person, as part of a complete personal fall protection system that maintains a safety factor of at least two. Utilizing a self-retracting lifeline with a Maximum Average Arresting Force of 900 lbs. PWI designs our engineered track system for 900 lbs. max arresting force with a safety factor of 2. What this means is that our track system is rated for 1800# for a 1-man system. The probability of more than one worker falling and dynamically impacting the fall protection system in the same critical millisecond-range is remote. Since typical lanyard arrest forces peak in the 5-millisecond duration range, the chances that multiple maximum arrest forces are going to be superimposed is extremely unlikely. Therefore, industry standard is to rate this a 2-man system for 2160# (which includes the safety factor of 2). 1800 MAF + 1 man (310#) + tools (50#) = 2160 lbs.

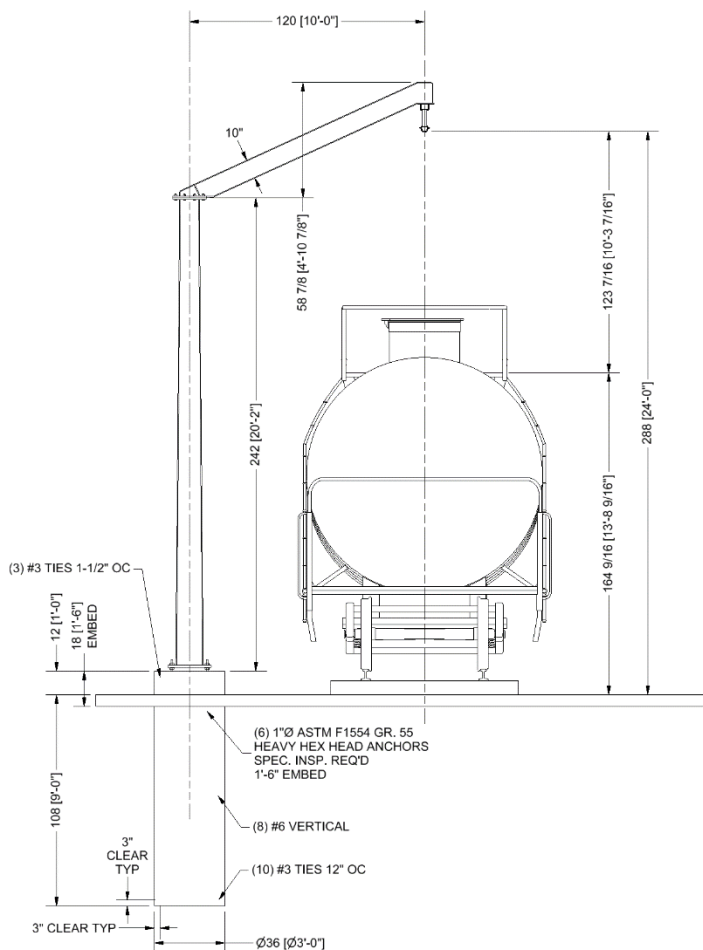
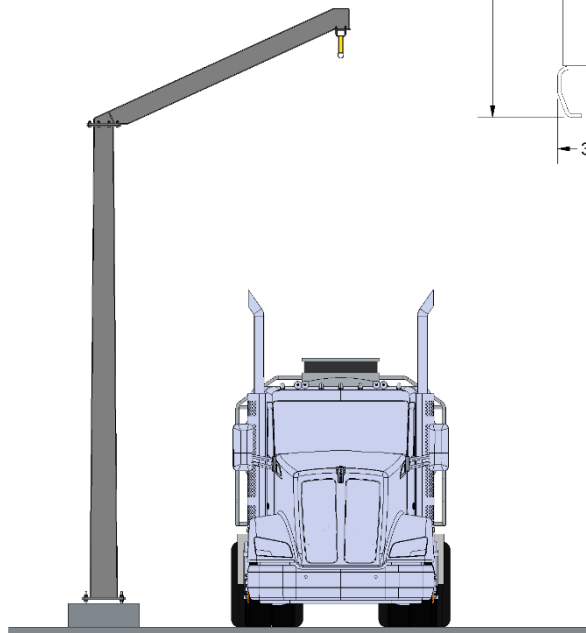
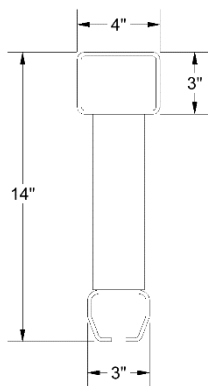
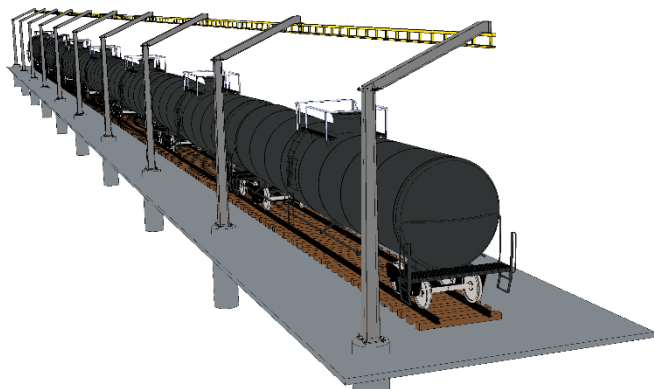


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Series: **Exterior Enclosed Track**
Capacity: **2 Persons**
Span: **50'**

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pwiworks.com

Column Mounted Roof Build Safety Arms



Product Description

- Provides overhead protection during and after roof/ceiling manufacturing process for RV and modular home manufacturing. This allows workers to safely walk under the roof structure during the manufacturing or staging process.

Product Features

- Floor / Column Mounted
- Articulating Arms
- Remote Control



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Ceiling Mounted Roof Build Safety Arms

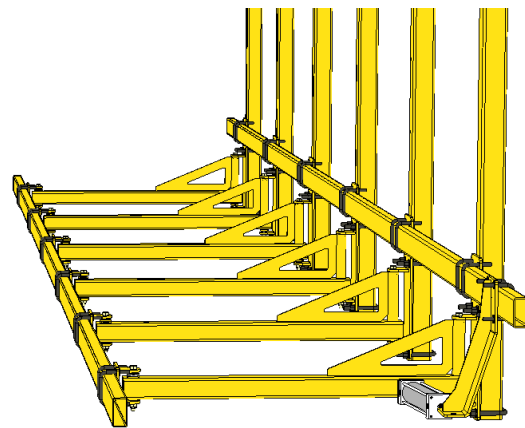
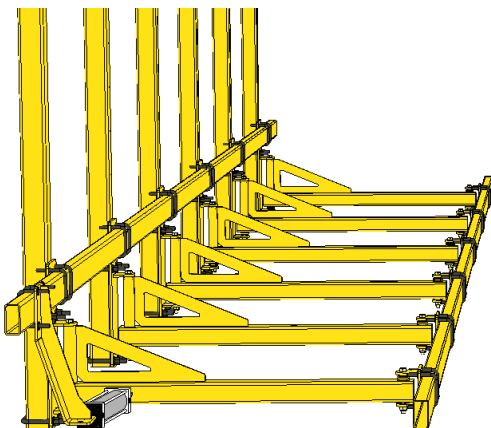
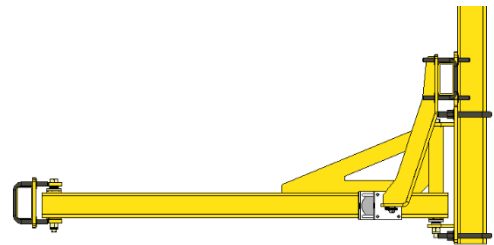
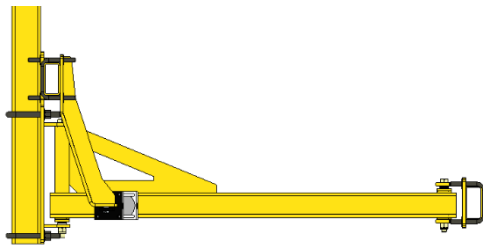
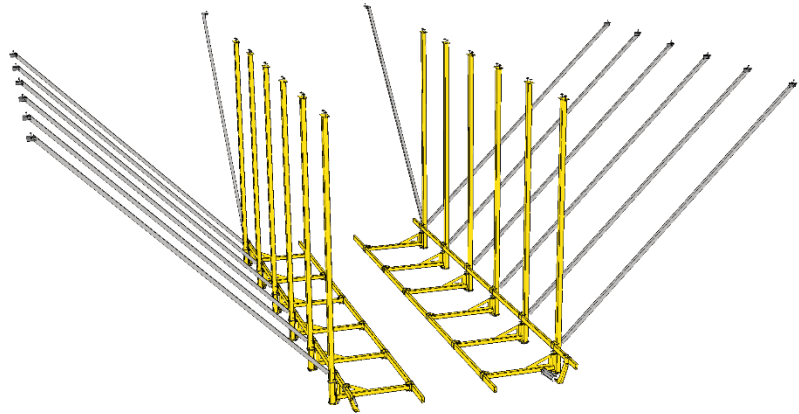


Product Description

- Provides overhead protection during and after roof/ceiling manufacturing process for RV and modular home manufacturing. This allows workers to safely walk under the roof structure during the manufacturing or staging process.

Product Features

- Ceiling Mounted
- Articulating Arms
- Remote Control



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Standard Work Platform

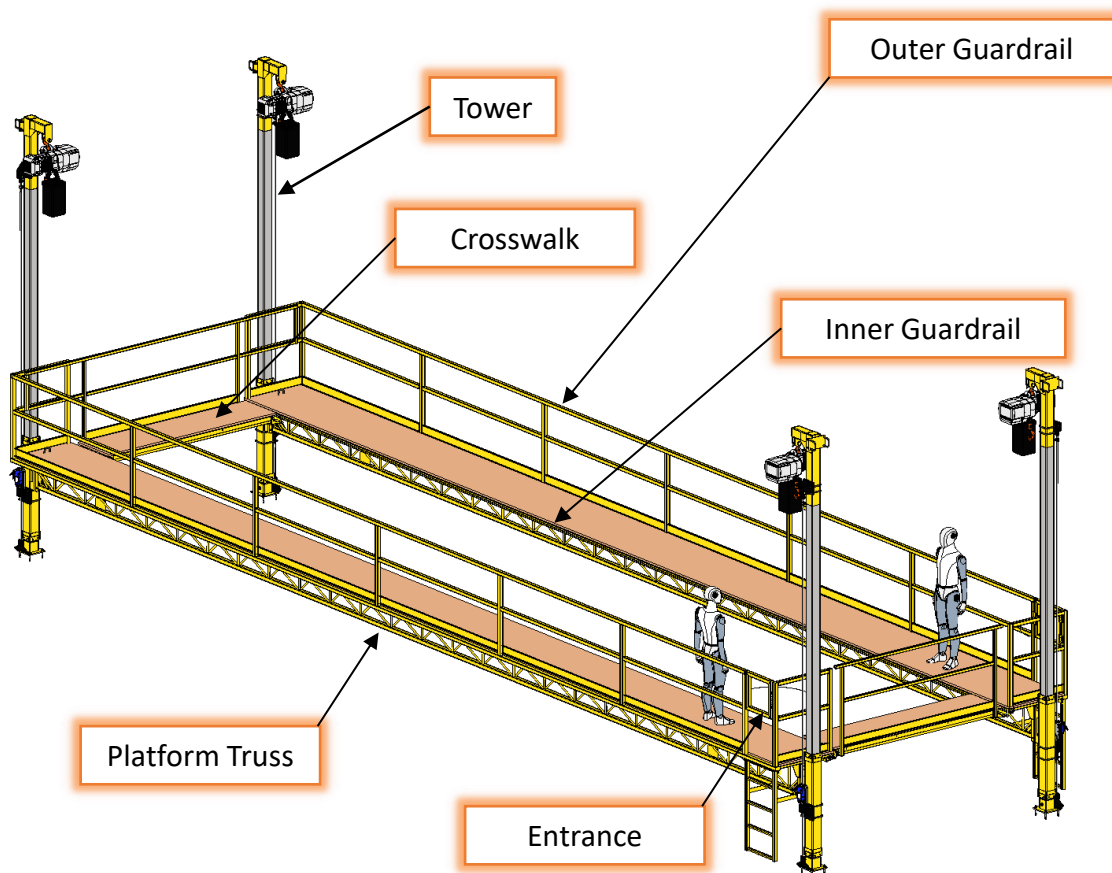


Product Description

1. The ultimate solution for safe and efficient access to rooftops and sidewalls of RVs, trailers, or mobile homes. Easily adjust the height of the work platform to provide optimal reach for any job.

Product Features

- Dual electric chain hoists
- Safety load arrestor system
- Up/down limits
- Safety guardrails
- Crosswalks
- Custom configurations: platform width, length, distance between platforms
- Capacity ratings
- Wireless controls
- Safety options include: beacons, buzzers, time delays
- Additional options include: under platform LED lighting, electrical receptacles on platforms, Air Fittings



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Work Platform Design Form



Cranes

Mezzanine

Fall Protection

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Question		Answer				
1	Platform Intended Use		Production Plant	Service Bay		
2	Production Line Roll Frequency	minutes	20	15	7	
3	Building Construction Type		PEMB (roof bar joists)	PEMB (roof purlins)	Wood Construction	
4	Project Type		Stand Alone	New Construction/Renovation		
5	Local/State Permit Required		Yes	No		
6	Minimum Building Ceiling Height	(ft.)				
7	Concrete Floor Thickness	(in.)				
8	Unit Entry		side to side style	elephant style		
9	Platform inside workspace Type		Adjuststable	Fixed		
10	Platform Guardrail Type		Single (guardrail on side)	Double (guardrail in center)		
11	Platform Guardrail Height	(in.)	42" / other _____			
12	Platform Worker Access		Floor by Ladder	Mezzanine Outrigger	Floor Ramp	Outrigger Stair
13	Platform Width	(in.)				
14	Platform Load Capacity		# of Persons: _____	Tool Weight Per Person: _____		Misc. Weight: _____
15	Unit Minimum Width (no awning)	(in.)				
16	Unit Minimum Width (with awning)	(in.)				
17	Unit Max Width (no awning)	(in.)				
18	Unit Max Width (with awning)	(in.)				
19	Unit A Frame Minimum Length	(ft.)				
20	Unit Shell Minimum Length	(ft.)				
21	Unit Shell Max Length	(ft.)				
22	Unit Max Height (no AC)	(ft.)				
23	Unit Max Height (with AC)	(ft.)				
24	Unit Max Height (with AC) on dolly	(ft.)				
25	Crosswalk Guardrail Type		Standard	Expandable	Pivot Rail	
25	Crosswalk Inside Treatments		Corner Fill-in	Gap Fill-in	Inner Guardrail	
26	Inner Guardrail Type		Cam Gates	Telescoping Guardrail	Ratchet Strap	Removeable Sections
27	Outer Guardrail Options		Standard	Saw Table w/ Finger Rack	Air Supply	Electrical Outlets
27	Tower Height	(ft.)				
27	Tower Position		Centered	Offset (Amount: _____ in.)		
28	Tower Orientation		Standard	Rotated		

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Work Platform Design Form



Cranes

Mezzanine

Fall Protection

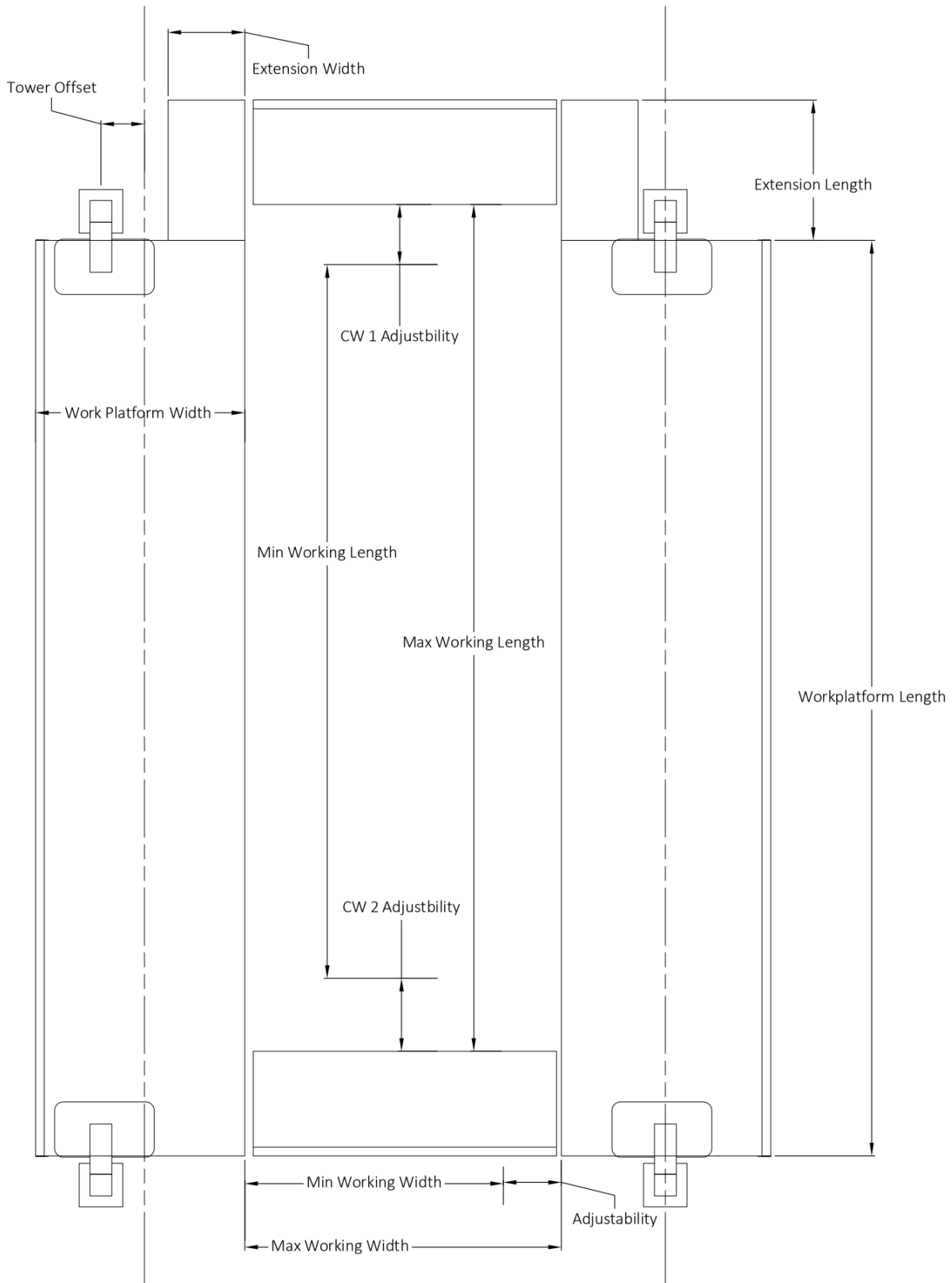
Smart Solutions

Cranes

Mezzanine

Fall Protection

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Work Platform Design Form



Cranes

Mezzanine

Fall Protection

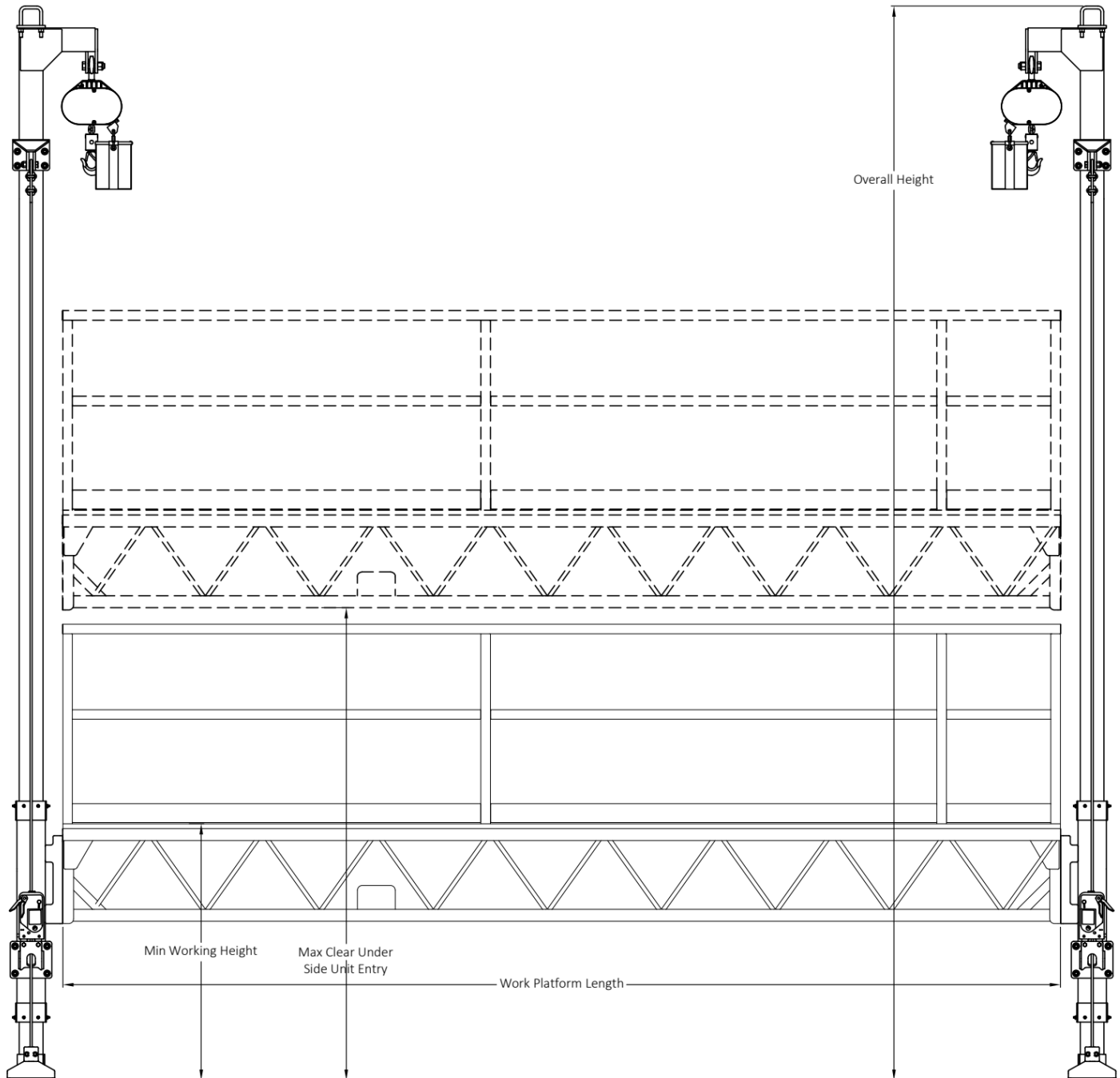
Smart Solutions

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Mezzanine

Fall Protection

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Work Platform Design Form



Cranes

Mezzanine

Fall Protection

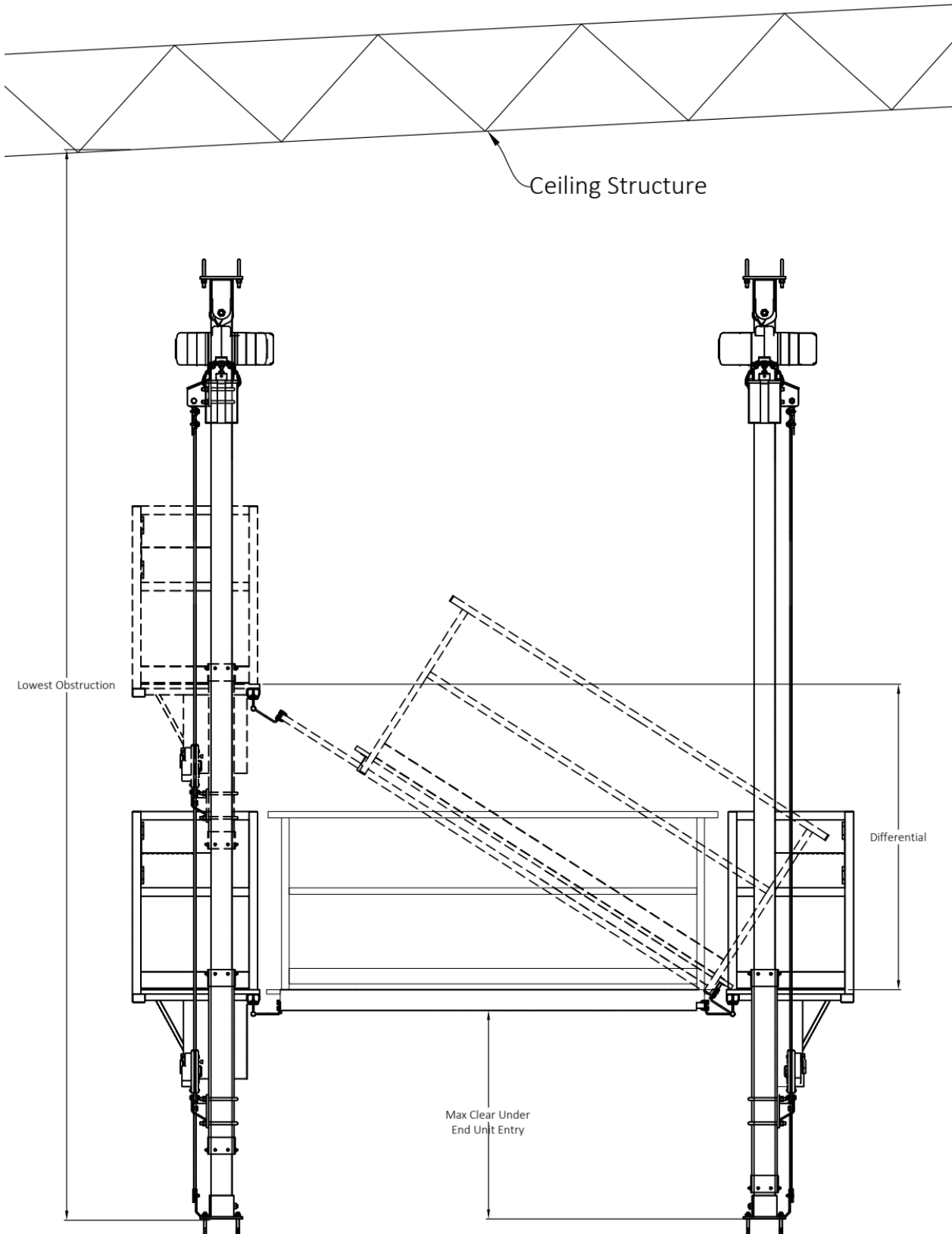
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Mezzanine

Fall Protection

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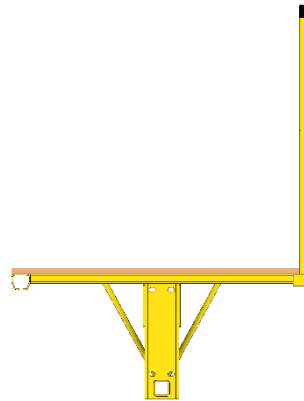
Work Platform Truss Options



Cranes

Triangular Truss

- Standard capacity (2 person+350lbs of tools and equipment)
- For spans up to 55'
- Crosswalk Compatible



Cranes

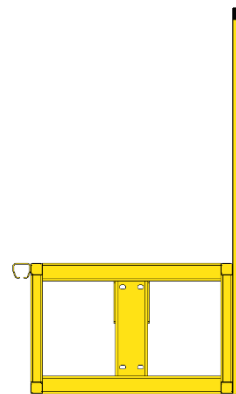
Mezzanine

Mezzanine

Fall Protection

Box Truss

- Heavy duty capacities
- For spans >55'
- Crosswalk Compatible

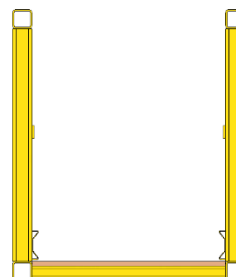


Fall Protection

Smart Solutions

Open Truss

- Heavy duty capacities
- For spans >55'
- Not Crosswalk Compatible
- Low Headroom



Smart Solutions

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Work Platform Truss Options

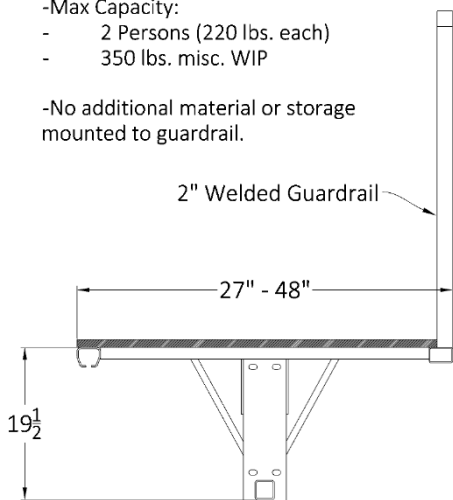


Triangle Truss Single Work Platforms

Cranes

- Single Work Platform
- Triangular Truss Design
- Length: 0 - 56'
- Max Capacity:
 - 2 Persons (220 lbs. each)
 - 350 lbs. misc. WIP

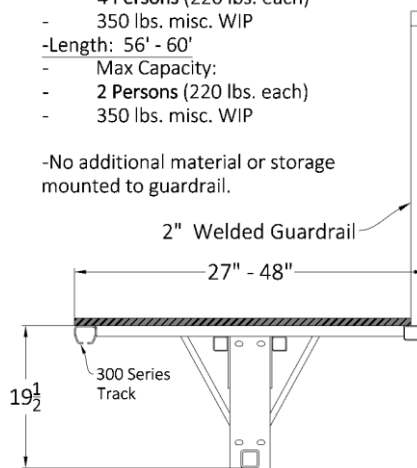
-No additional material or storage mounted to guardrail.



Mezzanine

- Single Work Platform
- Triangular Truss Design
- Length: 0 - 56'
- Max Capacity:
 - 4 Persons (220 lbs. each)
 - 350 lbs. misc. WIP
- Length: 56' - 60'
- Max Capacity:
 - 2 Persons (220 lbs. each)
 - 350 lbs. misc. WIP

-No additional material or storage mounted to guardrail.



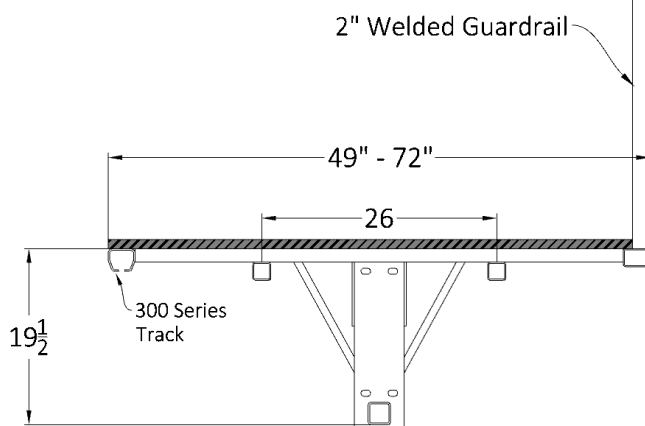
Cranes

Mezzanine

Fall Protection

- Single Work Platform
- Triangular Truss Design
- Length: 0 - 56'
- Max Capacity:
 - 2 Persons (220 lbs. each)
 - 350 lbs. misc. WIP

-No additional material or storage mounted to guardrail.



Smart Solutions

Fall Protection

Smart Solutions

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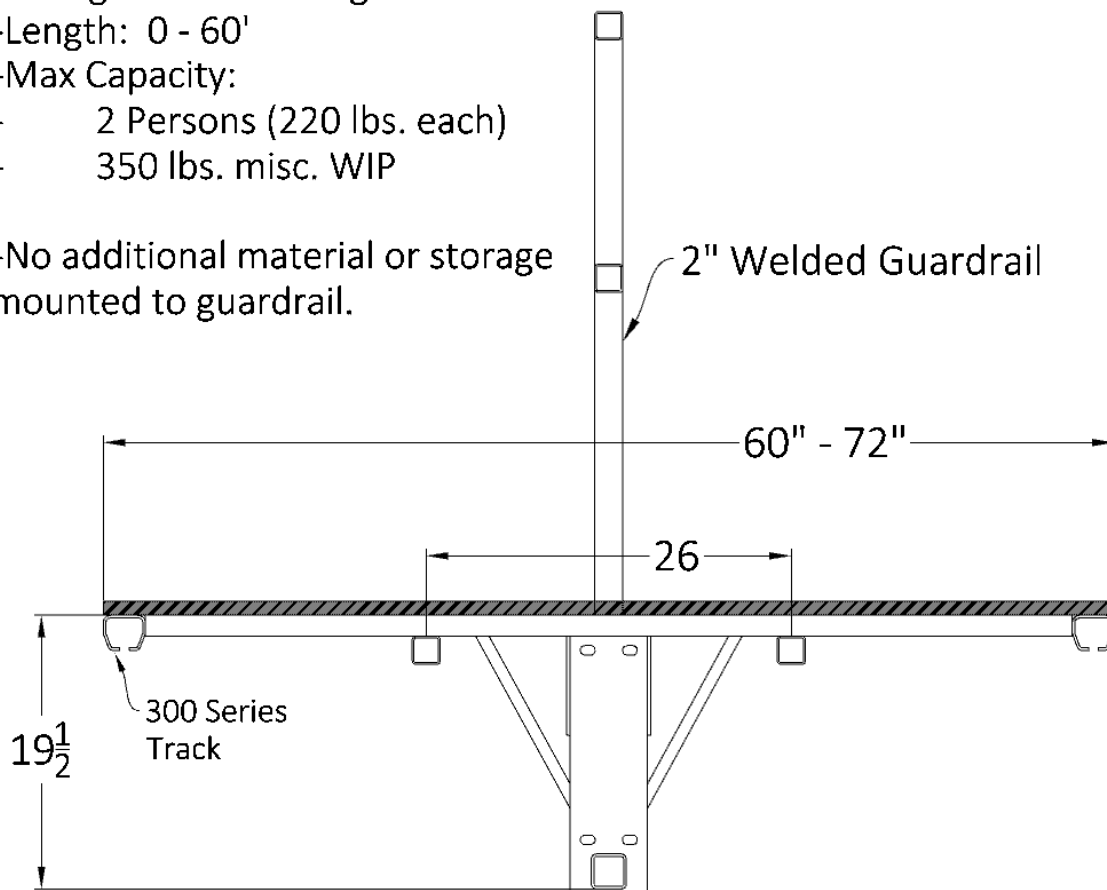
Work Platform Truss Options



Triangle Truss Double Work Platform

- Double Work Platform
- Triangular Truss Design
- Length: 0 - 60'
- Max Capacity:
 - 2 Persons (220 lbs. each)
 - 350 lbs. misc. WIP

-No additional material or storage mounted to guardrail.



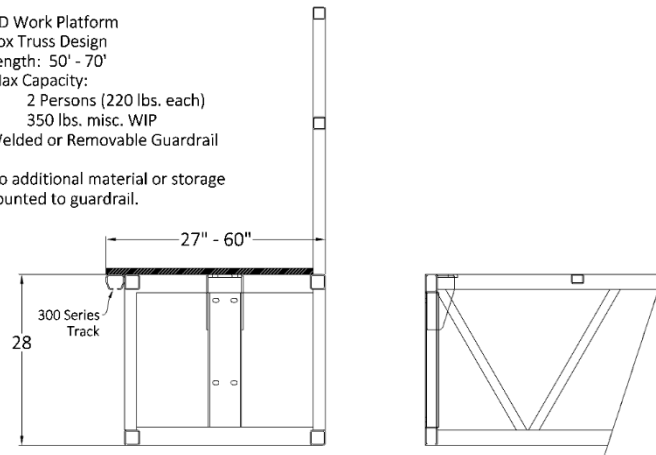
Work Platform Truss Options



Box Truss Single Tower Work Platforms

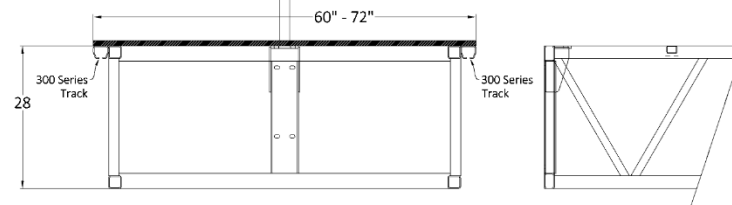
- HD Work Platform
- Box Truss Design
- Length: 50' - 70'
- Max Capacity:
 - 2 Persons (220 lbs. each)
 - 350 lbs. misc. WIP
- Welded or Removable Guardrail

-No additional material or storage mounted to guardrail.

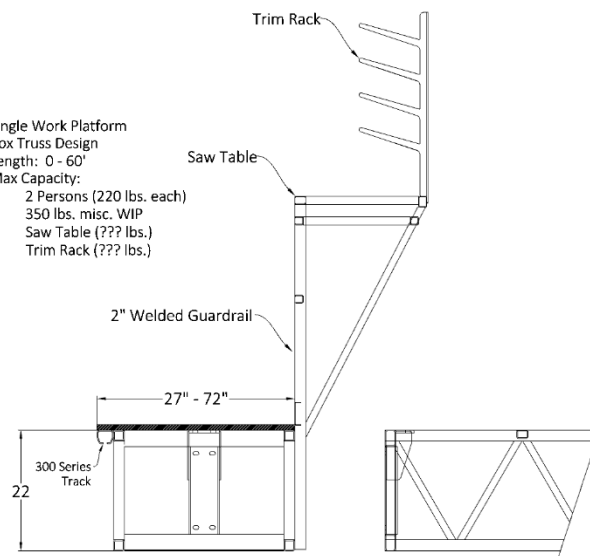


- Double Work Platform
- Box Truss Design
- Length: 50' - 70'
- Max Capacity:
 - 2 Persons (220 lbs. each)
 - 350 lbs. misc. WIP
- Welded or Removable Guardrail

-No additional material or storage mounted to guardrail.



- Single Work Platform
- Box Truss Design
- Length: 0 - 60'
- Max Capacity:
 - 2 Persons (220 lbs. each)
 - 350 lbs. misc. WIP
 - Saw Table (?? lbs.)
 - Trim Rack (?? lbs.)



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Work Platform Truss Options



Box Truss Double Tower Work Platforms

Cranes

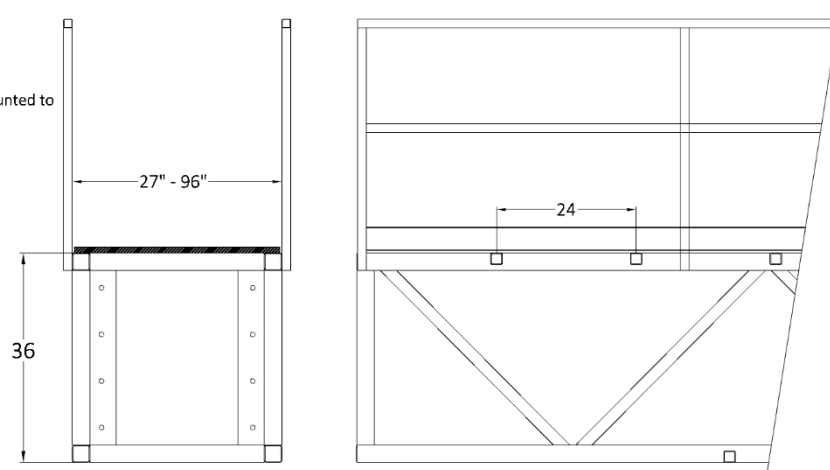
Mezzanine

Cranes

Mezzanine

- Single Work Platform
- Box Truss Design
- Length: 60' - 90'
- Max Capacity:
 - 4 Persons (220 lbs. each)
 - 700 lbs. misc. WIP
- Welded or Removable Guardrail

-No additional material or storage mounted to guardrail.



Fall Protection

Smart Solutions

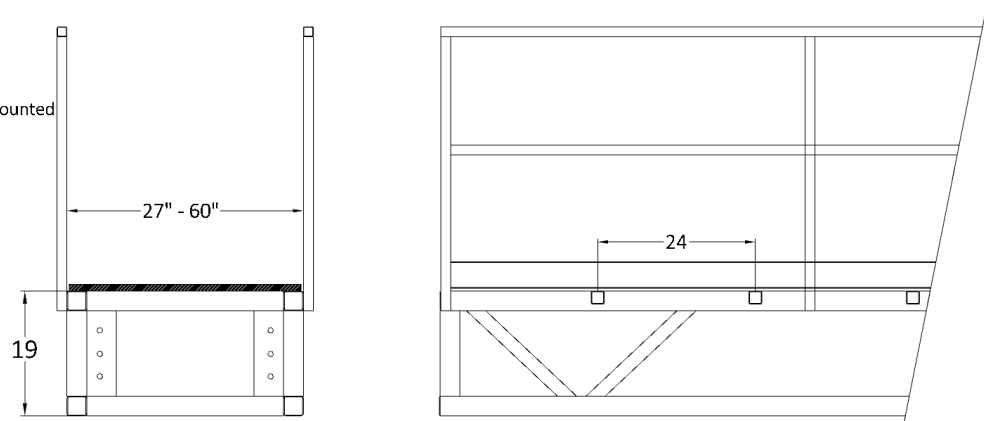
Fall Protection

Smart Solutions

LOW HEADROOM OPTION

- HD Work Platform
- Box Truss Design
- Length: 50' - 62'
- Max Capacity:
 - 4 Persons (220 lbs. each)
 - 700 lbs. misc. WIP
- Welded or Removable Guardrail

-No additional material or storage mounted to guardrail.

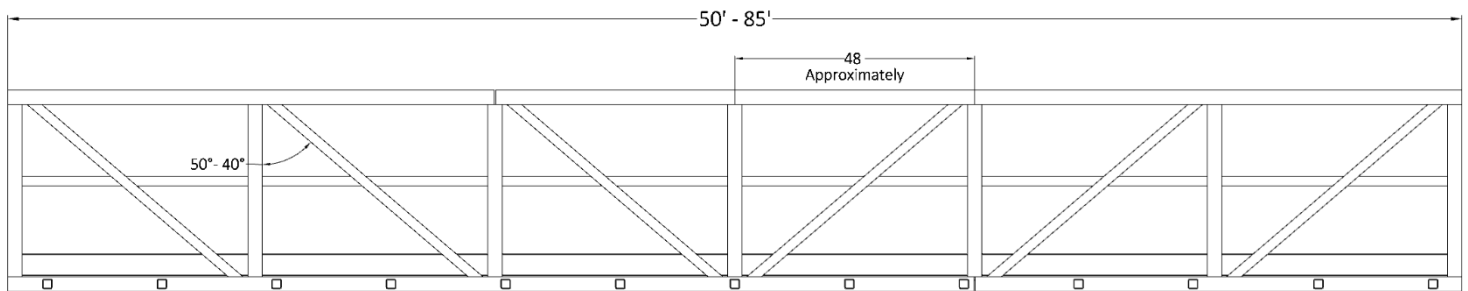
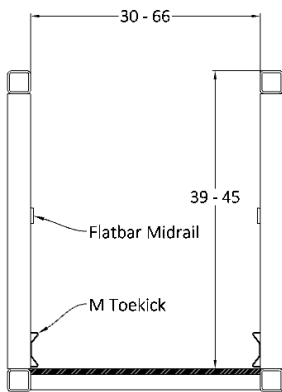


Work Platform Truss Options



Open Truss Double Tower Work Platforms

- HD Work Platform
- Open Truss Design
- Length: 50' - 85'
- Max Capacity:
 - 6 Persons (220 lbs. each)
 - 430 lbs. misc. WIP
- Truss Structure is the guardrail.
- Midrail: Flatbar
- No additional material or storage mounted to guardrail.



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Work Platform Tower Options



- Standard Single Tower
- Reversed Single Tower
- Suspended Tower
- Rolling Tower

Cranes

Mezzanine

Fall Protection

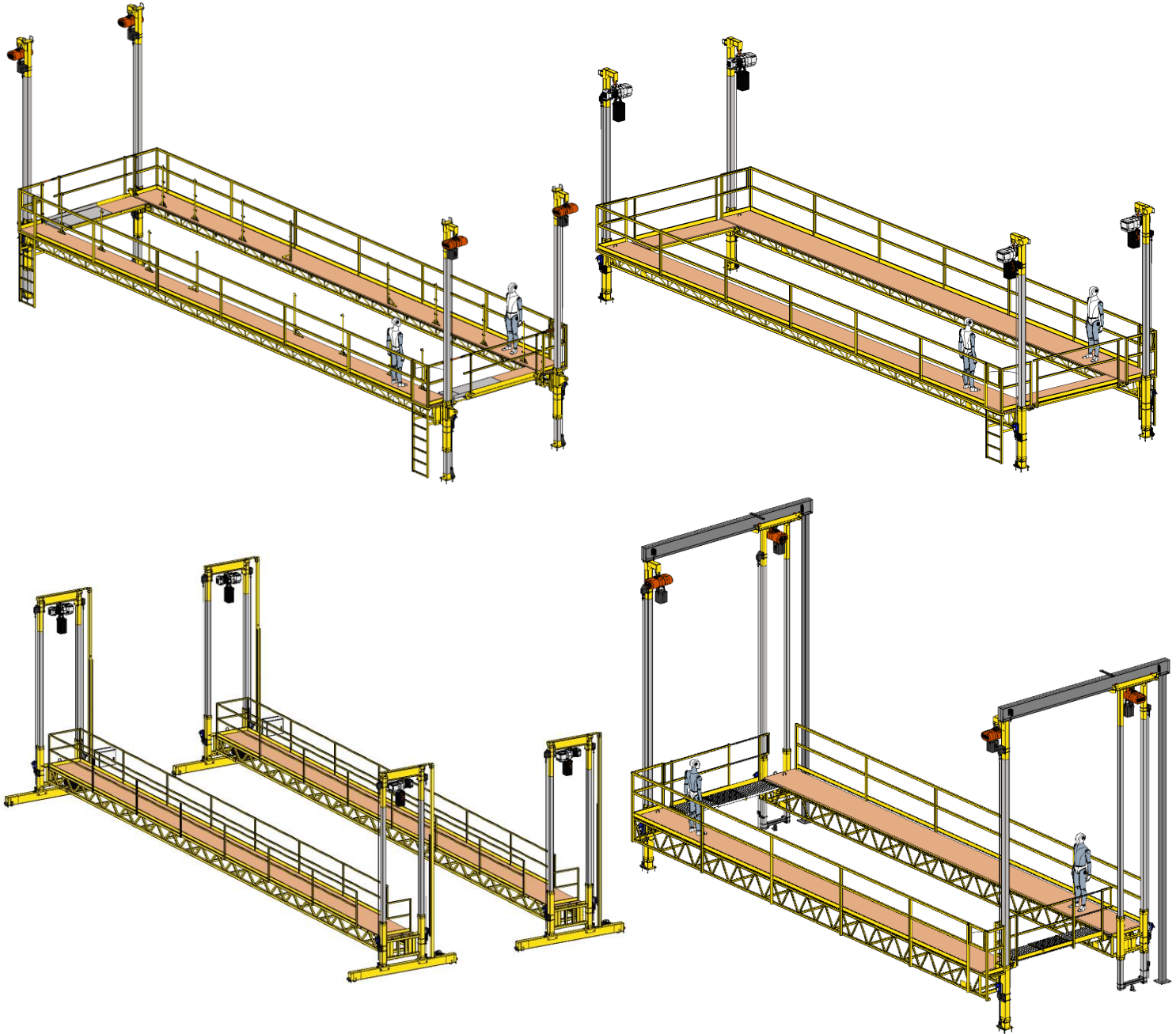
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Cranes

Mezzanine

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Work Platform Inner Guardrail Options

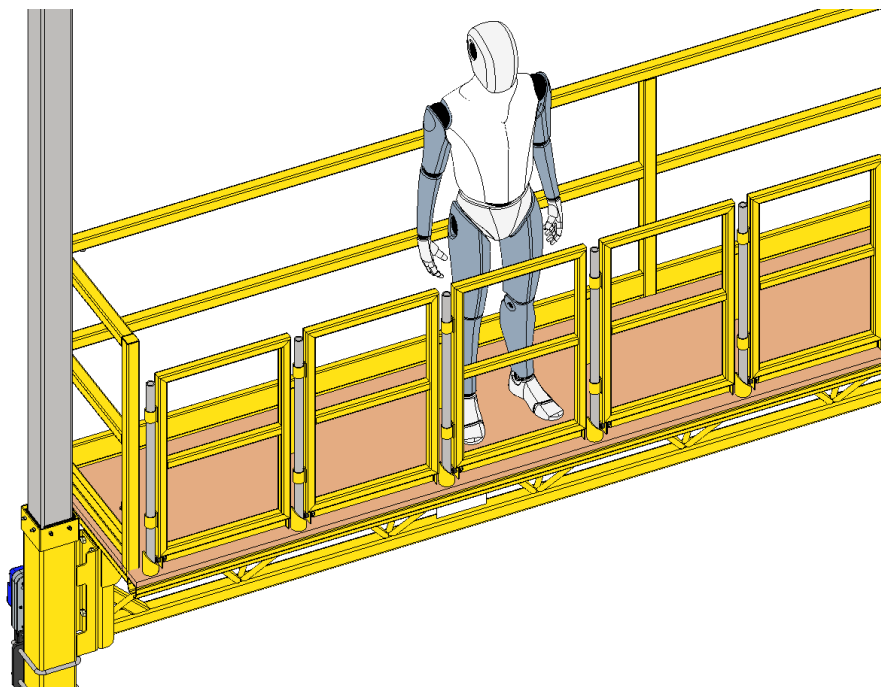
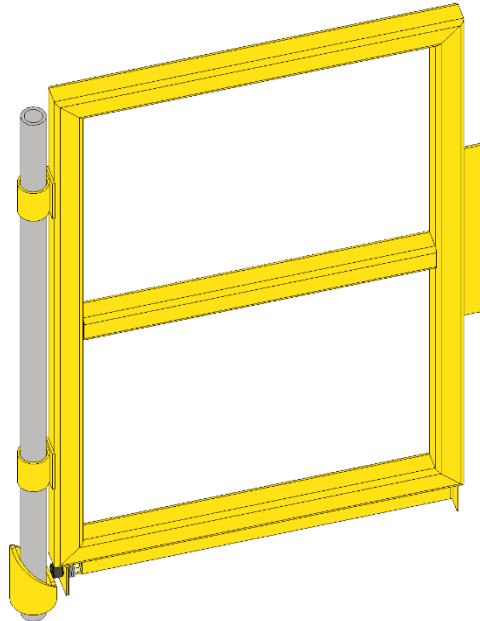


Product Description

- Cam Gates
- Good option for inner guard rail when there is a big differential between the largest unit and shortest unit that is being built in the work platform.

Product Features

- Self Closing Gates
- Customizable Placement



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Work Platform Inner Guardrail Options

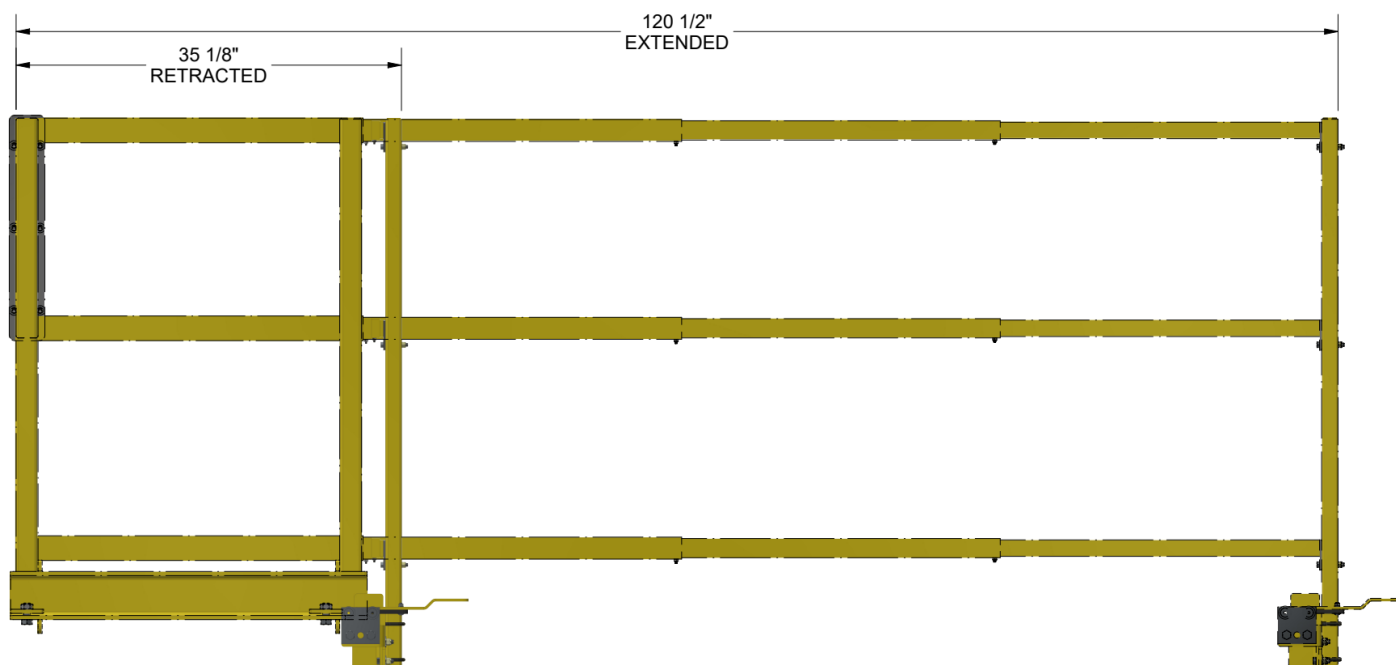
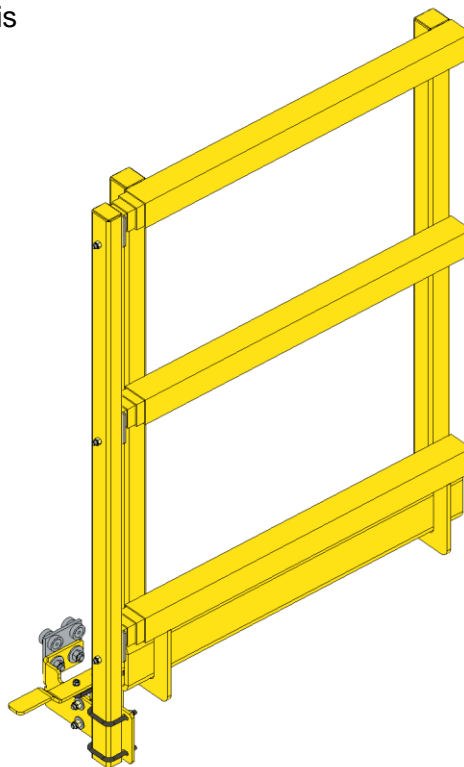


Product Description

- Telescoping Guardrail
- Good option for inner guard rail when there is only a 7' differential between the largest unit and shortest unit that is being built in the work platform.

Product Features

- Linked to the rear of a crosswalk
- Retracted base can be installed anywhere along the 300 series track of the workplatform.
- Work Platform Requirements
 - Width $\geq 36"$
 - 300 Series Track



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Work Platform Inner Guardrail Options

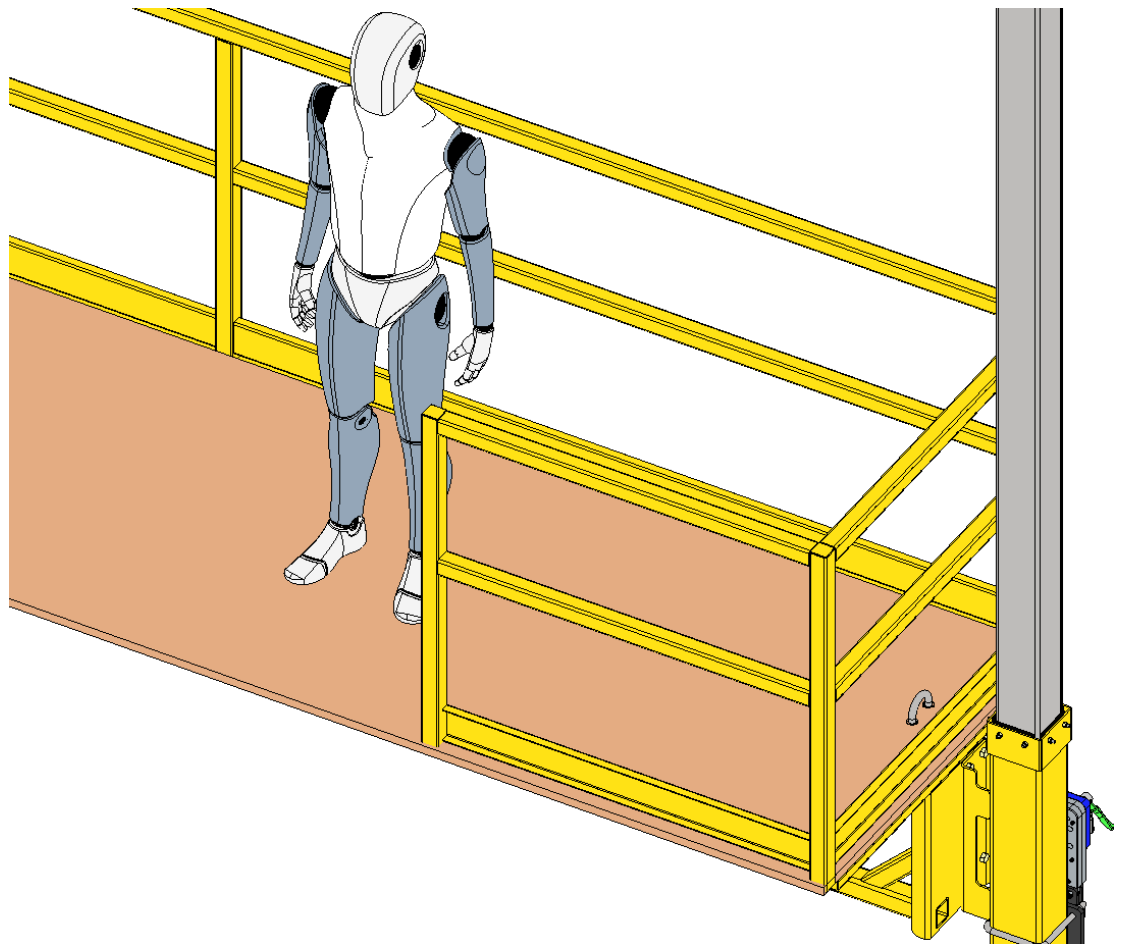


Product Description

- Fixed Guardrail
- Good option for inner guard rail when there is only no differential between the largest unit and shortest unit that is being built in the work platform.

Product Features

- Welded to the top of the 300 Series track



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Work Platform Inner Guardrail Options

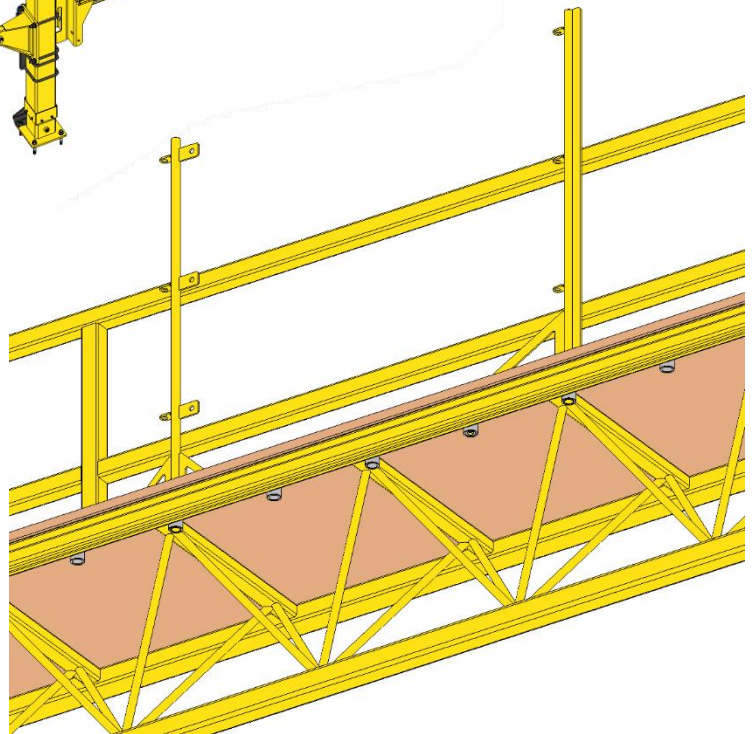
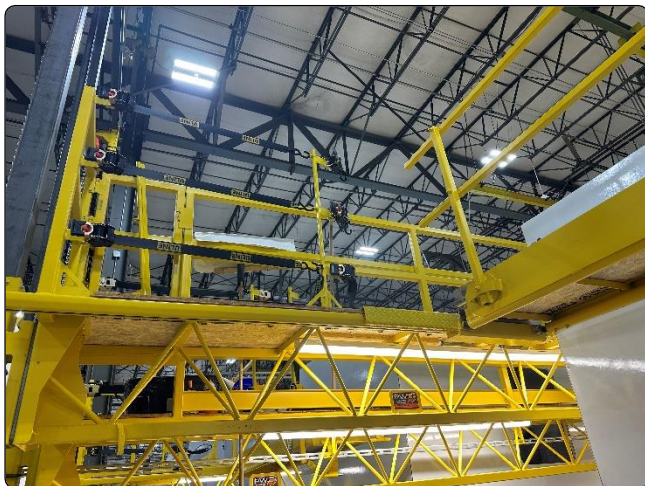
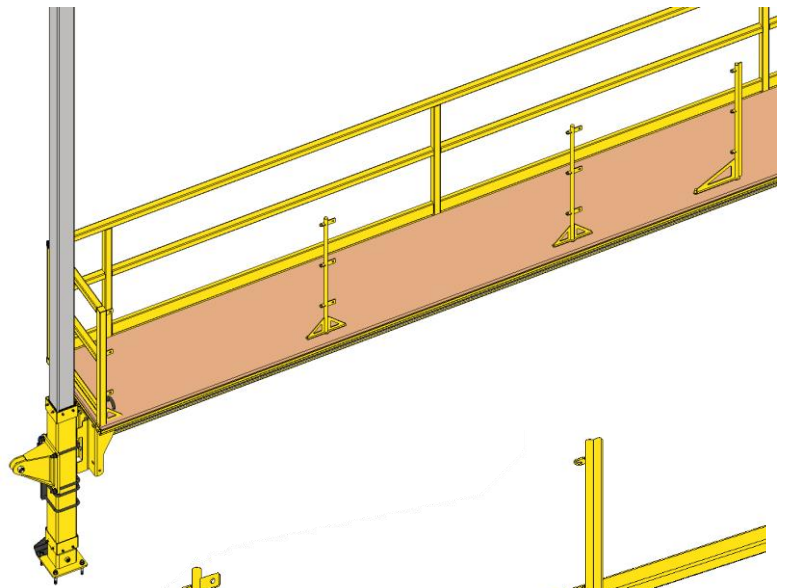


Product Description

- Ratchet Strap Guardrail
- Good option for inner guard rail when there is a large differential between the largest unit and shortest unit that is being built in the work platform.

Product Features

- Removable posts
- Pockets installed every 12"
- Straps are used for the top, middle, and bottom rails



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Work Platform Inner Guardrail Options

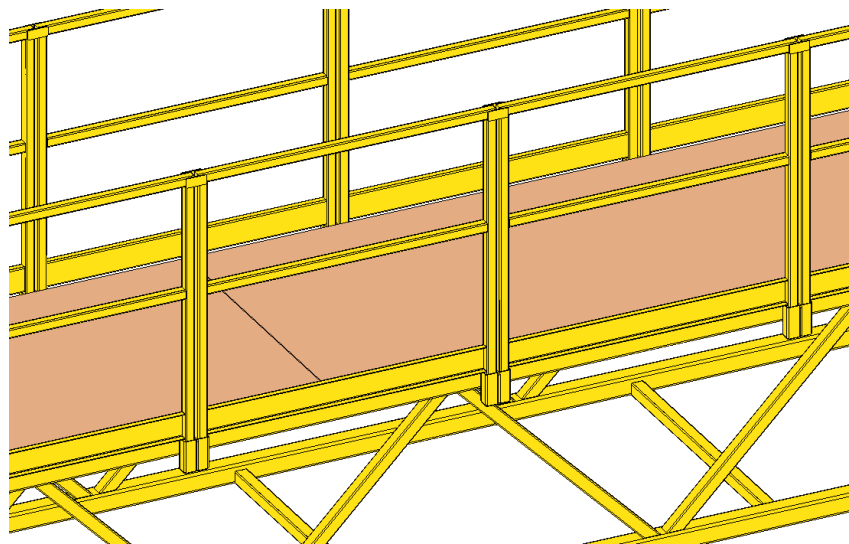
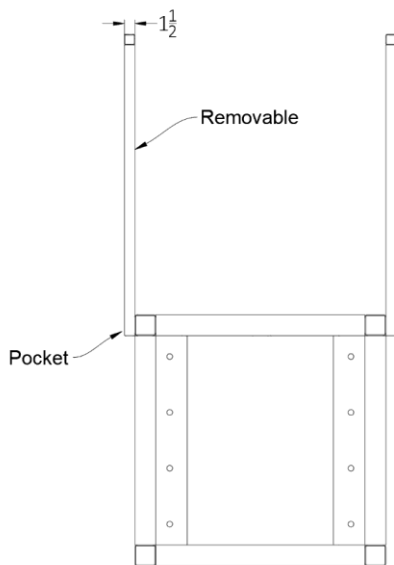


Product Description

- Removeable Guardrail
- Good option for inner guard rail when there is a large differential between the largest unit and shortest unit that is being built in the work platform. Also good option when there are specific areas that the workers plan to walk onto the units.

Product Features

- Removable guardrail section
- Recommended section length 4'-8'



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Work Platform Inner Guardrail Options

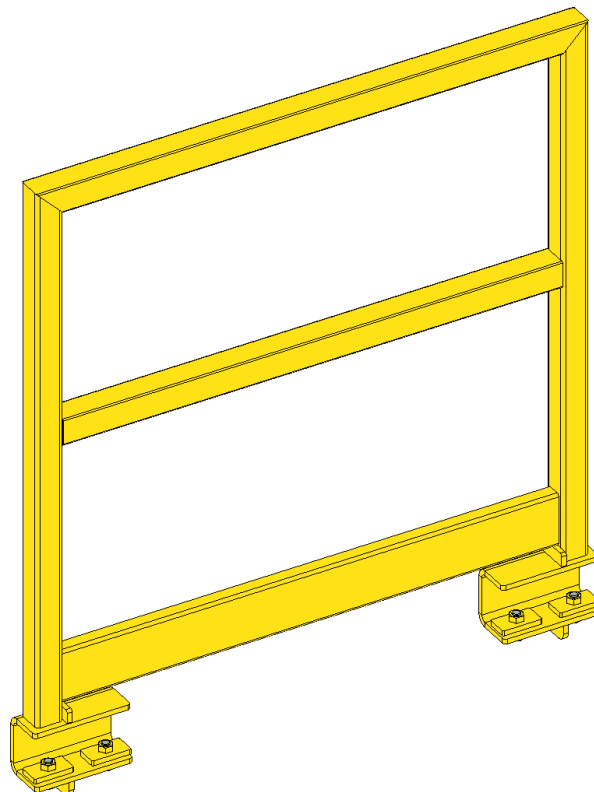


Product Description

- Bolt-on Guardrail
- Good option for inner guard rail when there is a large differential between the largest unit and shortest unit that is being built in the work platform, but the assembly line doesn't switch units very often.

Product Features

- Clamps into the 300 Series Track
- Removable guardrail section
- Recommended section length 2'-4'



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Work Platform Inner Guardrail Options

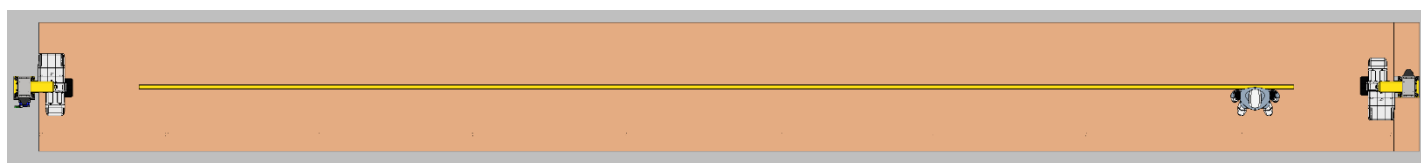
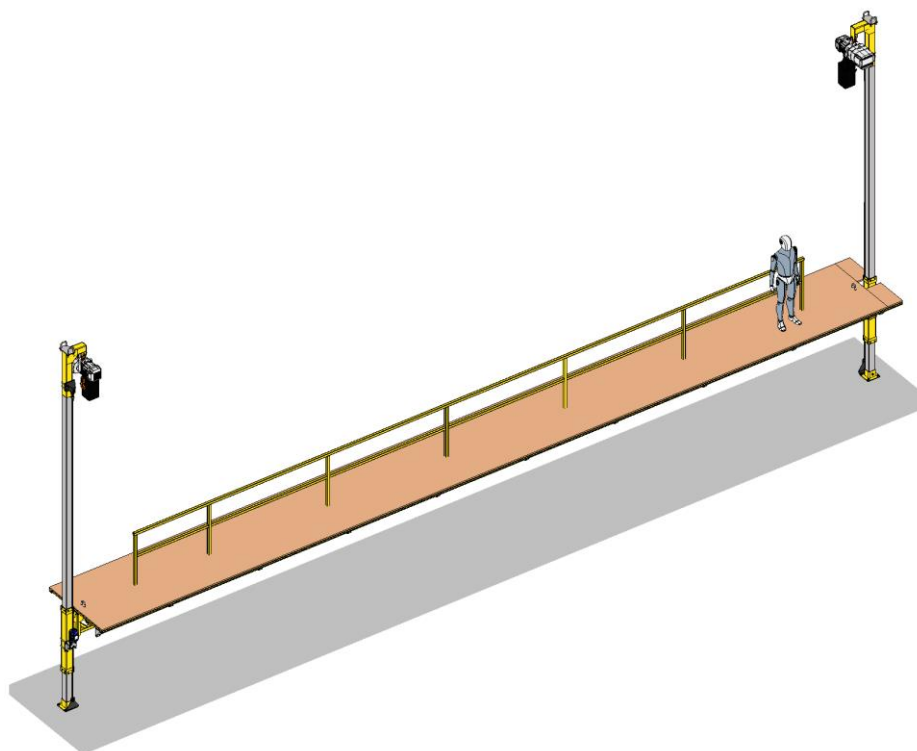
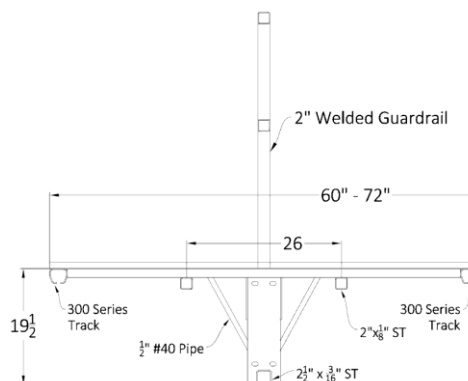


Product Description

- Centered Guardrail
- Good option for inner guard rail when there are multiple work platforms in a row that are connected with crosswalks. Units can be stationed on either side of the platform and workers have access to both units.

Product Features

- Welded guardrail



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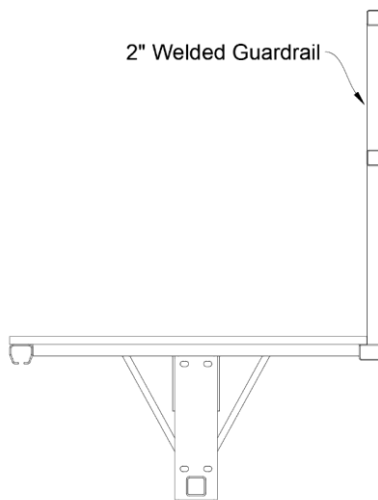


Work Platform Outer Guardrail Options



Product Options

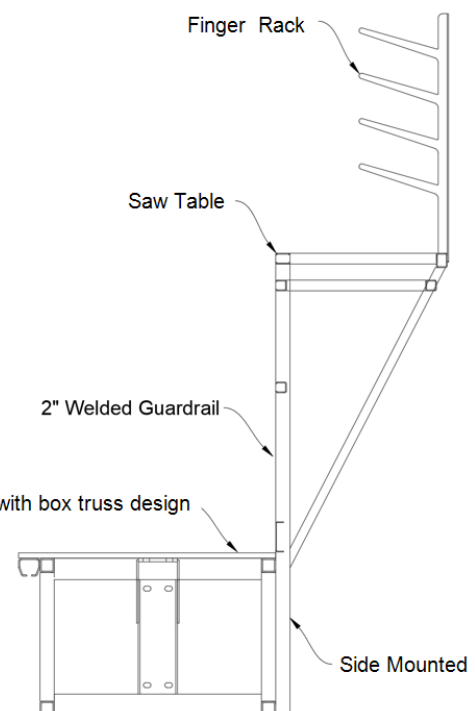
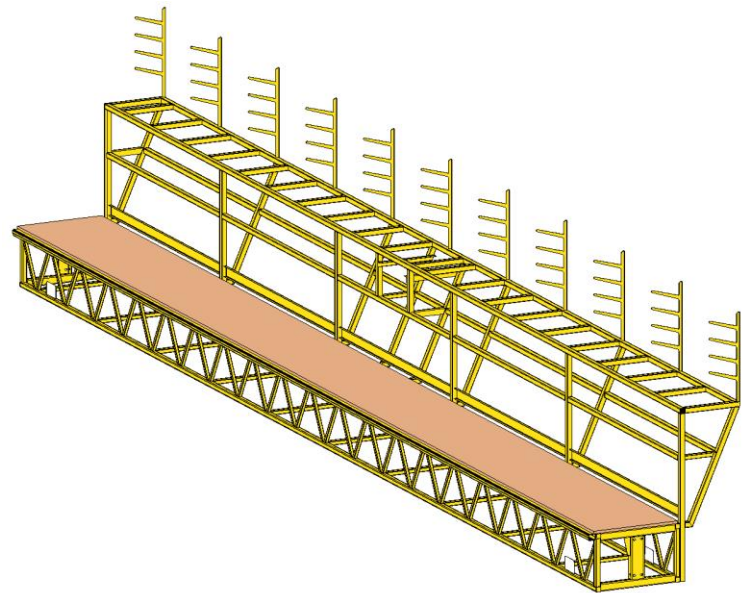
- Standard welded guardrail
- Saw tables
- Finger racks
- Airline guardrail



Standard Welded Guardrail



Airline Guardrail



Finger Racks with Saw Table

Cranes

Mezzanine

Fall Protection

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Cranes

Mezzanine

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Work Platform Entrance Options



Product Options

- Walk-on from Mezzanine
- Walk-on from Outrigger
- Walk-on from Stair
- Walk-on from Ramp
- Climb-on from Fixed Ladder
- Climb-on from Telescoping Ladder

Cranes

Mezzanine

Fall Protection

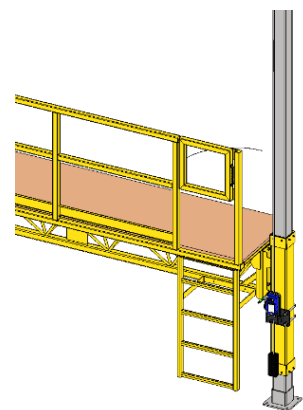
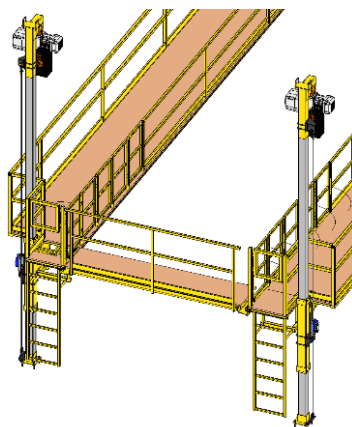
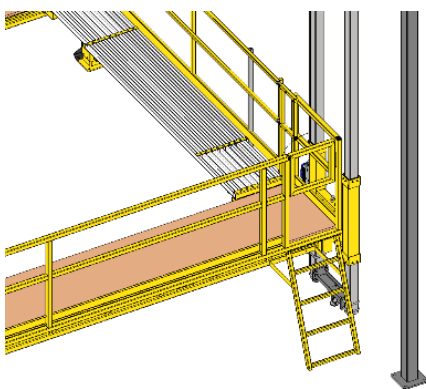
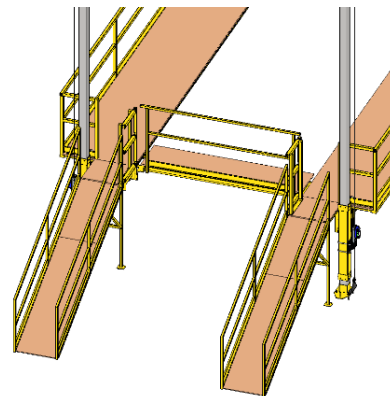
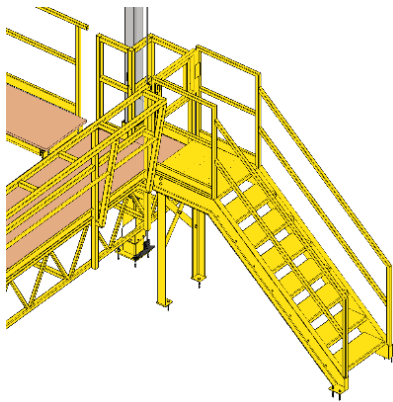
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Cranes

Mezzanine

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Work Platform Entrance Options



- Walk-on from Mezzanine
- Walk-on from Outrigger

Cranes

Mezzanine

Fall Protection

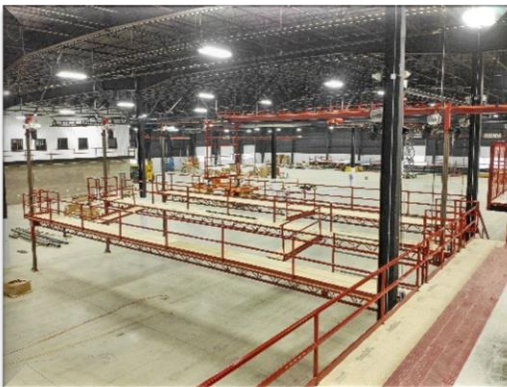
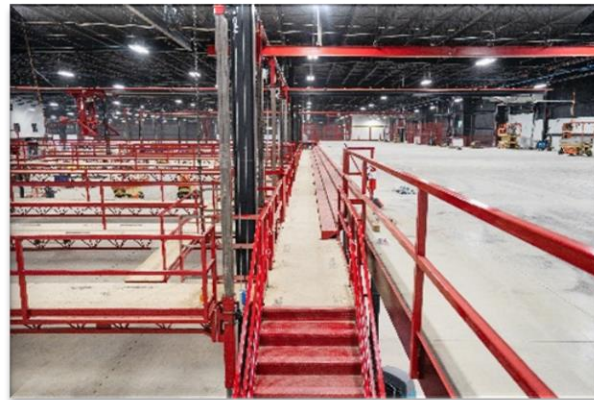
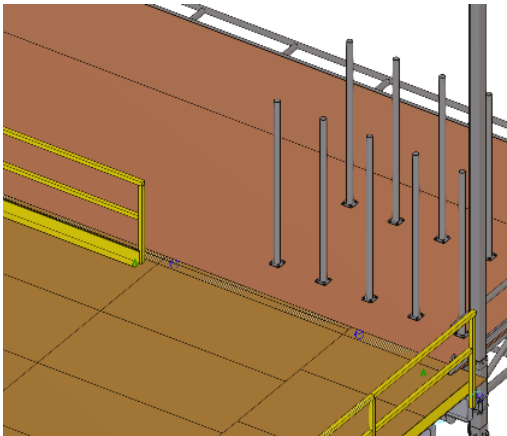
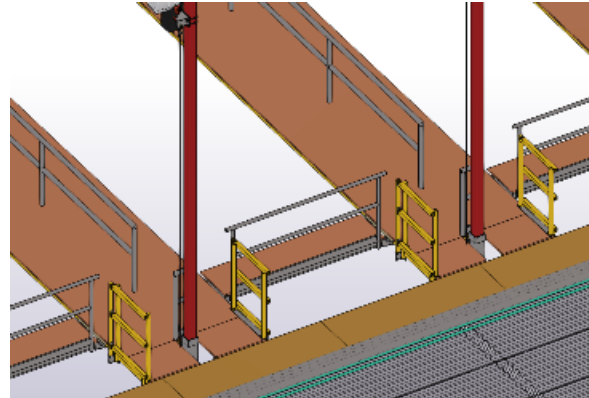
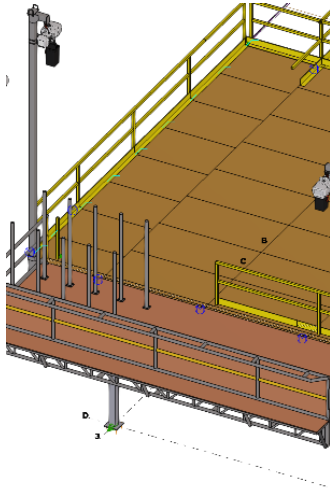
Smart Solutions

Cranes

Mezzanine

Fall Protection

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Material Platform



Product Description

An oversized platform to transport material from a mezzanine to the production line.

Product Features

- Separating guardrails to allow material to be unloaded at the lower level
- Load Arrestor System for added safety
- Wireless controls
- Additional safety options include beacons, buzzers, time delays

Cranes

Mezzanine

Fall Protection

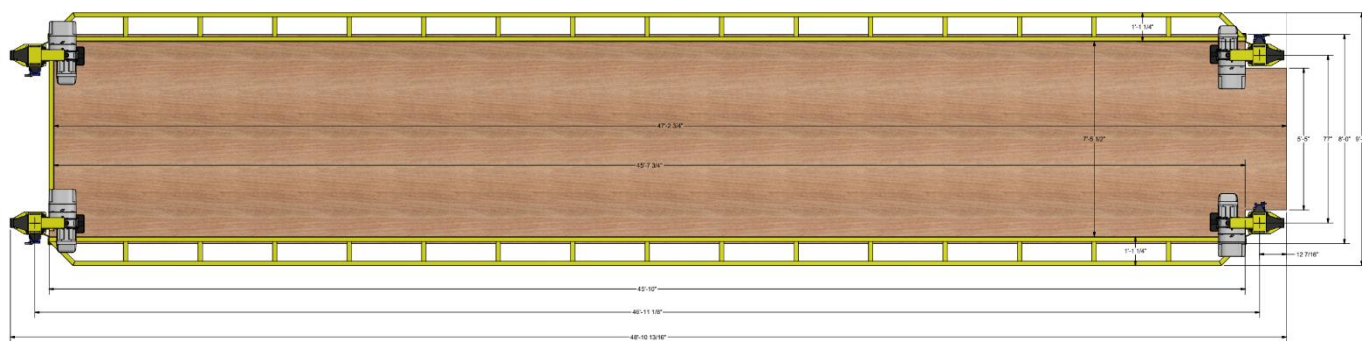
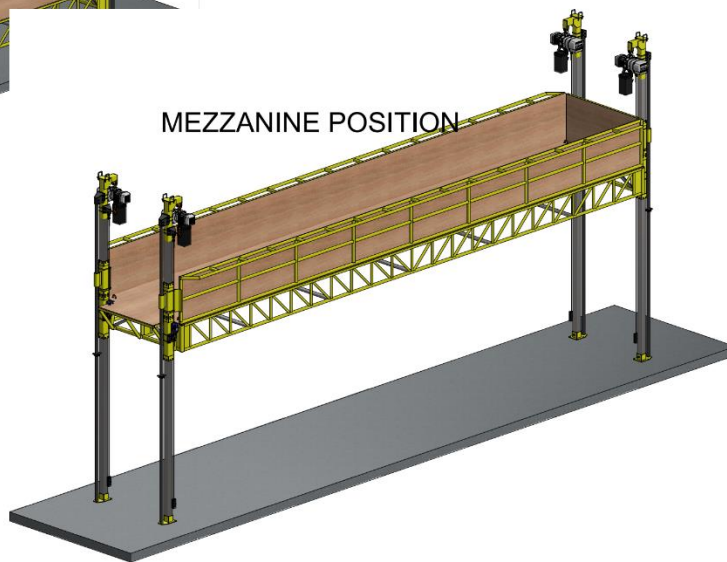
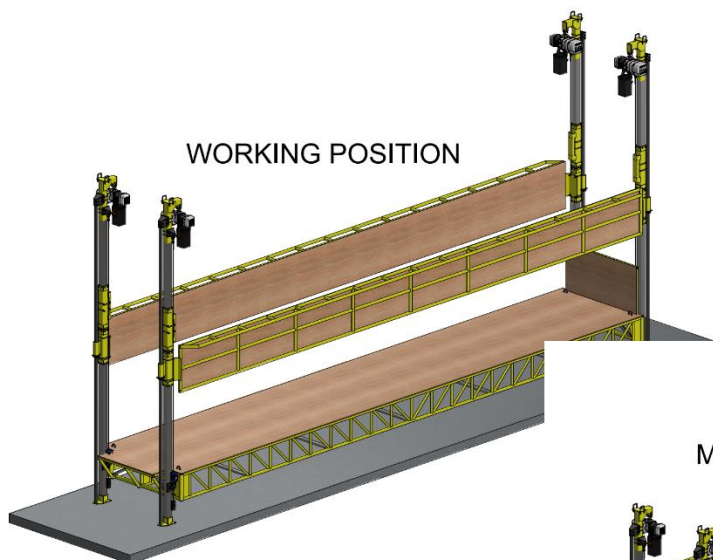
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Cranes

Mezzanine

Fall Protection

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Single Work Platform

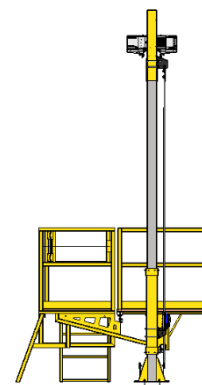
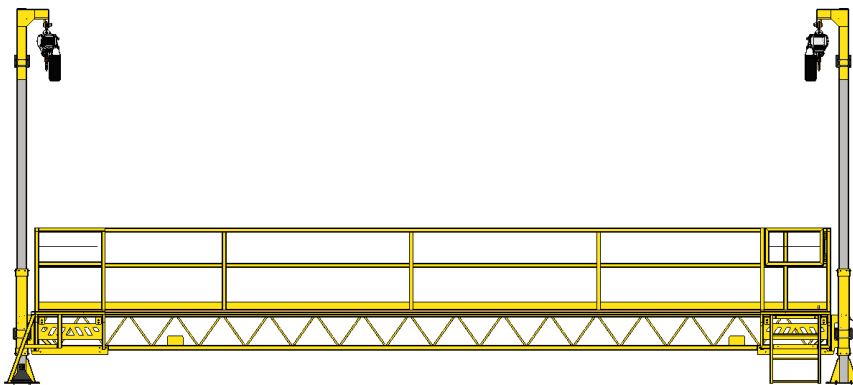
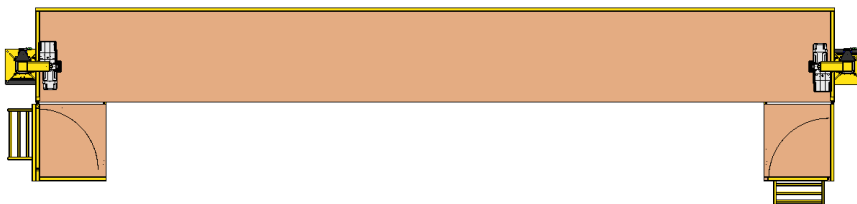
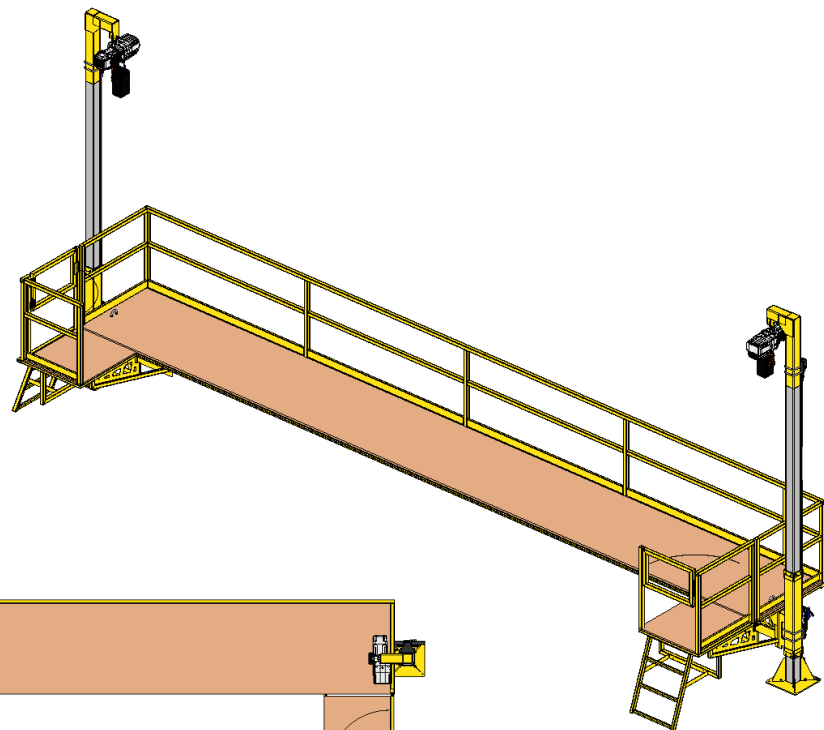


Product Description

- A single work platform used at stations where only one side of a unit needs to be accessed, or when a workstation is outside of the main production line.

Product Features

- Load Arrestor System for added safety
- Wireless controls
- Additional safety options include beacons, buzzers, time delays



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Standard Crosswalk

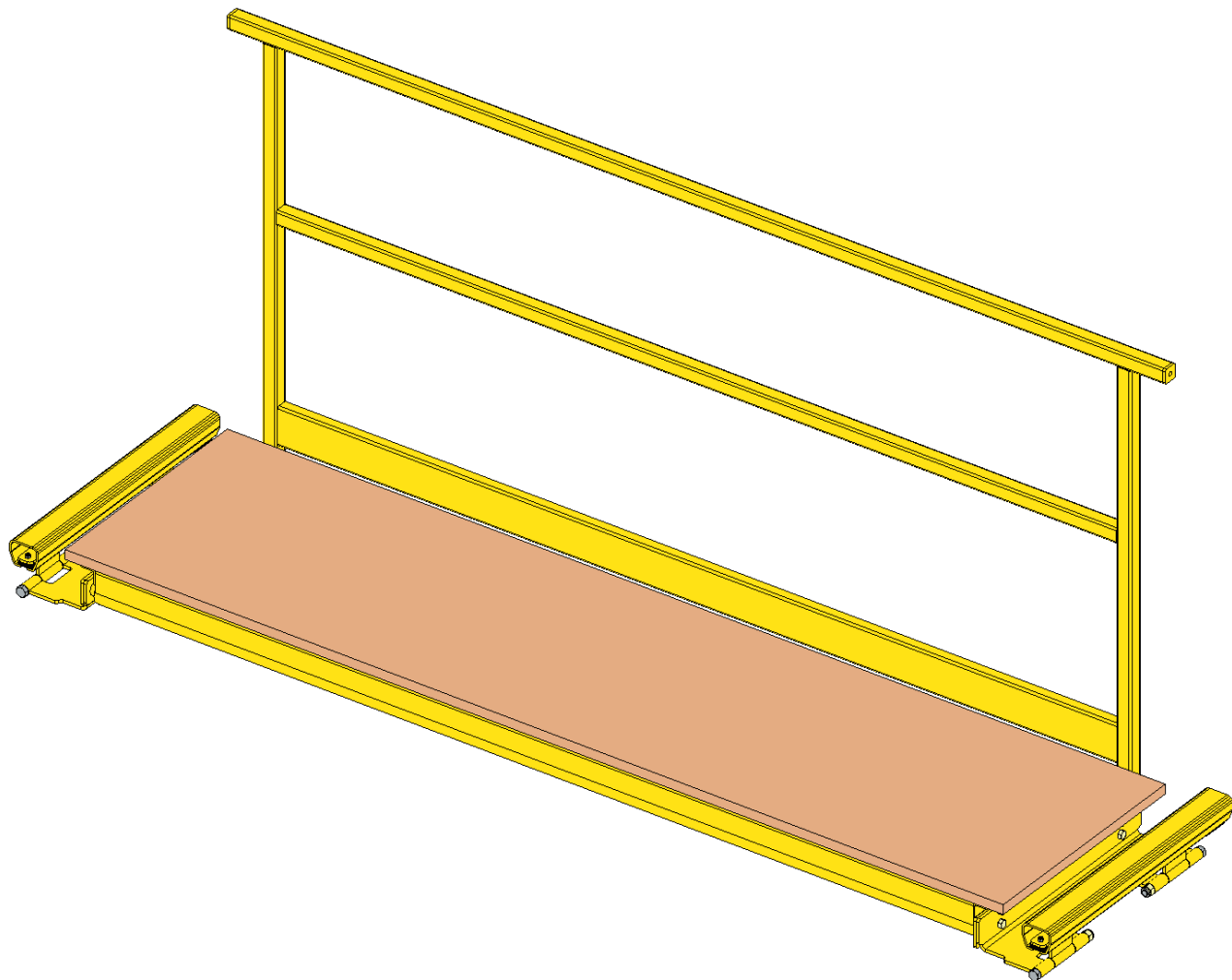


Product Description

- PWI's standard crosswalk allows the manufacturer to walk from one work platform to the adjacent work platform. This saves the manufacturer time to in having to exit the work platform and entering from a different entrance. The sliding guides inside the 300 series track allows the operator to move the crosswalk close enough to the unit so there is no risk of falling.

Product Features

- Capacity: 1 person + 50 lbs. of tools
- Inner Guardrail Compatibility: Telescoping Guardrail, Bolt-on Guardrail, Welded Guardrail
- Inside Treatment Options: Corner Fill-in, Gap Fill-in, Inner Guardrail
- Rear Guardrail: Welded
- Max work platform differential: 4'



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Expandable Crosswalk



Product Description

- PWI's expandable crosswalk serves the same person as the standard crosswalk, but the multi-section floor design eliminates the need to for inner guardrail almost entirely. The first section of the expandable crosswalk (base) is clamped to the 300 series track to so that it can't move. The rest of the floor sections expand in and out from the base to close the gap to the unit so that there is no risk of falling. This crosswalk is ideal for manufacturing different lengths of units within the same work platform station.

Product Features

- Capacity: 1 person + 50 lbs. of tools
- Inner Guardrail Compatibility: N/A
- Inside Treatment Options: Corner Fill-in, Gap Fill-in, Inner Guardrail
- Rear Guardrail: U-bolted
- Max work platform differential: 4'
- Panel Quantity Options: See Diagram C
- Hand Break for Safety

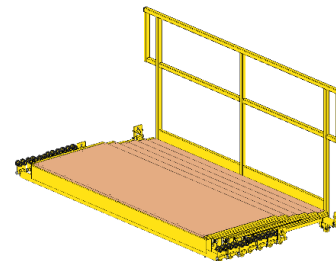


Diagram A

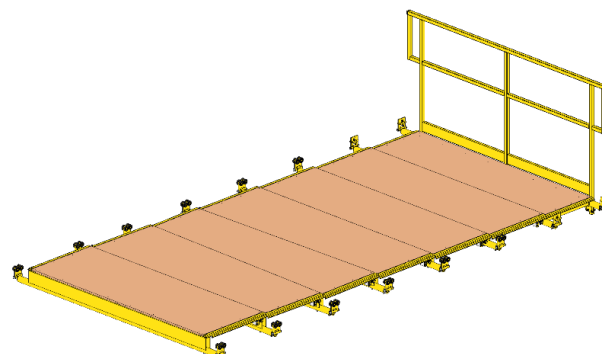


Diagram B

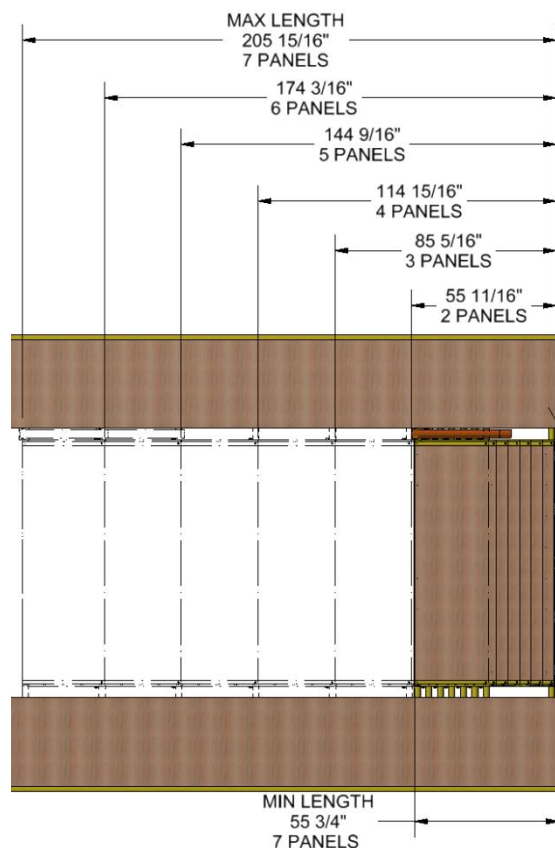


Diagram C

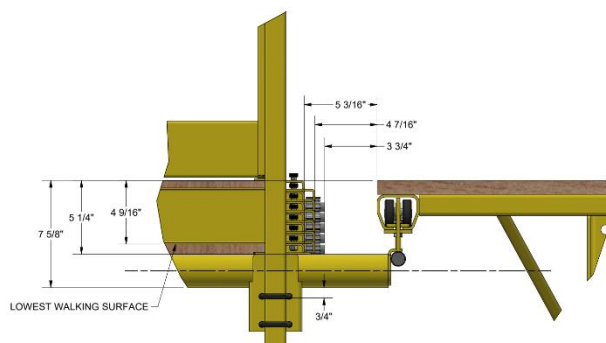


Diagram D

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Expandable Crosswalk Hand Brake

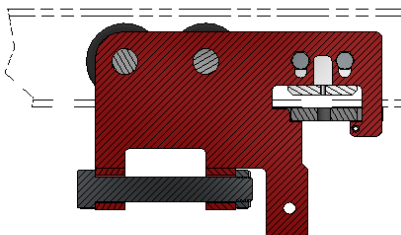
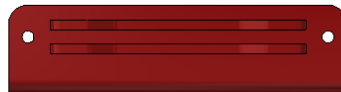
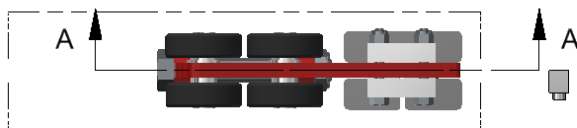


Product Description

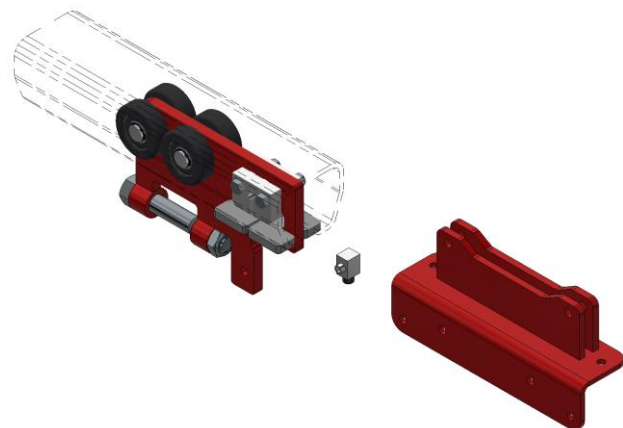
PWI's Expandable Crosswalk Hand Brake allows the user to lock the Expandable Crosswalk in place, increasing work platform safety by preventing backward and forward movement of the cross walk.

Product Features

- Mountable on top or the side of the crosswalk
- Cable braking system
- Durable
- Ergonomic design
- Increases safety and productivity
- Crosswalk stability
- Easy to install
- Easy to maintain
- Product Dimensions 16"L x 3.4" W



SECTION A-A



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Telescoping Crosswalk

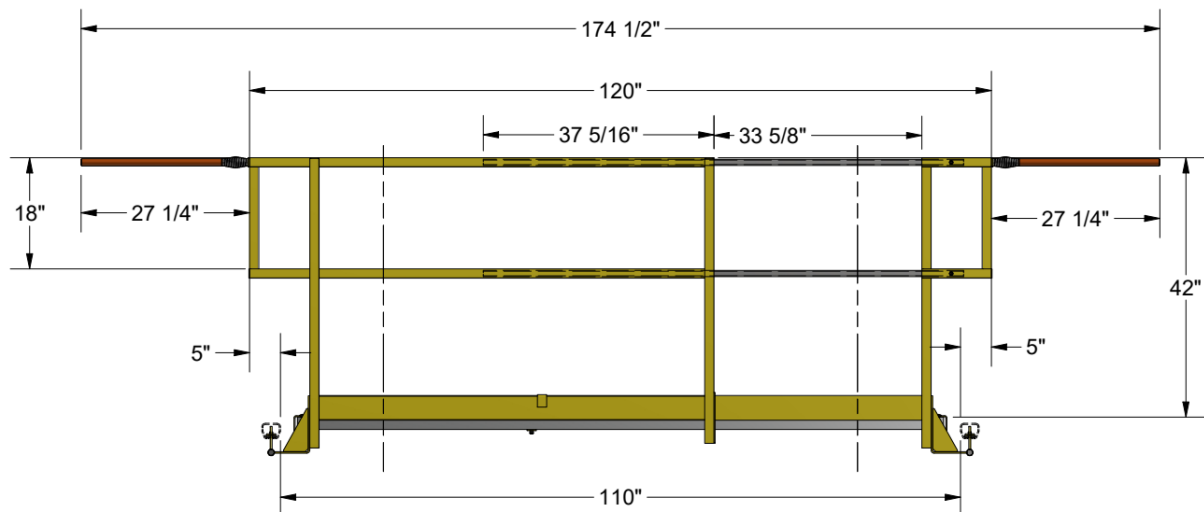
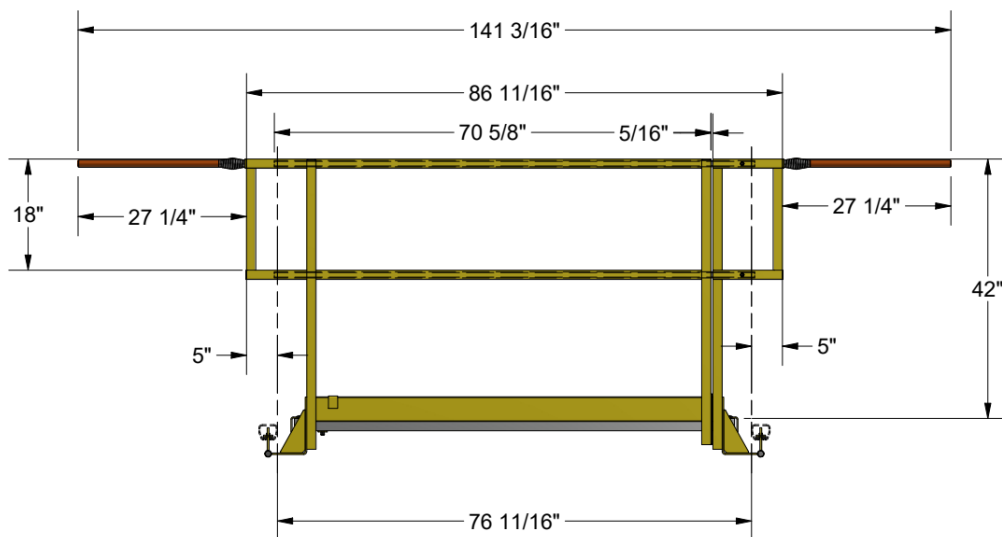


Product Description

- Enables adjustability in the workplatform's working area.

Product Features

- Modified Werner Planks



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Pivot Rail Crosswalk

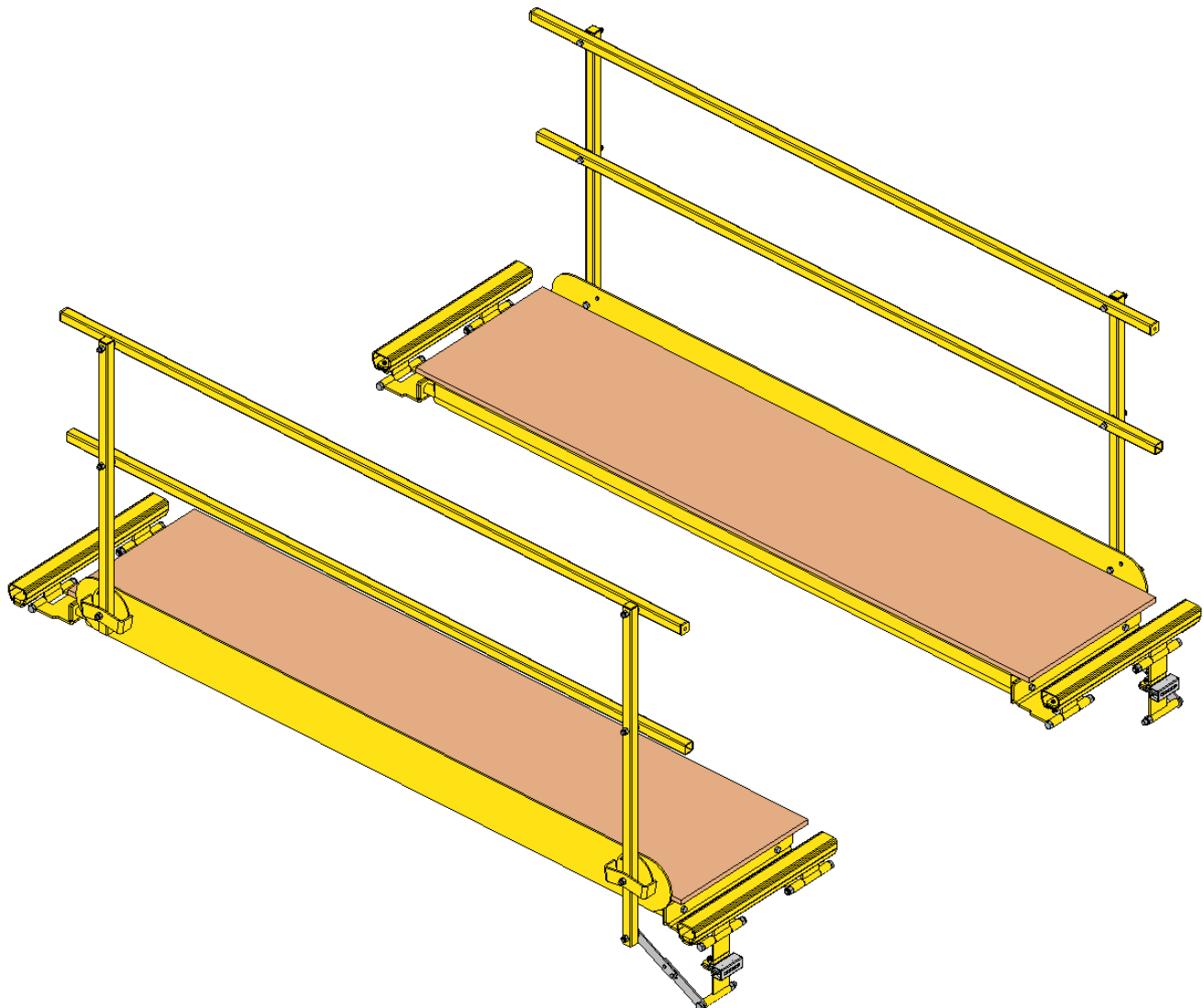


Product Description

- A crosswalk to allow access between work platforms. The guardrail pivots when there is varied height between work platforms, as they are raised and lowered. This helps to avoid collisions with any guardrail or items on the interior of the work platform.

Product Features

- Inside Treatment Options: Corner-Fillin, Gap Fillin, Inner Guardrail



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Cantilever Crosswalk



Product Description

- A cantilever crosswalk can be used on a single platform to allow access around the front or back of a slide out. When used in a set of platforms, they allow the passage of a hoist chain between them while still providing personnel access to both platforms.

Product Features

- UHMW on sliding surfaces to provide smooth operation
- Safety guardrails



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Traveling Guardrail

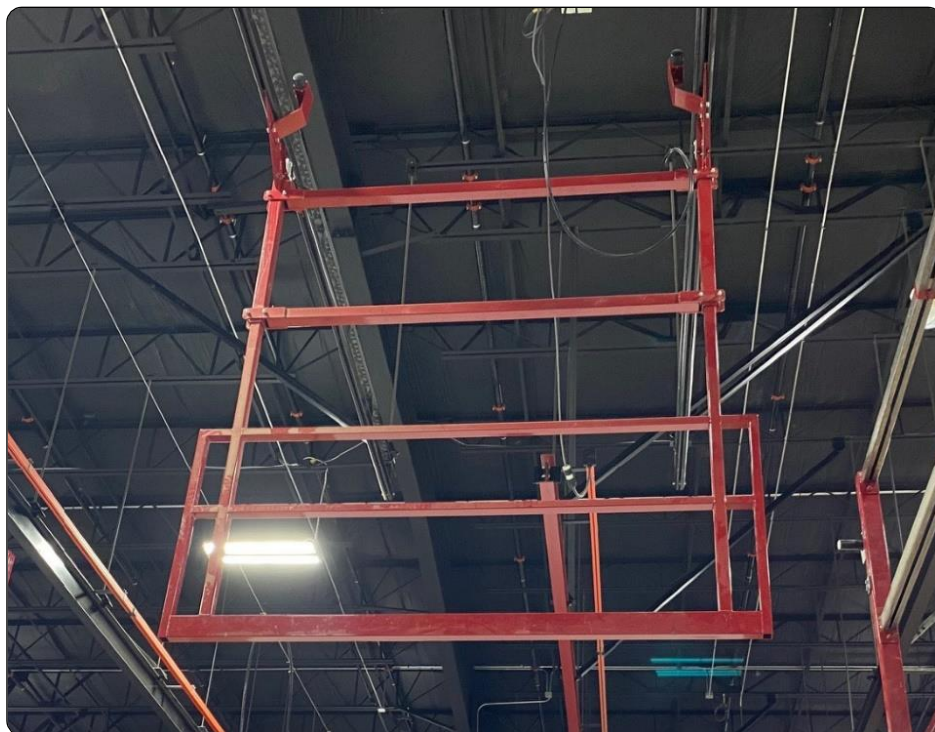


Product Description

- Traveling guardrail is used to protect personnel working on the roof of a unit.
- Using 300 series track, the guardrail system is installed in a custom runway system for limitless travel through a workspace.

Product Features

- End truck wheels include ball bearings and acetal plastic treads
- Adjustable height and position
- Pneumatic brake activated with remote



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Smart Solutions Index



Cranes

Mezzanine

Fall Protection

Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions

- Frame Rotation
- Storage Racks
- Rolling Work Bench
- Weld Curtain
- Skids
- Dolleys
- Paint Colors

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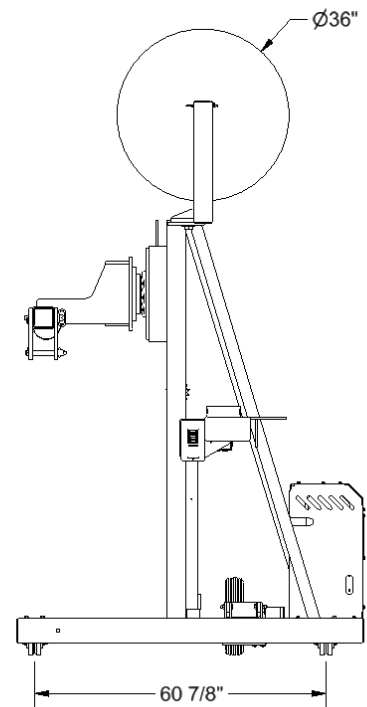
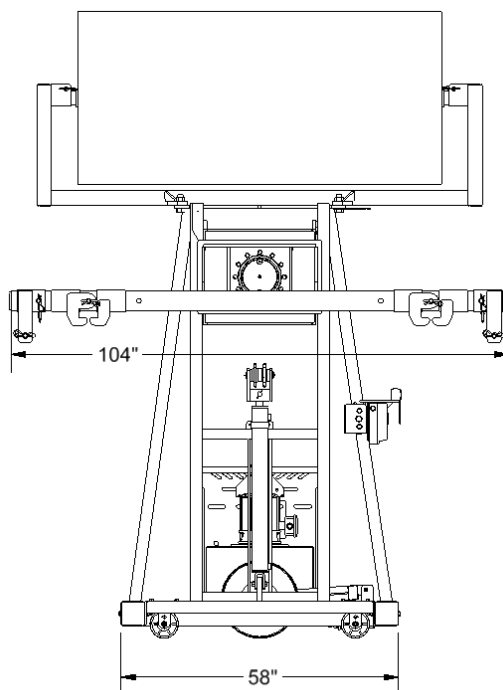
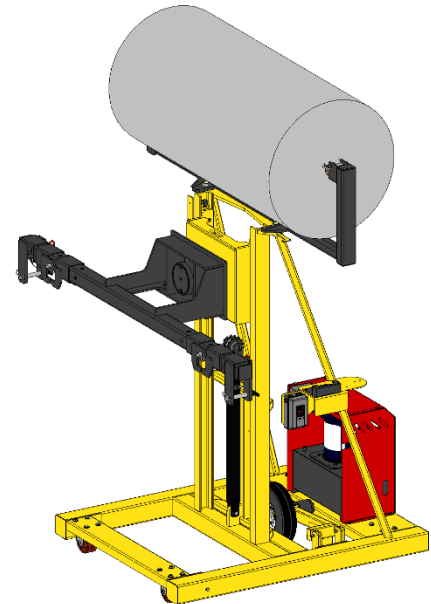
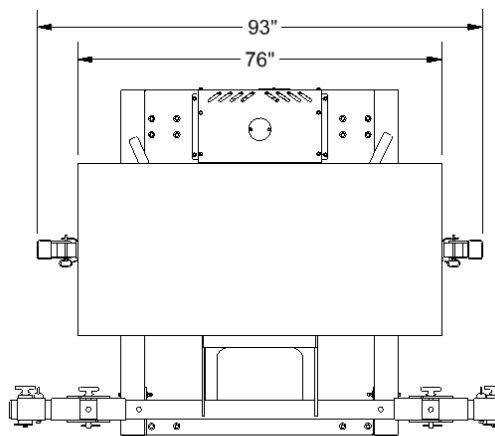
FREE QUOTE

Torque - Frame Rotator



Product Description

- Model Number: 4K72R
- Power Supply: 480V 3Phase
- Fully hydraulic system
- Functions:
 - Lift/Lower: 4,000 lbs.
 - Rotate: 2,000 lbs.
 - Unit Travel



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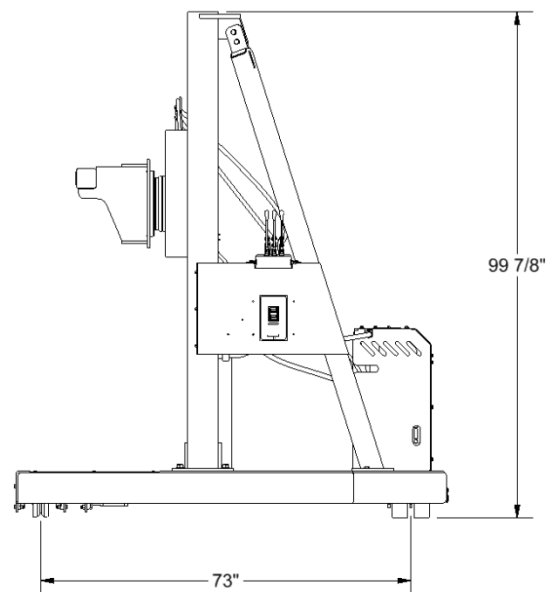
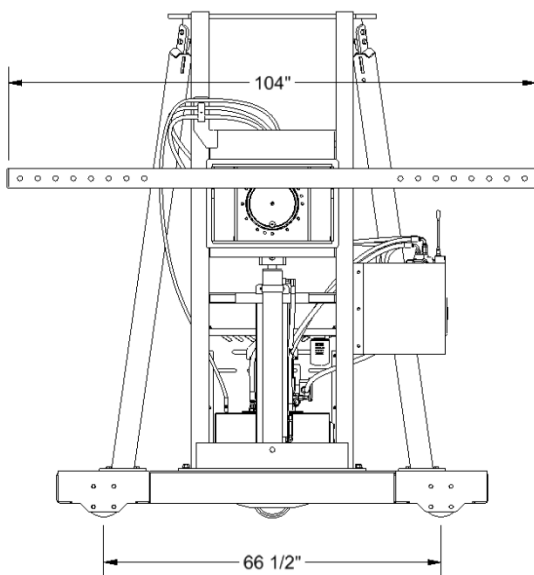
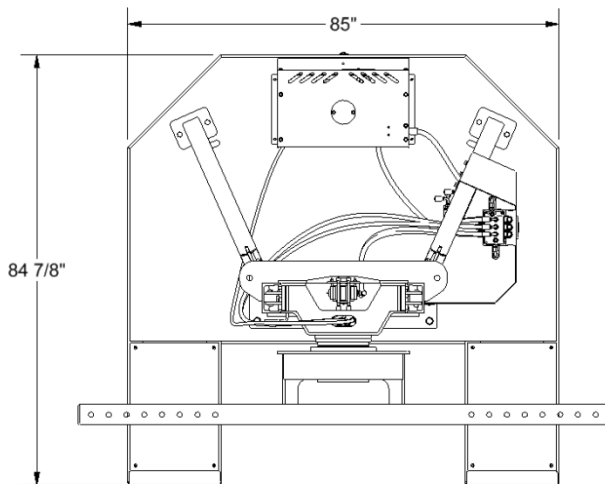


Torque - Frame Rotator



Product Description

- Model Number: 6K72R
- Power Supply: 480V 3Phase
- Fully hydraulic system
- Functions:
 - Lift/Lower: 6,000 lbs.
 - Rotate: 4,000 lbs.
 - Unit Travel
- Concrete filled base for counterweight stability



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Material Roll Storage Dispenser

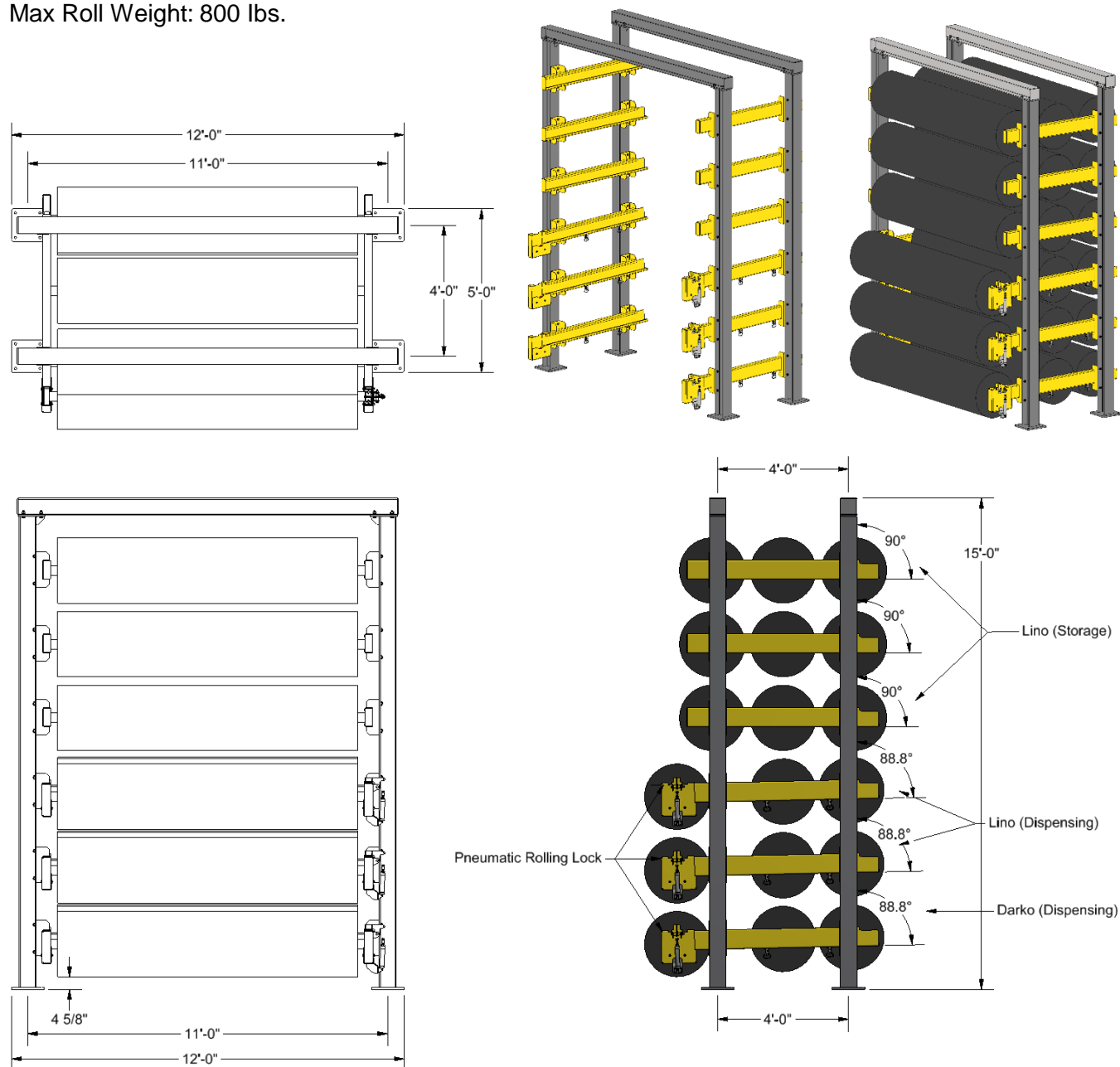


Product Description

- Designed for vertical storage of material rolls in a compact space. A forklift can be used to load rolls. When a roll is used up, the user can remove the core of the roll and the next full roll will roll into the dispense-ready position and the user can get back to work.

Product Features

- Rated Capacity: 18 Rolls
- Max Roll Weight: 800 lbs.



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Rolling Work Bench

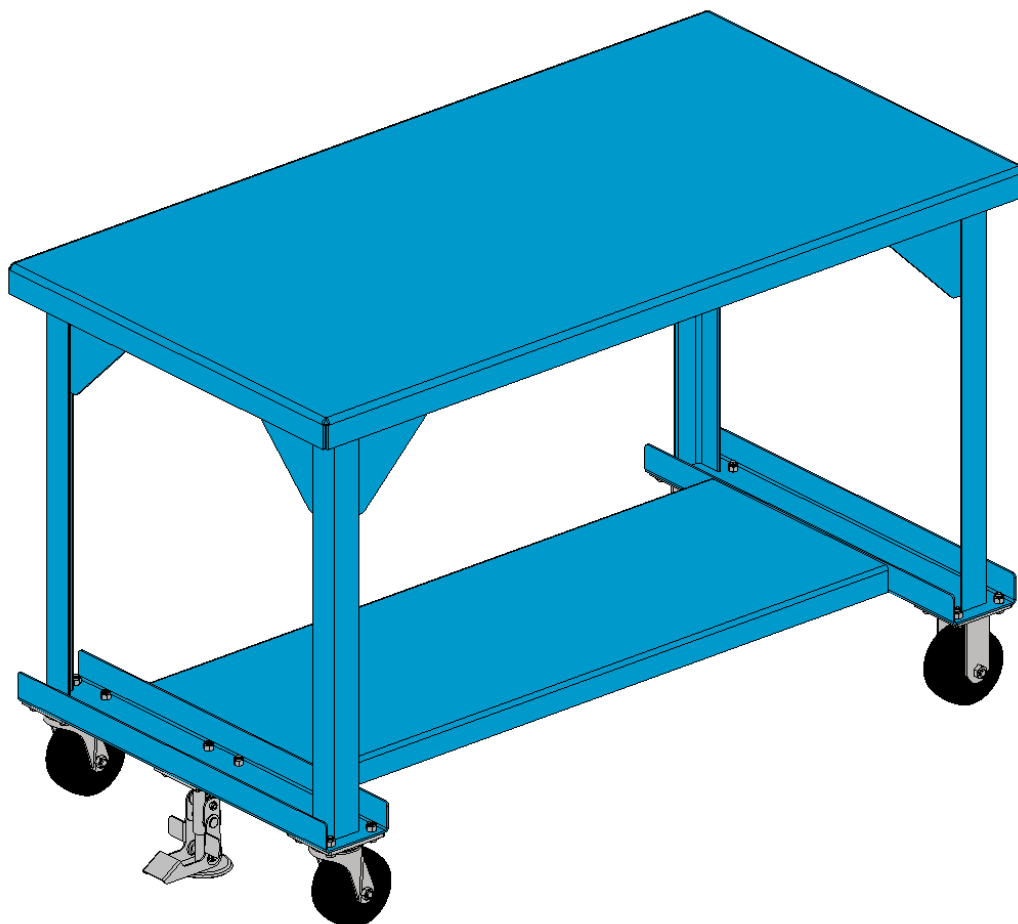


Product Description

A heavy-duty table on casters. This gives you a mobile, sturdy storage table workspace, which can be made stationary via the included floor lock.

Product Features

- 30"W X 56-1/2"L X 36"H
- Lower storage shelf
- Swivel and rigid castors (steel or plastic)
- Floor lock
- Capacity: 500 lbs.



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Weld Curtain Enclosure



Product Description

- Modular and fully customizable, the PWI weld curtain enclosures are designed for full flexibility in containing weld smoke in your workspace.

Product Features

- Bolt assembly
- Does not include curtain material



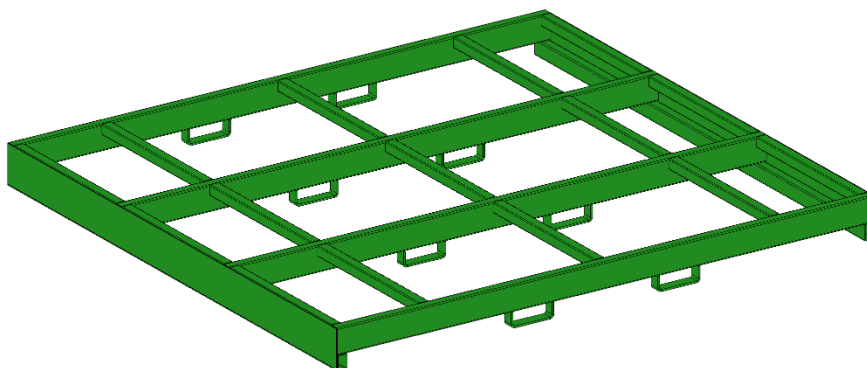
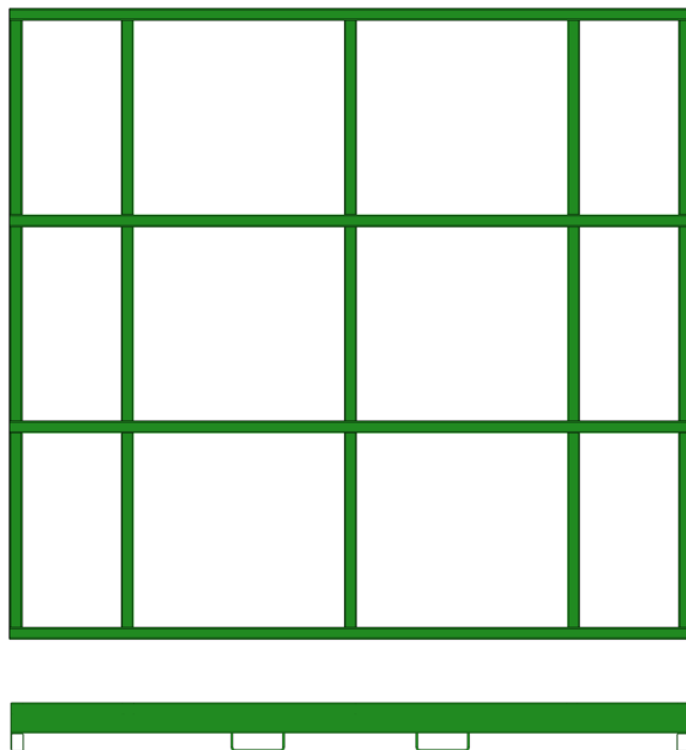
Product specifications and dimensions are approximate and for informational purposes only. Variations may occur due to design or manufacturing adjustments. For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.



Fiberglass Transport Skids



- Size: 102" x 110"
- Max Weight:



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Fiberglass Transport Skids



- Size: 102" x 40ft.
- Max Weight:

Cranes

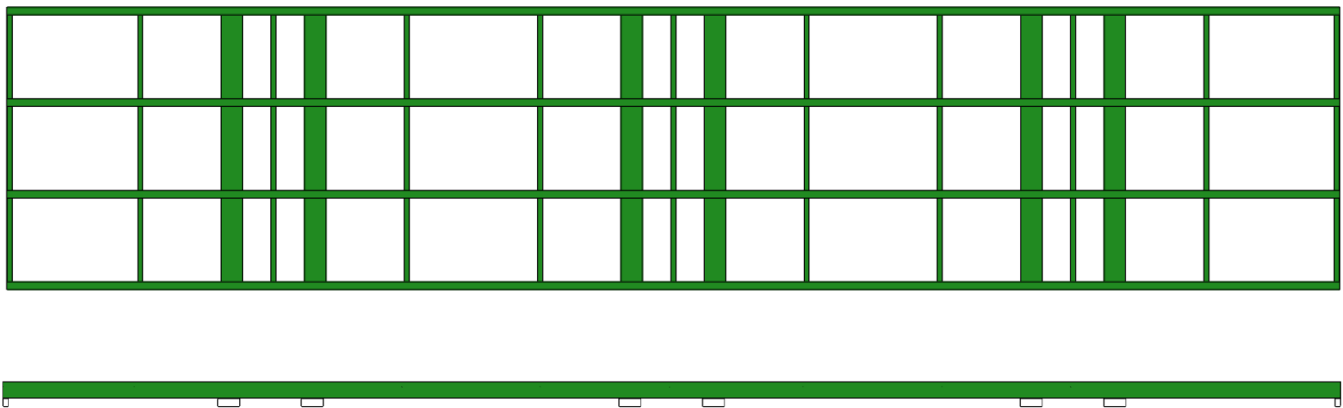
Cranes

Mezzanine

Mezzanine

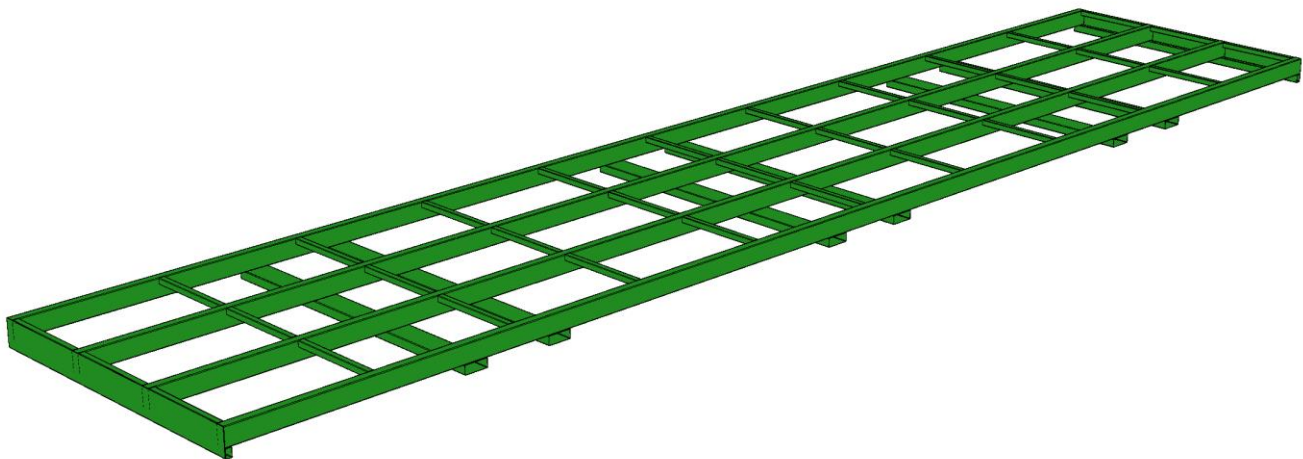
Fall Protection

Fall Protection



Smart Solutions

Smart Solutions



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Motorized Towable Tandem Axle Dolly With Track

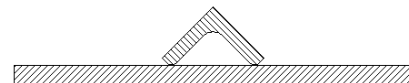
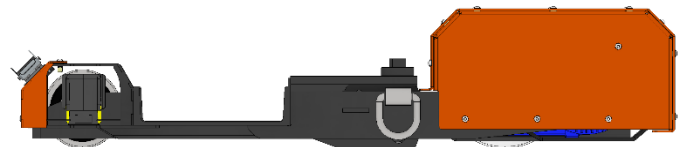
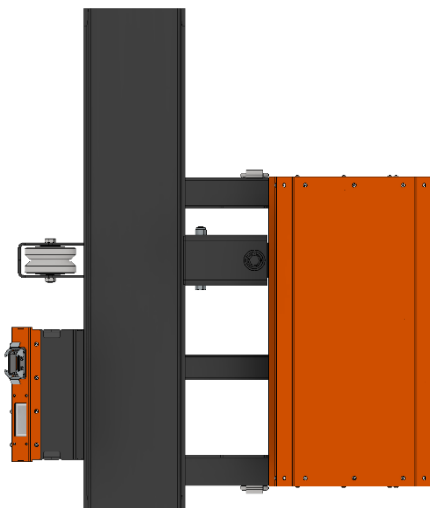
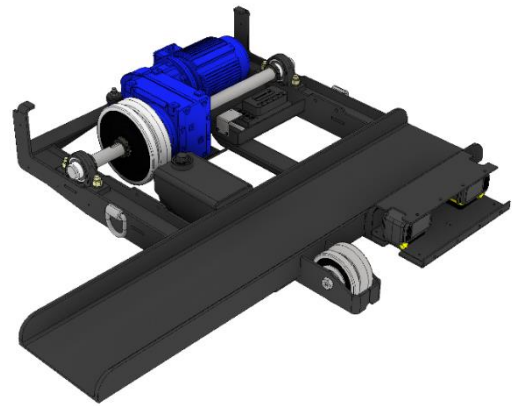
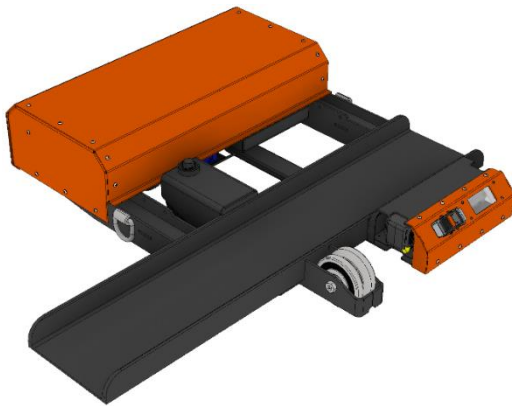


Product Description

- Motorized RV Production Line Dolly

Product Features

- Pendant Controlled
- DC Powered: (2) DeWALT Flex Volt Batteries
- Variable Speed Control
- Safety horn and strobe light during operation
- Capacity: 3.5 Ton
- Angle Iron Floor Track
- V Groove Wheels



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Motorized Towable Tandem Axle Dolly Without Track



Product Description

- Motorized RV Production Line Dolly

Product Features

- Pendant Controlled
- DC Powered: (2) DeWALT Flex Volt Batteries
- Variable Speed Control
- Safety horn and strobe light during operation
- Urethane Wheels



Cranes

Cranes

Mezzanine

Mezzanine

Fall Protection

Fall Protection

Smart Solutions

Smart Solutions

Product specifications and dimensions are approximate and for informational purposes only. Variations may occur due to design or manufacturing adjustments. For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.



Motorized Towable Tandem Axle Dolly



Cranes

Mezzanine

Fall Protection

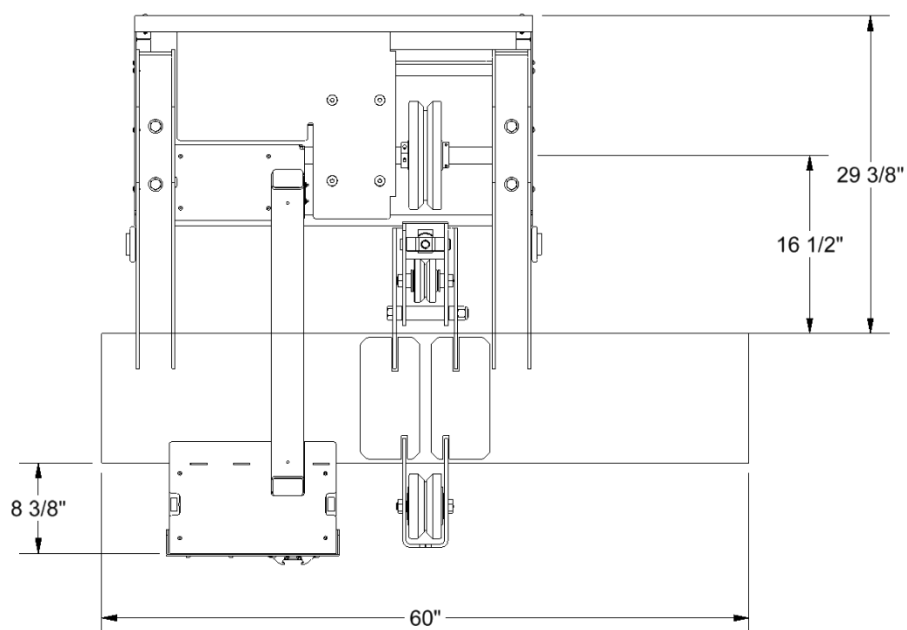
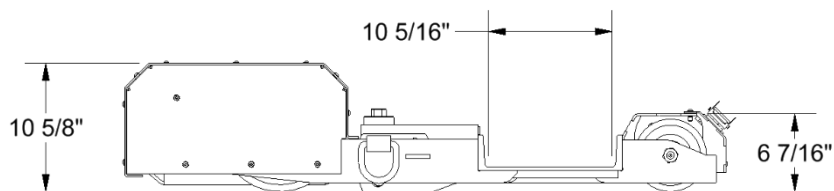
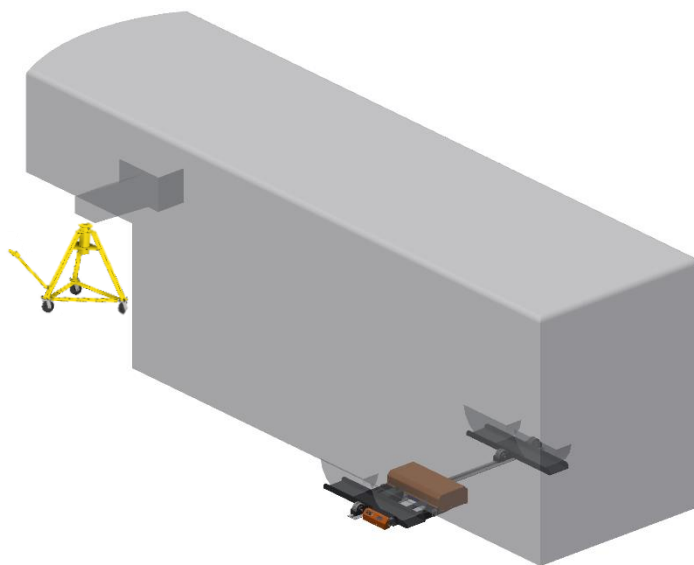
Smart Solutions

Cranes

Mezzanine

Fall Protection

Smart Solutions



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Motorized Towable Tri-axle Dolly with Track

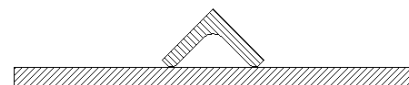


Product Description

- Motorized RV Production Line Dolly

Product Features

- Pendant Controlled
- DC Powered: (2) DeWALT Flex Volt Batteries
- Variable Speed Control
- Safety horn and strobe light during operation
- Capacity: 7 Ton
- Urethane Wheels
- V Groove Wheels



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Motorized Towable Tri-axle Dolly without Track



Product Description

- Motorized RV Production Line Dolly

Product Features

- Pendant Controlled
- DC Powered: (2) DeWALT Flex Volt Batteries
- Variable Speed Control
- Safety horn and strobe light during operation
- Capacity: 5 Ton
- Urethane Wheels



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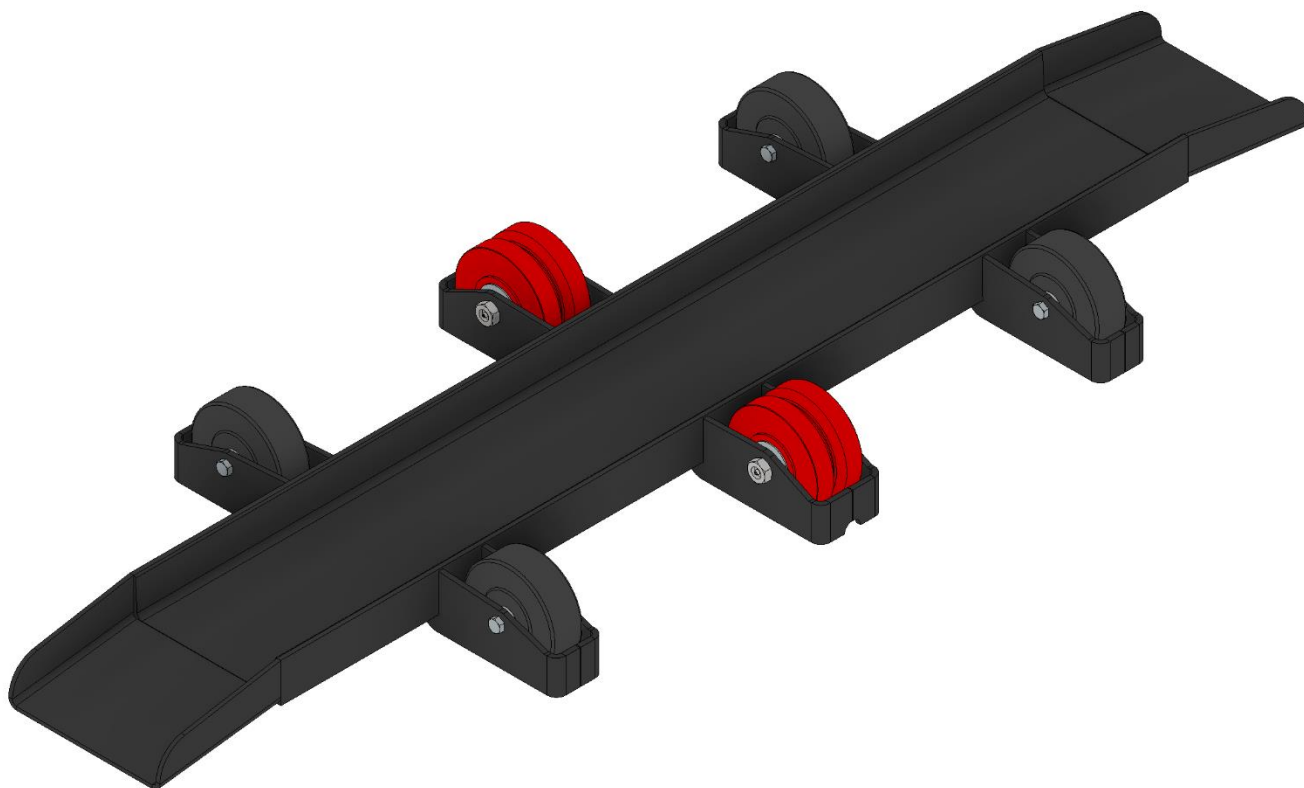


Manual Towable Tandem Axle Dolly



Product Features

- Manual operation
- Angle iron floor track
- V groove wheels



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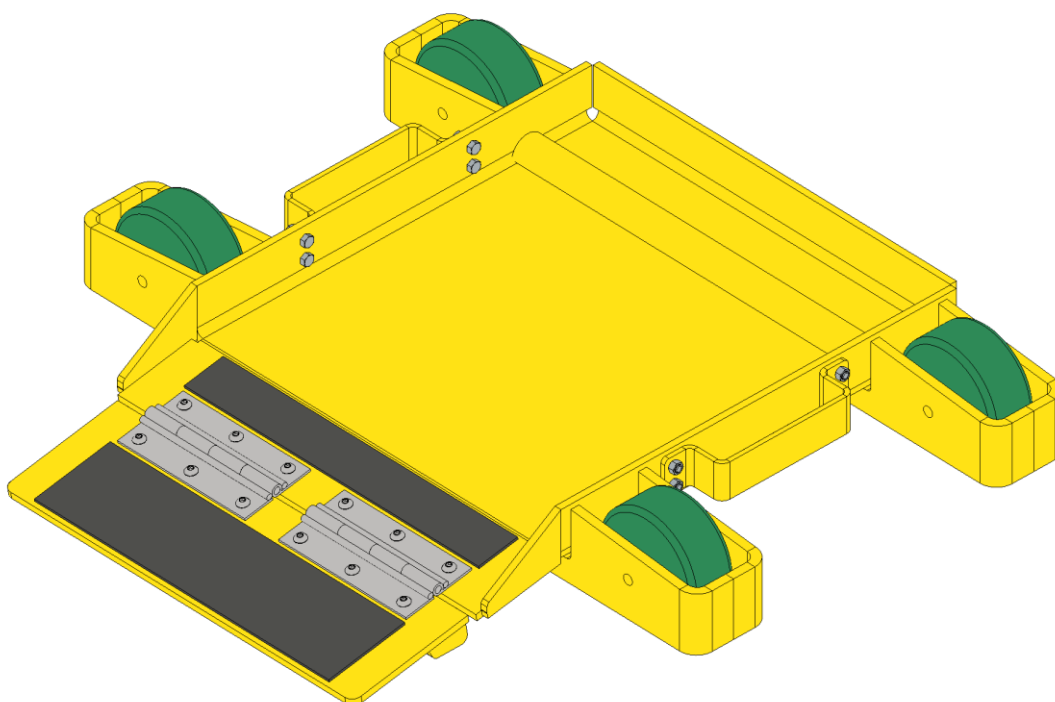


Manual Dual Wheel Dolly



Product Features

- Manual operation
- Configurable for different units
- Optional floor lock
- Caster Types
 - Cast iron V-Groove casters for floor track
 - Plastic wheel casters for free movement



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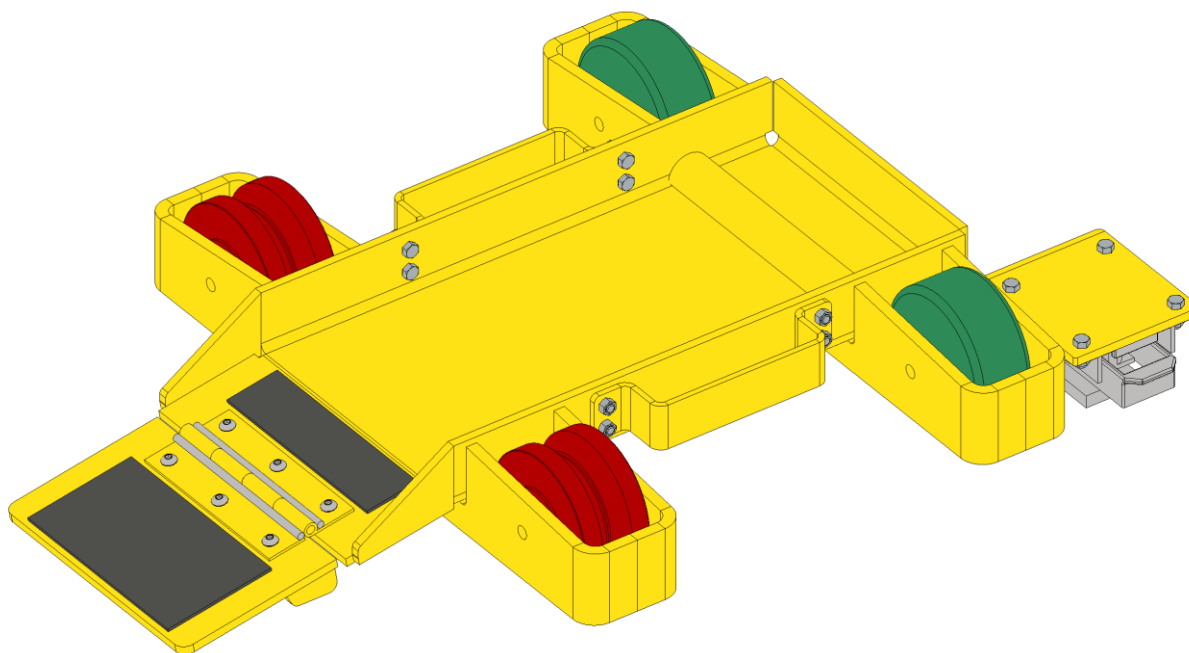


Manual Single Wheel Dolly



Product Features

- Manual operation
- Configurable for different units
- Optional floor lock
- Caster Types
 - Cast iron V-Groove casters for floor track
 - Plastic wheel casters for free movement



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Front Fifth Wheel Dolly



Product Features

- Capacity: 3,600 lbs.
- Three wheeled design for stability
- Tow handle for ease of use



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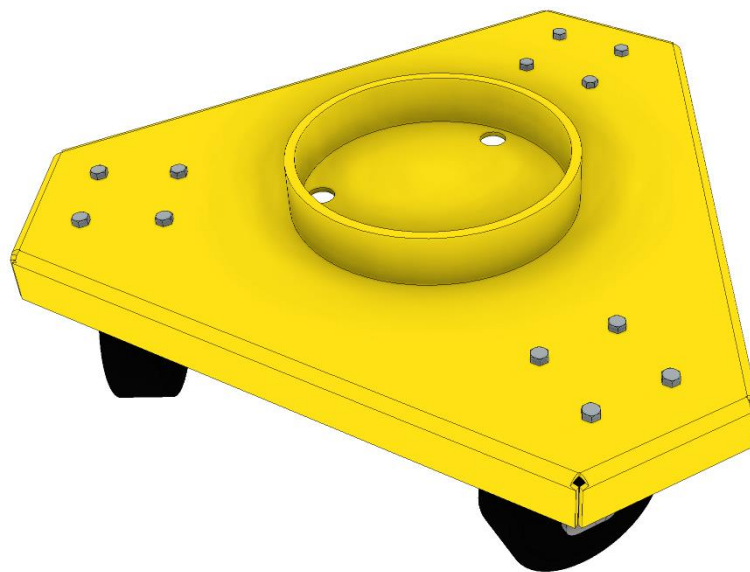


Front Fifth Wheel Jack Dolly



Product Features

- Capacity: 3,600 lbs.
- Three wheeled design for stability
- Compatible: fifth wheel front jacks



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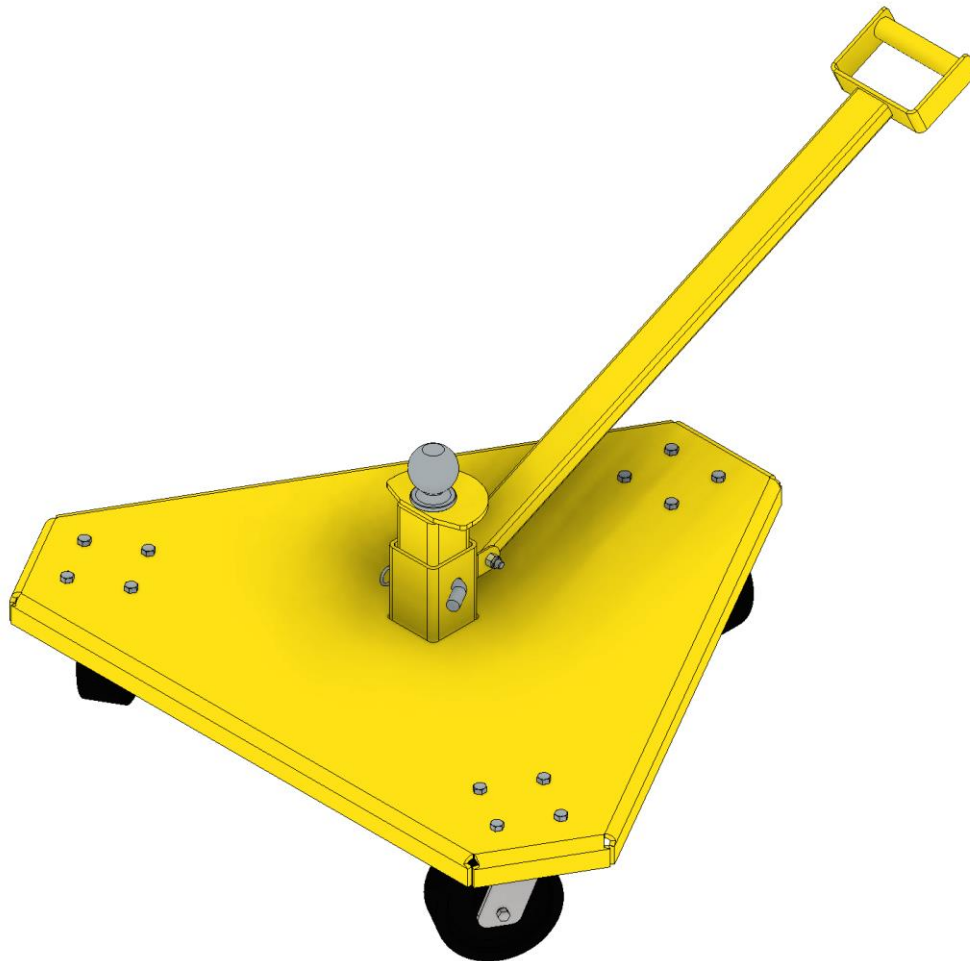


Front Travel Trailer Dolly



Product Features

- Capacity: 3,600 lbs.
- Three wheeled design for stability
- Tow handle for ease of use



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Floor Track

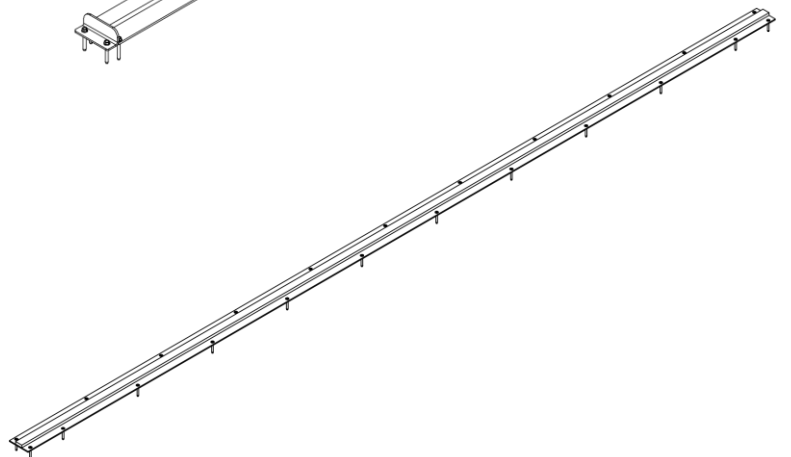
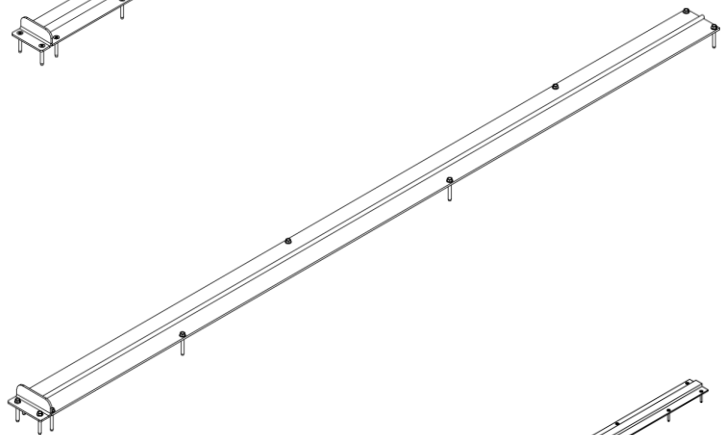
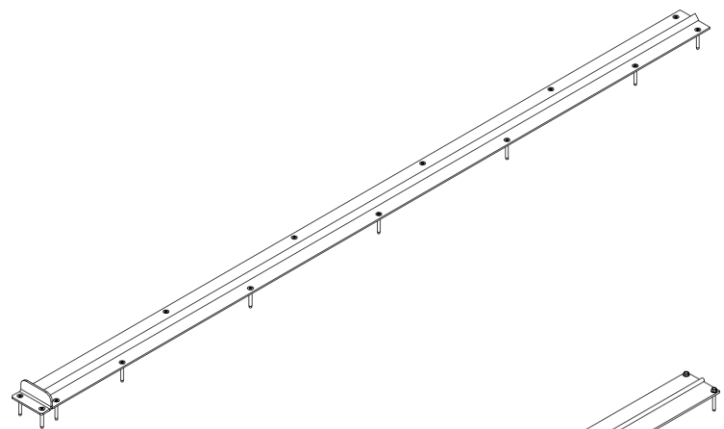
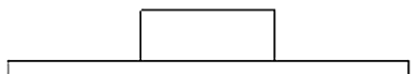
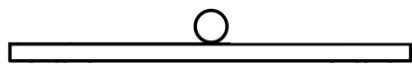


Product Description

- Floor track is useful for a variety of applications. For guides for gates, gantry cranes, rotators, or dolleys. It is important to choose the correct track based on the application.

Product Features

- Style: Rod, Angle Iron, Bar
- Floor Types: Wood or Concrete
- End Stops and splices to accommodate any length



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Paint Colors



Cranes

Mezzanine

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When identifying these colors on drawings, quotes, or any other medium please use exactly what is in **bold** as your paint color description (no more and no less). Level 1 and 2 colors should be pushed to customers as our PWI standard paint colors. All Level 3 and 4 colors will have surcharges associated with them.

Level 1 Colors: The (5) Level 1 colors we stock a lot of you should not have to notify Ken when a job requires these colors. None of these colors have RAL numbers associated with them.

1. **Safety Yellow** - [PWI Custom Color] - (Sherwin-Williams has a match for this)
2. **Paint Gray** - [PWI Custom Color] - (Sherwin-Williams has a match for this)
3. **Prime Gray** - [PWI Custom Color]
4. **Semi Gloss Black**
5. **Epoxy Black**

Level 2 Colors: The (6) Level 2 colors we stock a decent amount of. If your job requires more than 3 booth runs of these colors, please notify Ken. Otherwise, stock levels should be enough to cover your project. All these colors have RAL numbers except PWI Prime Red.

1. **White RAL 9003** [PWI Standard White Color]
2. **Red RAL 3001** [PWI Standard Red Color]
3. **Blue RAL 5010** [PWI Standard Blue Color]
4. **Orange RAL 2004** [PWI Standard Orange Color]
5. **Blue RAL 5005** [Starke Standard Blue Color]
6. **PWI Prime Red** [No RAL number associated with this color]

Level 3 Colors: The (5) Level 3 colors we stock a small amount of. If your job requires more than 2 booth runs of these colors, please notify Ken. Otherwise, stock levels should be enough to cover your project. These colors are often specific to a certain PWI customer.

1. **Red RAL 3003** (Brinkley)
2. **Orange RAL 2008** (Intech)
3. **Blue RAL 5017** (Southwire)
4. **Orange RAL 2009** (Southwire)
5. **White FED-17925** (SpaceX)

Level 4 Colors: Level 4 colors are colors that we might have in stock sometimes but there is no guarantee and no plan to restock in the future. If your job requires these colors, Ken must be notified upon the sale of this project. You will need to reach out to Ken to obtain these RAL numbers before you send any drawings to production. For the options below, this info would not be adequate for Ken to order the correct paint. He needs RAL numbers.

1. Jayco Green
2. Alliance Blue
3. All other miscellaneous colors...



Navigating the Catalog



To the main menu

Standard Work Platform



Product Description

The ultimate solution for safe and efficient access to rooftops and sidewalls of RVs, trailers, or mobile homes. Easily adjust the height of the work platform to provide optimal reach for any job.

Product Features

- Dual electric chain hoists
- Safety load arrestor system
- Up/down limits
- Safety guardrails
- Crosswalks
- Custom configurations: platform width, length, distance between platforms
- Capacity ratings
- Wireless controls
- Safety options include: beacons, buzzers, time delays
- Additional options include: underplatform LED lighting, electrical receptacles on platforms, Air Fittings

Cranes

Cranes

Mezzanine

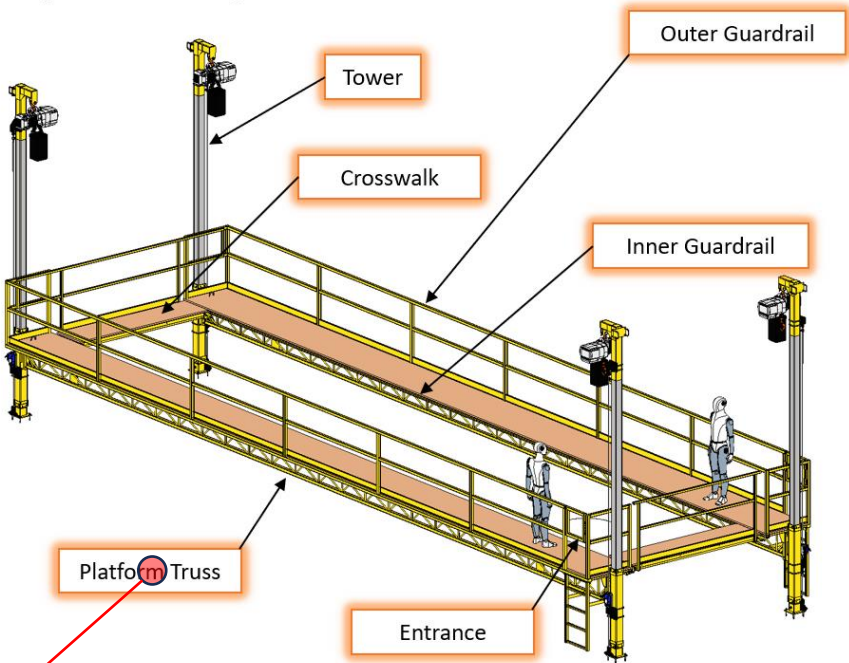
Mezzanine

Fall Protection

Fall Protection

Misc.

Misc.



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P: (574) 646-2015

Revised: 12/5/2024

244



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To the first slide of that product page

To the Index menu of that category

To the Main Menu

