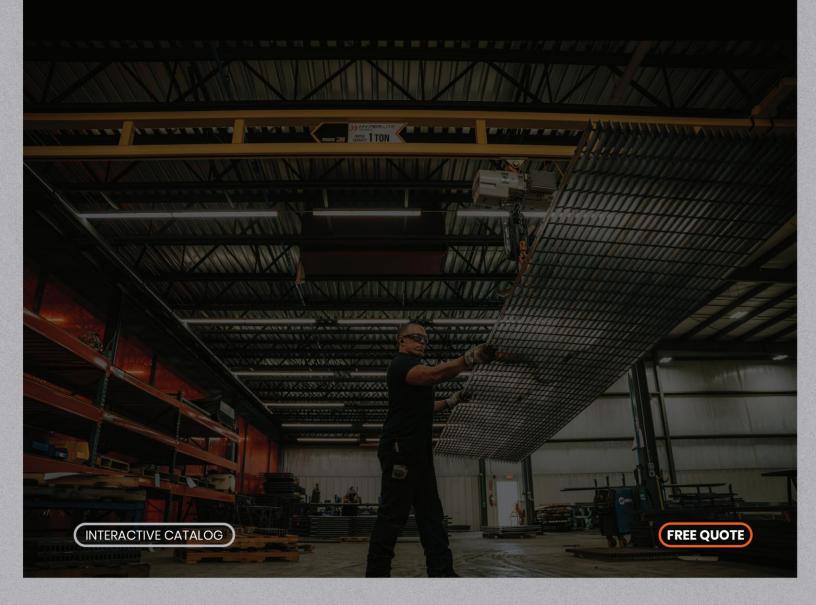


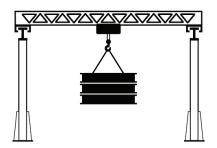
PRODUCT CATALOG

A COMPREHENSIVE LIST



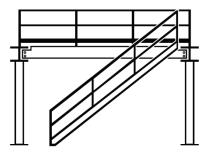


PRODUCT CATEGORIES



OVERHEAD CRANES

Get more done with less effort.



MEZZANINES

Manufacturing space for a fraction of new construction.



Work safely and meet compliance.

Revised: 9/15/2025



SMART SOLUTIONS

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

CONQUER YOUR SPACE

Interactive Catalog Click to Learn More...





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.



Who We Are



PWI Mission Statement

TO EMPOWER MANUFACTURERS WITH INNOVATIVE MATERIAL HANDLING SOLUTIONS, GIVING THEM FULL CONTROL OF EFFICIENCY AND SAFETY IN THEIR WORKSPACE.

PWI Core Values

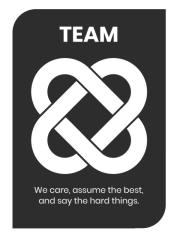




















PWI Product Divisions





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.



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.



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

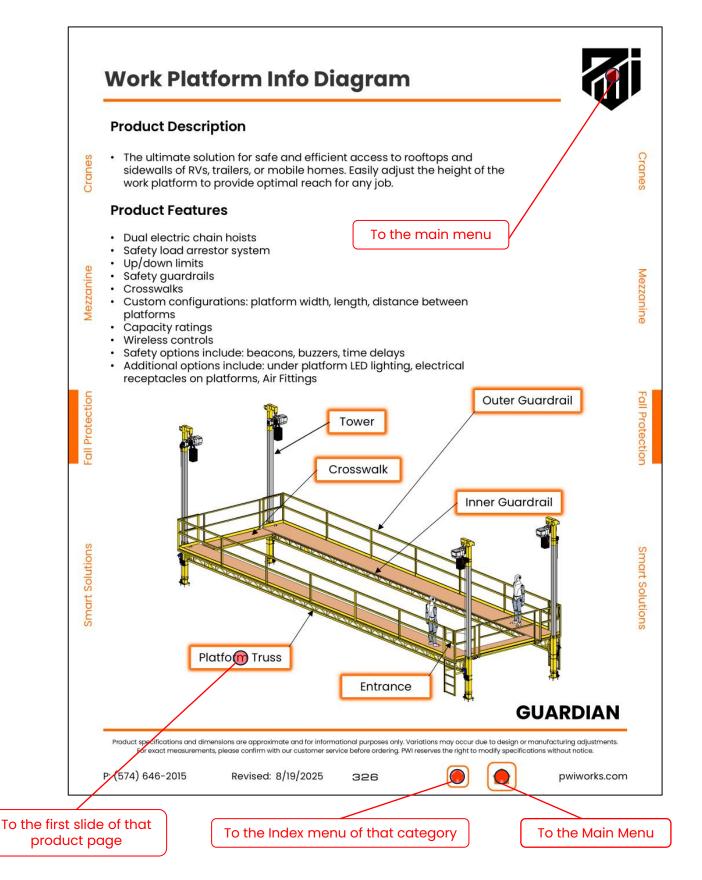


FREE QUOTE

P: (574) 646-2015

Navigating The Catalog







P: (574) 646-2015

6

Cranes Index



- Crane Info Diagram
- Jib Cranes
- Gantry Cranes
- Monorail Cranes
- Garage Series Shop Crane
- <u>Ultralite Series Manual Cranes</u>
- Hyperlite Series Manual Cranes
- <u>Top Runner Motorized Cranes</u>
- Top Running Motorized Cranes
- <u>Under Running Motorized Cranes</u>
- Interlocks
- Custom Crane Solutions
- End Trucks
- Panels & Controls
- Crane Accessories
- End Stops
- Columns & Footings
- BTH

FREE QUOTE

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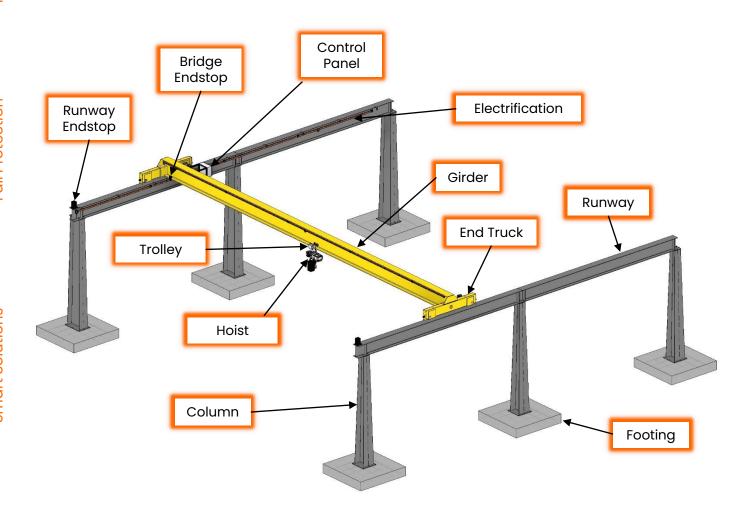
Crane Info Diagram

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









Wall/Column Mounted

Wall/Column Cantilever



Free Standing Foundationless

Workstation



Free Standing with Foundation

Free Standing Base Plate



Wall/Column Tie Rod

Floor Mast Cantilever















Wall Mounted Cantilever Jib Crane

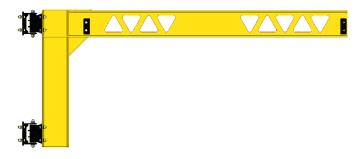


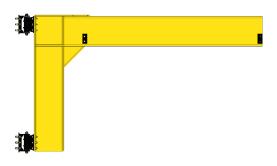
Product Description

- Jib crane with 180° rotation
- Product Code: JBWMC
- Interactive 3D Viewer

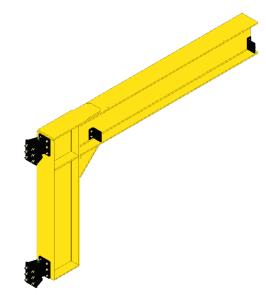
Product Features

- 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





Column Mounted Cantilever Jib Crane

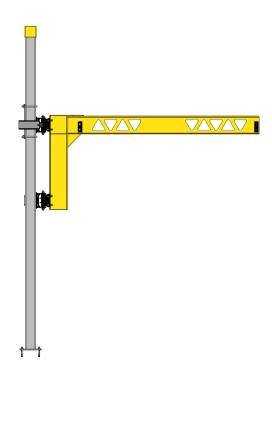


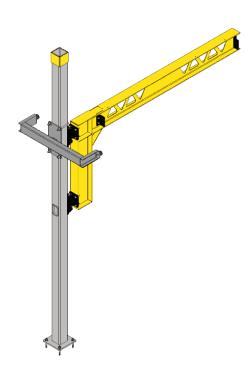
Product Description

- 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





Floor Mast Cantilever Jib Crane



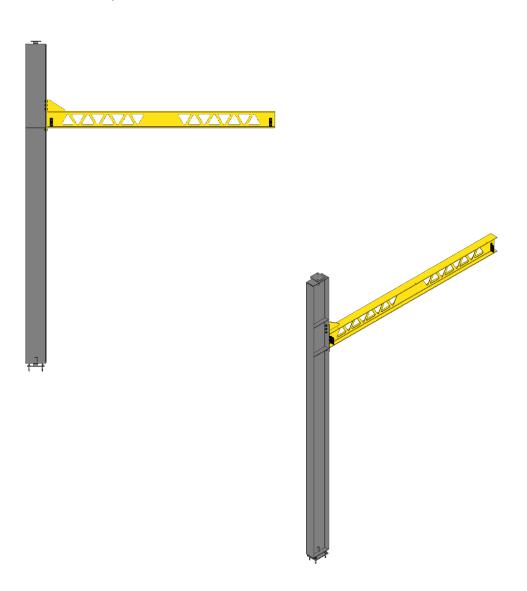
Product Description

- 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

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Wall Mounted Tie Rod Jib Crane

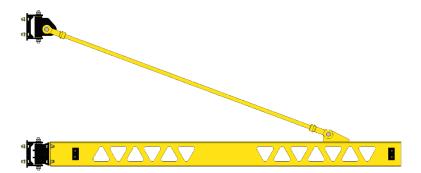


Product Description

- 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





Column Mounted Tie Rod Jib Crane

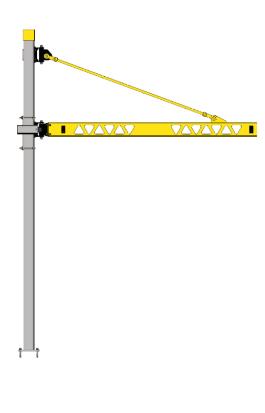


Product Description

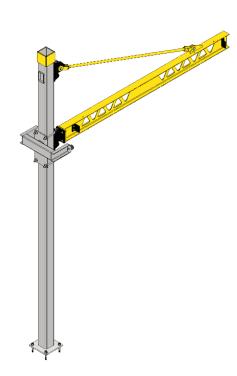
- Jib crane with 180° rotation
- Product Code: JBCTR

Product Features

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



Revised: 9/15/2025



ULTRALITE





Workstation Cantilever Jib Crane



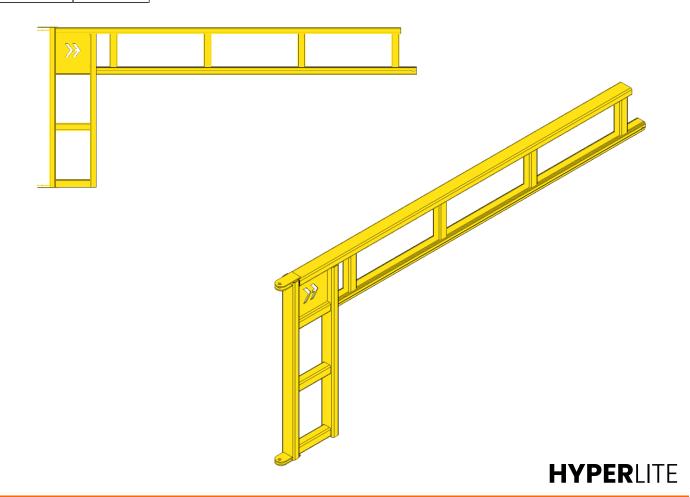
Product Description

- 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'







HyperLite Foundationless Jib Crane



Product Description

- Jib crane with 360° rotation
- Enclosed track design with improved ergonomics
- · Foundationless design

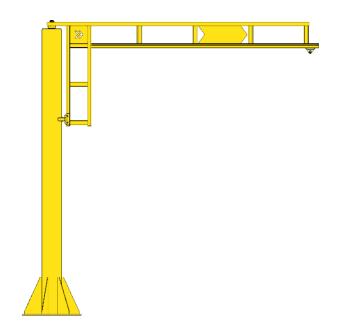


Product Features

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

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

Capacit	У	Span	Continuous Slab
050		8' - 9'	6' x 6'
250		9' - 16'	8' x 8'
500 lbs.	8' - 9'	7' x 7'	
	lbs.	9' - 14'	8' x 8'
		14' - 16'	10' x 10'
1,000	8' - 9'	9' x 9'	
	9' - 14'	10' x 10'	



Revised: 9/15/2025

HYPERLITE





Freestanding Base Plate Jib Crane



Product Description

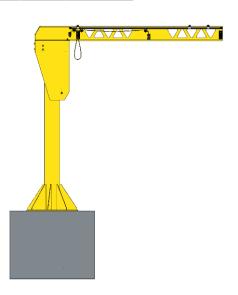
- Jib crane with 360° rotation
- · Design requires foundation

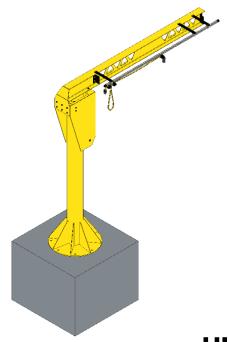
Product Features

- UltraLite Beam
- W-beam (trolley travel)
- Pipe column
- Pipe head weldment
- · This design requires one concrete pour
- Includes large diameter base plate with embedded anchor rods



Capacity		Span
500	lbs.	16' - 20'
1,000		14' - 20'
1		
2	tons	8' - 20'
3		





ULTRALITE





Freestanding Foundation Jib Crane



Product Description

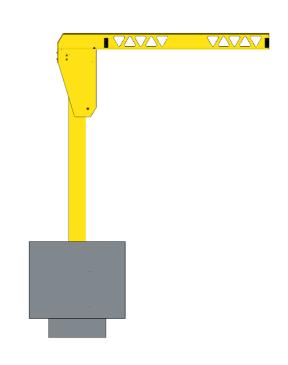
- Jib crane with 360° rotation
- · Design requires foundation

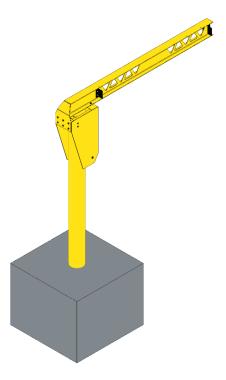
Product Features

- UltraLite Beam
- W-beam (trolley travel)
- · Pipe column
- Pipe head weldment
- This design requires two concrete pours

6 3	60°5	
	→	

Capacity		Span
500	lbs.	16' - 20'
1,000		14' - 20'
1	tons	
2		8' - 20'
3		





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18



Fall Protection

Manual Gantry Crane

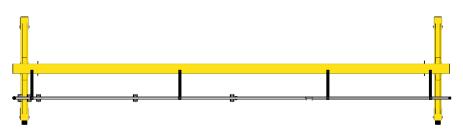


Product Description

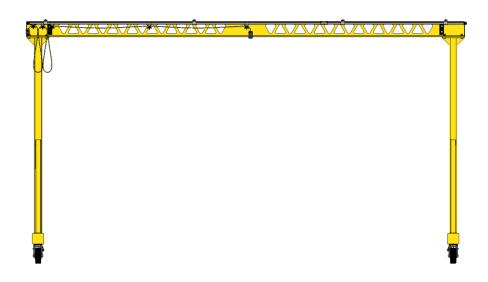
- Manual gantry cranes are built with heavy duty casters for
- The Ultralite series gantry offers an improved ergonomic experience, combining the strength of structural steel construction while reducing the weight of the crane.

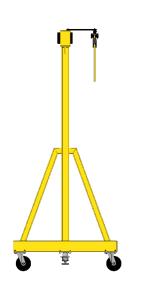


- Capacity: 500 lbs, 1,000 lbs, 1 Ton, 2 Ton, 3 Ton, 5 Ton
- Clear Span: 10'-30'
- Height Under Beam: 8'-18'
- **Caster Options:**
 - Poly
 - Poly on Iron
 - Steel
- Includes floor stop to limit caster motion









ULTRALITE





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

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20





Light Duty Motorized Gantry Crane

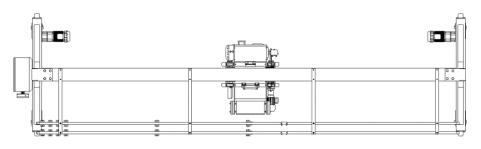


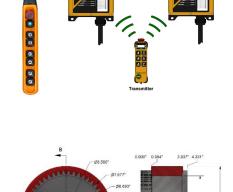
Product Description

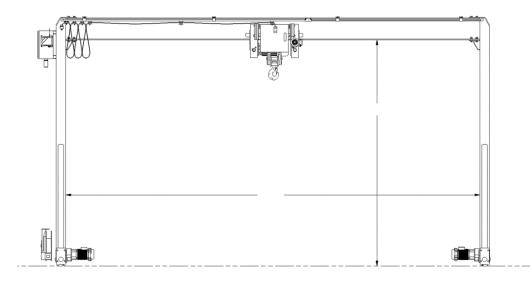
 Gantry crane equipped with motorized end trucks and floor track system to quickly and efficiently change workspace locations.

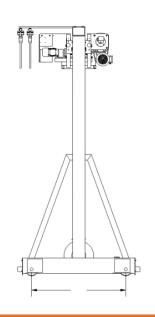
Product Features

- 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







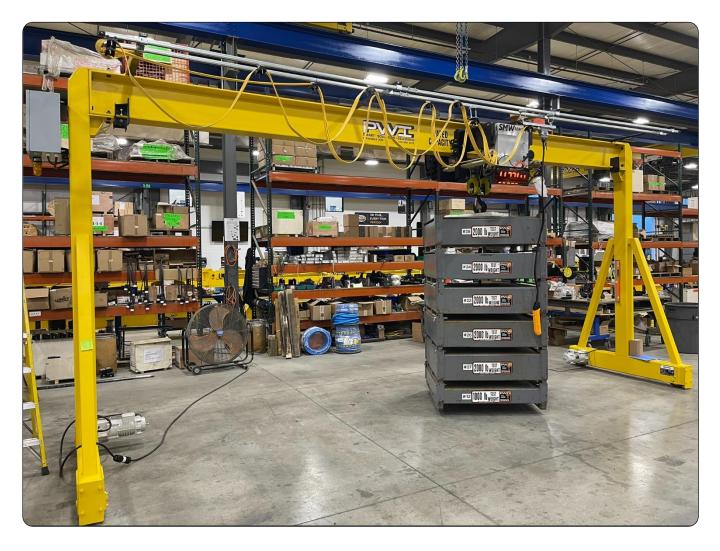






Light Duty Motorized Gantry Crane





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Heavy Duty Motorized Gantry Crane



Product Description

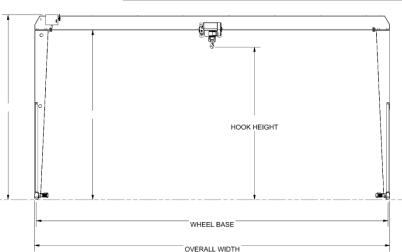
 Gantry crane equipped with motorized end trucks and floor track system to quickly and efficiently change workspace locations.

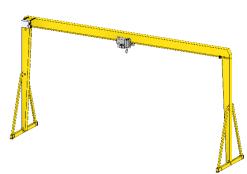
Product Features

- 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

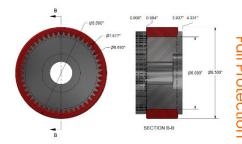
 Floor Compatibility: Poly on Concrete, Grooved Wheel on Floor Track

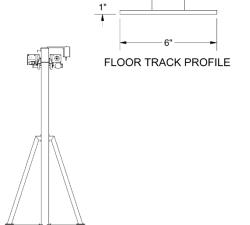
















Smart Solutions

Ceiling Mounted Curved Monorail

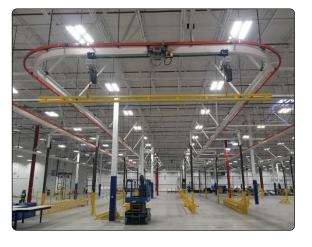


Product Description

- 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.

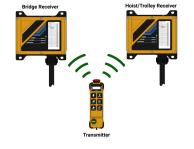
Product Features

- 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

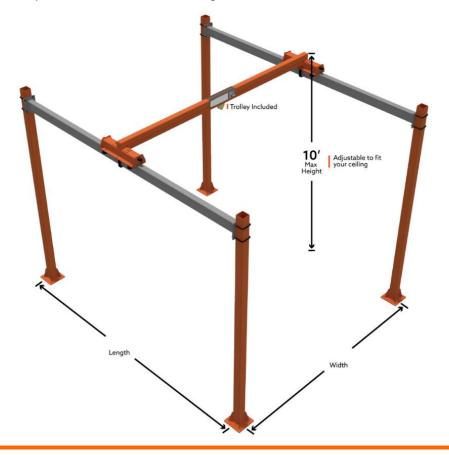


Product Description

- 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.



Revised: 9/15/2025

Choose Your Color:



AERO





Top Runner Freestanding Manual Bridge Crane



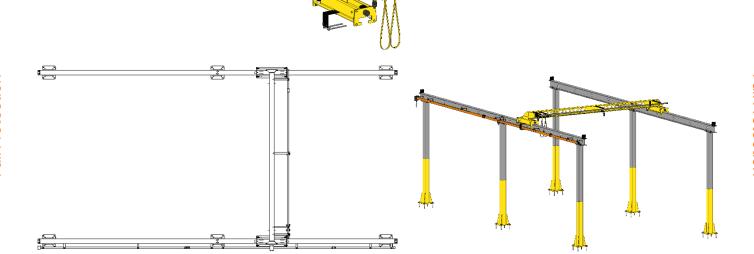
Product Description

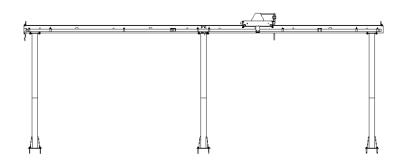
- Freestanding design offering maximum hook height and an efficient install.
- The Ultralite series bridge crane offers an improved ergonomic experience, combining the strength of structural steel construction while reducing the weight of the crane.

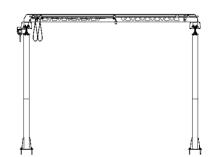
Product Features

Steel side guide rollers

- 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.







ULTRALITE





Top Runner Freestanding Manual Bridge Crane



Fall Protection

Smart Solutions





ULTRALITE

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Header Mounted Manual 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





Ceiling Mounted Manual Bridge Crane



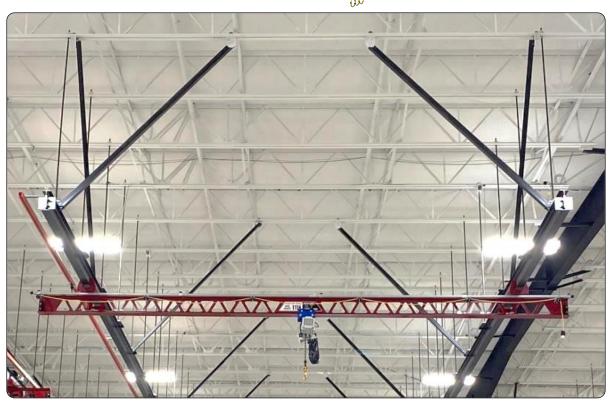
Product Description

- 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





Top Running Freestanding Manual Bridge Crane

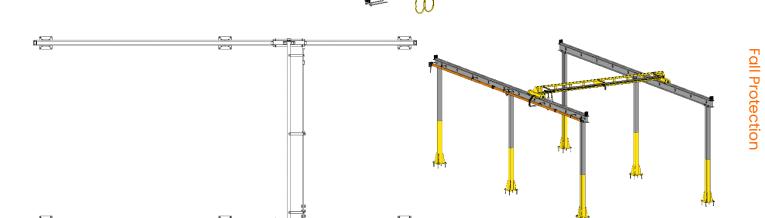


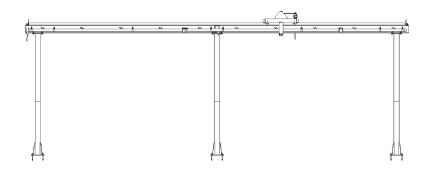
Product Description

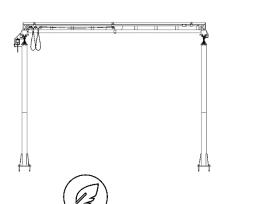
- Freestanding design offering maximum hook height and an efficient install.
- Built with an enclosed track bridge and added "guide tube" on the runway system, the Hyperlite series manual bridge crane system outperforms all others.
- The combination of these two features provides even greater performance 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







HYPERLIT



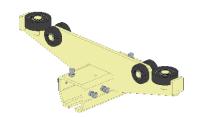


Ceiling Mounted Manual Bridge Crane



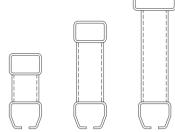
Product Description

- 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







HYPERLITE





Hyper Lite Series Trolley Options



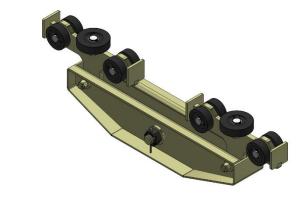
- S300-EMT-1000
 - 300 Series Enclosed Track
 - 1,000 lb. capacity



- \$400-EMT-2000
 - 400 Series Enclosed Track
 - · 2,000 lb. capacity



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





HYPERLITE

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Smart Solutions

Motorized Top Runner Freestanding Unbraced Crane System



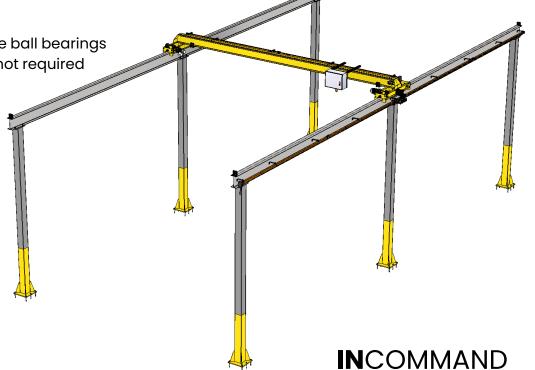
Product Description

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



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.



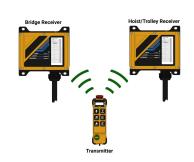


Motorized Top Runner Freestanding Braced Crane System



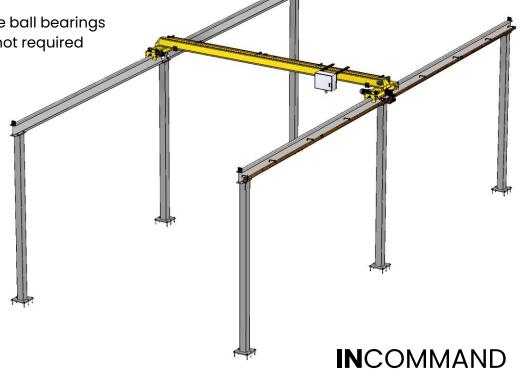
Product Description

 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 trucksEnd truck wheels include ball bearings
- Runway web stiffeners not required



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Motorized Top Running Single Girder Bridge Crane



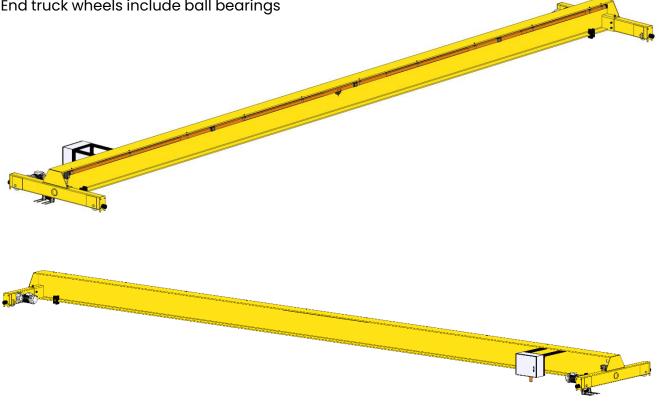
Product Description

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

INCOMMAND





Motorized Top Running Single Girder Bridge Crane With Riser Option

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.



INCOMMAND





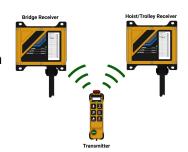
Smart Solutions

Motorized Top Running Triple Girder Bridge Crane



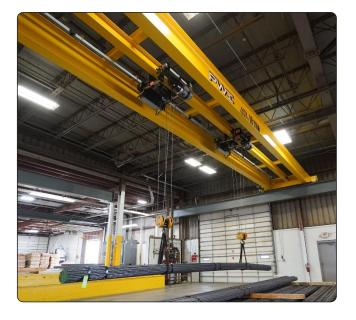
Product Description

 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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For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.

38



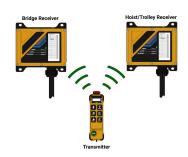


Motorized Top Running Double Girder Bridge Crane



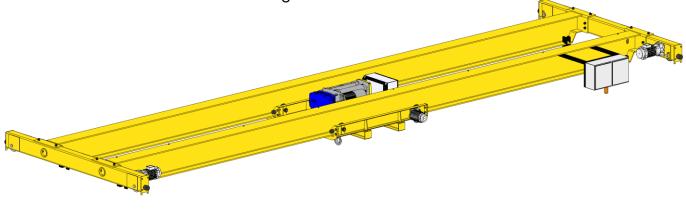
Product Description

 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



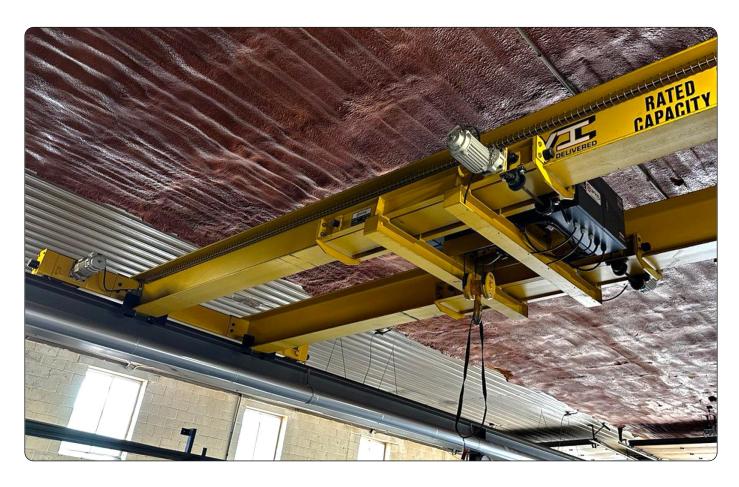






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Motorized Top Running Double Girder Bridge Crane

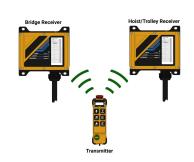


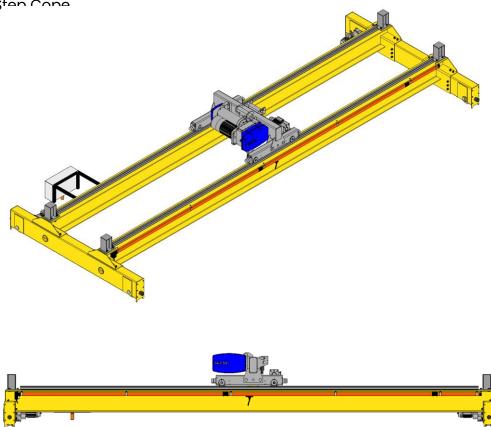
Product Description

- 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 Stan Cone





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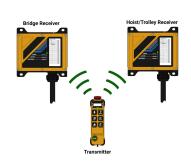


Motorized Top Running Mono Box Girder Bridge Crane



Product Description

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

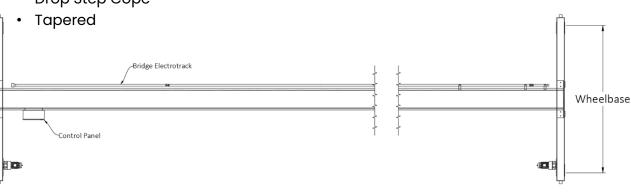


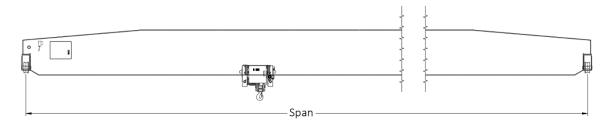
Product Features

- 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:



- **Partial Cope**
- Full Cope
- **Drop Cope**
- **Drop Step Cope**





Revised: 9/15/2025

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Motorized Top Running Double Box Girder Bridge Crane

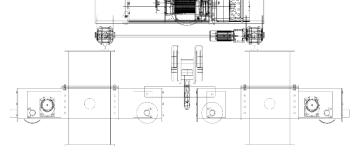


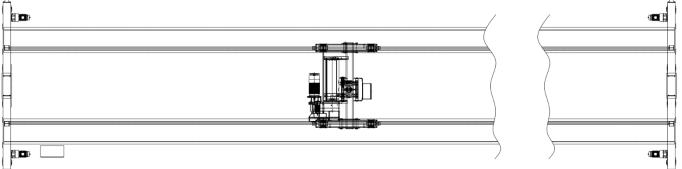
Product Description

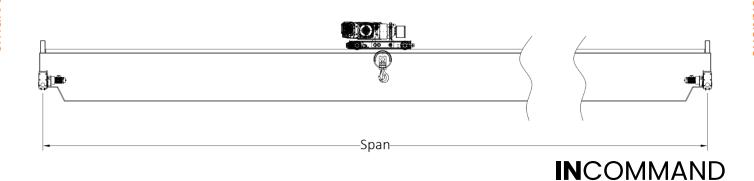
• Design that uses (2) monobox girders to meet the highest capacity and span requirements in the industry.

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











29

Top Running Bridge Crane Spec Sheet



	Company:		
Р	roject 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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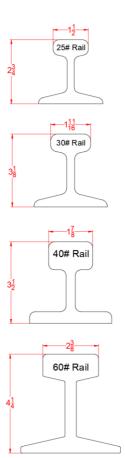






Top Running Crane Rail Specs

- 1. Rail Splices:
 - a. SPLICE JOINT BOLT ASSEMBLIES
 - b. 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.
 - c. 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.
 - d. 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.
 - e. 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.
 - f. 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.





Revised: 9/15/2025









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.

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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 crain 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: ±3/8" above or below an assumed reference elevation.
- 2. The maximum rate of elevation change: ¼" 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: ¼" in 20'-0"
- 5. Straightness of rail: ± 3/8" on either side of an assumed rail centerline
- 6. The maximum rate of change of rail straightness: ¼" in 20'-0"
- 7. Variation in crane span: $\pm \frac{1}{4}$ " difference relative to the nominal crane span

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8. The maximum rate of change of variation in crane span: $\frac{1}{4}$ " in 20'-0"

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CMAA 74 Table 1.4.1-1

ITEM	FIGURE	OVERALL TOLERANCE	MAXIMUM RATE OF CHANGE	
CRANE SPAN (L) MEASURED AT CRANE WHEEL ONTACT SURFACE	max.L=L+A	L \leq 50' A = $\frac{3}{16}$ " L \geq 50' \leq 100' A = $\frac{1}{4}$ " L \geq 100' A = $\frac{3}{16}$ "	¼" IN 20'-0"	
STRAIGHTNESS (B)	+B	B = 3/6"	¼" IN 20'-0"	
ELEVATION (C)	1 +c 1 -c	C = 3/8"	¼" IN 20′-0"	
TOP RUNNING TRANSVERSE RAIL TO RAIL ELEVATION (D) TRANSVERSE RDER TO GIRDER ELEVATION UNDER RUNNING (D)	SPAN L D D D D D D D D D D D D D D D D D D	L \leq 50' D = $\pm \frac{3}{16}$ " L $>$ 50 \leq 100' D = $\pm \frac{1}{4}$ " L $>$ 100' D = $\pm \frac{3}{16}$ "	N/A	

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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

Revised: 9/15/2025

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.

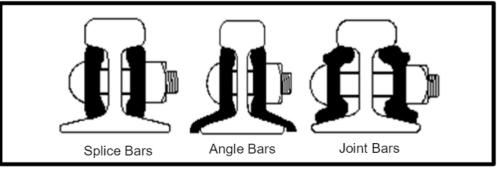


Figure 1

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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.

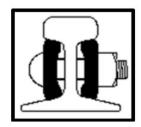


Figure 3

Revised: 9/15/2025

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: _____



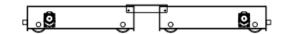


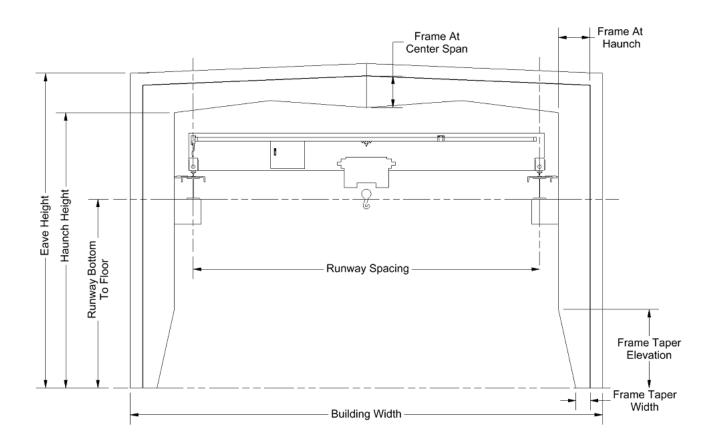
Number of End Trucks:

□ Single End Truck

□ Bogey End Truck











Ti

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"		\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	7,600																										
STT-170	1	9.84"			\rightarrow	12,500	11,000	10,200	9,400	8,500																									
511-170	2	9.84										\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	12,500																	
	1					\rightarrow	18,400	16,200																											
STT-250	2	15.74"											\rightarrow	18,400																					
	1						\rightarrow	31,000	30,200	29,400																									
	2	15.74"	lbs. →										\rightarrow	31,000																					
STT-300	1																				\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	31,000	30,000	28,600	27,000						
	2	20"																			\rightarrow	\rightarrow	\rightarrow	→	\rightarrow	\rightarrow	\rightarrow	\rightarrow	31,000						
	1							\rightarrow	55,000																										
	2	24"															\rightarrow	55,000																	
STT-500	1																\rightarrow	→	→	>	→	>	\rightarrow	\rightarrow	55,0										
	2	30"															\rightarrow	\rightarrow	\rightarrow	→	\rightarrow	→	\rightarrow	\rightarrow	\rightarrow	\rightarrow	→	\rightarrow	55,0						

Top Running Crane Design Form

			(0	Class C) S	STT End 1	Truck Wh	neel Load	ling	(9	tark						
	Wheel	Specs			ASCE Crane Rail Size											
Dian	actor	Trood	\ \ /;d+b	25#	30#	40#	85#	90#	105#							
Diameter	ieter	rread	Width	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	7,600												
170	6.69	70	2.76	10,000	10,700	12,500										
250	9.84	70	2.76		15,700	18,400										
300	11.81	80	3.15			22,200	31,000									
500	19.69	90	3.54				51,700	55,400	55,400	55,400	55,400					
BHN 42	0 (Brinell	Hardnes	s Numbe	er)												

← Check Inventory

CMAA 70

Double Girder = 60" Minimum Gage

4.13.4 Proper Clearance for Bridge Wheels

Revised: 9/15/2025

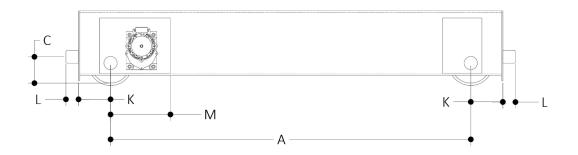
A total of <u>approximately</u> 3/4 inch to one inch wider than rail head should be provided between the wheel flanges and rail head. Tapered tread wheels may have a clearance over the rail head of 150 percent of the clearance provided for straight tread wheels as recommended by the crane manufacturer.

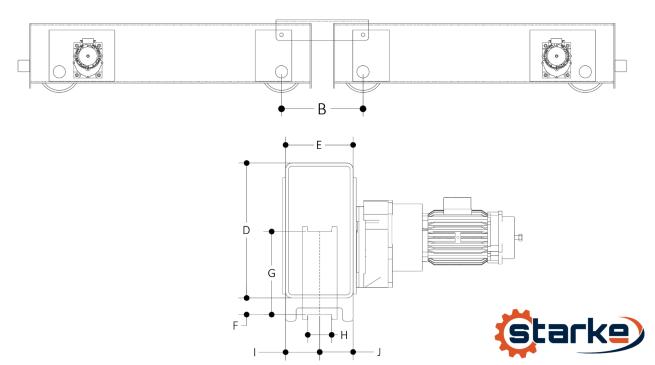




Top Running Crane Design Form







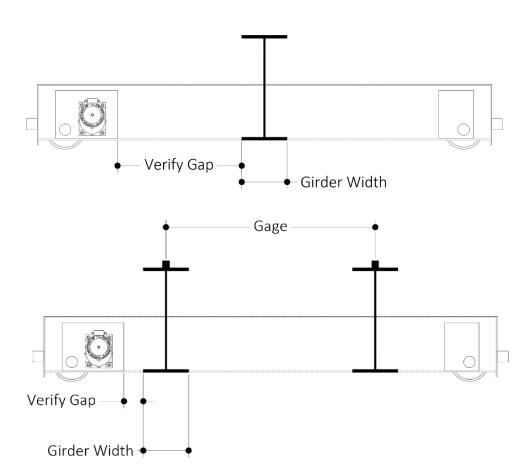
STT Dimensions														
STT	Α	Α	В	С	D	E	F	G	Н	I	J	K	L	М
mm	min	max	min											
130	42"	72"	13"	3.34"	7.87"	5.90"	.78"	5.12"	1.96"	2.95"	2.95"	5"	2.18"	7.55"
170	48"	126"	15"	3.54"	9.84"	5.90"	1"	6.69"	2.76"	2.65"	3.24"	6"	2.18"	9.05"
250	54"	150"	19"	6.29"	15.74"	7.87"	1.96"	9.84"	2.76"	3.93"	3.93"	8"	3.12"	15.15"
300	60"	150"	23"	6.29"	15.74"	7.87"	1.96"	11.81"	3.14"	3.93"	3.93"	10"	3.12"	16.45"
500	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"
500	192"	228"	31"	8.07"	30"	11"	1.96"	19.68"	3.54"	5.11"	5.89"	14"	4.72"	16"

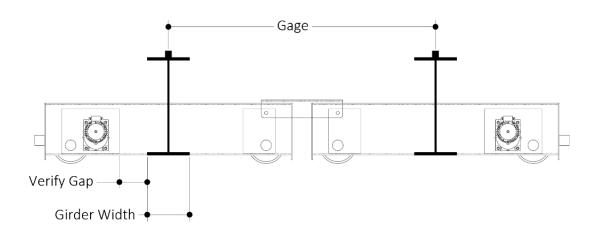




Top Running Crane Design Form











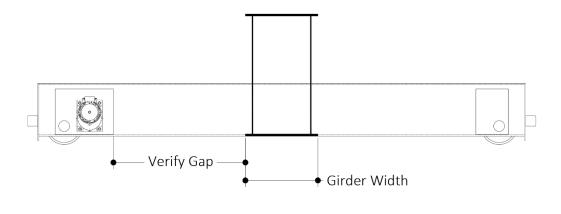
Smart Solutions

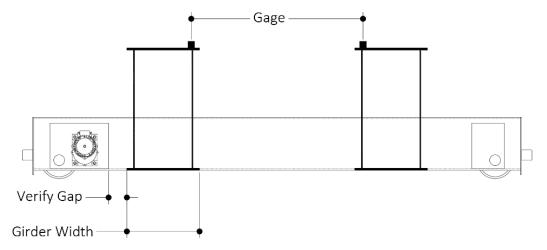
Top Running Crane Design Form

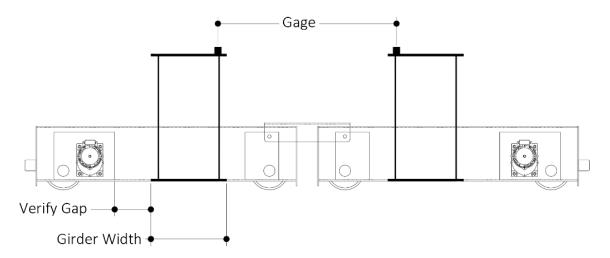














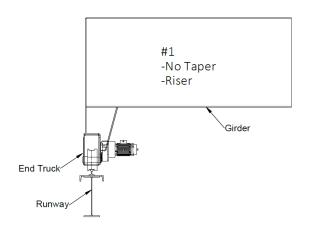


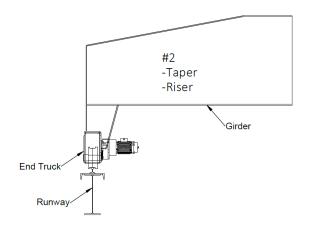
Fall Protection

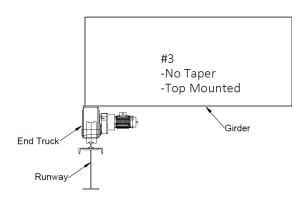
Top Running Crane Design Form

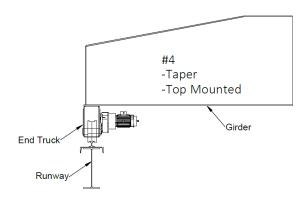


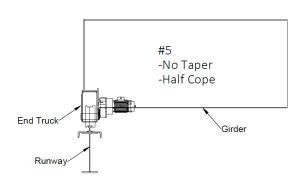
Girder to End Truck Mounting Options for Wide Flange Beams or Box Girders

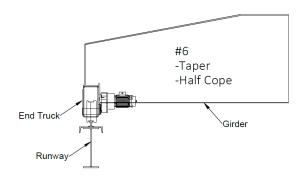














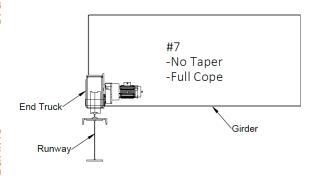


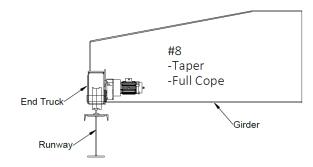
Smart Solutions

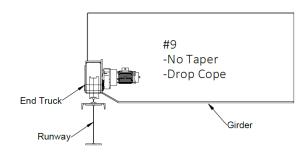
Top Running Crane Design Form

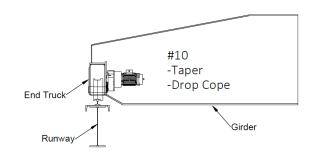


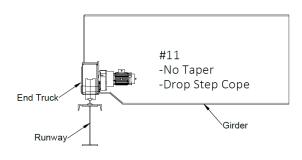
Girder to End Truck Mounting Options for Wide Flange Beams or Box Girders

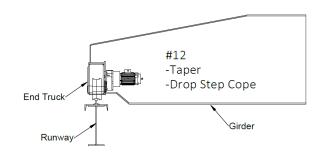


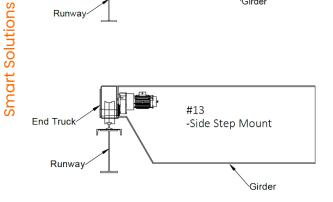










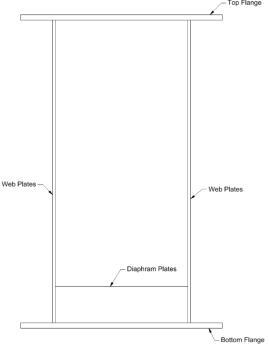


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Box Girder Welding Procedure

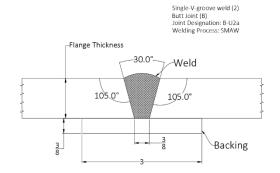




- All welding must be performed by AISC certified welders.
- 2. Welding, both shop and field, shall be accomplished by qualified welders for the weld types and positions involved according to the "Structural Welding Code" AWS D14.1. Use only shielded arc electrodes of structural type. Use E-70 electrodes
- 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.







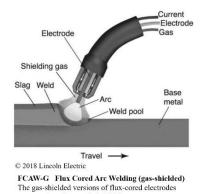
Prequalified Welded Joint

Square-groove weld (1)

Butt Joint (B)

Joint Designation: B-L1a-GF

Pregualified Welded Joint



use an externally supplied shielding gas.

Web Thickness (max 3/8")

Weld

Base Metal

Root Opening = Web Thickness



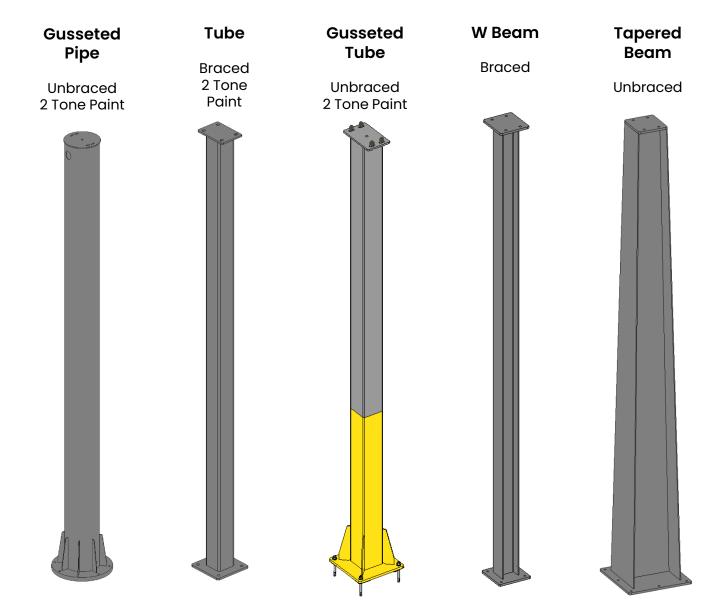


Freestanding Crane Columns



Product Description

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





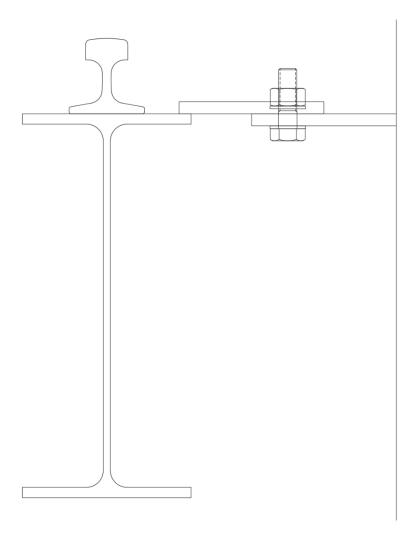


Braced Column Tie Back Plates



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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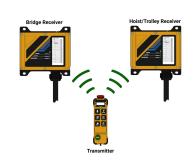


Motorized Under Running Single Girder Bridge Crane



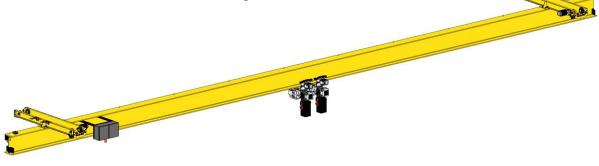
Product Description

- 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





INCOMMAND

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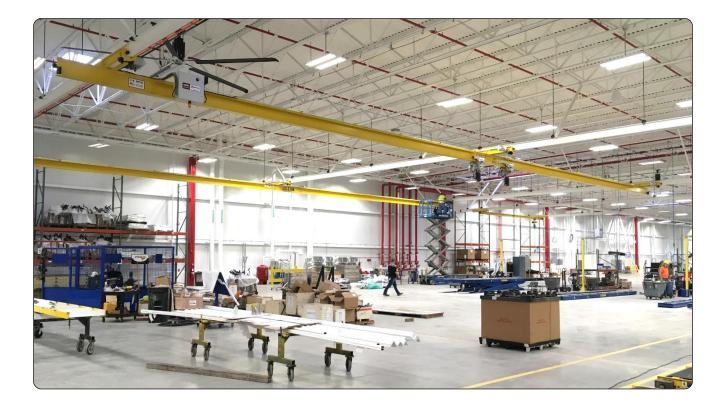




Smart Solutions

Motorized Under Running Single Girder Bridge Crane





INCOMMAND

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Fall Protection

Smart Solutions

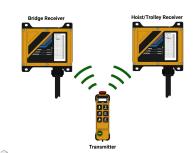
Cranes

Motorized Under Running Low Headroom Bridge Crane



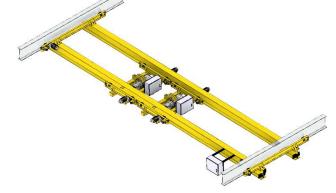
Product Description

- 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.

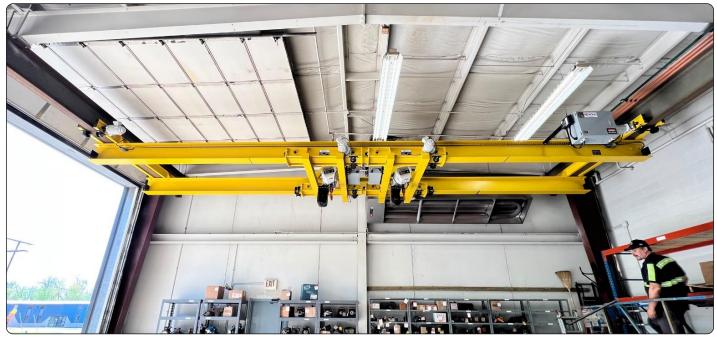


Product Features

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







INCOMMAND





Monobridge



Product Description

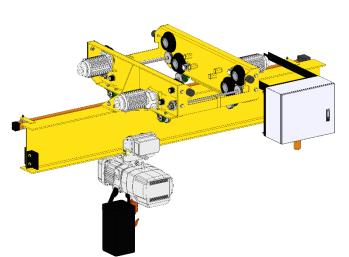
- · Bridge crane rolls on wide flanged beam bottom flanges
- Utilizes one runway for large span systems that only require minimal hoist trolley travel

Product Features

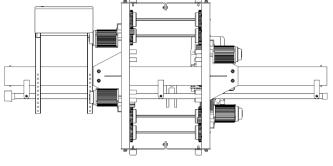
- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton
- Span: 5'-15'

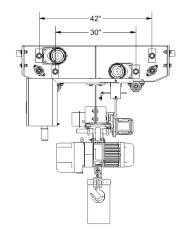
Cranes

- · Starke SCU end trucks
- Radio Controlled
- End truck wheels include ball bearings

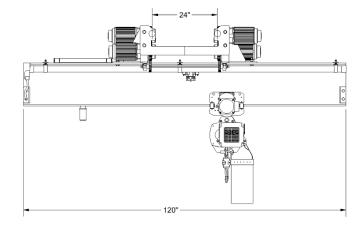








Revised: 9/15/2025







Telescoping Motorized Single Girder Bridge Crane



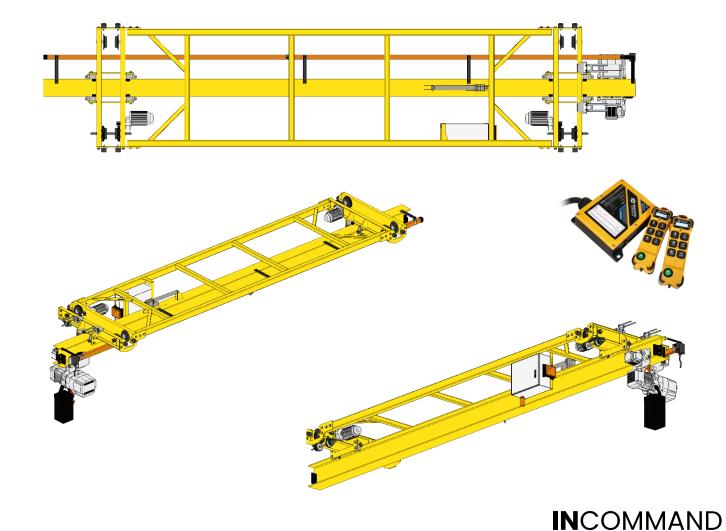
Product Description

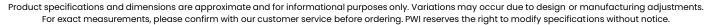
 Under running crane upgrade that provide additional coverage around to adjacent workspaces without installation of another crane system.

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.











Under Running Motorized Bridge Interlock



Product Description

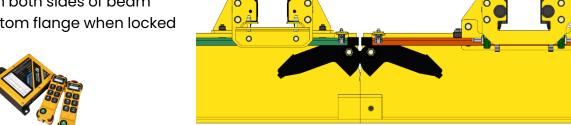
Mechanism that successfully aligns and locks two bridges in place so that the trolley and hoist can travel from one bridge to another successfully transferring loads across a workspace.

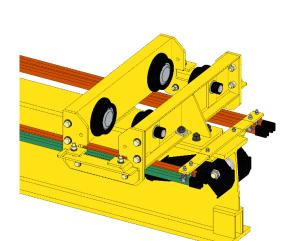
Product Features

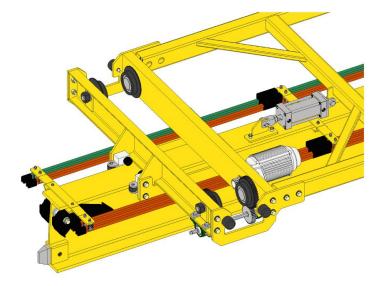
- Capacity: 1 T, 2 T, 3 T, 5 T, 6 T, 7.5 T, 8 T, 10 T
- Optional interlocking a bridge crane to a monorail or another bridge crane
- Allows for interlocking at any point where both bridges are aligned
- Starke SCU end trucks
- Radio Controlled
- Optional Pneumatic or Electric Telescoping
- Self-aligning blade

Fall Protection

- 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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66





Fall Protection

Under Running Manual Bridge Interlock

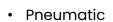


Product Description

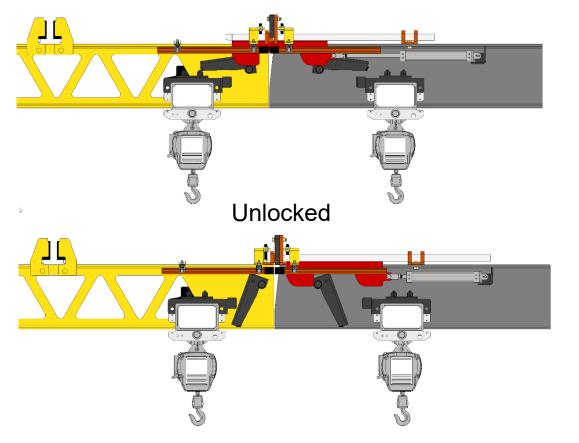
 Mechanism that successfully aligns and locks two bridges in place so that the trolley and hoist can travel from one bridge to another successfully transferring loads across a workspace.

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



Locked



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Fall Protection

Smart Solutions

Top Running Motorized Runway Interlock

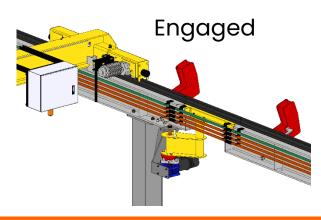


Product Description

- 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

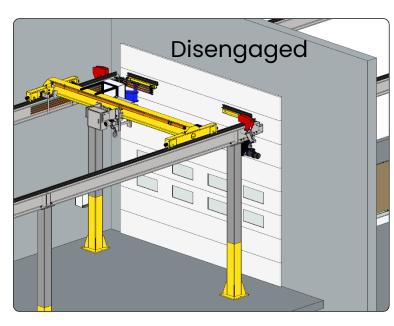
Product Features

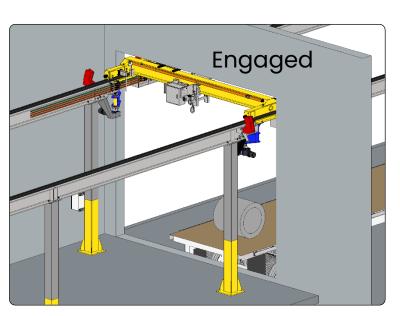
- Radio controlled for interlock position
- 1 Ton 50 Ton Runway Capacity
- · Accommodates any ASCE rail size
- System Voltage: 460v/3ph
- 90deg. Interlock Rotation
- Powered End Stops
- Includes custom control panel with PLC to control all functions of interlock and end stops to ensure safety and compliance.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



Revised: 9/15/2025











Under Running Bridge To Monorail Interlock



Product Description

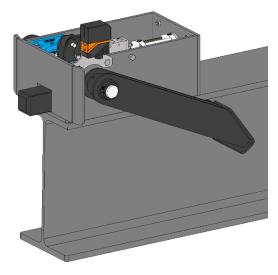
 Interlock system that allows a moving bridge to interlock with a fixed monorail section.

Product Features

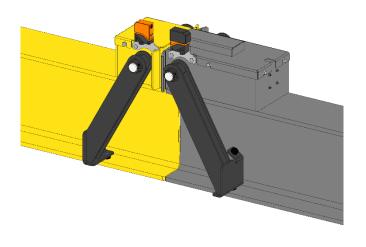
- Capacity: up to 15 ton
- For interlocking a bridge crane to a monorail or transfer zone
- Self-aligning 2" x 2" square locking pin
- Tight clearance required between bridge and monorail
- 1/8" 1/4" Gap on bottom flange when locked
- Compatible with Starke SCU end trucks
- Radio Controlled
- No subframe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



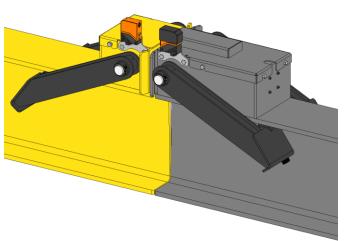




Disengaged



Engaged



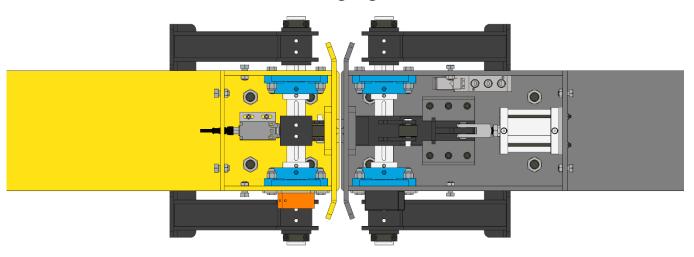




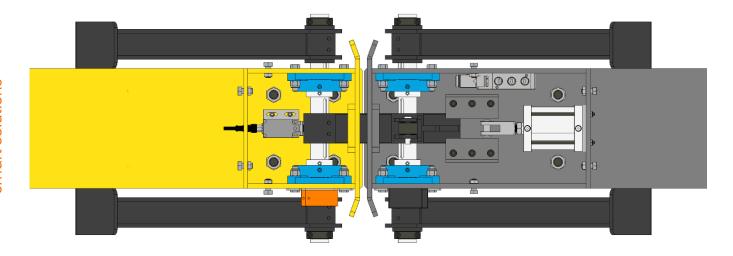
Under Running Crane Interlock



Disengaged



Engaged



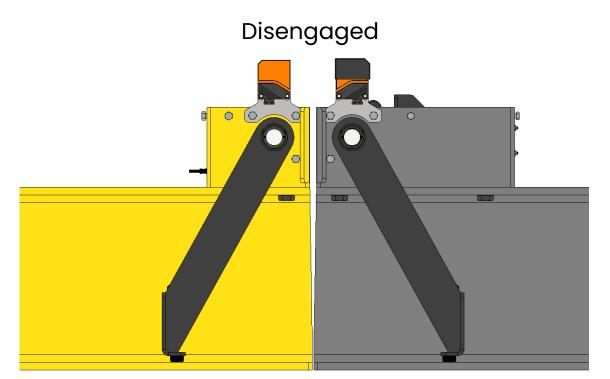
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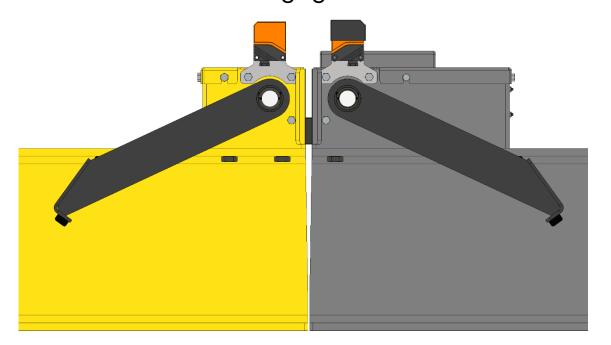


Smart Solutions





Engaged







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

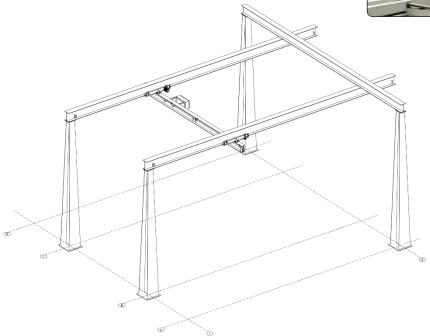
- Capacity: 1 Ton, 2 Ton, 3 Ton, 5 Ton, 6 Ton, 7.5 Ton, 8 Ton, 10 Ton
- Span: 10'-70'

Cranes

Fall Protection

- Bridge travel automated stops: A/B/C/Home
- 480V/3 phase





Revised: 9/15/2025





Decking Lifter



Product Description

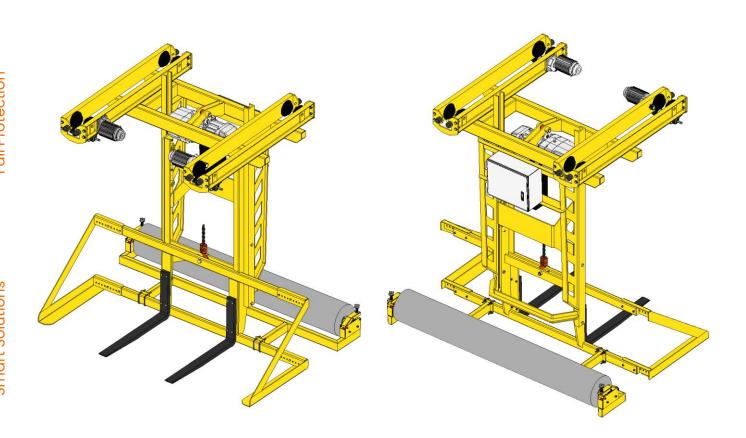
This product allows the worker to transport large loads of decking (plywood, OSB, etc.) or pallets of other material from a mezzanine to the manufacturing space, without the need to haul the material by hand.

Product Features

2 Ton, 3 Ton

Cranes

· Rear Foil Rack



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Cranes

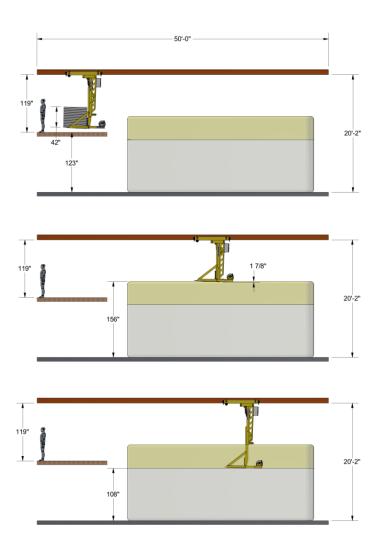
Decking Lifter

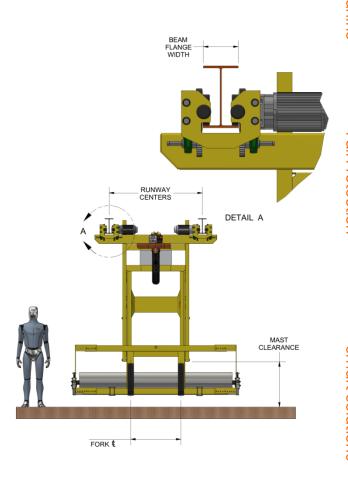
Product Description

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 Foil Rack





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Runway Cart



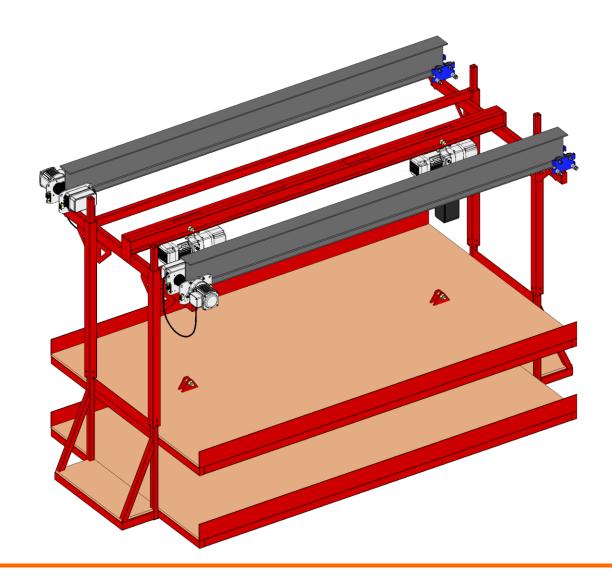
Product Description

 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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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"

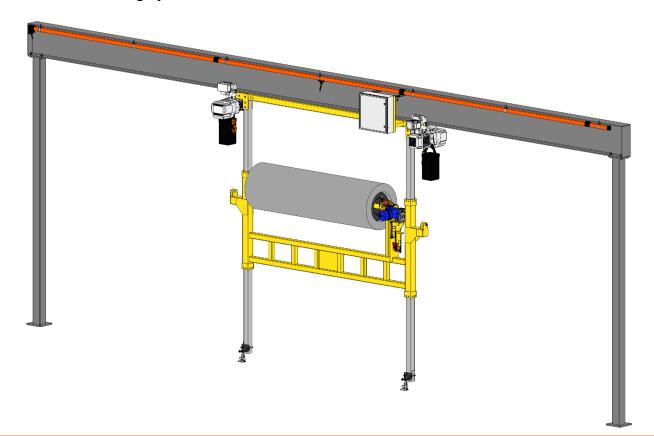
Coil ID: 19.5"
Coil OD: 30"

Lifting Capacity: 4,000#

Lift Height: 14'

Power Supply: (460V)Lifting Speed: 26 fpm

Rotation/Decoiling Speed: variable



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Smart Solutions



Manual

Motorized

PZT - Top Runner









ULTRALITE

PZU - Under Running

SCU - Under Running





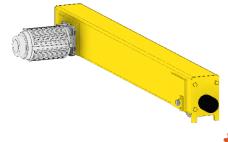


ULTRALITE

PHT - Tube End Truck

STT - Top Running









Bridge Control Panel Mounting Options

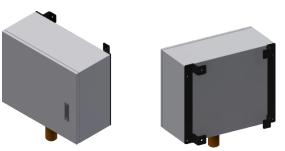


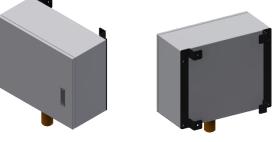
Fall Protection

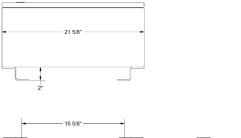
Side Mounted

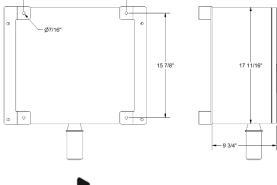


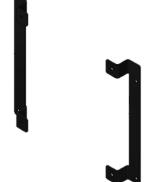
Top Mounted

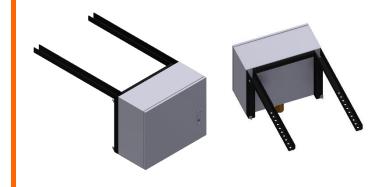


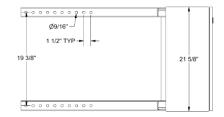


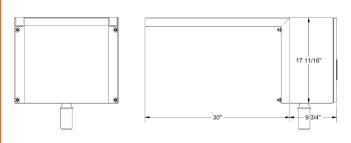


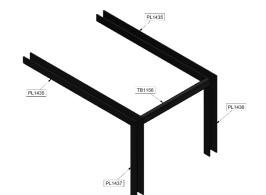
















Controls Type

Single or 2
Speed

Full Variable
Control

Wireless

Pendant





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Hoist/Trolley Receiver Bridge Receiver 8

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Transmitter





Power Supply Options



Fall Protection

Smart Solutions

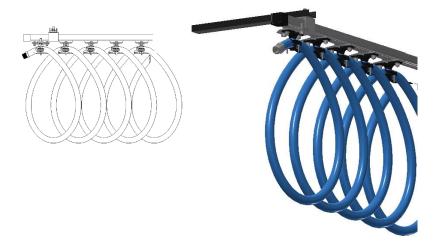
















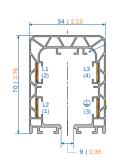














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Bridge Crane Buffer



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

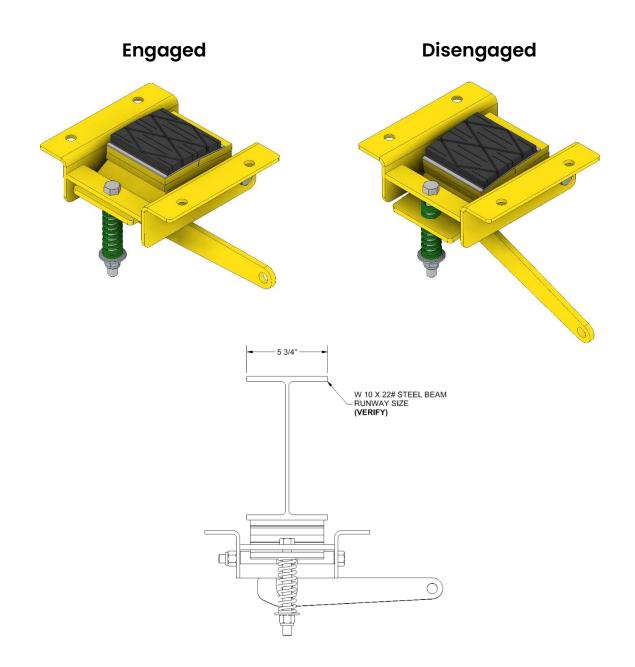


Product Description

• Manual Bridge Brake

Product Features

Compatible with PZU End Trucks



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For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.





Stationary Under Running Side Guide Roller



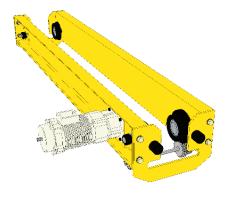
Product Description

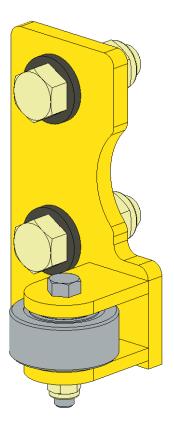
Side Guide Roller

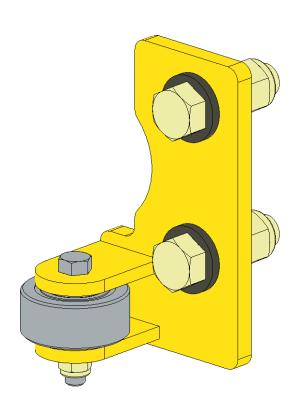
Product Features

Stationary Side Guide Rollers













Adjustable Under Running Side Guide Roller



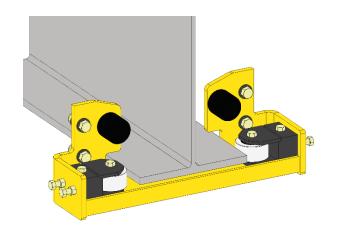
Product Description

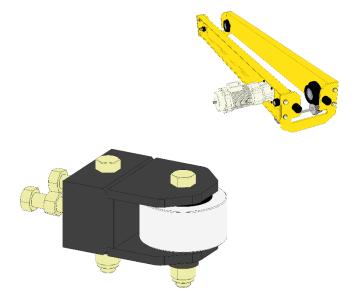
 Adjustable side guide roller for Starke SCU Under Running End trucks on Wide Flange beams

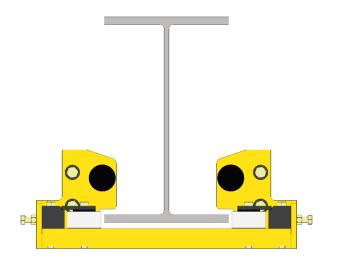


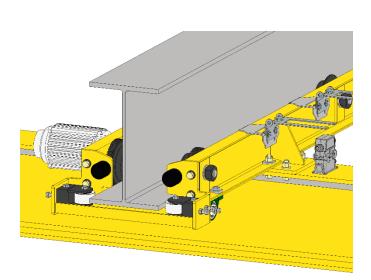
Product Features

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













Cranes

Starke 300 Series Brake

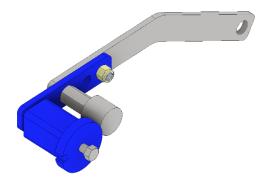


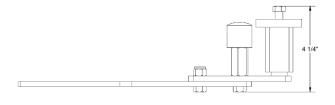
Product Description

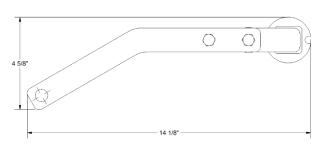
- Parking brake system that can be added to any PWI Hyperlite bridge crane system.
- Provides the user with a method of holding the bridge in place for specific applications.

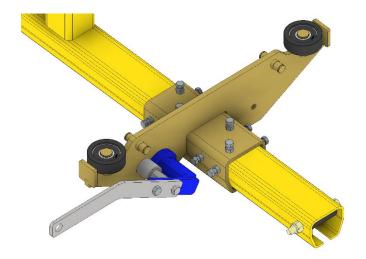
Product Features

- Compatibility:
 - Starke End Trucks
 - Crosswalks













Bridge End Stops

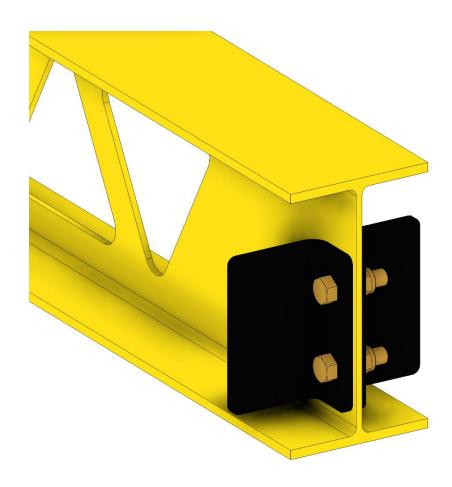


Product Description

Web Bolted End Stops

Product Features

- Formed plate
- Small, medium per beam height



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.

88





Cranes

Bridge End Stops



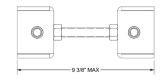
Product Description

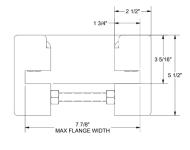
• Clamp Style End Stops

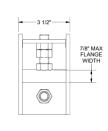
Product Features

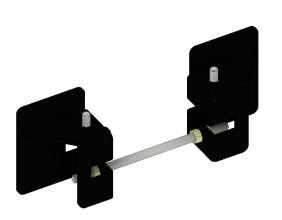
- Clamped to bottom flange
- Adjustable placement
- Small, medium, large per beam flange

Size: Small Model #: PWCES200

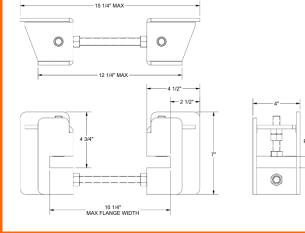


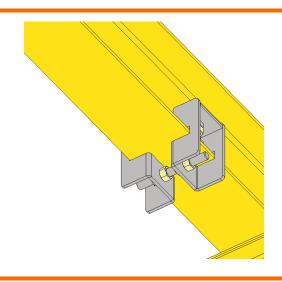




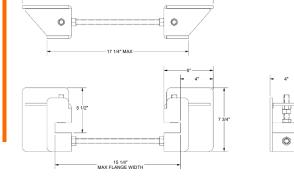


Size: Medium
Model #: PWCES201





Size: Large Model #: PWCES202







Cranes

Runway End Stops

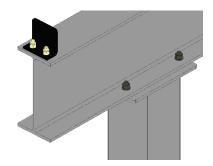


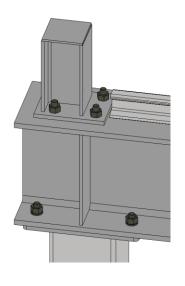
Product Description

Runway Mounted End Stops

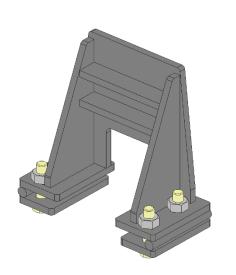
Product Features

- 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





Revised: 9/15/2025



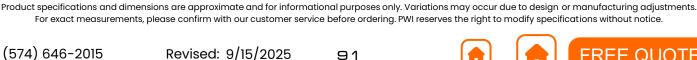




BTH Device Index



- **Spreader Bars**
- **Coil Lifting**
- X-Axis Positioner
- <u>Torque Frame Rotator</u>
- Front Hitch Rotation Units
- **Axle Lifting**
- **RV Frame Lifting**
- **RV Floor Lifting**
- **RV Sidewall Lifting**
- **RV Slideout Lifting**
- **RV Roof Lifting**
- **RV Generic Lifting**







Adjustable Spreader Bar

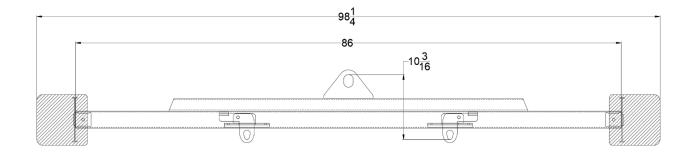


Product Description

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.









Smart Solutions

Coil Lifter

Cranes

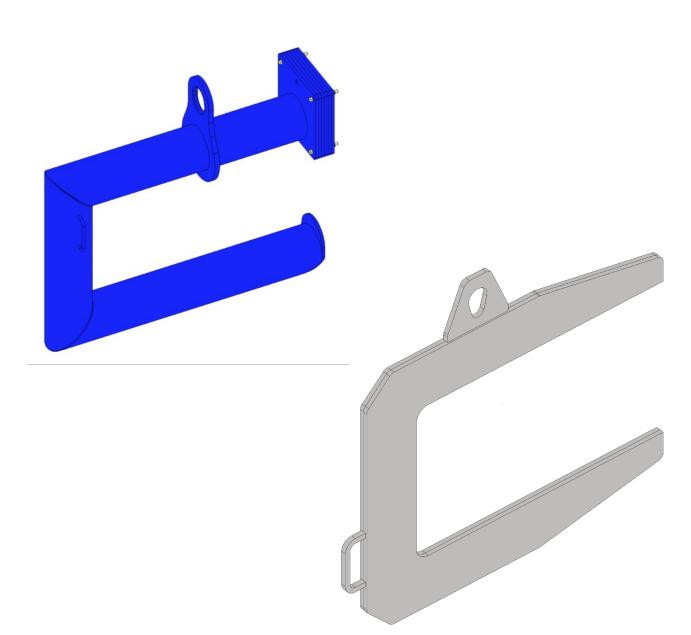


Product Description

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

Product Features

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







TorqueMP (Material Positioner)



Product Description

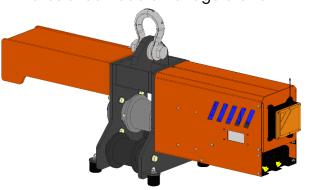
- Designed in accordance with ASME B30.2 Below-The-Hook Lifting Devices
- The TorqueMP is a state-of-the-art Below-the-Hook device that safely rotates material without the operator needing to be in harm's way. The utilization of DeWALT batteries makes this device work on any hoist system without having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

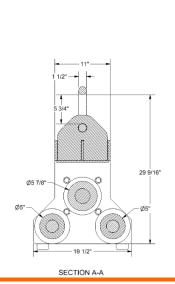




Product Features

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



















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Fall Protection

Smart Solutions

Cranes

TorqueMP (Material Positioner)

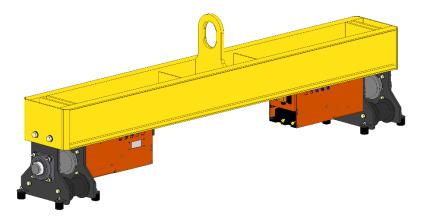


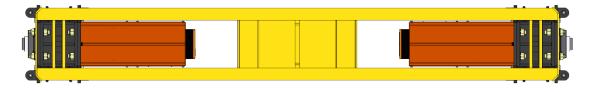
Product Description

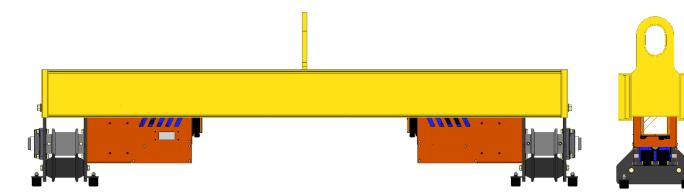
 Designed in accordance with ASME B30.2 Below-The-Hook Lifting Devices

Product Features

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







TORQUEMP





TorqueMP (Material Positioner)











TORQUEMP

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Smart Solutions

TorqueMP (Material 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.

Revised: 9/15/2025

TORQUEMP





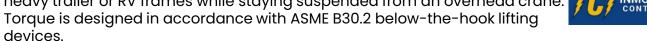


TorqueX BTH Frame Rotator



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.

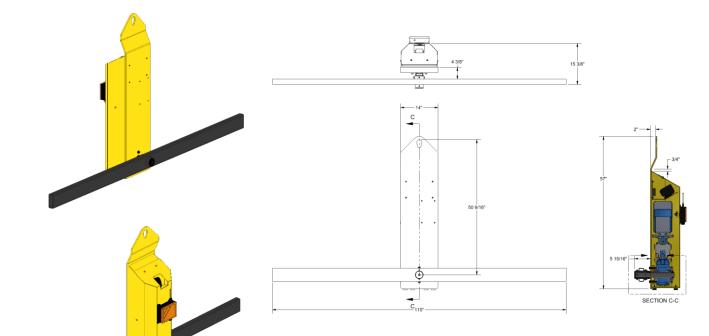




Product Features

- Model Number: FRC2596
- Rotating Capacity: 4,000 lbs. **TOTAL** weight of trailer not to exceed 4,000 lbs.
- 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
- Max Rotation Speed: 1.5 RPM
- 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

Fall Protection



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TORQUEX

TorqueX BTH Frame Rotator



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Revised: 9/15/2025

TORQUEX







TorqueX BTH Frame Rotator

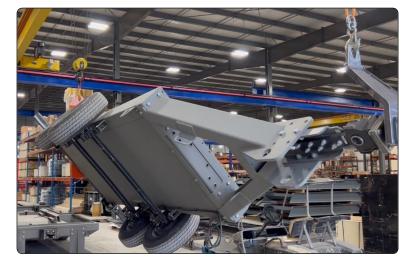


Fall Protection

Smart Solutions







Revised: 9/15/2025



TORQUEX



Front Ball Hitch Rotation Unit



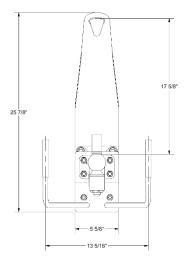
Product Description

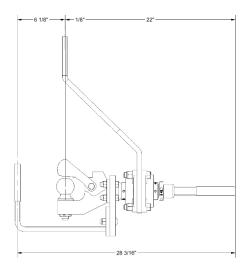
- The front ball hitch rotation unit is the perfect device to use in tandem with PWI's
 frame rotator. The integrated ball bearing makes the rotation of any A frame trailer
 smooth and safe.
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.

Product Features

Cranes

Rated Capacity: 2,000





Revised: 9/15/2025









Front Fifth Wheel Rotation Unit



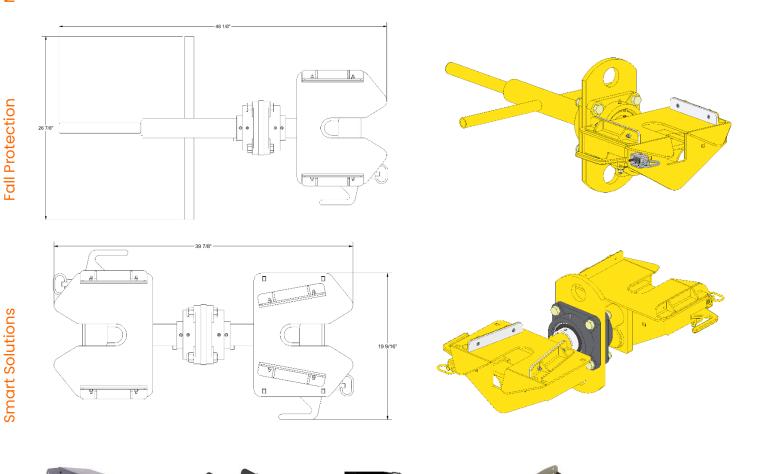
Product Description

- 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

Cranes

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



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.





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



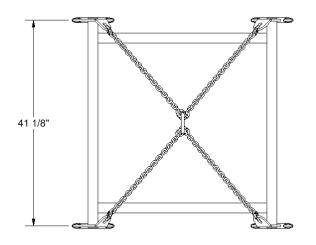
Product Description

- 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.

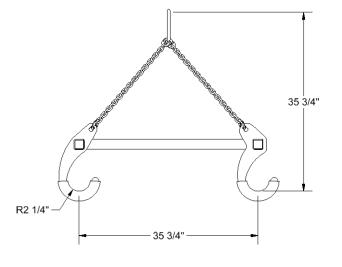
Product Features

Cranes

Rated Capacity: 1,000lb.













Sliding RV Frame Lifting Clamp

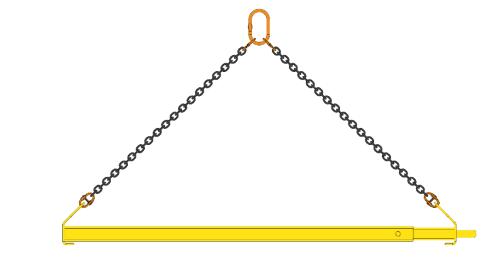


Product Description

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

Product Features

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







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.





Beam Frame Lifter

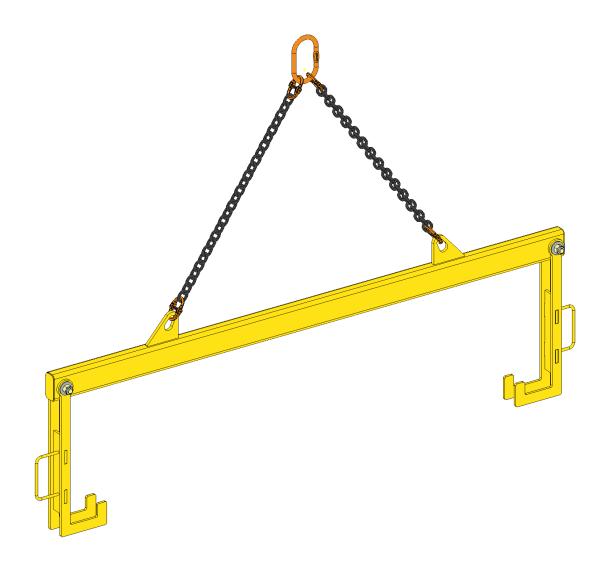


Product Description

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

Product Features

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







Big Board Lifter

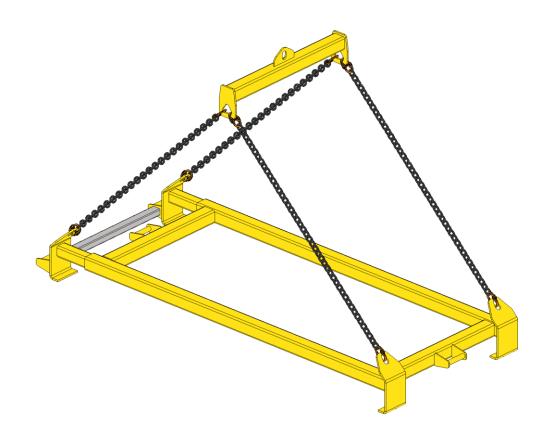


Product Description

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

Product Features

Rated Capacity: Contact your sales rep







Adjustable Floor/Roof Lifter

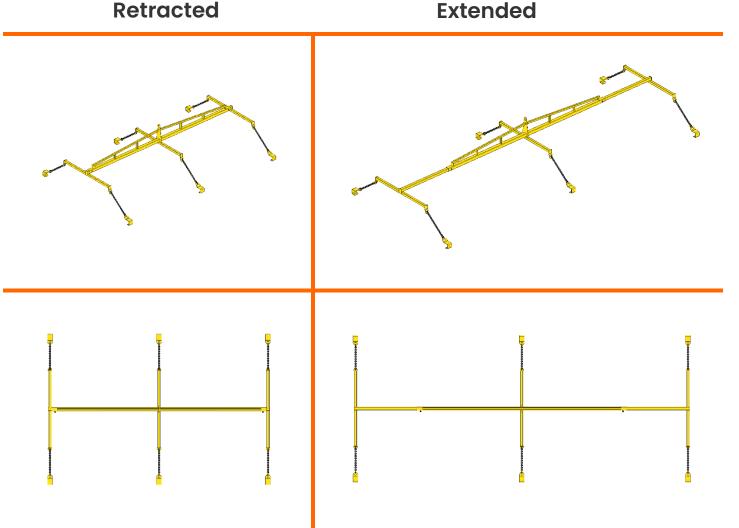


Product Description

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

Product Features

- Rated Capacity: Contact your sales rep
- Adjustable Length







Cranes

Side Wall Hook

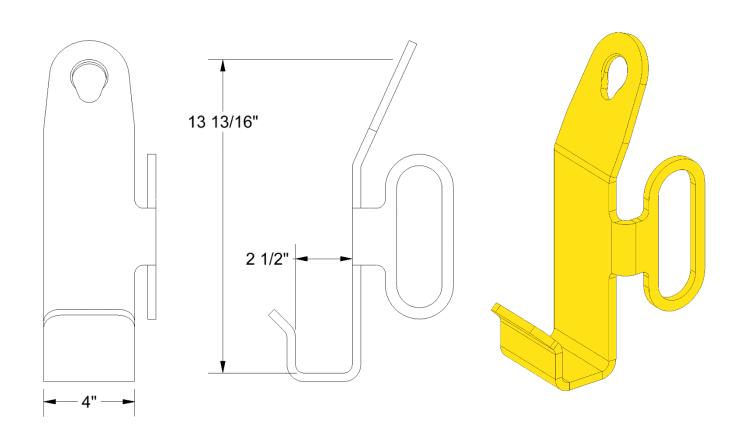


Product Description

• 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

Revised: 9/15/2025

• 1,000lb. Lifting Capacity





Cranes

Side Wall Hook

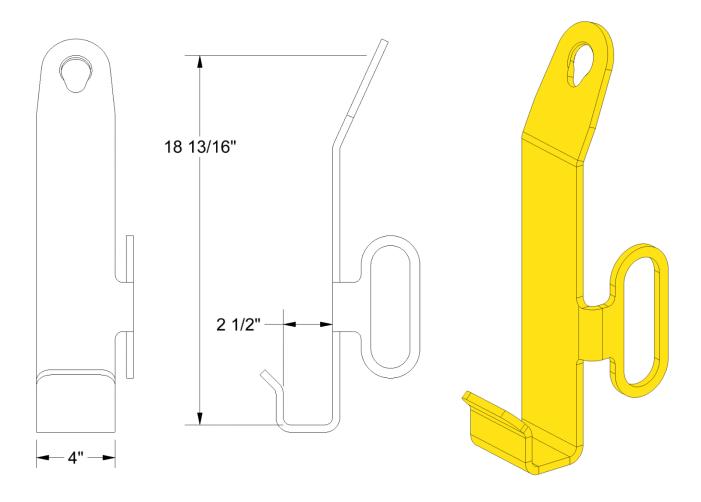


Product Description

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



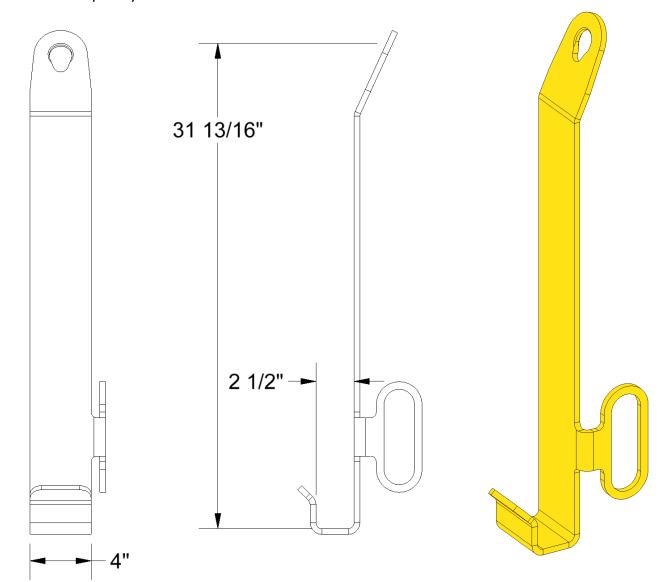
Product Description

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

Product Features

Cranes

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



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.





Cranes

Pneumatic Sidewall Lifter

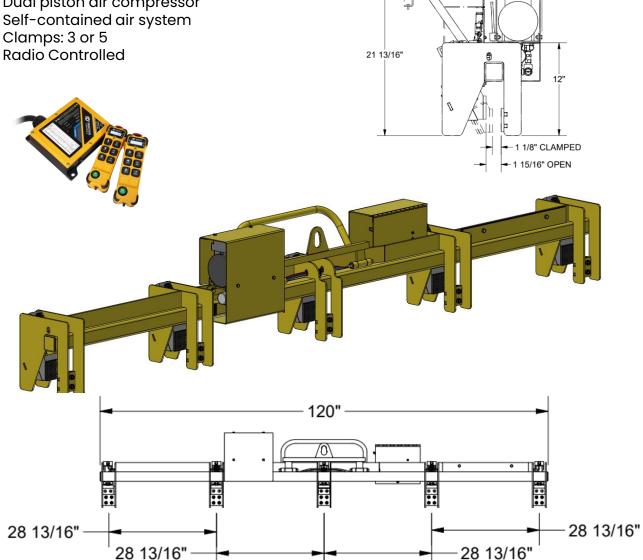


Product Description

- 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
- Clamps: 3 or 5



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17 13/16"



Cranes

LD Slideout Lifter

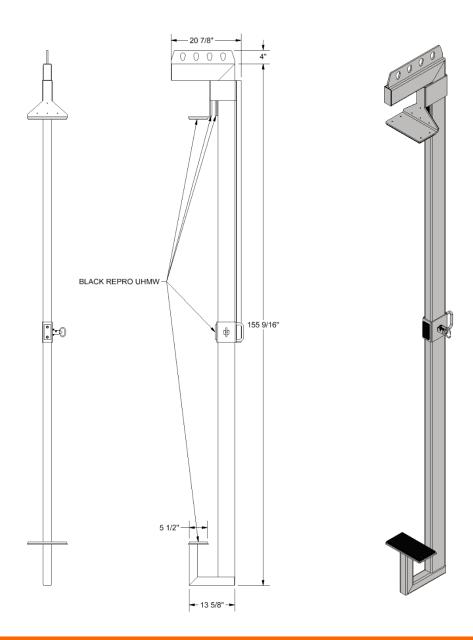


Product Description

- 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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Smart Solutions

Cranes

HD Slideout Out Lifter



Product Description

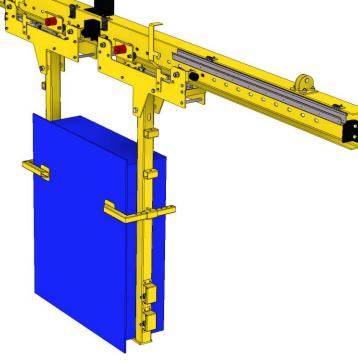
- Designed in accordance with ASME B30.2 below-the-hook lifting devices.
- The HD Slide Out Lifter is used to secure a slide out from each end allowing for accurate positioning inside of the unit.
- Safety and efficiency are greatly improved through utilizing a tool that minimizes the dangers of this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

Product Features

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



Revised: 9/15/2025









Adjustable Roof Lifter

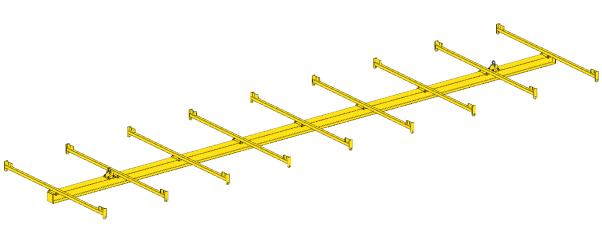


Product Description

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

Product Features

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







Center Roof Lifter

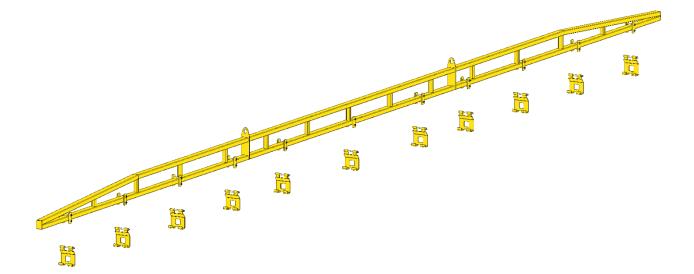


Product Description

• 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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T

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







Mezzanines Index



- <u>Mezzanine Info Diagram</u>
- Columns
- Crossmembers
- Bracing
- Guardrail
- Gates
- Stairs
- Material Chutes
- Footings
- Anchors
- Grout
- <u>VRCs</u>

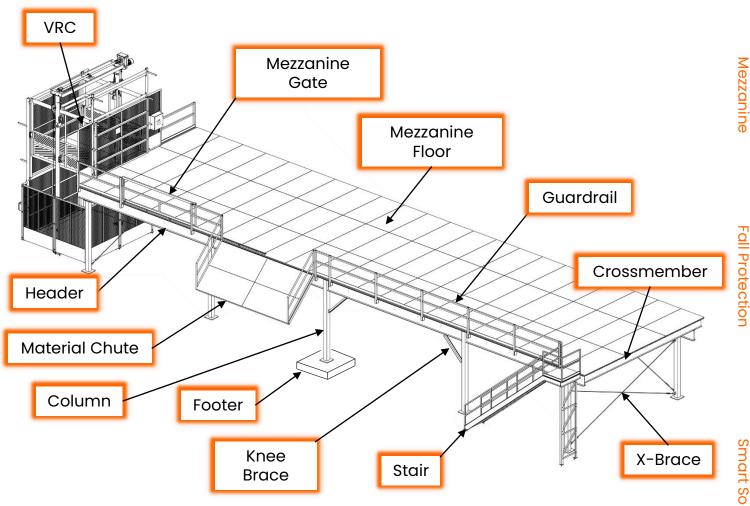
Product specifications and dimensions are approximate and for informational purposes only. Variations may occur due to design or manufacturing adjustments. For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.



Mezzanine Info Diagram

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



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.

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.

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.

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.





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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 STAIR ZONE

Choosing the correct flooring type is crucial to avoiding problems in the future. PWI has inhouse 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. You can order decking for your own project on PWI's website.

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.









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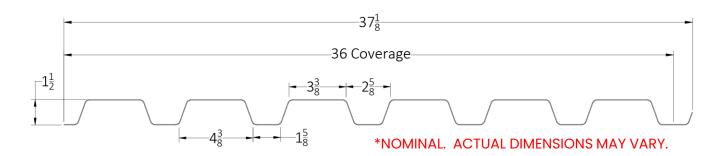


Mezzanine Subfloor Options



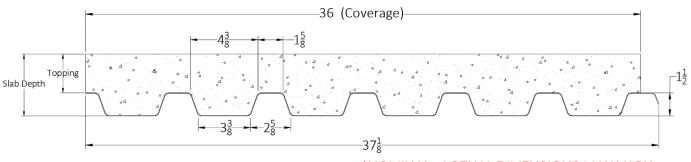
B Deck

- •1.5" B Deck Specs PDF
- •Steel Grade: A1011 CS Type B



Form Deck

- •<u>Form Deck Specs PDF</u>
- •Steel Grade: A1011 CS Type B



*NOMINAL. ACTUAL DIMENSIONS MAY VARY.

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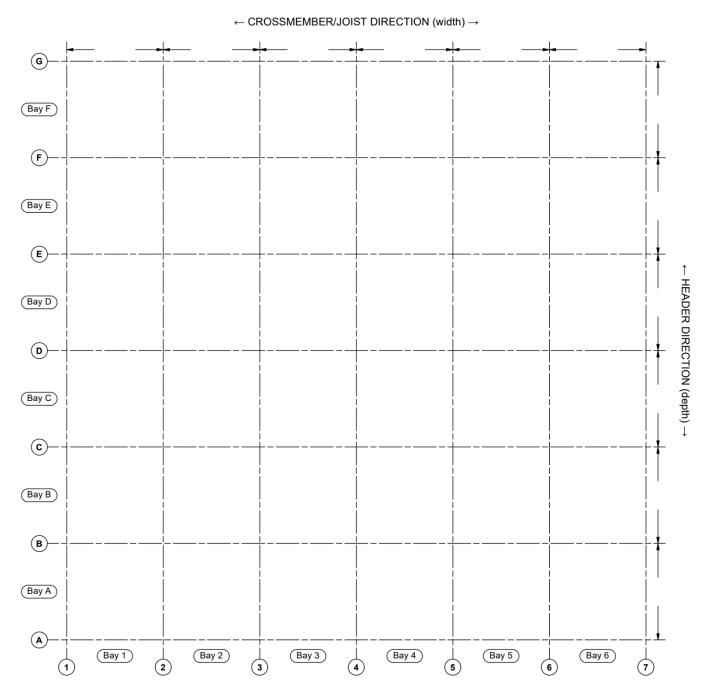


Smart Solutions

Mezzanine Design Sketch Page



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Smart Solutions

Mezzanine Height Descriptions



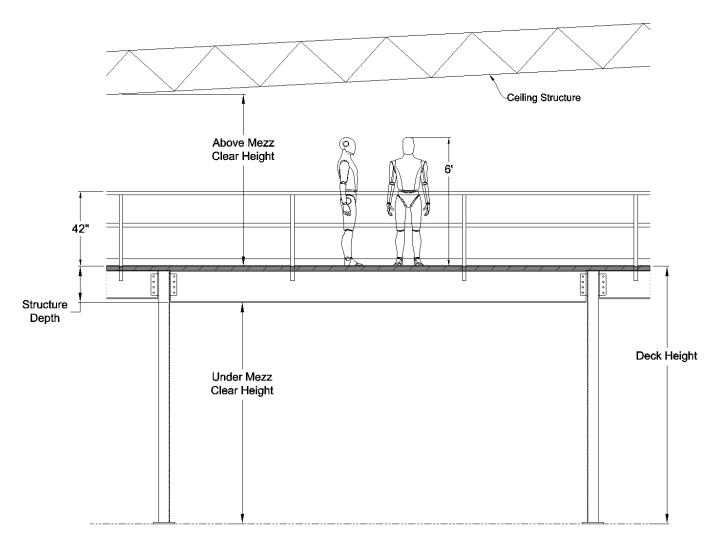
Crane

≤

zzanine

Fall Protection

Smart Solution



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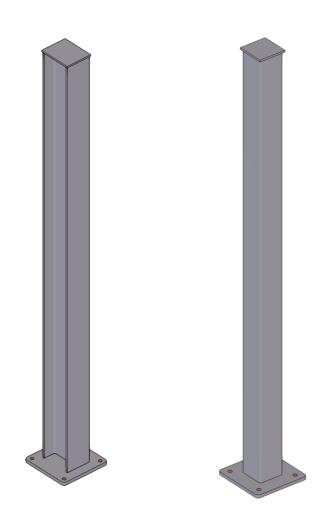




Mezzanine Columns

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

Mezzanine

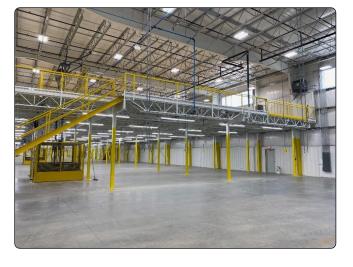
Fall Protection

Smart Solutions

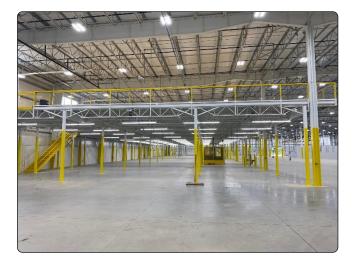
- Accommodates large spans or projects that require vast, unobstructed floor space
- Allows the installation and access of sprinkler systems, electrical conduit, and mechanical equipment







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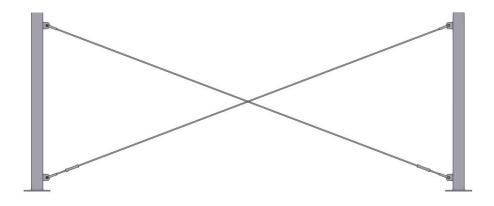


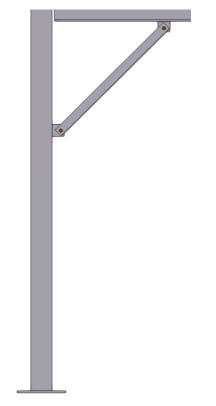
Mezzanine Bracing



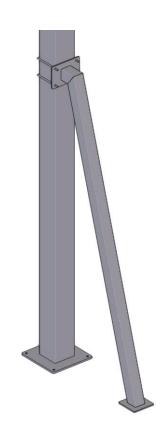
Product Options

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





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Fall Protection

Smart Solutions

Bolted Guardrail



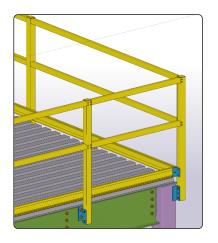
Product Description

 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

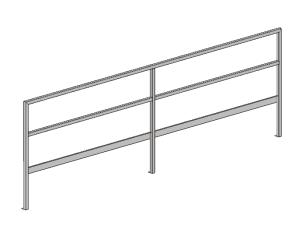
Mounting Types

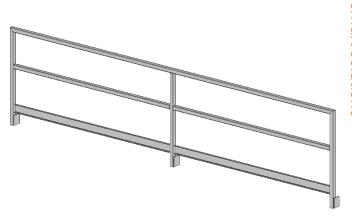
Fall Protection

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









STRUCTURALSPACE





Mezzanine

Surface Mounted Guardrail

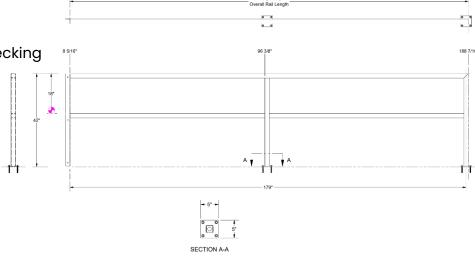


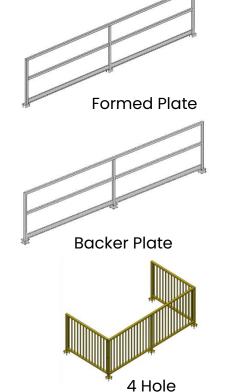
Product Description

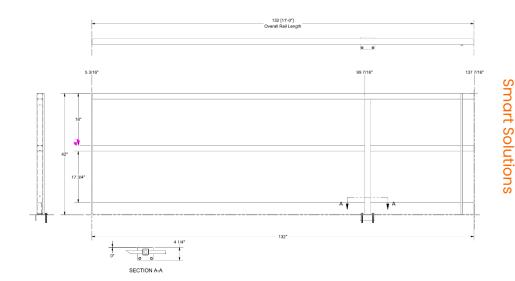
- Top mounted guardrail applications for concrete, wood, or steel decking. Surface Mounted Guardrail has splicing options to accommodate any onsite installation scenario:
 - Welded
 - Formed Plate using Self-Tapping Screws
 - Flat Bar using Self-Tapping Screws
- PWI's guardrail is compliant with OSHA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







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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.

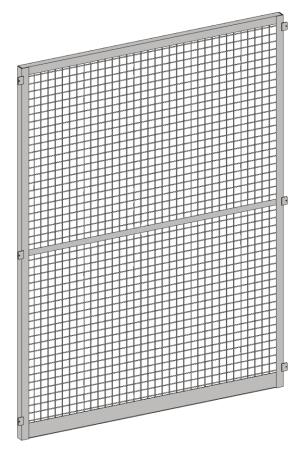
Product Features

- Customizable Height
- · Modular Mesh Panels





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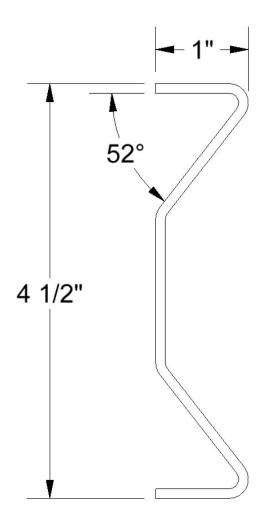
Product Description

This toe kick is compatible with bolt-on guardrail post or weld-on guardrail post. M toe kick can be cut to length and attached to the mezzanine guardrail post during installation.

Product Features

- 12ga. Steel

- Resistant to Warping During Hot Dip Galvanizing



- Roll Form or Press Brake
- Weld In or Screw On

STRUCTURALSPACE

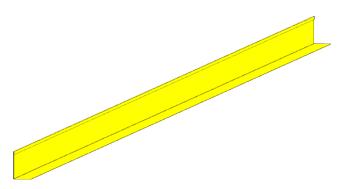
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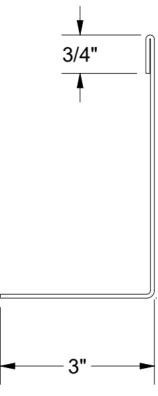




Product Features

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





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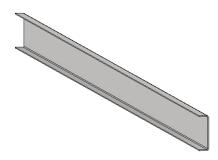
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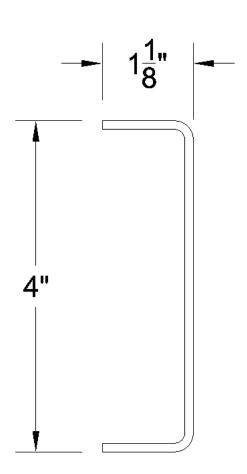




Product Features

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





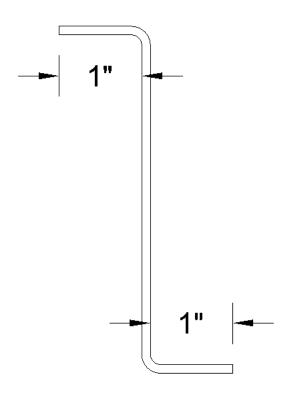
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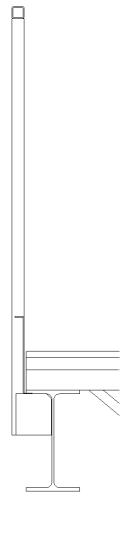


Product Features

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



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Swing Gate

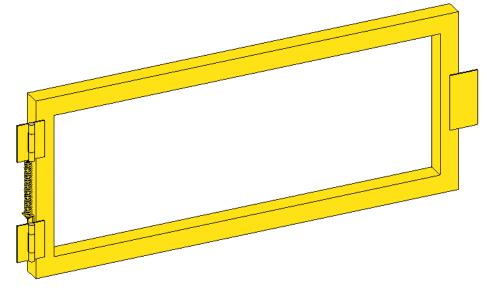


Product Description

- 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

Fall Protection

Smart Solutions

Optional: air powered lift

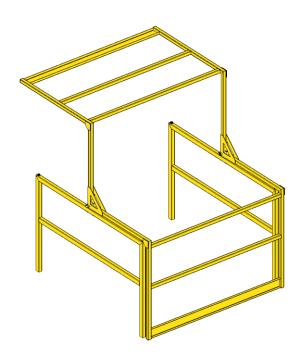








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Manual Drop Gate



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

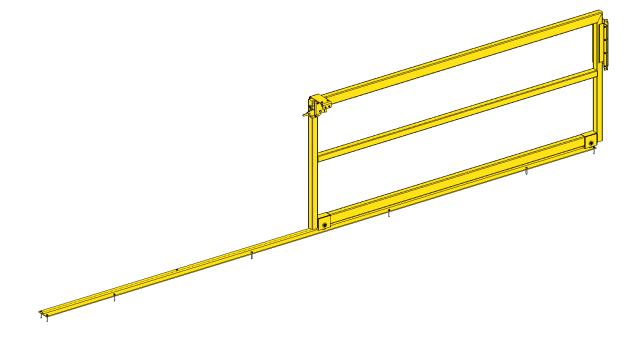
· Our economical access solution.

Product Features

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

Fall Protection

Smart Solutions





Revised: 9/15/2025



STRUCTURALSPACE





LD Motorized Rolling Gate



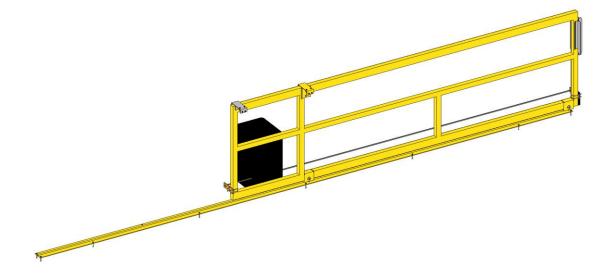
Product Description

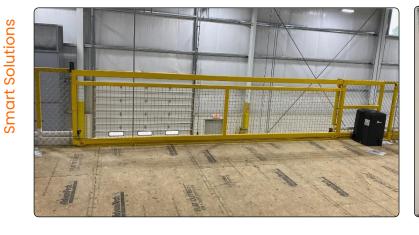
• Upgraded version of the manual gate with motorized operation.

Product Features

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

Fall Protection





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Motorized Overhead Gate

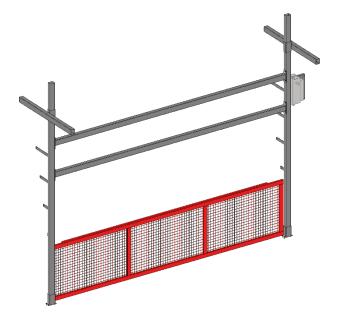


Product Description

• 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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STRUCTURALSPACE





Motorized Drop Gate



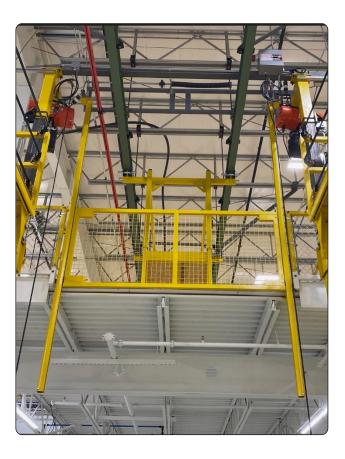
Product Description

• 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

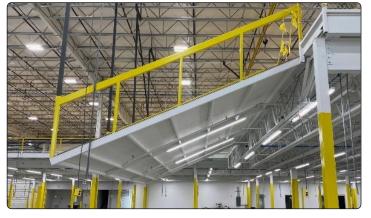
- Material delivery chute designed to send components to the production line directly from the mezzanine level.
- These are often combined with a fall protection system for the increased safety of workers at the mezzanine level.

Product Features

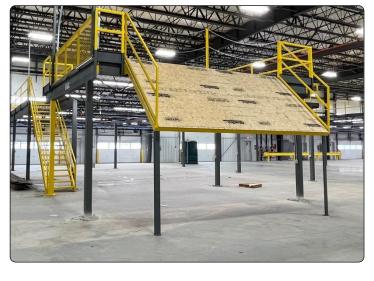
Fall Protection

Smart Solutions

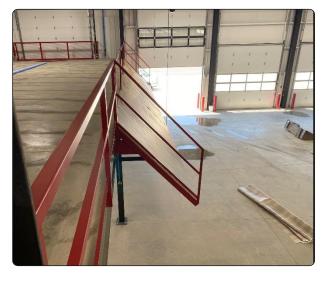
- Optional mounting: cantilever, column mounted
- Quick access to stored products and materials







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Mezzanine Mounted Under Running Crane



Product Description

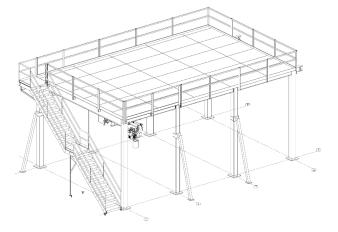
 Gain additional space all while increasing production efficiency through pairing a mezzanine with our manual or motorized under running crane systems.

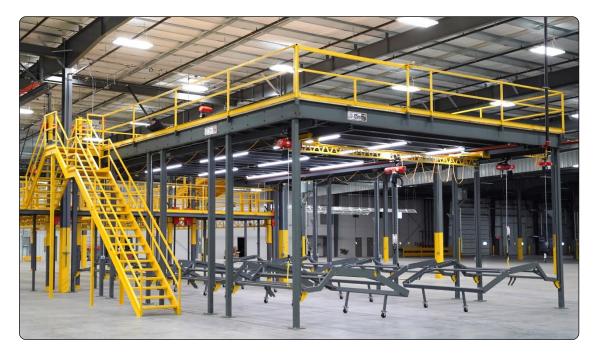
Product Features

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

Fall Protection







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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 main a satisfactory mezzanine clearance, while improving safety and access to other processes at the same time.

Product Features

Fall Protection

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





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Stairway Configurations



Fall Protection

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Straight





Switchback



Crossover





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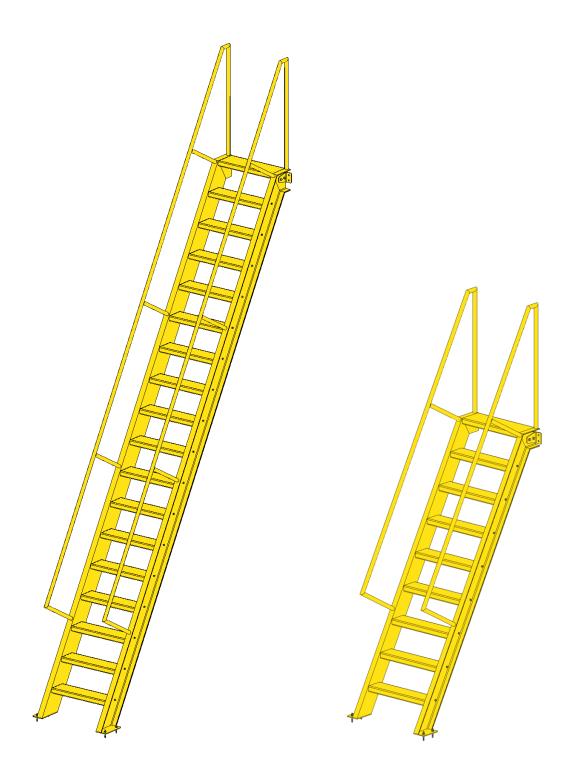




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Fall Protection





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Ship Stairs



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)

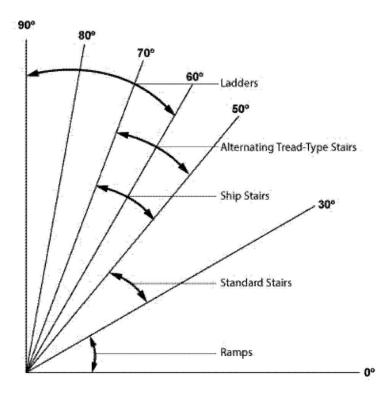
Have open risers with a vertical rise between tread surfaces of 6.5 to 12 inches (17 to 30 cm);

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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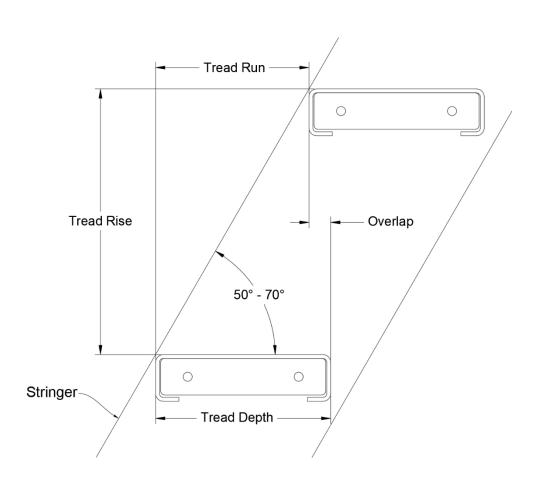






OSHA Ship Stairs Specs:	
OSHA Degree Range:	50° - 70°
OSHA Tread Rise:	6.5" – 12"
OSHA Minimum Tread Run:	4"
OSHA Minimum Tread Width:	18"

PWI Ship Stairs Guidelines:		
Target Degree:	65°	
Max Landing Height:	240"	
Tread Rise Max:	11"	
Minimum Tread Run:	5.25"	
Minimum Tread Width:	18"	
Max Tread Width:	36"	
Tread Depth:	Tread Run + .5" as possible.	
Overlap:	.5" as possible.	





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CHOOSE YOUR TREAD TYPE



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

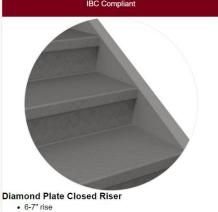


Bar Grating Open Riser

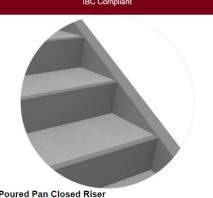
- 7-9" rise
- 8 1/2" run
- Popular for industrial
- · Anti-slip serrated grating



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



- - 11" run
 - Popular for industrial
 - · Embossed diamond for traction and durability



Poured Pan Closed Riser

- 6-7" rise
- 11" run

Revised: 9/15/2025

- · Popular for contractors
- · Ultimate sturdiness with concrete



Diamond Plate "Thick Profile" Open Riser

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









CHOOSE YOUR RAILING TYPE







Revised: 9/15/2025









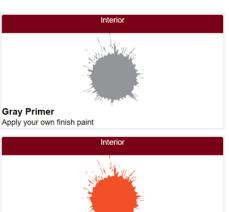


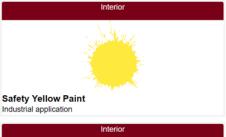


Smart Solutions

CHOOSE YOUR COATING

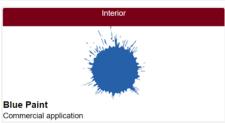
You are choosing the coating for the entire stairway package including the railing.



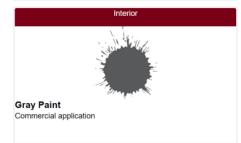












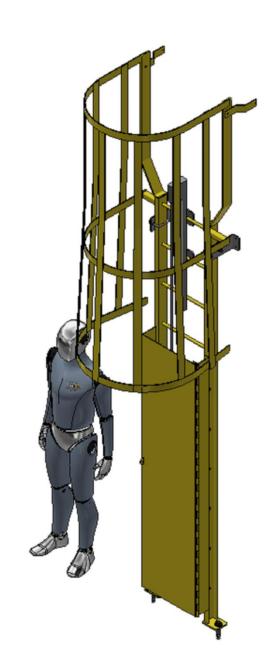






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W

Beam

Product Description

 6 different types of columns are used for a variety of applications:

Tube

Gusseted

Tube

- Cranes
- Mezzanines

Gusseted

Pipe

Fall Protection

Columns

Unbraced	Braced	Unbraced	Unbraced	Unbraced	Braced
2 Tone Paint	2 Tone Paint	2 Tone Paint	Height: 20′ – 30'	Max Height: 20'	

Tapered Box

Tapered Beam

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.

Footer Size (ft)	Kips	Thickness (in.)	3/4" (#6) Rebar
L/B		Н	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

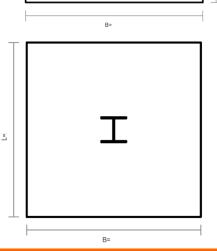
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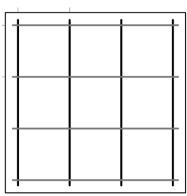
Tekla

Structures



Revised: 9/15/2025





B =Footing Width

 $L = ext{Footing Length}$ $H = ext{Footing Thickness}$

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.





ClearCalcs

Column Footing



Concrete Footer Install Process:

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

Cranes

Fall Protection

Finish











Revised: 9/15/2025







Column Footing



Monolithic Concrete Footer Install Process:

- Excavation
- Place Rebar

Cranes

- 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



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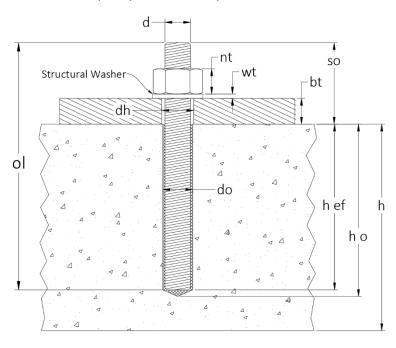
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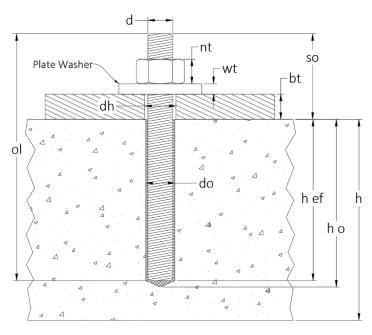
Form ID: EP1

Epoxy Anchor Specs



Form ID: EP2

Epoxy Anchor Specs

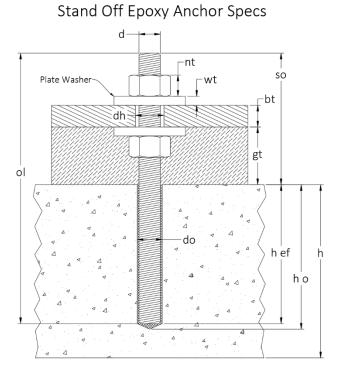




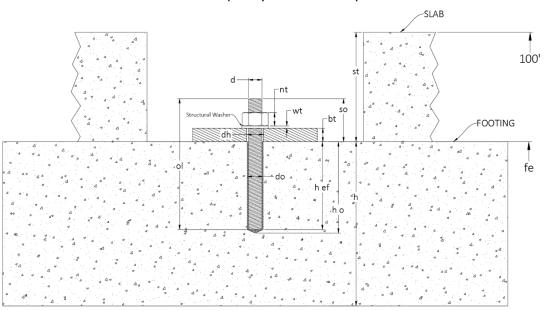


Fall Protection

Form ID: EP3



Form ID: EP4
Recessed Epoxy Anchor Specs



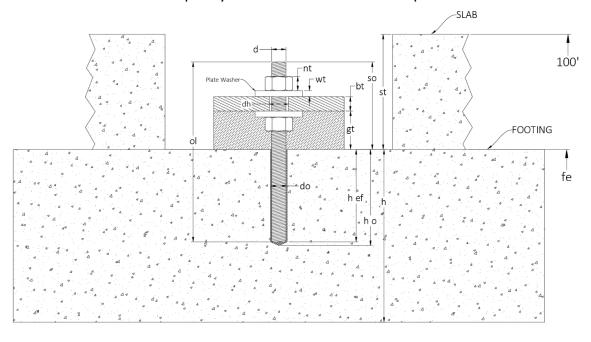






Form ID: EP5

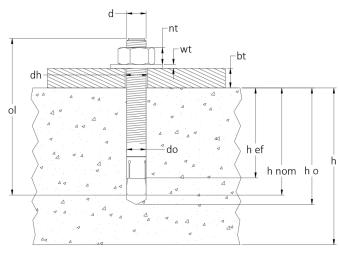
Recessed Epoxy Stand Off Anchor Specs

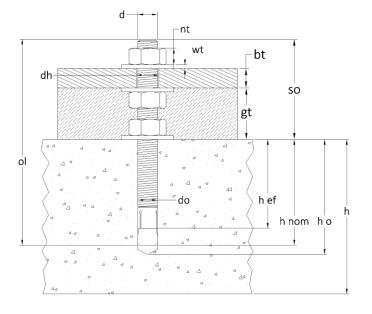


Form ID: WE2

Stand Off Wedge/Expansion Anchor Specs



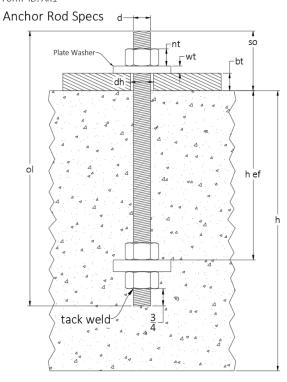




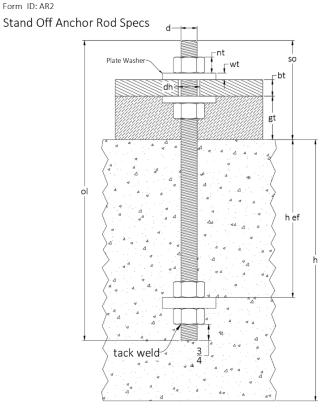




Form ID: AR1



Form ID: AR2

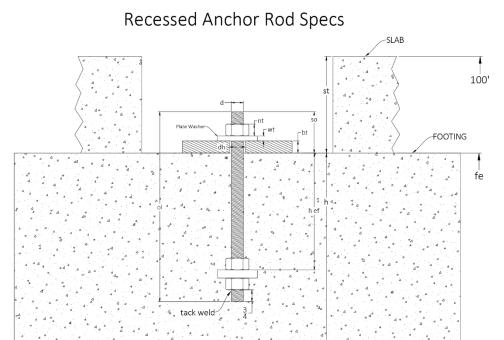


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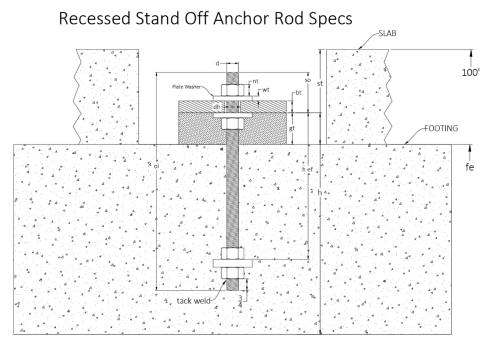




Form ID: AR3



Form ID: AR4



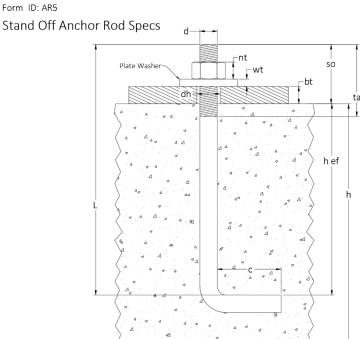
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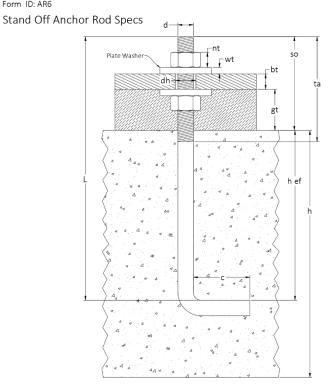


Column Anchors





Form ID: AR6

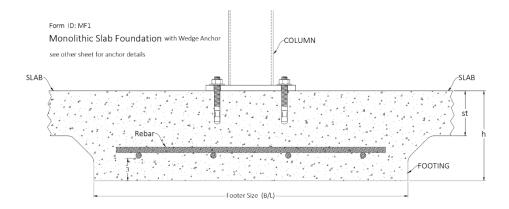


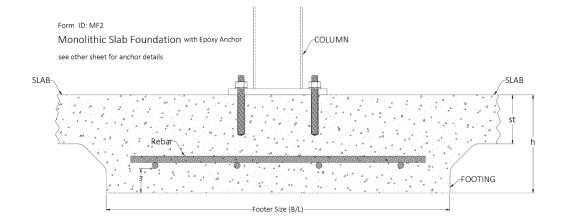


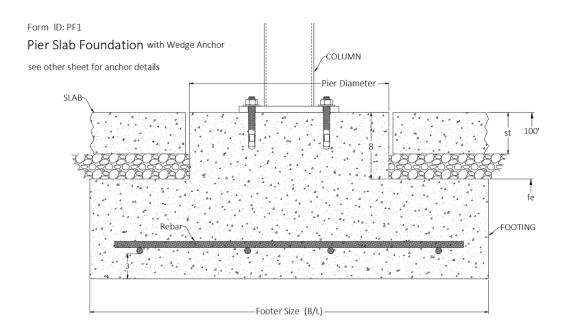


Column Anchors













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:

- a. Ensure the steel column with setting nuts and the wood formwork are in place and properly aligned.
- b. 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:

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

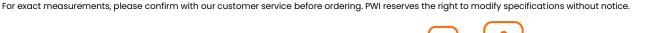
3. Placing the Wood Formwork:

- a. Set up the wood formwork around the base of the steel column to create a containment area for the grout.
- b. 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:

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

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Product specifications and dimensions are approximate and for informational purposes only. Variations may occur due to design or manufacturing adjustments.

Column Grout



5. Positioning the Steel Column Base Plate:

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

6. Shimming (if necessary):

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

7. Curing:

- a. 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.
 - b. Curing time can vary, but typically it takes a few days to achieve full strength.

8. Final Inspection:

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

9. Remove Wood Formwork:

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

10. Clean Up:

a. 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.







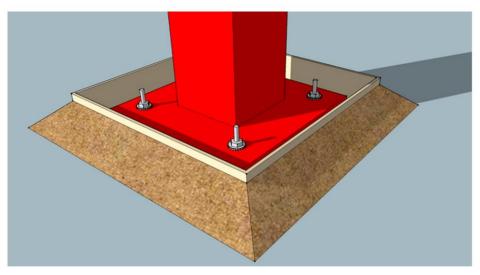
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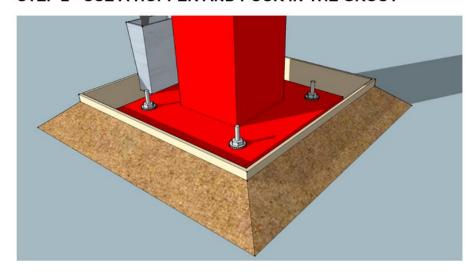






This can be done using timber with a sand haunching to keep it in place while the non-shrink grout is poured. Leave space around the perimeter, so the grout can be seen emerging from the opposite side and rise to the level required.

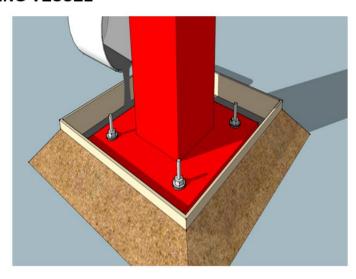




Pour the non-shrink grout into a hopper. Do not move the hopper and pour from any other location, because this can lead to air-pockets forming beneath the plate, meaning the loading from the steel will not be transferred evenly to the structure beneath. A hopper is especially useful if the baseplate 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.

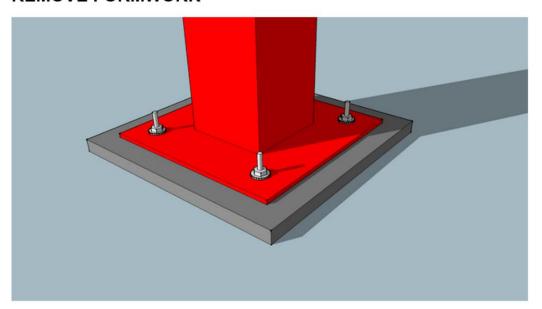






When pouring the non-shrink grout directly from the mixing vessel it is important to pour from one point only. Moving position while pouring can lead to air pockets forming beneath the baseplate. This means that load will not be transferred evenly through to the structure below.

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



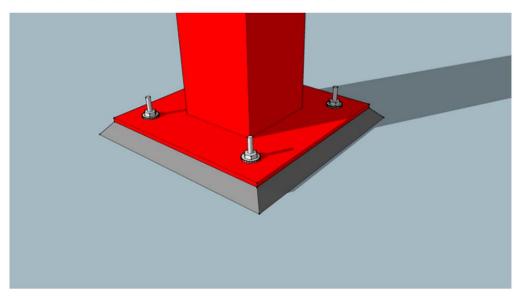
Once the non-shrink grout has gone off enough, remove the formwork.

Revised: 9/15/2025



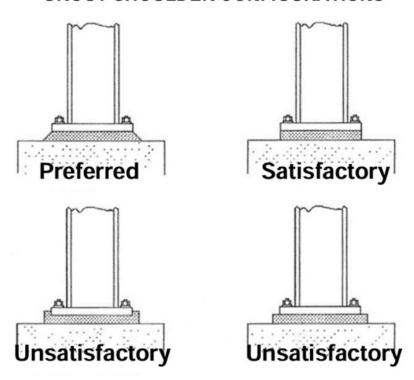


STEP 4 - CHAMFER OFF CORNERS ON EXPOSED EDGES



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

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

<u>YIELD</u>

 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 Morter
- US Army Corps of Engineers (COE) CRD-C 621 Specification for Non-Shrink Grout

Revised: 9/15/2025

DIVISION 3

03 62 00 Non-Shrink Grouting



- 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 $73.5\,^{\circ}\text{F} \pm 3.5\,^{\circ}\text{F}$ (23.0 $^{\circ}\text{C} \pm 2.0\,^{\circ}\text{C}$), 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



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.

CHRING

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 retempered
- . 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	<u>Volume</u>
Plastic	4-1/2 qt (4.3 L)
Flowable	5 qt (4.7 L)
Fluid	5-1/2 at (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.

Revised: 9/15/2025

TABLE 2 TYPICAL PHYSICAL PROPERTIES AT 73.5 °F (23 °C)
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TABLE 2 TYPICAL PHYSICAL PROPERTIES A	1 /3.5 °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	0000 (00.1)
@ 1, 3, 7 & 28 days	0.0 to 0.2%
Height change, ASTM C827	0.0 to 0.270
Treight change, AOTM CO27	0.3%
Consistency	Fluid
Consistency 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	0.01.000/
@ 1, 3, 7 & 28 days	0.0 to 0.2%
Height change, ASTM C827	0.00/
	0.8%





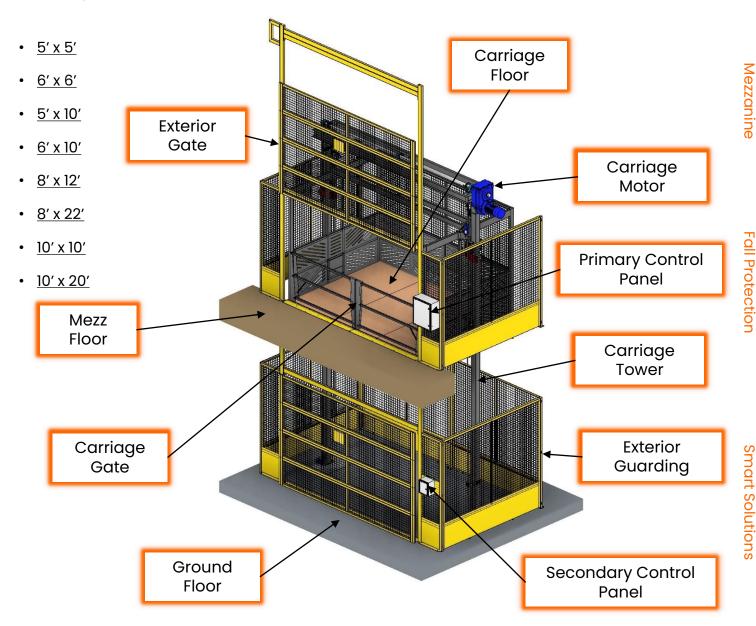




Product Description

- 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:



APEX

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Fall Protection

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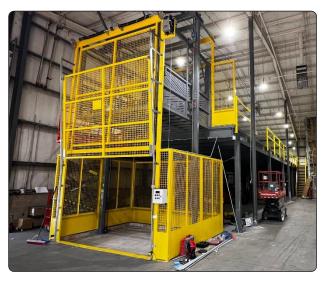
Product Features

- 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





Revised: 9/15/2025











Fall Protection

Smart Solutions



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

Secondary Control Panel



Primary Control Panel



Revised: 9/15/2025

APEX





VRC Carriage Gate Options

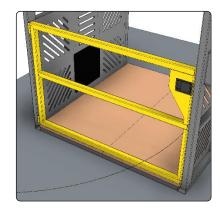


Product Description

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

Swing Gate

- Max Opening: 6'
- Latch System

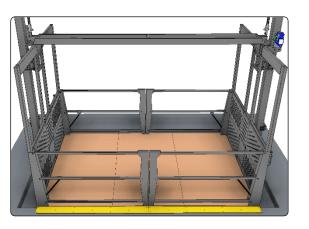


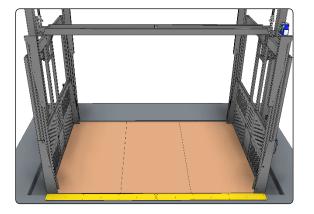
Rail Rod Gate

Fall Protection

Smart Solutions

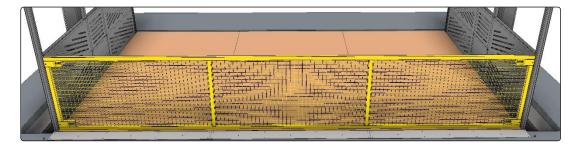
- Max Opening: 12'
- · Air Assist Cylinders





Vertical Gate

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



Revised: 9/15/2025

APEX



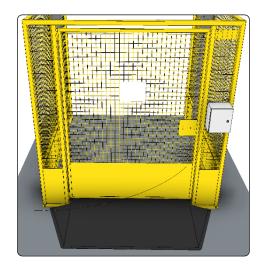


VRC Exterior Gate Options



Product Description

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



Single Panel Vertical Gate

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

Swing Gate

- Max Opening: 6'
- Latch System

Multi Panel Vertical Gate

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



Revised: 9/15/2025

APEX





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.

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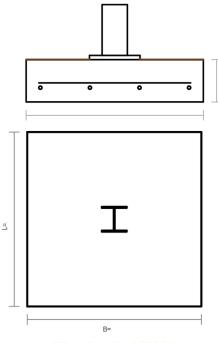
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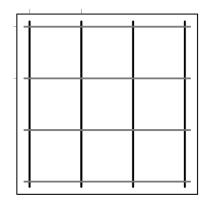
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B =Footing Width

L= Footing Length

H = Footing Thickness





APEX





VRC Column and Footer



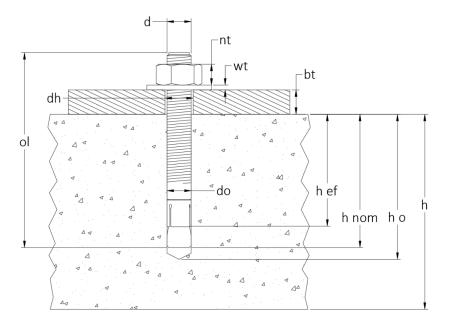
Product Description

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

Wedge



Form ID: WE1
Wedge/Expansion Anchor Specs



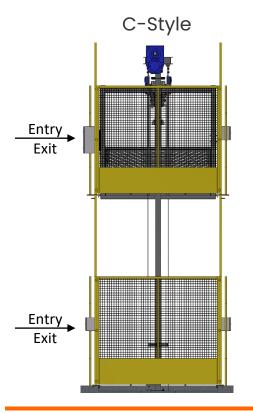
APEX

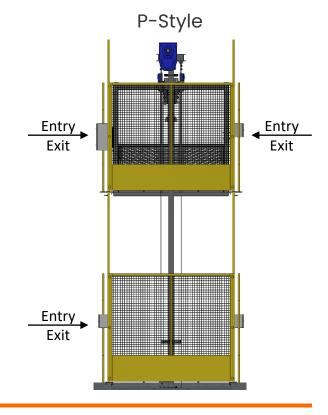


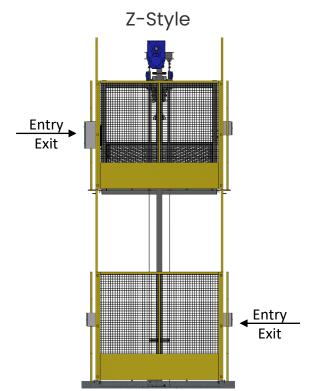


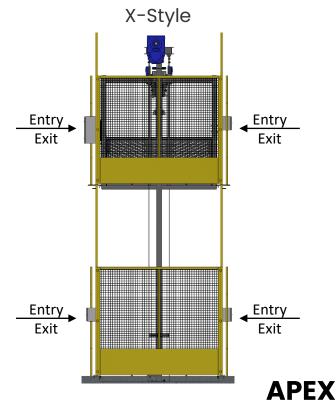
VRC Entrance Configurations











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Smart Solutions

5'x5' VRC



Product Information

PWSG0505 Model:

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

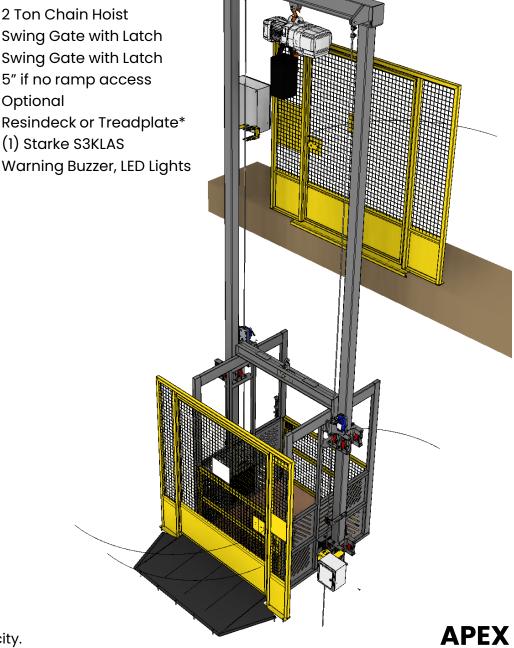
Concrete Pit Depth:

Optional Ramp Access:

Floor Type: Resindeck or Treadplate*

Fall Protection: (1) Starke S3KLAS

Optional Features: Warning Buzzer, LED Lights



*Treadplate reduces capacity.

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Product Information

• Model: PWLT0606

Carriage Size: 6' x 6' (inside dimensions)

Lifting Capacity: 2,500 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

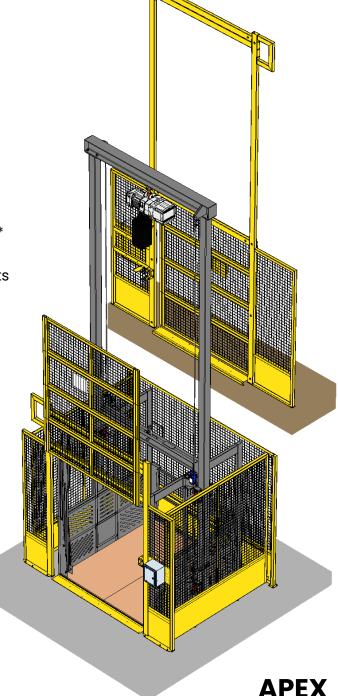
Concrete Pit Depth: 5" if no ramp access

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#

Power Supply Options: 20 AMP @ 480VLifting 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

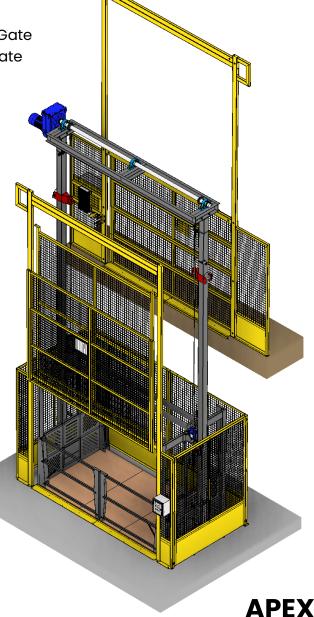
Multi Panel Motorized OHGate

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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Product Information

Model: PWSD0610

Carriage Size: 6' x 10' (inside dimensions)

Lifting Capacity: 2,500#

Power Supply Options: 20 AMP @ 480VLifting 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

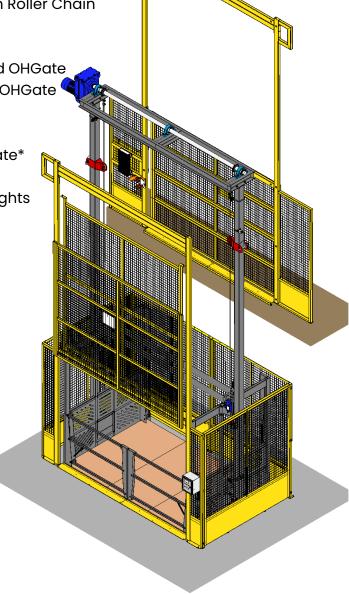
Concrete Pit Depth: 5"
Ramp Access: No

Fall Protection

Floor Type: Resindeck or Treadplate*

• Fall Protection: (2) Starke S3KLAS

• Optional Features: Warning Buzzer, LED Lights



APEX

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Product Information

• Model: PWSD0812

Carriage Size: 8' x 12' (inside dimensions)

Lifting Capacity: 2,500#

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

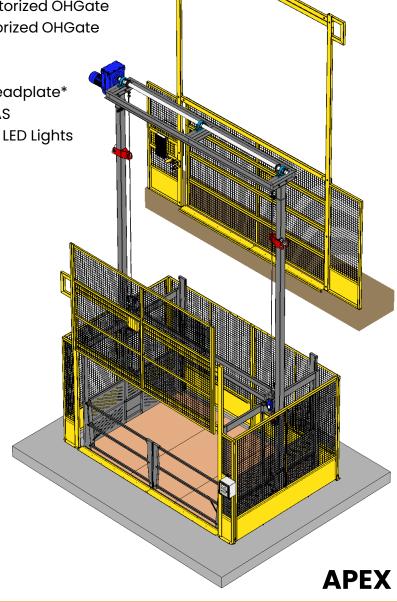
• Concrete Pit Depth: 5"

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

Load Limiter:



Product Information

Model: PWSD1010

Carriage Size: 10' x 10' (inside dimensions)

Lifting Capacity: 2,500#

Power Supply Options: 20 AMP @ 480V
Lifting Speed: 20fpm (with VFD)

Lifting Type: 7.5 HP Gear Motor with Roller Chain
 Carriage Door Options: Railroad Gate

Vertical Gate

Load Cell

• Exterior Door Options: Single Panel Motorized OHGate

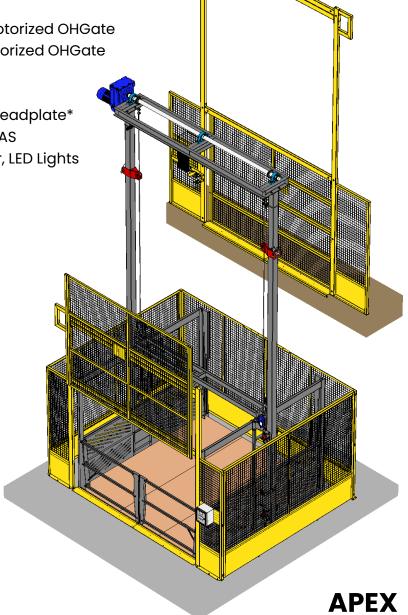
Multi Panel Motorized OHGate

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

PWHD0822 Model:

Carriage Size: 8' x 22' (inside dimensions)

Lifting Capacity: 2,500#

Power Supply Options: 30 AMP @ 480V Lifting Speed: 20fpm (with VFD)

Load Limiter: Load Cell

15 HP Gear Motor with Roller Chain Lifting Type:

Carriage Door: Vertical Gate

Single Panel Motorized OHGate Exterior Door Options:

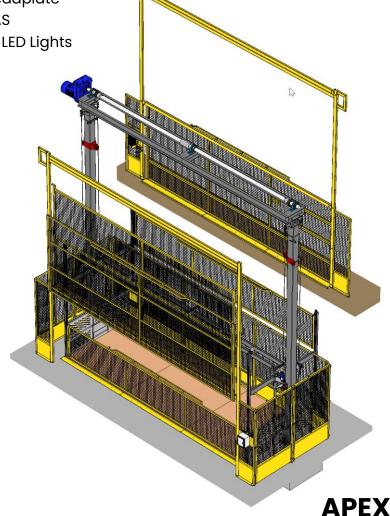
Multi Panel Motorized OHGate

14" Concrete Pit Depth: 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 @ 480VLifting 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

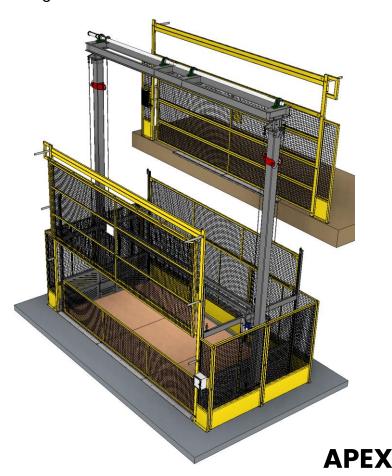
Concrete Pit Depth: 14"Ramp Access: No

Mezzanine

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



- <u>307 Series Fall Protection</u>
- 310 Series Fall Protection
- Freestanding Fall Protection
- Column Mounted Roof Build Safety Arms
- Ceiling Mounted Roof Build Safety Arms
- Work Platform Info Diagram
- Work Platforms

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307 Series Stationary Fall Protection



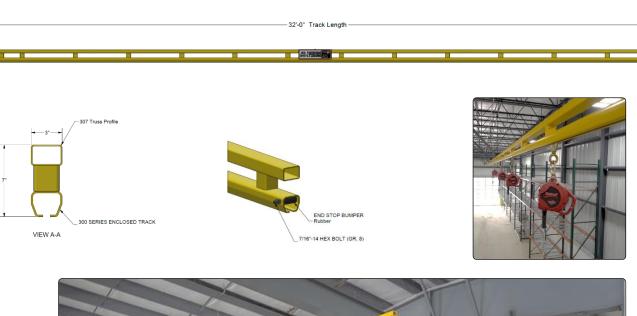
Product Description

- 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'

Fall Protection

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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Freestanding Fall Protection



Product Description

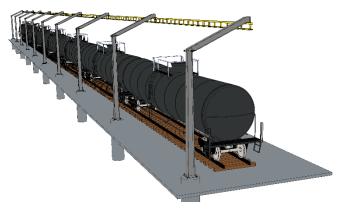
Series: Exterior Enclosed Track

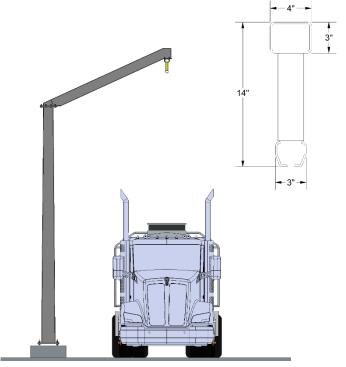
Capacity: 2 Persons

Span: **50'**

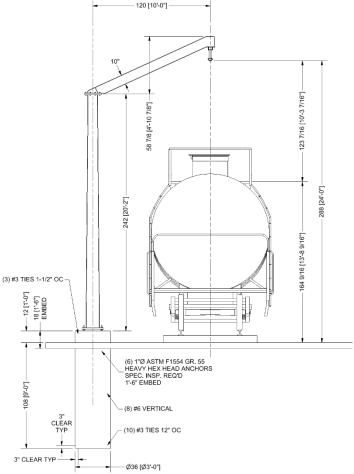
be capable of supporting 5000# for each employee OR 1910.140(c)(13)(ii) designed, installed, and used, under the supervision of qualified person, as part of a complete personal fall protection system that maintains a safety factor of at least two. Utilizing a self-retracting lifeline with a Maximum Average 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 2man system for 2160# (which includes the safety factor of 2). 1800 MAF + 1 man (310#) + tools (50#) = 2160 lbs.

OSHA 1910.140(c)(13)(i) requires that an anchorage point





Revised: 9/15/2025







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

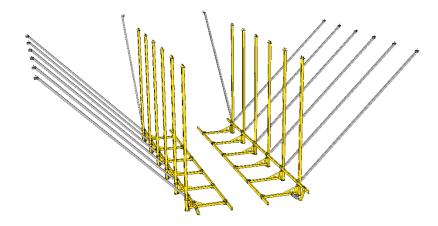


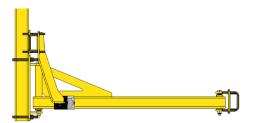
Product Description

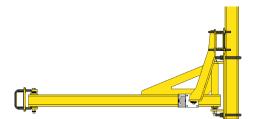
 Provides overhead protection during and after roof/ceiling manufacturing process for RV and modular home manufacturing. This allows workers to safely walk under the roof structure during the manufacturing or staging process.

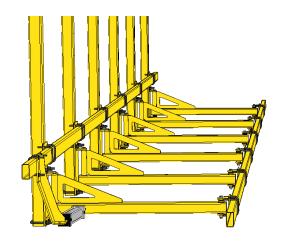
Product Features

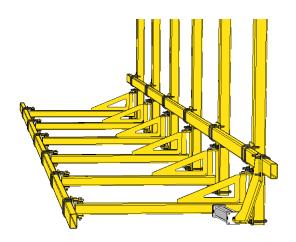
- · Ceiling Mounted
- Articulating Arms
- Remote Control











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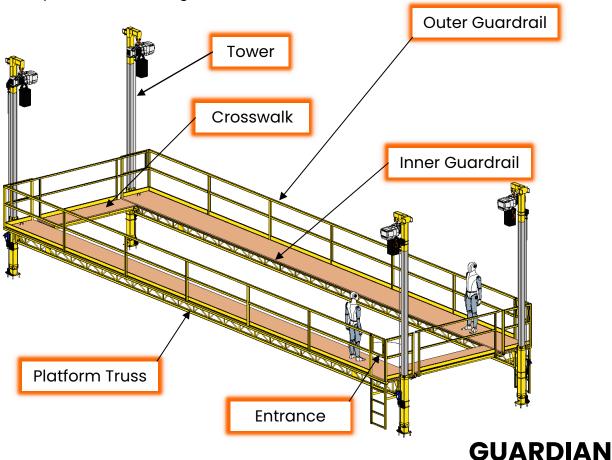
Work Platform Info Diagram

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: under platform LED lighting, electrical receptacles on platforms, Air Fittings



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Work Platform Design Form



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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	n	
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		

GUARDIAN

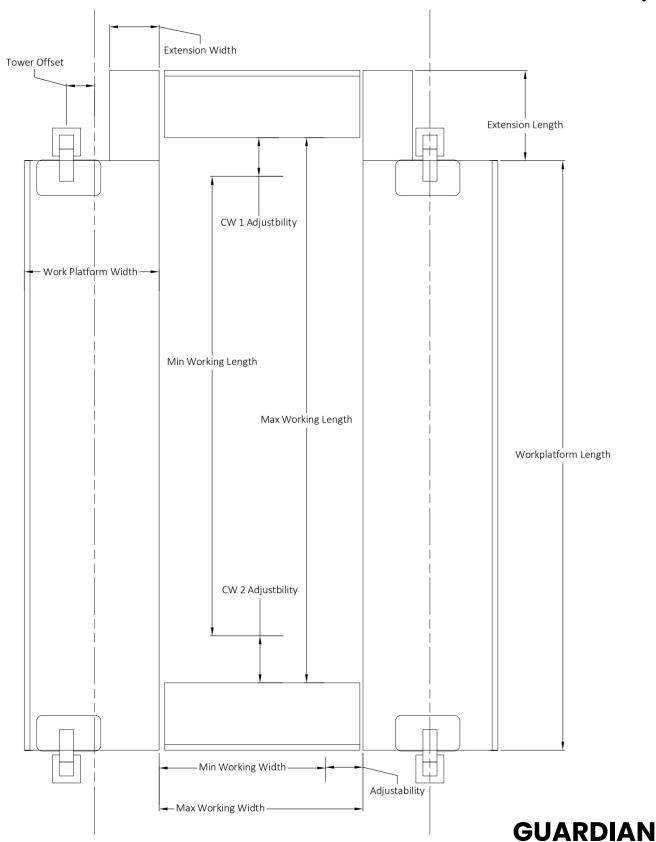
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Work Platform Design Form





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Work Platform Design Form



Smart Solutions

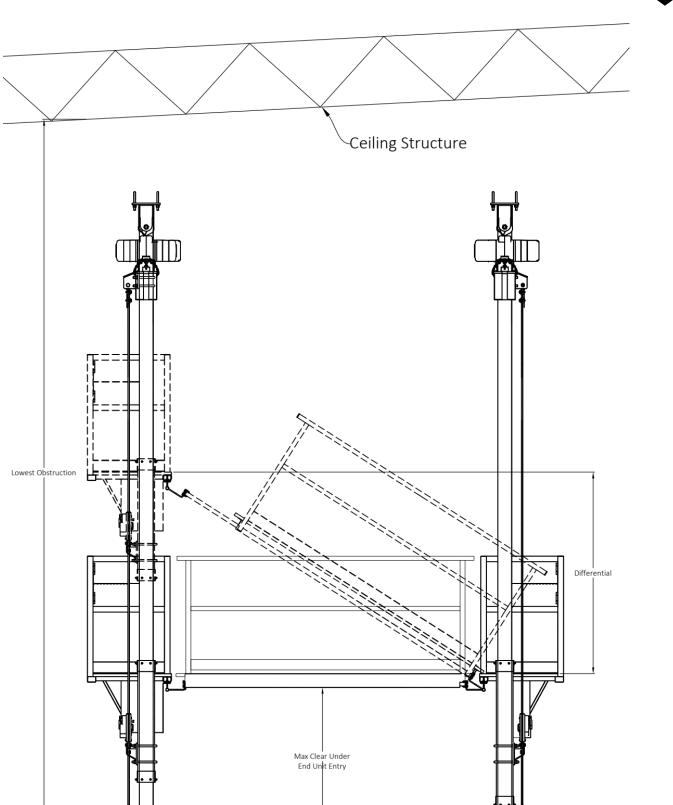
Overall Height Max Clear Under Side Unit Entry Work Platform Length

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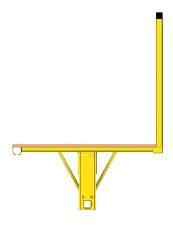
GUARDIAN

Work Platform Truss Options



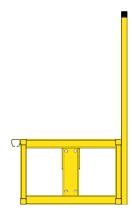
Triangular Truss

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



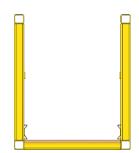
Box Truss

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



Open Truss

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



GUARDIAN





Work Platform Truss Options



Triangle Truss Single Work Platforms

-Single Work Platform

-Triangular Truss Design

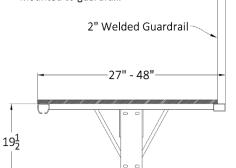
-Length: 0 - 56'

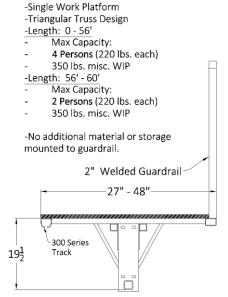
-Max Capacity:

2 Persons (220 lbs. each)

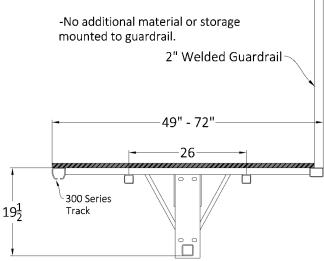
350 lbs. misc. WIP

-No additional material or storage mounted to guardrail.





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



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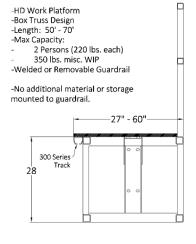
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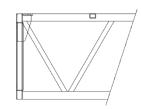


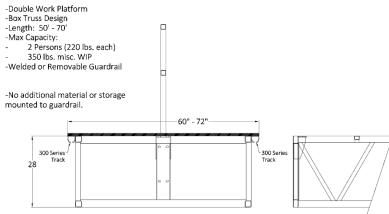


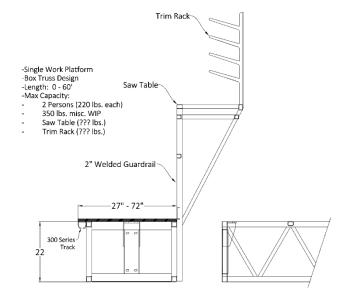
Box Truss Single Tower Work Platforms

Work Platform Truss Options









GUARDIAN

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Box Truss Double Tower Work Platforms

Work Platform Truss Options

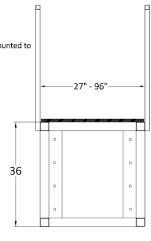
-Single Work Platform -Box Truss Design -Length: 60' - 90'

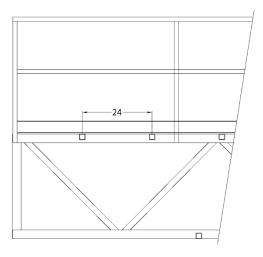
-Max Capacity:

4 Persons (220 lbs. each) 700 lbs. misc. WIP

-Welded or Removable Guardrail

-No additional material or storage mounted to





LOW HEADROOM OPTION

-HD Work Platform

-Box Truss Design

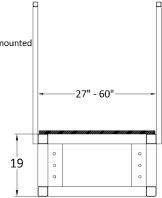
-Length: 50' - 62' -Max Capacity:

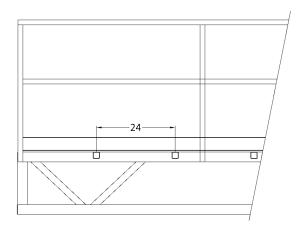
4 Persons (220 lbs. each)

700 lbs. misc. WIP

-Welded or Removable Guardrail

-No additional material or storage mounted to guardrail.





GUARDIAN



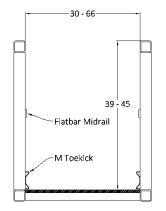


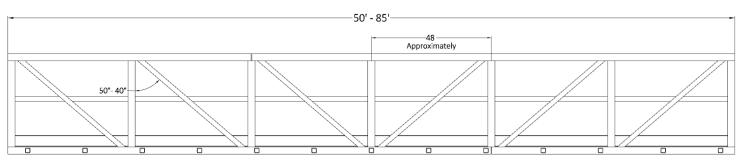
Work Platform Truss Options



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.





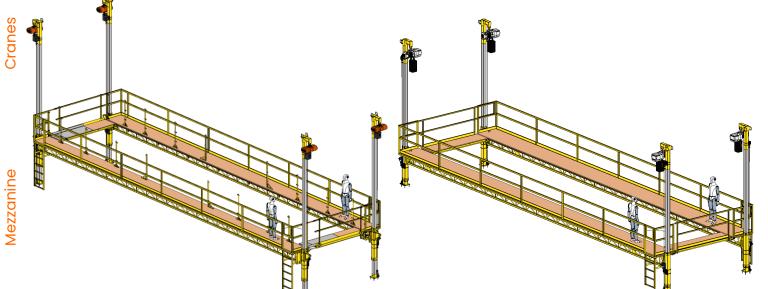
GUARDIAN

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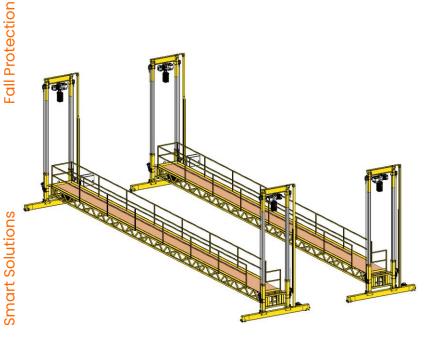




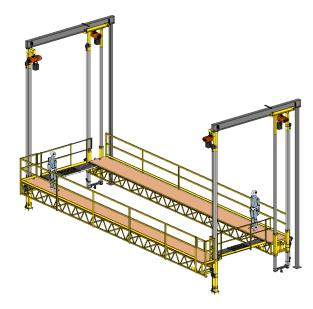


Standard Single Tower

Reversed Single Tower



Rolling Tower



Suspended Tower

GUARDIAN





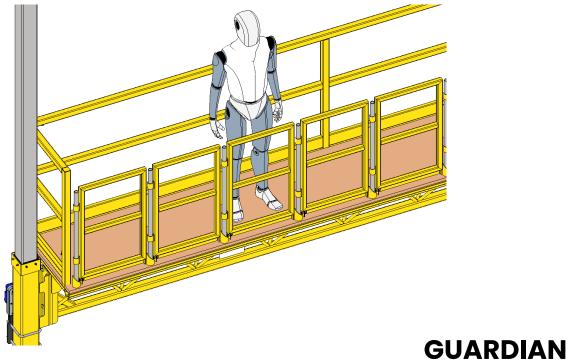
Product Description

- 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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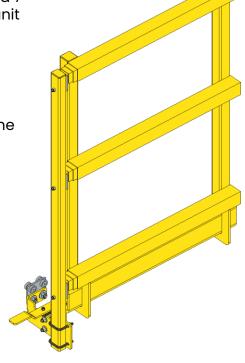


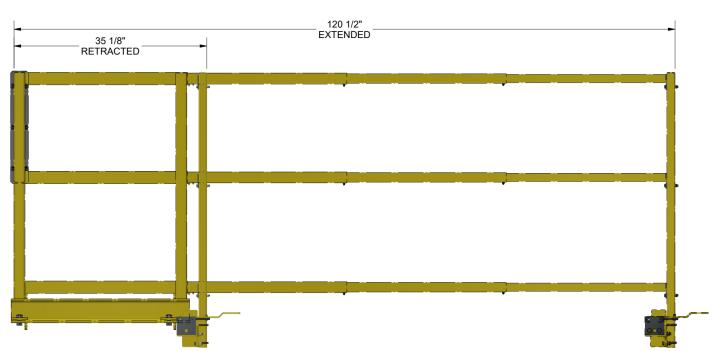
Product Description

- 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 work platform.
- · Work Platform Requirements
 - Width ≥ 36"
 - 300 Series Track





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206





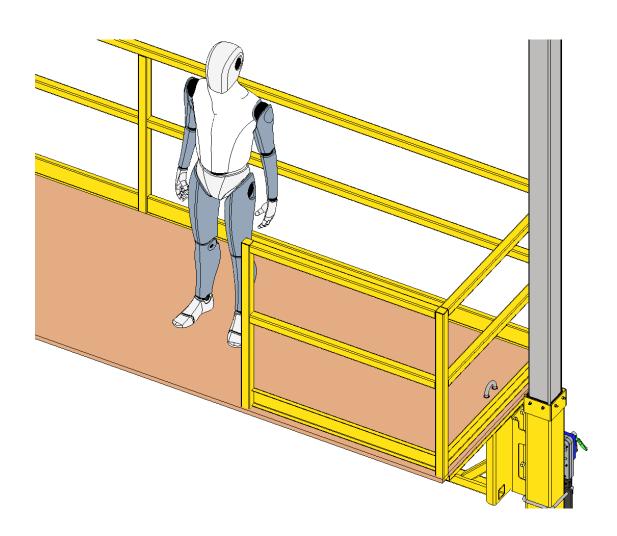


Product Description

- 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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Product Description

- Rachet 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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Smart Solutions

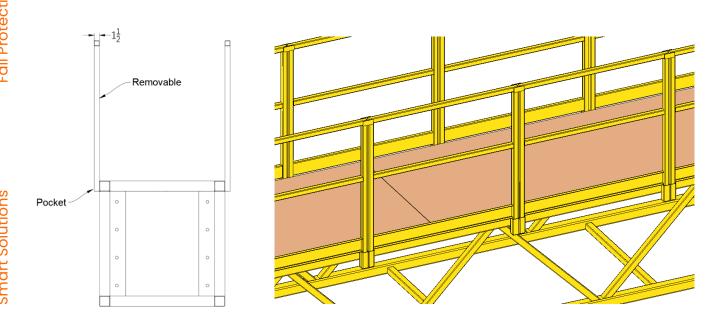


Product Description

- · 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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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'



GUARDIAN





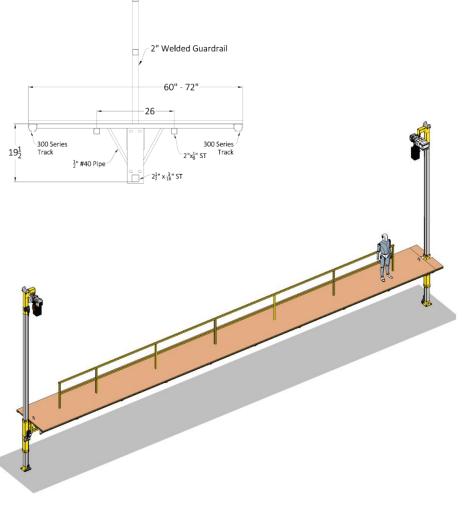


Product Description

- · 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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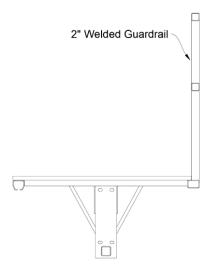






Product Options

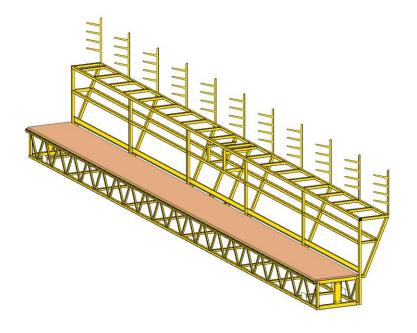
- · Standard welded guardrail
- Saw tables
- · Finger racks
- Airline guardrail

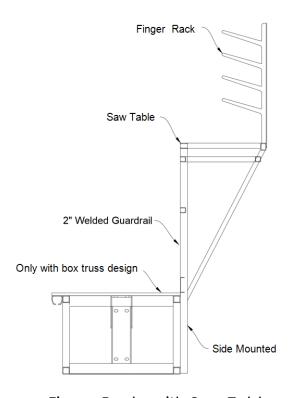


Standard Welded Guardrail



Airline Guardrail





Finger Racks with Saw Table

GUARDIAN

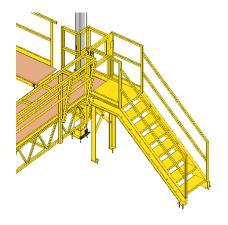


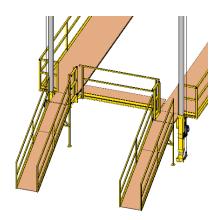


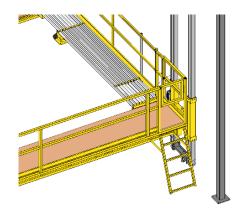
Work Platform Entrance Options

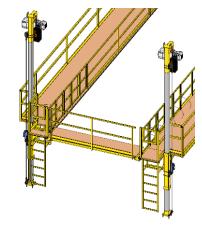
Product Options

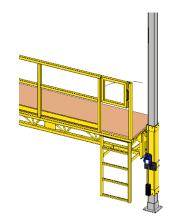
- Walk-on from Mezzanine
- Walk-on from Outrigger
- Walk-on from Stair
- Walk-on from Ramp
- Climb-on from Fixed Ladder
- · Climb-on from Telescoping Ladder











GUARDIAN



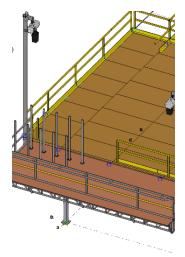


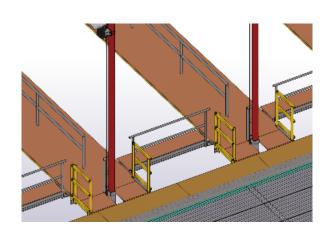
Work Platform Entrance Options

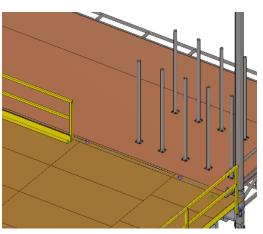


Walk-on from Mezzanine

Walk-on from Outrigger











Revised: 9/15/2025



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Material Platform

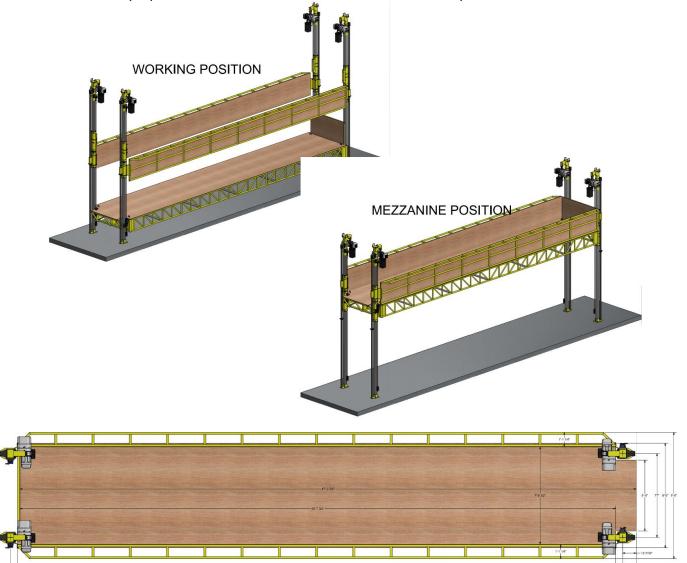


Product Description

 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



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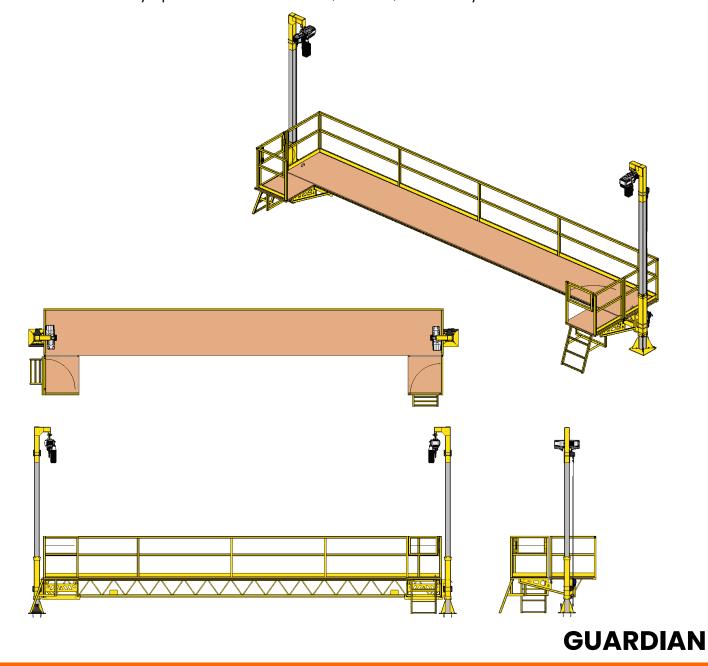
Single Work Platform

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

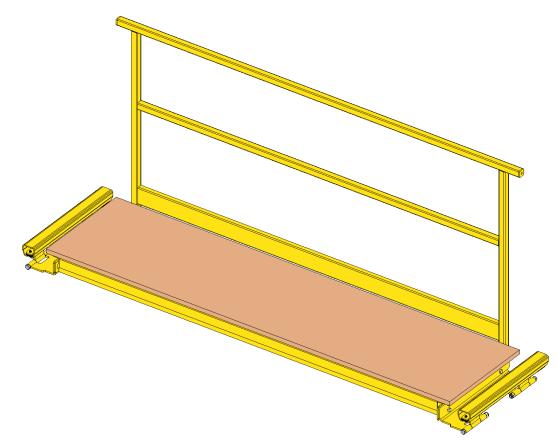


Product Description

- 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.
- Model #: SCW

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.
- Model #: ECW

Product Features

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

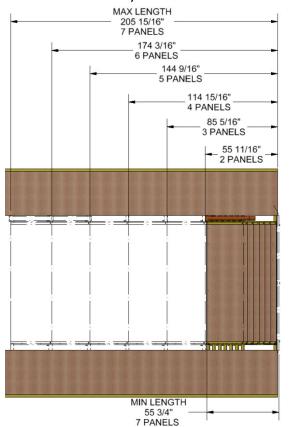


Diagram B

Diagram A

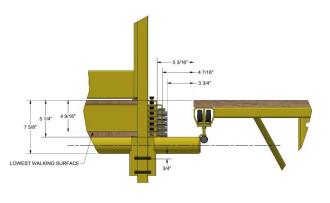


Diagram D

GUARDIAN Diagram C

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Expandable Crosswalk Hand Brake



Product Description

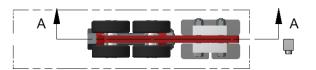
 PWI's Expandable Crosswalk Hand Brake allows the user to lock the Expandable Crosswalk in place, increasing work platform safety by preventing backward and forward movement of the cross walk.

Product Features

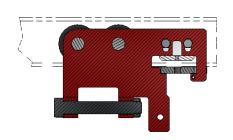
- Mountable on top or the side of the crosswalk
- · Cable braking system
- Durable
- Ergonomic design
- · Increases safety and productivity
- Crosswalk stability
- Easy to install
- Easy to maintain
- Product Dimensions 16"L x 3.4" W



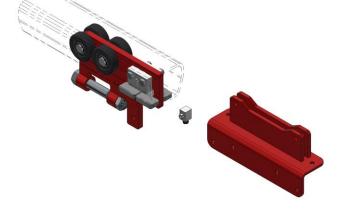








SECTION A-A



GUARDIAN





Telescoping Crosswalk

1

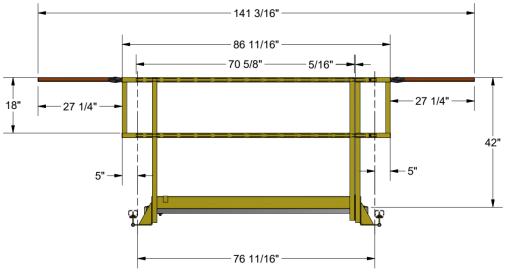
Product Description

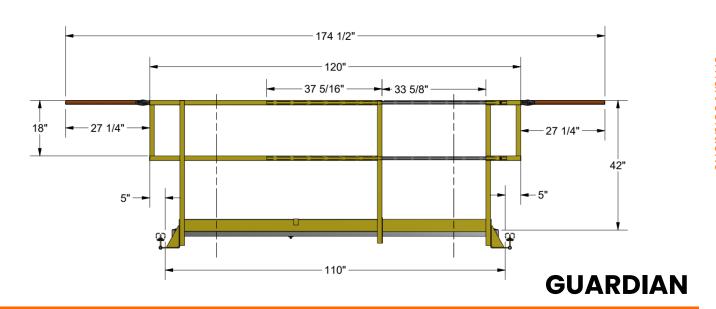
- Enables adjustability in the work platform's working area.
- Model #: TCW

Product Features

Modified Werner Planks







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220



Pivot Rail Crosswalk

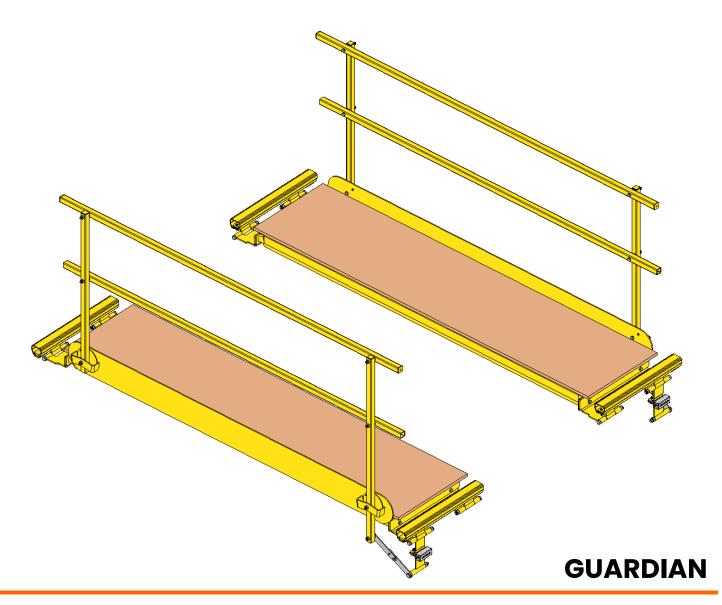


Product Description

- 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.
- Model #: PCW

Product Features

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



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Cantilever Crosswalk



Product Description

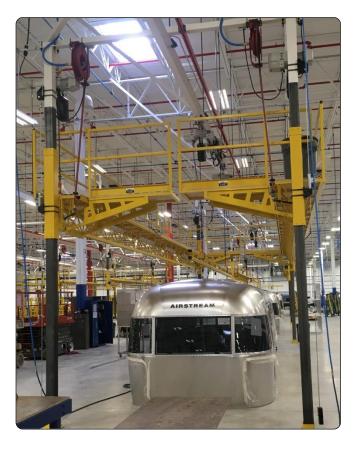
- A cantilever crosswalk can be used on a single platform to allow access around the front or back of a slide out. When used in a set a platforms, they allow the passage of a hoist chain between them while still a providing personnel access to both platforms.
- Model #: CCW

Product Features

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

Fall Protection

Smart Solutions





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Traveling Guardrail

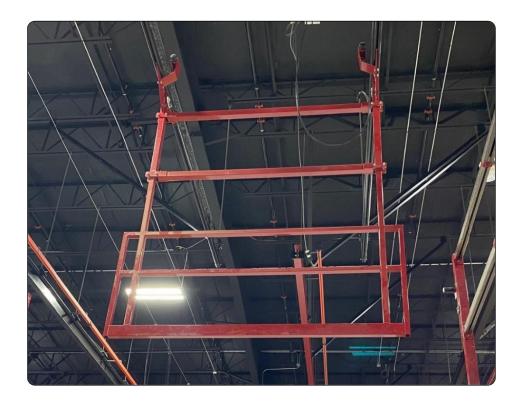


Product Description

- 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



- Frame Rotation
- Rolling Work Bench
- <u>Dolly Info Diagram</u>
- Dollies
- Paint Colors

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Torque - Frame Rotator



Product Description

• Model Number: 4K72R

• Power Supply: 480V 3Phase

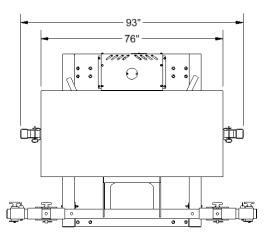
· Fully hydraulic system

· Functions:

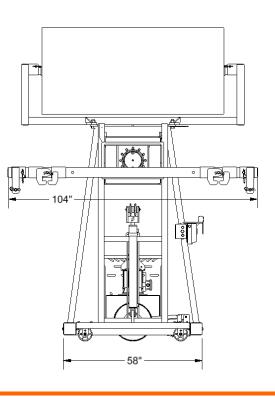
• Lift/Lower: 4,000 lbs.

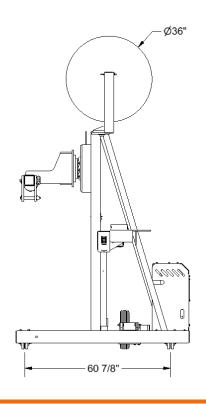
• Rotate: 2,000 lbs.

Unit Travel









TORQUE





Torque - Frame Rotator



Product Description

• Model Number: 6K72R

Power Supply: 480V 3Phase

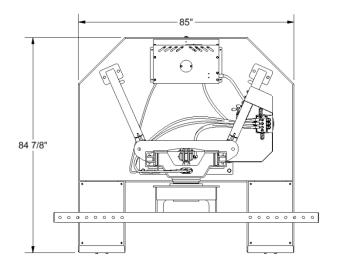
· Fully hydraulic system

· Functions:

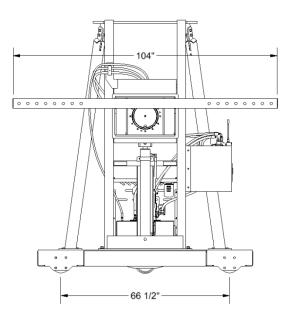
Lift/Lower: 6,000 lbs.Rotate: 4,000 lbs.

Unit Travel

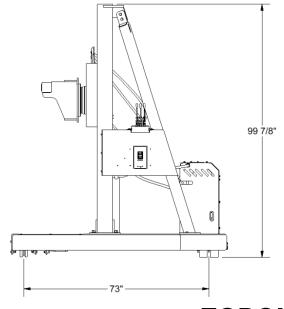
· Concrete filled base for counterweight stability







Revised: 9/15/2025



TORQUE





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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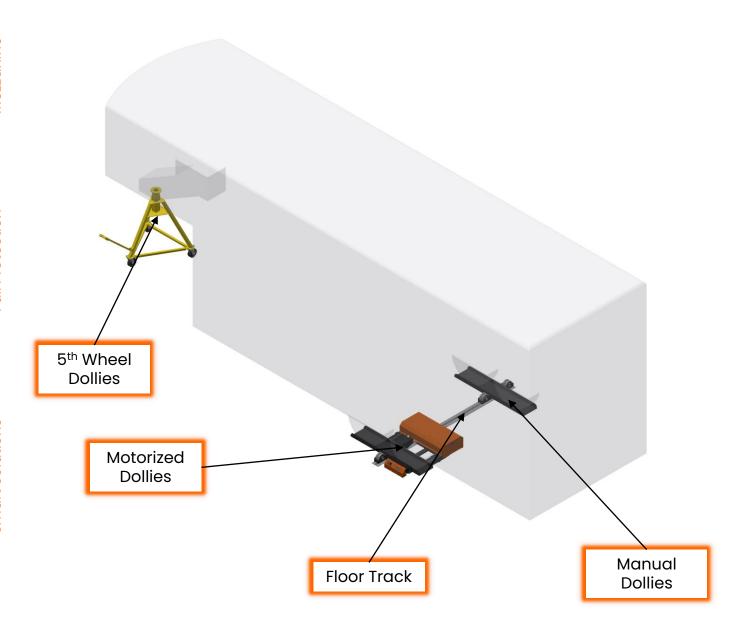


Dolly Info Diagram



Product Description

Dollies are typical for transportation ease of RV's and other large vehicles. Dollies can improve safety while also increasing efficiency. Our team will help you design or pick out the dollies best suited for you to meet your manufacturing workflow.







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

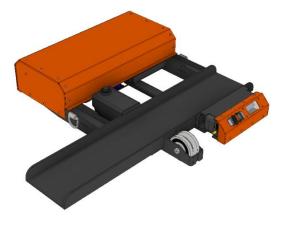


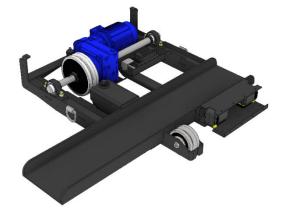


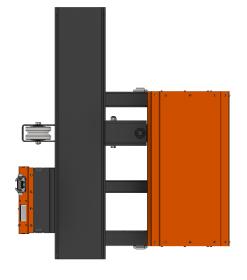






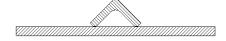






Revised: 9/15/2025





GLIDE





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











GLIDE

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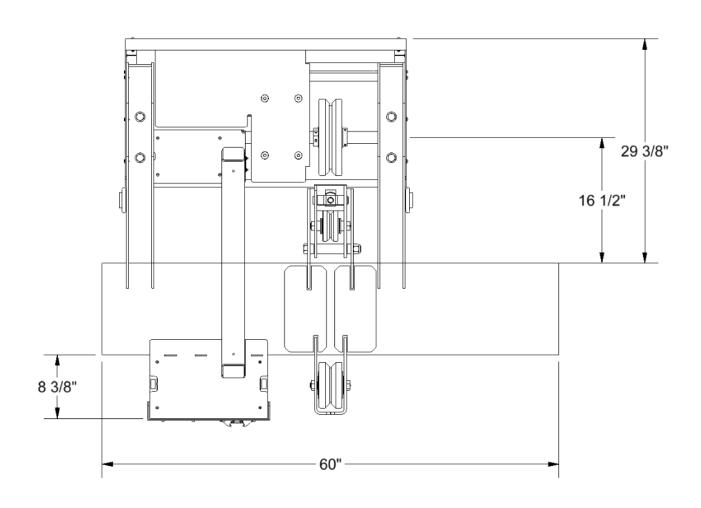




Motorized Towable Tandem Axle Dolly



10 5/16" 10 5/8" 6 7/16"



GLIDE





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

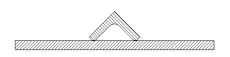












GLIDE

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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**



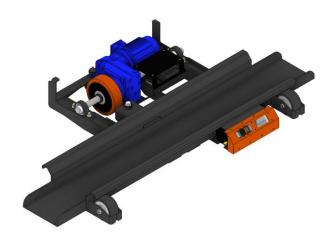




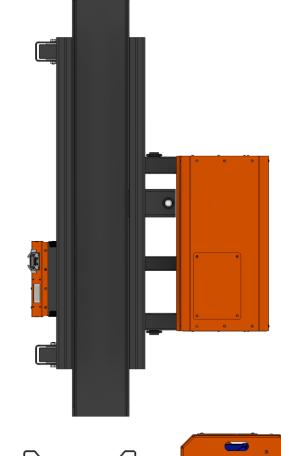








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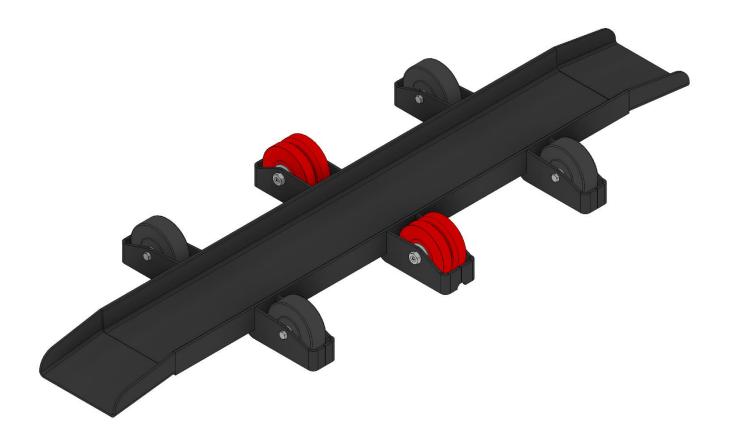


Manual Towable Tandem Axle Dolly



Product Features

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



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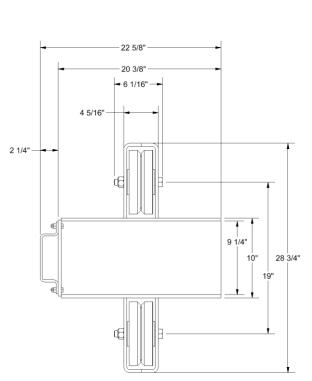


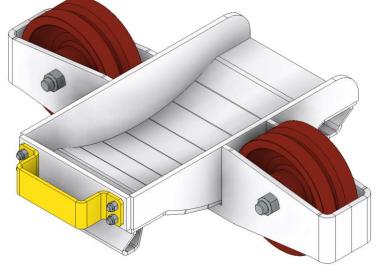
Aluminum Single Pocket Dolly

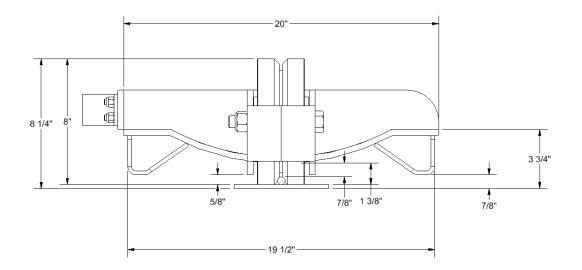


Product Features

- Aluminum for easy handling
- Angle iron or round bar floor track
- · V groove wheels







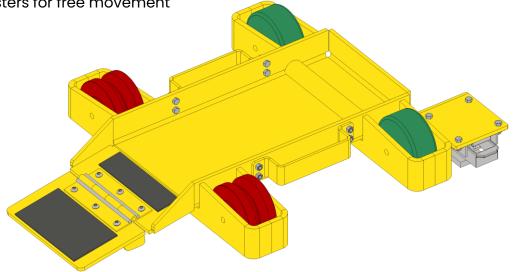


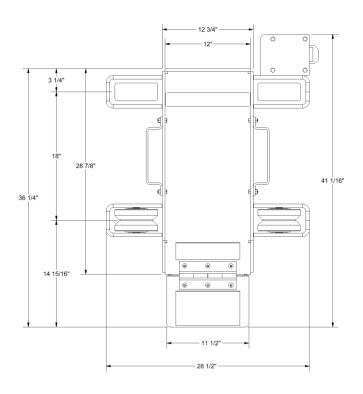
Manual Single Wheel Dolly



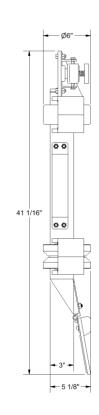
Product Features

- 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





Revised: 9/15/2025







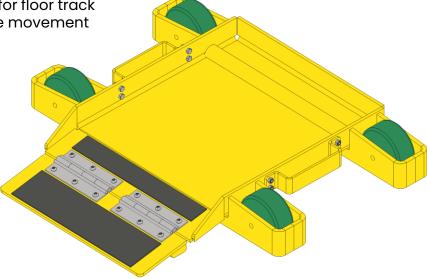
Manual Dual Wheel Dolly

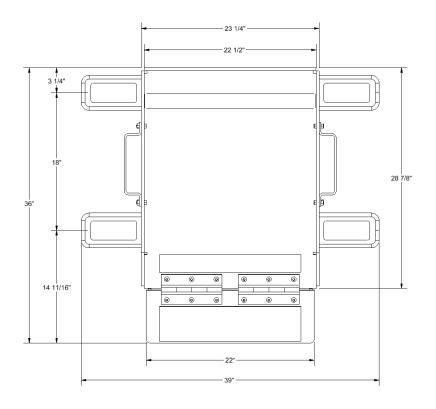


Product Features

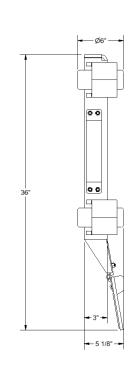
- · Manual operation
- · Configurable for different units
- Optional floor lock
- Caster Types
 - Cast iron V-Groove casters for floor track







Revised: 9/15/2025







Manual 5th Wheel Dolly

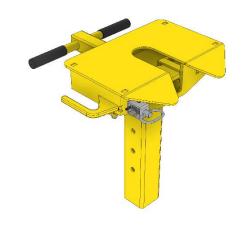


Product Features

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













Motorized 5th Wheel Dolly



Product Description

• Motorized RV Production Line Dolly

Product Features

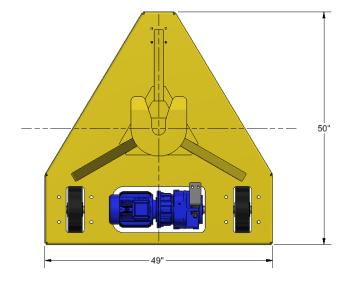
- Pendant Controlled
- DC Powered: (2) DeWALT Flex Volt Batteries
- Variable Speed Control
- Safety horn and strobe light during operation

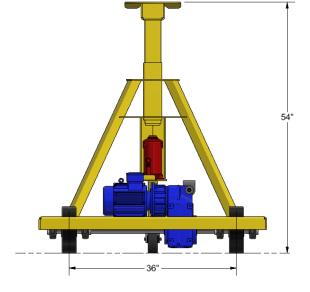


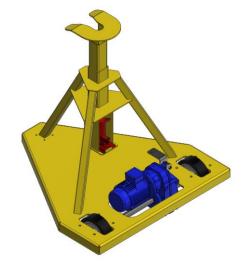


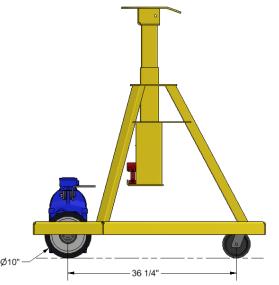












Product specifications and dimensions are approximate and for informational purposes only. Variations may occur due to design or manufacturing adjustments. For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.



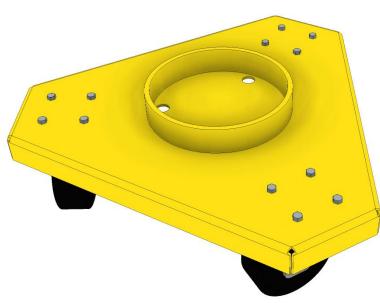


Front Fifth Wheel Jack Dolly



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

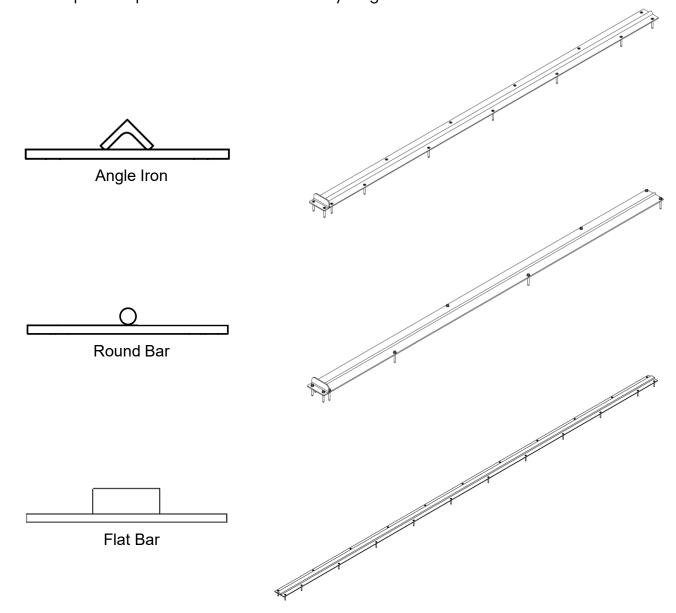


Product Description

• 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

- Floor Types: Wood or Concrete
- End Stops and splices to accommodate any length



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Motorized Dolly Lifter/Cart



Product Description

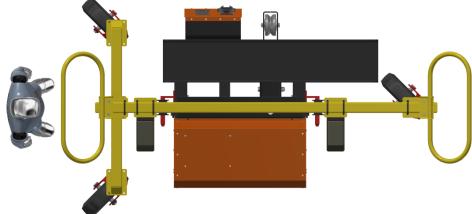
 Motorized RV Production Line Dolly Lifter/Cart



Product Features

• DC Powered: (1) DeWALT Flex Volt Battery







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For exact measurements, please confirm with our customer service before ordering. PWI reserves the right to modify specifications without notice.





Paint Colors



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...

Revised: 9/15/2025



