



MATERIAL HANDLING SOLUTIONS GUIDE

BUILDING SOLUTIONS TOGETHER

PRODUCT DEVELOPMENT & ENGINEERING

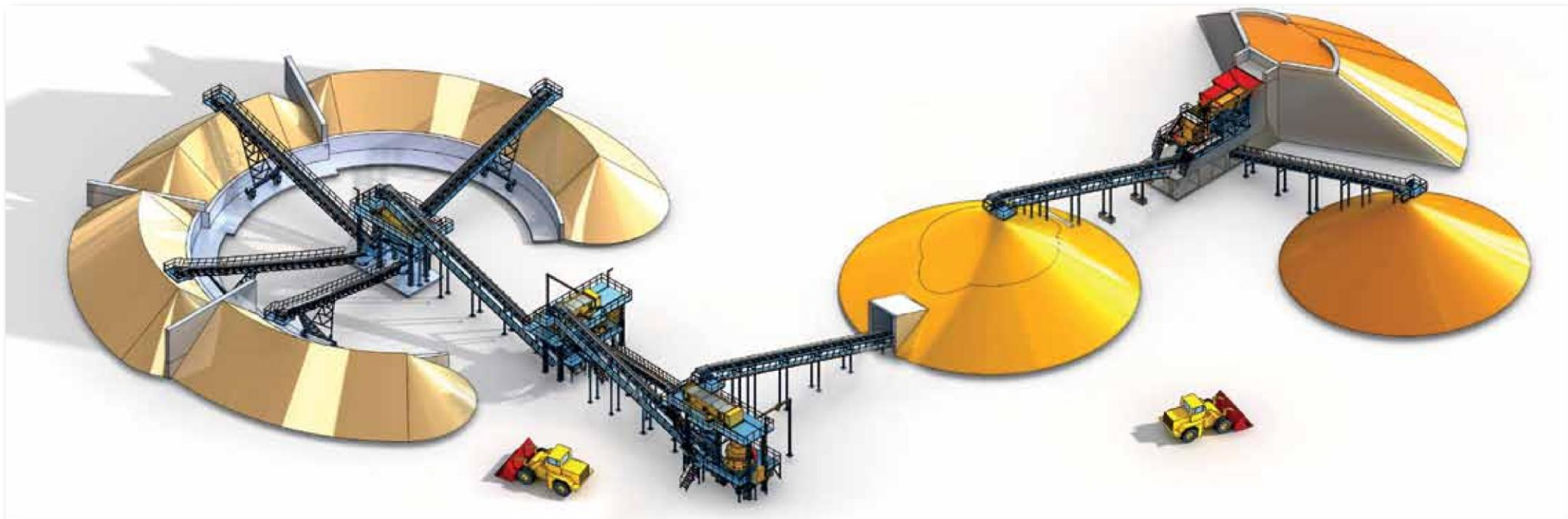


TRIO's international team of mechanical engineers continues to invest time and resources into improving our current line and the development of new products. Using a combination of feedback from the field, customer insight, and continual R&D efforts, our engineers and manufacturing staff work hard to produce reliable, productive, quality mining and quarry equipment. In addition to securing our very first patent for an innovative log washer shaft configuration, our company also has several additional international patents pending on other product innovations.

With more than 150 different sizes of machinery spread across a dozen different machinery categories,

there is consistent effort to upgrade existing designs, while also adding new features and sizes that suit the market demands.

TRIO often accepts custom orders for will-fit machines as well as machines with specific duties and purposes. With an engineering staff comprised of more than twenty product design engineers working each day with current 2D and 3D design software, our team continues to move our products forward in the international marketplace.





PORTABLE RADIAL STACKER



Heavy duty truss, undercarriage, and axle designs. Standard belt widths from 24"-60" and lengths up to 150'. Custom engineered lengths and widths are available based on application.

Swing Axle

- Available in single and tandem axle
- Heavy duty tubular design.
- Safe—no axle extensions to pull out or swivel boxes to turn
- Hydraulic axle jacks and power travels are available.

Primary Function:

- Fixed Radial Stackers: No portable requirements



- Pit Portable Radial Stackers: Can be moved around the pit by using a loader
- Road Portable Radial Stackers: All road portable stackers will have the required functions; Lights, Brakes, 5th Wheel Hitch, and folds if required based on length
- Self-Contained Portable Radial Stackers: Available in a 500 TPH 30"x80' PRSC with Diesel/Hydraulic Controls

Transportation:

- Economical container shipment to global destinations
- All portable functions are available based on conveyor width and length.

Standard Equipment	
Class II Drives	2 Ply or 3 Ply Belt
Backstop	Anchor Pivot Plate
Heavy Duty Pulleys	Manual Raise
Heavy Duty Bearings	Manual Raise
CEMA C Idlers	Tow Eye

Available Options	
Belt Scraper	Light Packages
Manual Folds	Brake Packages
Hydraulic Folds	5th Wheel Hitch
Hydraulic Raise	Discharge Chute
Power Travels – Hyd./Electric	Wrap Drives
Hydraulic Axle Jacks	Gravity Take-ups
Walkway	



STACKABLES

TRIO Channel Design:

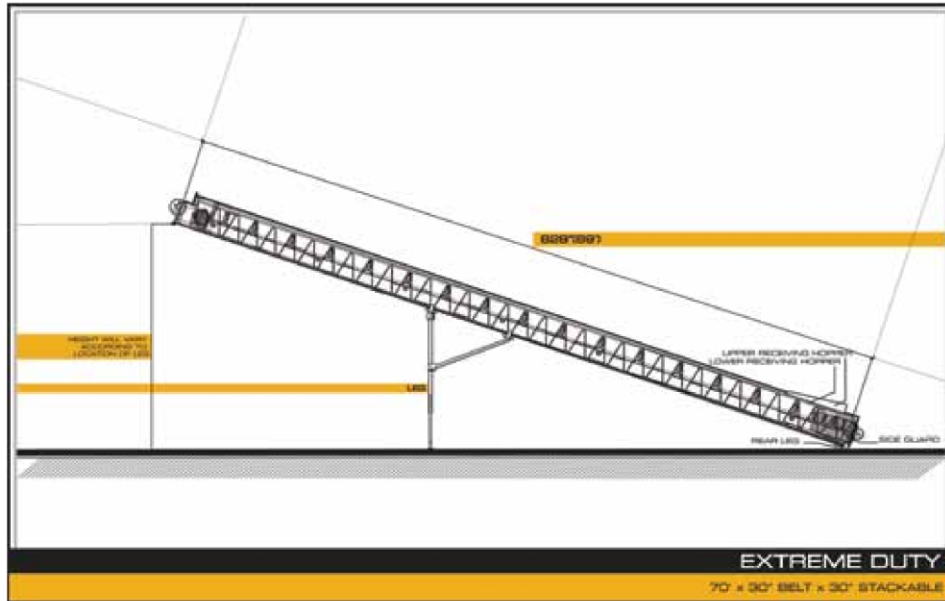
- Heavy duty construction and high quality welds. Better built and more versatile than most other stackable conveyors.

Primary Function:

- Transfer Conveyors: Add on head and tail support of various lengths
- Portable Radial Stacker: Add on undercarriage with swiveling wheels.

Transportation:

- Reduced freight cost
- Economical container shipment to global destinations
- (6) conveyors per truck load
- (3) conveyors per truck load with undercarriages



Standard Equipment

Class II Drives

Backstop

Heavy Duty Pulleys

Heavy Duty Bearings

CEMA C Idlers

2 Ply or 3 Ply Belt

Available Options

24" to 42" Belt Widths

Undercarriage

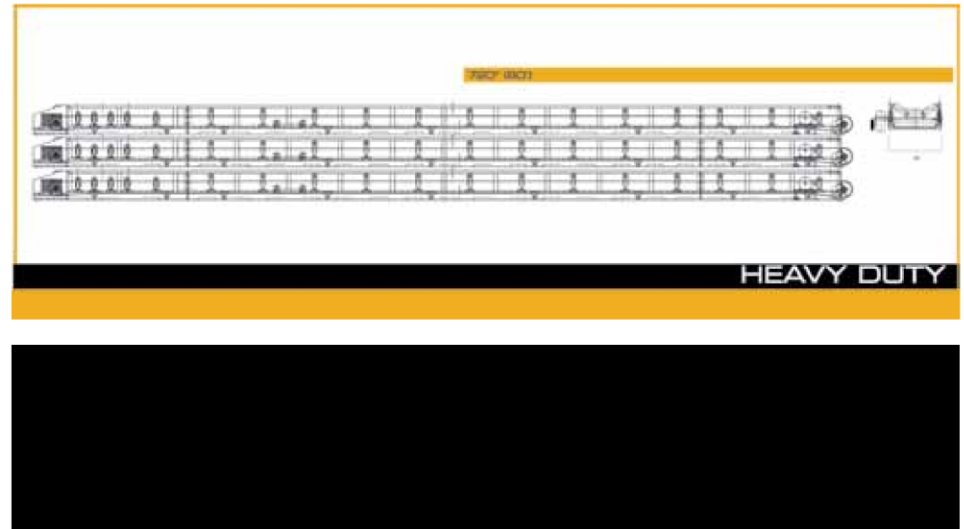
Lengths from 20' to 60'

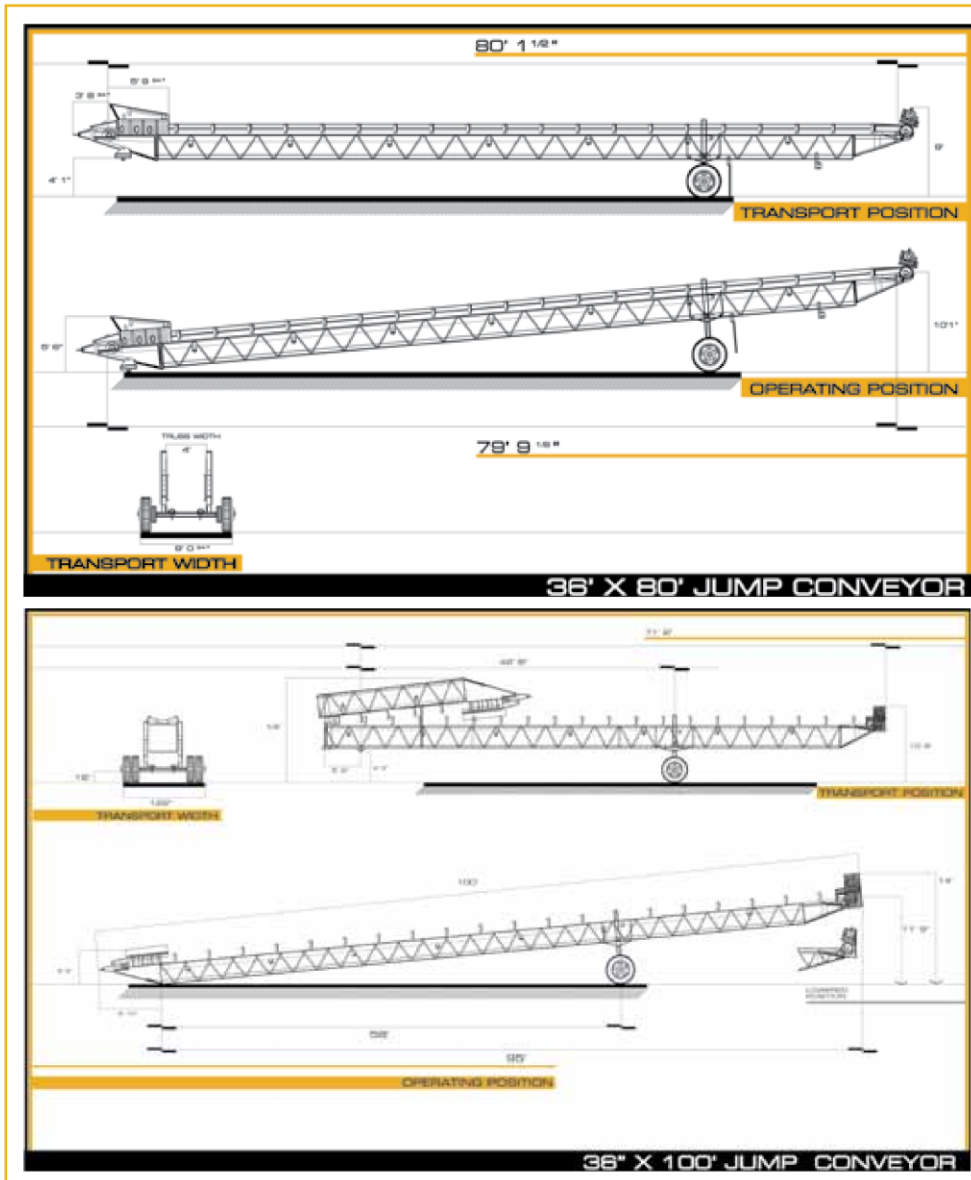
Tow Eye

Belt Scraper

5th Wheel Hitch

Radial Rec. Hopper





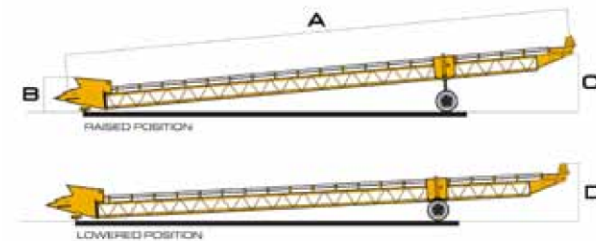
- Heavy duty truss design. Available in lengths from 80-100 feet and in belt widths of 24-42 inches. Custom lengths and widths are available based on application

Transportation:

- Economical container shipment to global destinations
- Folds can be added for road transport

Primary Function:

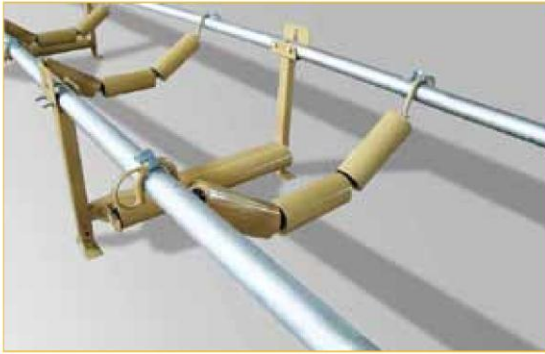
- Stationary Transfer Conveyors: Add on head and tail support of various lengths
- Portable Transfer Conveyors : Add on strut axle
- Telescoping conveyors: Discharge heights can be designed to feed all brands of telescoping conveyors.



Standard Equipment	
Class II Drives	
Heavy Duty Pulleys	
Heavy Duty Bearings	
CEMA B or CEMA C Idlers	
2 Ply or 3 Ply Belt	

Available Options	
Belt Scraper	Strut Axle Undercarriage
Radial Rec. Hopper	Tow Eye
Road Portable Package – Brakes, Lights, 5th Wheel Hitch	Discharge Chute

SUSPENDED CONVEYORS

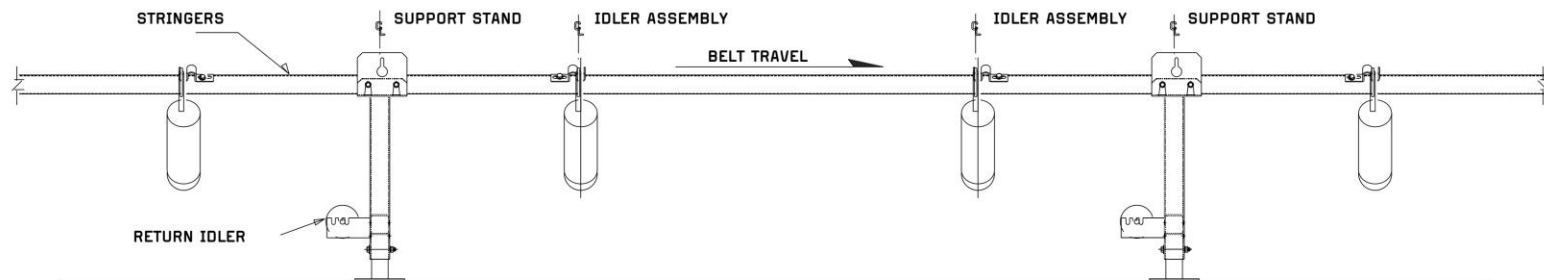


Features:

- 5" idlers available in 24"/30"/36"/42"/54"/60" widths
- Hinged construction
- Galvanized stringers with ribbon or cast saddle
- Ball bearing catenary rolls with labyrinth seal design
- Stand alone, heavy duty skid frame requiring no foundations
- Rugged stools with detachable, adjusting legs, stringer supports and integral return hangers
- Custom designed drive heads and take up units available to suit application
- Return rolls with 20 or 25 mm shafts and bearings
- 5" (127mm) and 6" (152mm) diameter rollers
- Easy transportation, installation and maintenance
- Robust construction

Benefits:

- One-year warranty
- Continuing service commitment
- Global distribution
- Rapid delivery
- Off-the-shelf parts
- Superior quality
- Advanced materials & processes
- Improved service life of critical components
- Lower maintenance & operating costs





Portable Feed Hoppers

- Heavy duty steel beam design
- Designed to feed material consistently into crushing and screening plants

Standard Equipment:

- 9'x14' top opening
- Available in 30" or 36" belt widths
- CEMA rated idlers
- Electrical panel if VFD controls

Options:

- Manual or Hydraulic Grizzly
- Remote Control
- Impact Idlers
- Road Portable Package



Reclaim Tunnels

- TRIO has created a heavy duty rectangular line of tunnels to fit any application
- Eliminate costly material handling
- Great alternative to using loaders and feed hoppers
- Lower installation costs than galvanized and pre-cast tunnels

Features:

- Belt feeders or pan feeders
- Walkway – one side or both
- Emergency stop switches
- Bolt together design
- Stand widths 8' 10' 12'

Truck Unloaders

- The TRIO mobile truck unloader is design for portability and quick set up
- Eliminates costly double handling of material

Features:

- 48" Belt Width
- 1000 TPH Capacity
- Road Portable
- Heavy-Duty Removable Grate
- Discharge Hood
- Landing Legs
- Additional Guarding

3-Bin Feed Systems

- TRIO Batch Plant Feed System – Designed to feed portable concrete batch plants
- Eliminates multiple loads since all (3) hoppers and all (3) conveyors move as one unit

Features:

- (3) 9'x14' Hoppers
- 1/4" Hopper Construction
- Adjustable Flow Gates
- Tandem axle with (8) tires on budd wheels
- Adjustable Legs on all Hoppers
- The conveyors are offered in several different combinations to fit the customer's needs



TRIO has extensive experience serving the following industries:

- Aggregate Production
- Recycling / Bio Mass
- Mining
- Concrete Production
- Coal, Coke and Sulfur Handling
- Remote Control
- Specialized Material Handling

TRIO offers a wide range of engineering:

- Concept Drawings
- Complete Process Plant Layout
- Conveyor and Structural Design
- 2D & 3D Drawings





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ADDITIONAL LOCATIONS

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Ireland

Miami

Australia

Dubai

Chile

Delhi