WEPCO, Inc. MATERIAL HANDLING SYSTEMS INTEGRATOR

WEPCO INNOVATIONS

SmartLifter™

GRIP • BALANCE • STACK

DESIGN GUIDE

Nobody in their right mind would use a vacuum lifter to lift a 5-gallon bucket of red paint . . .

UNTIL NOW.

Originally designed to lift boxes, SmartLifter now handles 5-gallon pails with ease.

Palletizing or de-palletizing 5-gallon pails that can weigh up to 50 lbs has always been a back breaker. Traditional vacuum lifters that grip the top of the pail can't be used because they might pull the top off, causing a mess, work stoppage, and possibly a hazard or injury.

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How SmartLifter Works

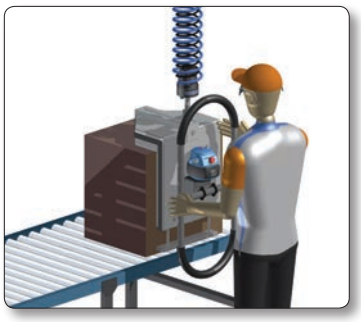
SOLVE PRODUCTIVITY PROBLEMS

- **Reduce worker strain, increase productivity**
- **Grip cartons that can't be lifted from the top**
- **Stack pallets more snugly**
- **Reconfigure production lines easily**
- **Handle all carton shapes**
- **Clean, virtually maintenance-free design**

Perfect for building pallets at the end of a line

FIELD TESTED

Workers appreciate SmartLifter's ergonomic, fingertip-pressure handle and the freedom of position, visibility and control it gives them. Even short operators can easily pack a 9-foot high pallet.



GRIP — SmartLifter's automated vacuum grips cartons or pails on one side, allowing for fingertip-pressure lifting and loading up to 9 ft. high pallets.

LIFT — SmartLifter works seamlessly as an 'end of arm tool' in conjunction with Gorbel's Easy Arm® G-Force®.

BALANCE — Exclusive SmartBalance technology adjusts automatically to steady an unbalanced load.

STACK — Pallets can be packed snugly since items are gripped on only one side. Product loss due to carton-top seal failure is also eliminated.

MOVE — Mounted on WEPCO's BigFoot portable base, SmartLifter is easily moved with a pallet jack or fork truck.

Mounted on monorail, underhung version serves multiple production lines.

SmartLifter™ is PATENTED

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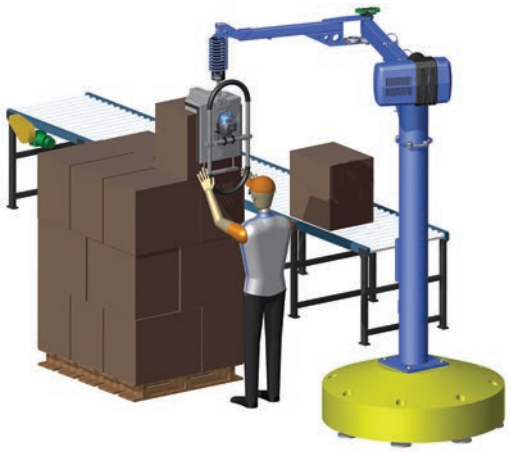
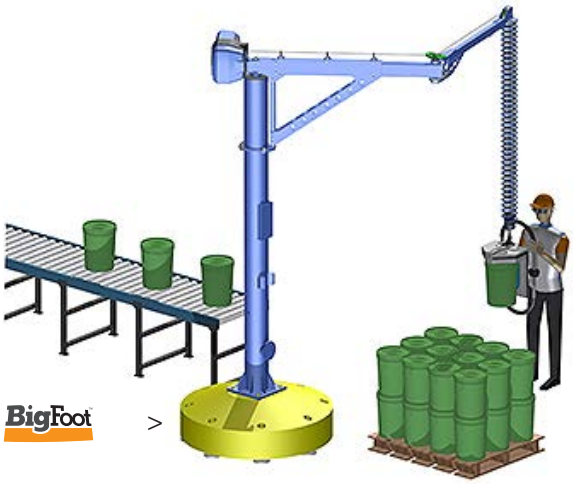
SmartLifter Applications





The new way to grip, lift, and stack cartons or pails

Automated vacuum carton picker grips, balances, and stacks with fingertip pressure. Perfect for building pallets at the end of a line. The BigFoot™ Portable Base shown with the SmartLifter is available separately for use with other lifting or robotic applications.

DETAILS

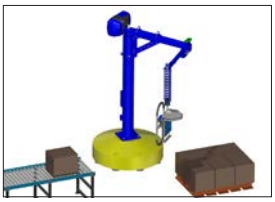
Composition: Aluminum, anodized finish

Rotation: 360º

Mounting: Mast-mounted to BigFoot™ portable base, underhung from monorail

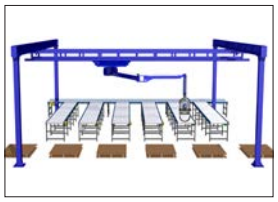
Reach: Boom length up to 12 ft.

Basic Configurations

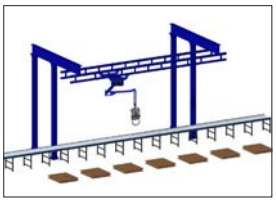


PORTABLE FREE-STANDING MAST-AND-ARM

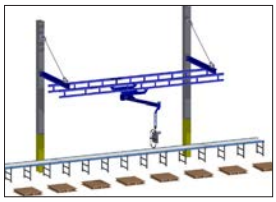
FLOOR-MOUNTED FREE-STANDING MAST-AND-ARM



FLOOR-MOUNTED FREE-STANDING UNDERHUNG DUAL-MONORAIL



FLOOR-MOUNTED CANTILEVER UNDERHUNG DUAL-MONORAIL



COLUMN-MOUNTED CANTILEVER UNDERHUNG DUAL-MONORAIL

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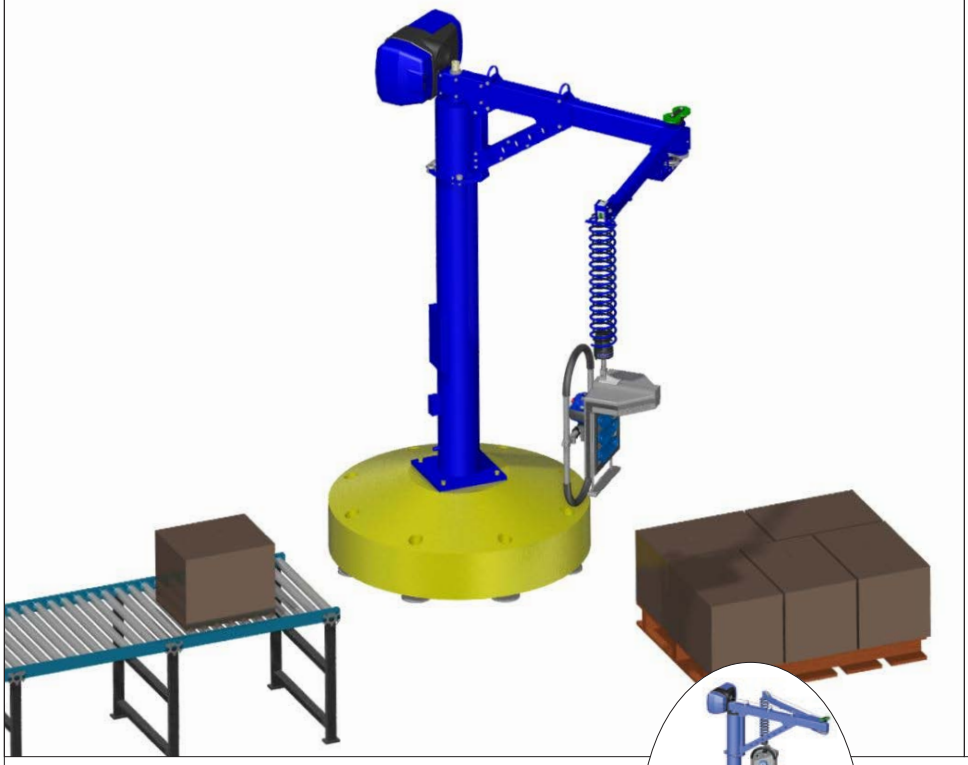
Portable Mast-and-Arm



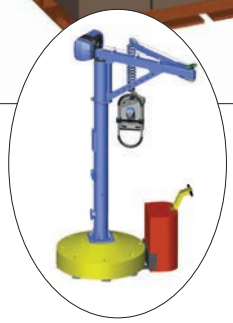
INCLUDES:

(1) 10ft EasyArm
(1) SmartLifter
(1) Portable Base

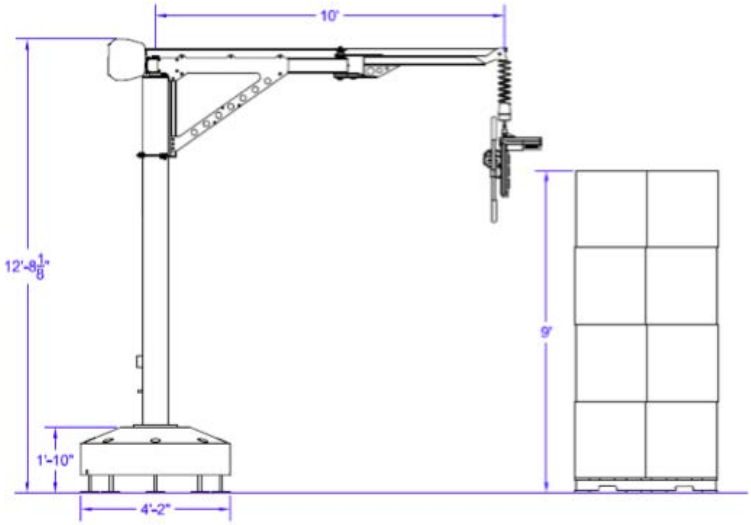
POWER:

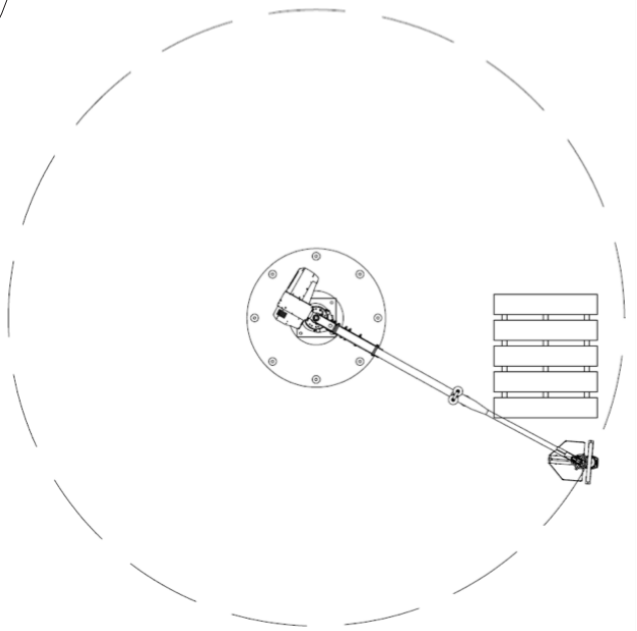
- 230V Single Phase
- 20 amp
- (120V Or 460V available)
- 25 CFM @ 100 PSI

Shipping Wt.: 3,100 lbs



BigFoot™ Portable Base is easily moved with pallet jack or fork truck





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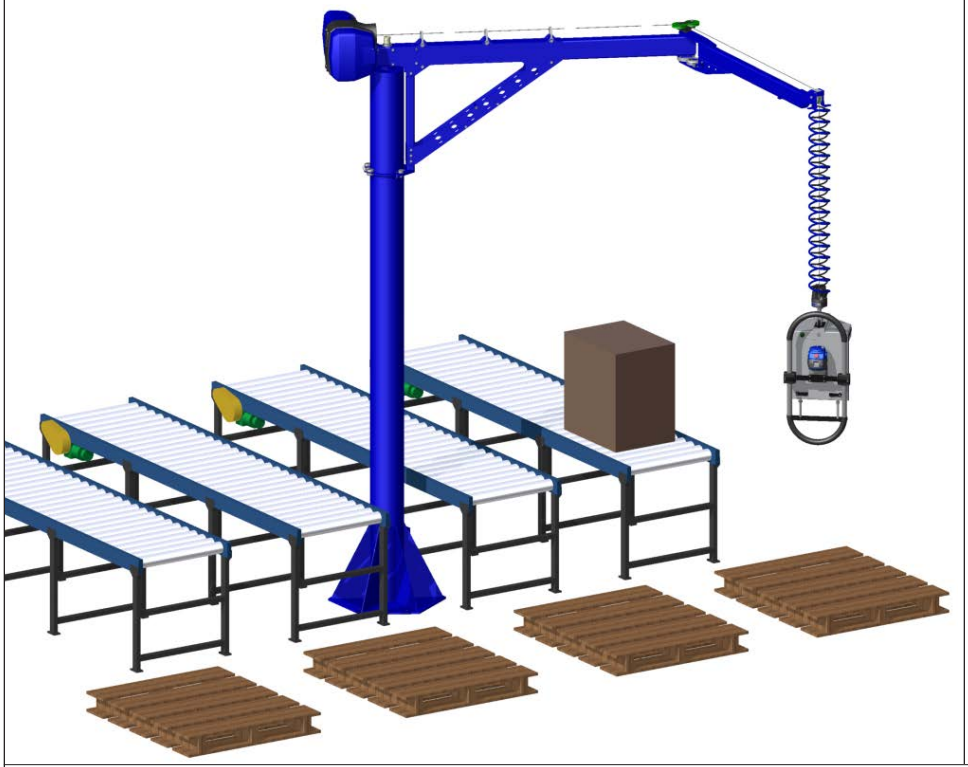
Floor-mounted Mast-and-Arm



INCLUDES:

(1) 12ft EasyArm
(1) SmartLifter

POWER:

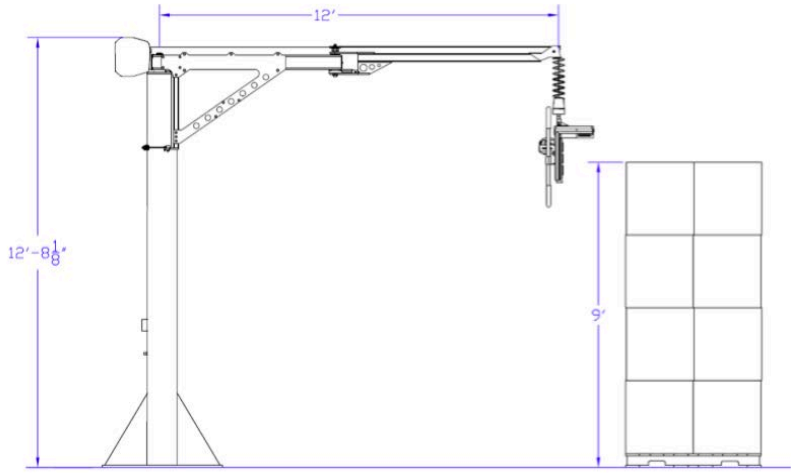
- 230V Single Phase
- 20 amp
- (120V Or 460V avail)
- 25 CFM @ 100 PSI

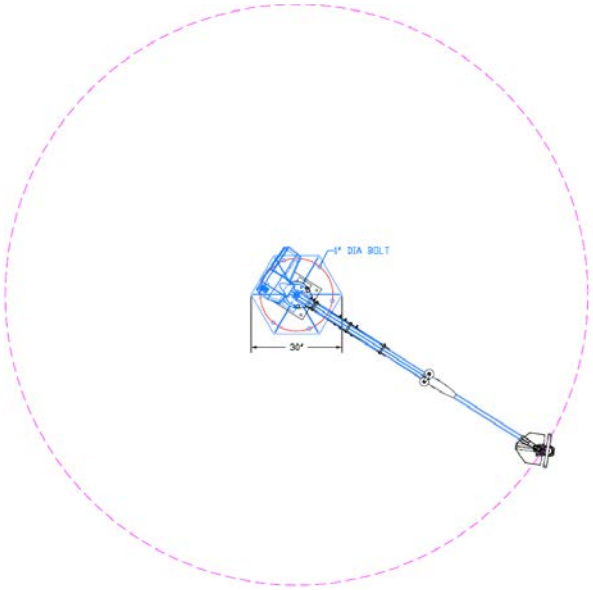
Shipping Wt.: 3,100 lbs

MAX DESIGN LOADS:

Overturning Moment: 4.4782 Kip-Ft
Axial Load: 0.6624 Kips
Anchor Bolt Load: 0.954 Kips

Floor Spec: 6" Concrete Min.
Anchor Spec: Chemical or Wedge anchors to a depth of 4"





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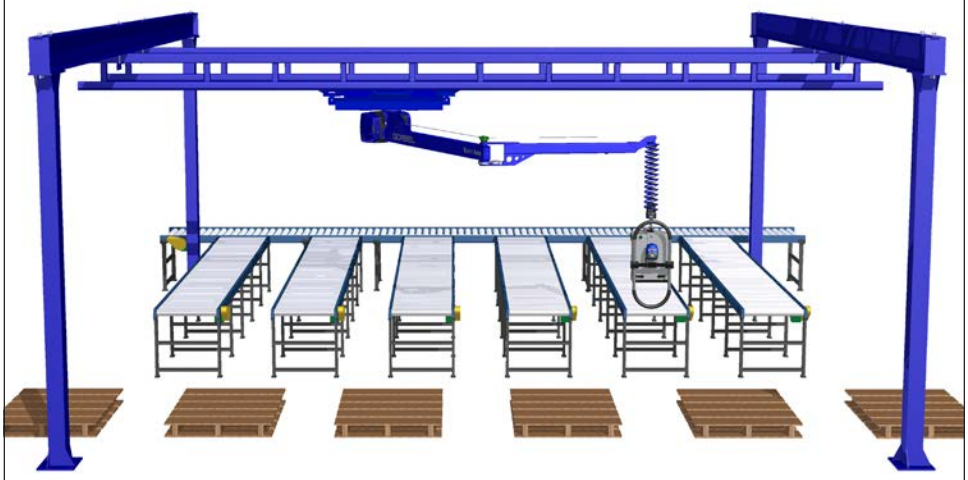
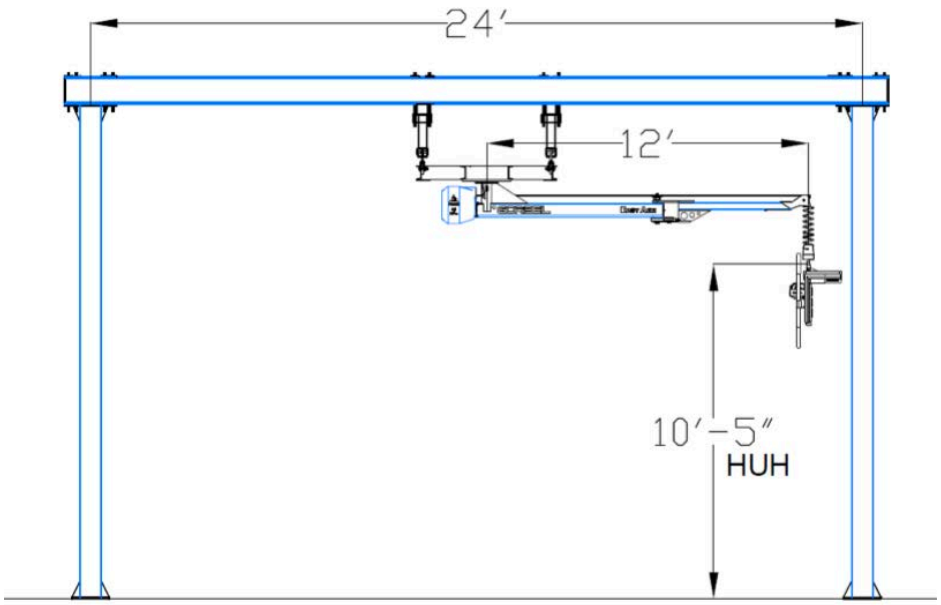
Floor-mounted Free-standing Underhung Dual Monorail





BASE INCLUDES:

25′x25′ Support Frame
28′ Dual Monorail
(1) 10ft EasyArm®
(1) SmartLifter™
(1) Festoon Kit

POWER:

- 230V Single Phase
- 20 amp
- (120V Or 460V avail)
- 25 CFM @ 100 PSI

Shipping Wt.: 3,100 lbs

Add-ons

Additional 25′ Bay Units
Additional EasyArm/SmartLifter units
Additional Tractor Drives
Additional Transformers
EasyArm/SmartLifter upgrades
from 10′ to 12′ reach

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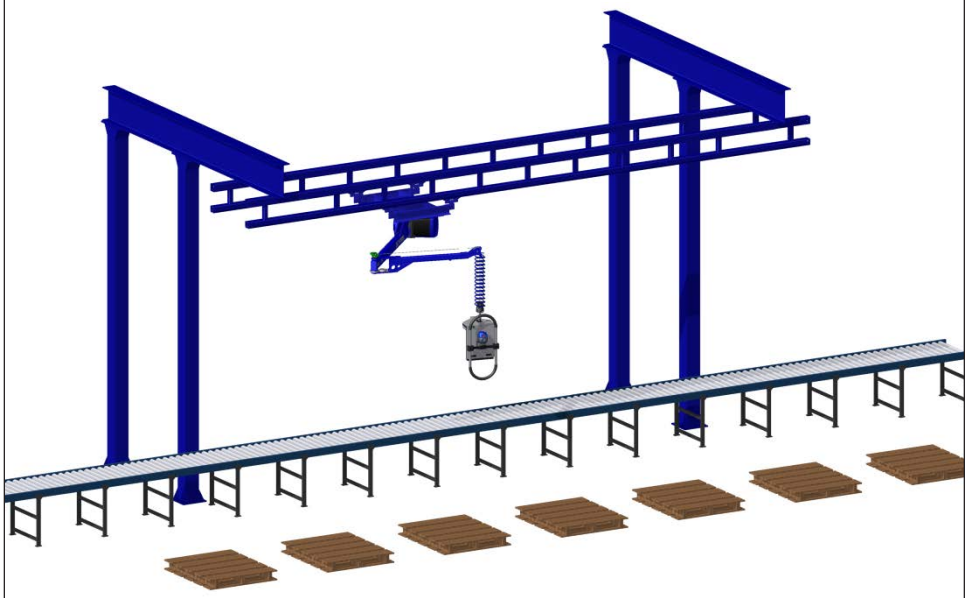
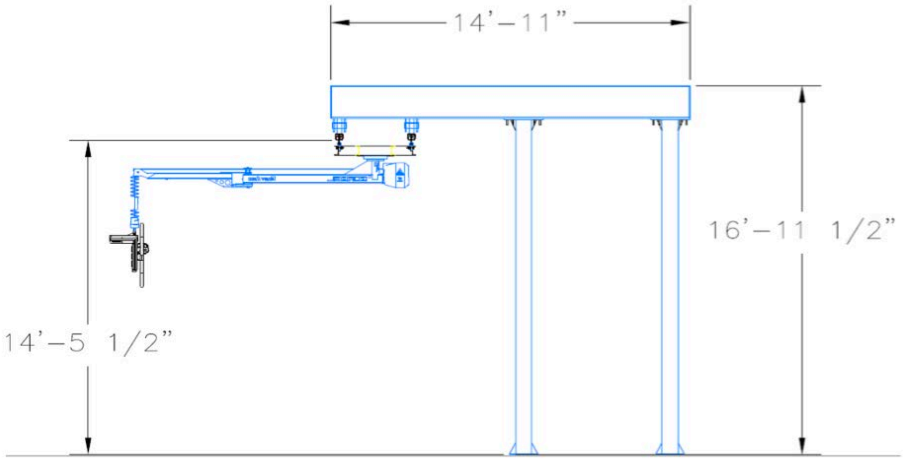
Floor-mounted Cantilever Underhung Dual Monorail





BASE INCLUDES:

10' Cantilever Supports
28' Dual Monorail
(1) 10ft EasyArm
(1) SmartLifter
(1) Festoon Kit

POWER:

- 230V Single Phase
- 20 amp
- (120V Or 460V avail)
- 25 CFM @ 100 PSI

Shipping Wt.: 7,500 lbs

Add-ons

Additional 25' Bay Units
Additional EasyArm/SmartLifter units
Additional Tractor Drives
Additional Transformers
EasyArm/SmartLifter upgrades
from 10' to 12' reach

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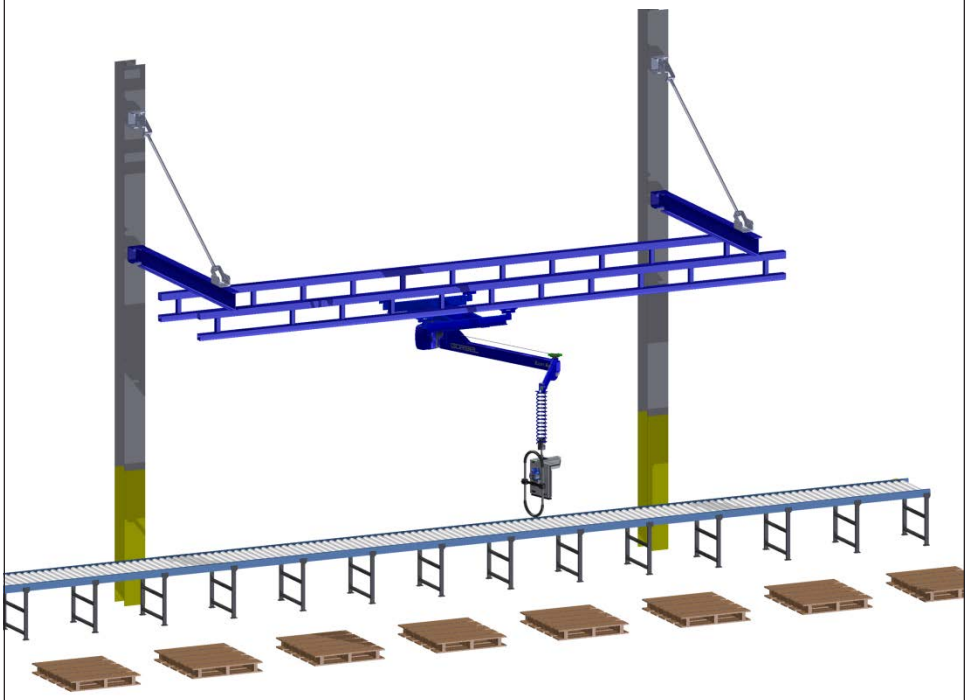
Column-mounted Cantilever Underhung Dual Monorail



BASE INCLUDES:

10′ Cantilever Supports
28′ Dual Monorail
(1) 10ft EasyArm
(1) SmartLifter
(1) Festoon Kit

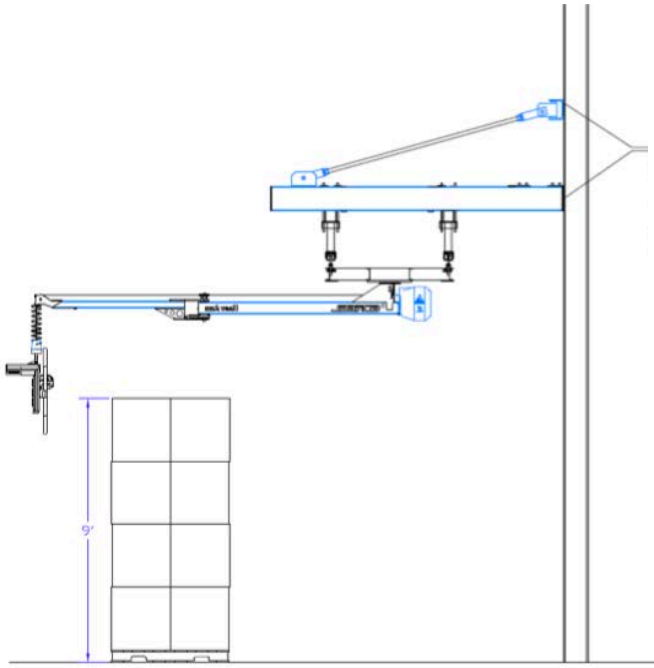
POWER:

- 230V Single Phase
- 20 amp
- (120V Or 460V avail)
- 25 CFM @ 100 PSI

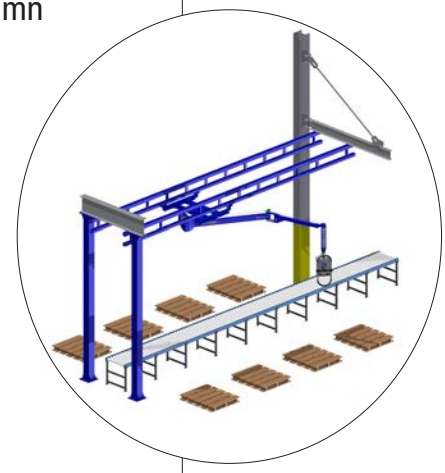
Shipping Wt.: 3,100 lbs

Add-ons

Additional 25′ Bay Units
Additional EasyArm/SmartLifter units
Additional Tractor Drives
Additional Transformers
EasyArm/SmartLifter upgrades
from 10′ to 12′ reach



Attach
to existing
column



Hybrid mounting
configurations are
also possible

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Our SERVICES

WEPCO is your complete source for material handling solutions from systems design to quality products:

- Turnkey Systems
- Systems Engineering
- Innovative Solutions
- CAD Design
- Project Management
- Field Installation
- Follow-Up Service

Our APPLICATIONS

WEPCO implements a broad range of material handling solutions, including:

- Manufacturing and Automation
- Packaging
- Warehousing
- Retail Distribution
- Cold-Chain Distribution
- Returns Processing
- 3PL (Third Party Logistics)

Our MARKETS

WEPCO serves a broad range of market sectors, featuring:

- Pharmaceuticals
- Publishing
- Food and Beverage
- Health and Beauty Aids
- Apparel
- Building and Construction Supplies
- Institutional/Military and Government

We offer a full range of engineered solutions for high-throughput, mission-critical material handling projects. Expertise includes conveyor systems, overhead cranes and hoists, ergonomic lifts, automated storage and retrieval systems, and robotics.

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