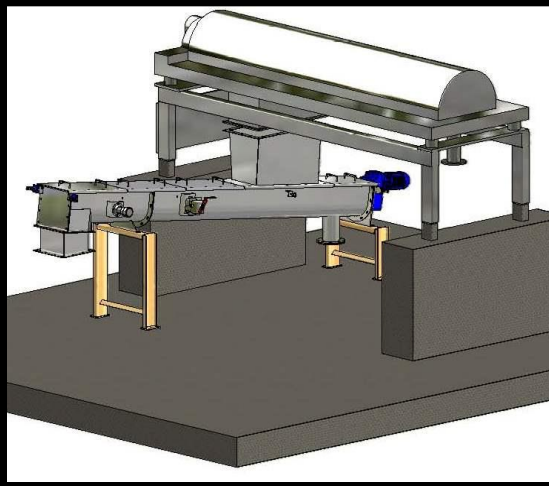




Custom Conveyor  
Corporation

The System  
Professionals



# Shaftless Spiral Conveyors

- Horizontals
- Incline
- Verticals
- Distribution & Gates
- Live bottoms

*Not just one solution  
- **The right Solution.**  
A Total Material Handling  
Solutions Supplier*



# Conveyors Shaftless Screw



## Moves sludge more efficiently

- No shaft for sludge to build-up on & allows up to 100% fill rate
- No bearing to block flow
- Modular direct connections allows layout designs not possible with shafted screws
- Vertical conveying is efficient and space saving

## Low Maintenance

- No bearings to maintain inboard or outboard
- High fill rate, lower speed less wear
- Only one moving part

## Totally Enclosed System

- Prevents odors
- Eliminates spillage to provide a cleaner more hygienic work environment
- No exposed moving belts.
- Quiet – low decibel level.



## CUSTOM Advantages:

### Better Spirals:

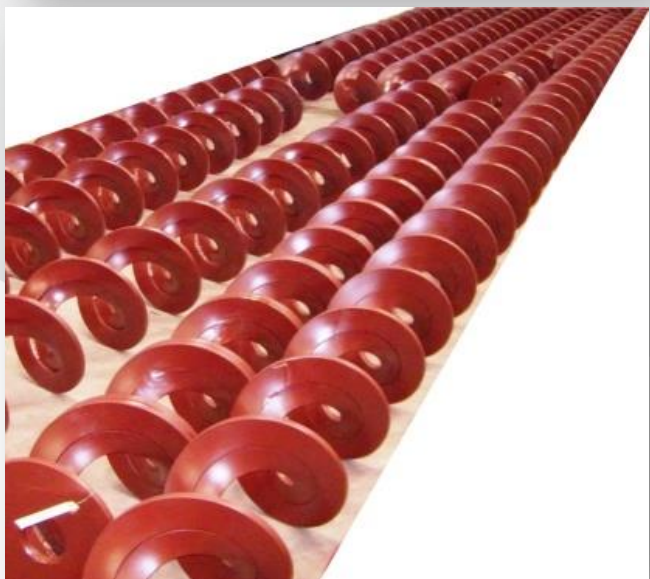
- Other spiral manufacturers use turn and “**Loose pitch pull**” method of forming spirals. The result is wide variations in pitch and diameter which cause uneven liner wear.
- CUSTOM uses “**CNC Captured winding Technology**” which results in even diameter and pitch.

### Closer Trough Tolerances:

- European standards allow large gaps between spiral and liner which allow spiral to flex under load and can result in metal fatigue.
- Built to US CEMA 300-34 Specifications.

### Liner Choices

- Xylethon Durawear
- Quadrant Two color XPS
- CeramP
- Virgin UHMW PE
- Hardox bars





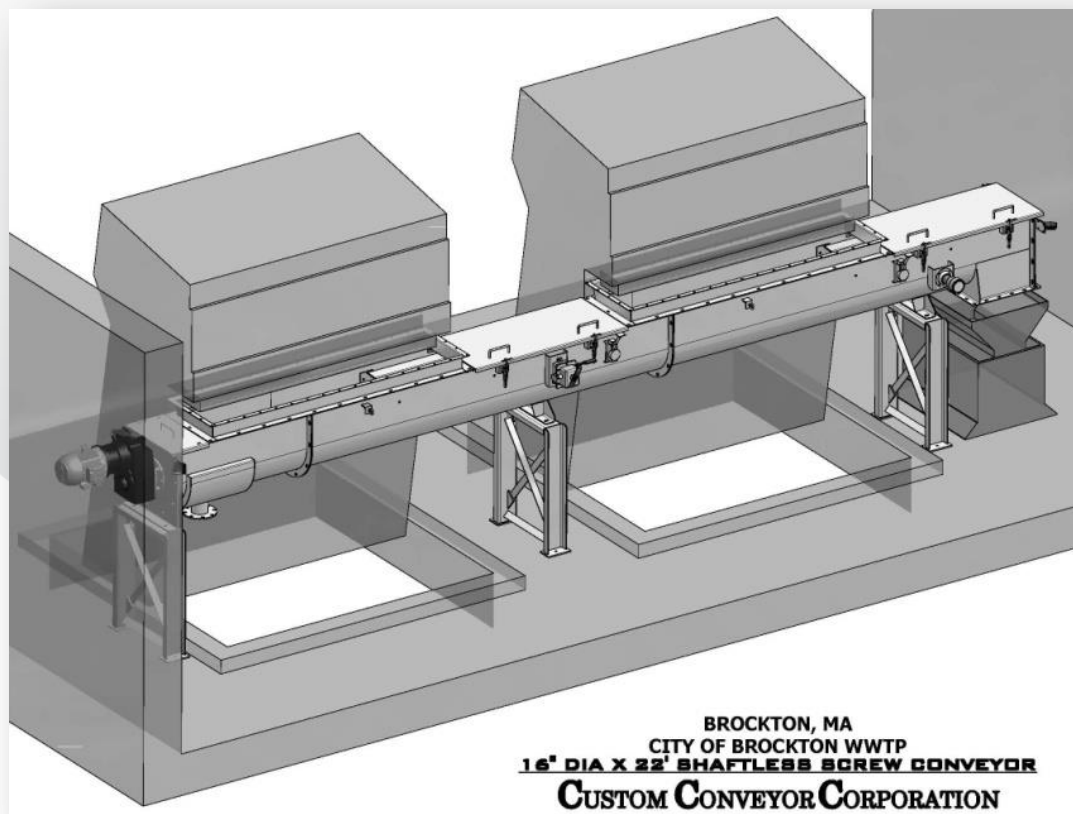
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## Conveyors Shaftless Screw

### Waste Water SCREENINGS

Ideal for pushing wet or compacted screenings.

- No center shaft **eliminates ragging.**
- Non-drive end is not connected by shaft, **no ragging/blockage.**
- Open spiral **accepts large objects.**
- High fill rate **handles uneven intermittent flows.**
- Available with **Trough drainage decks.**



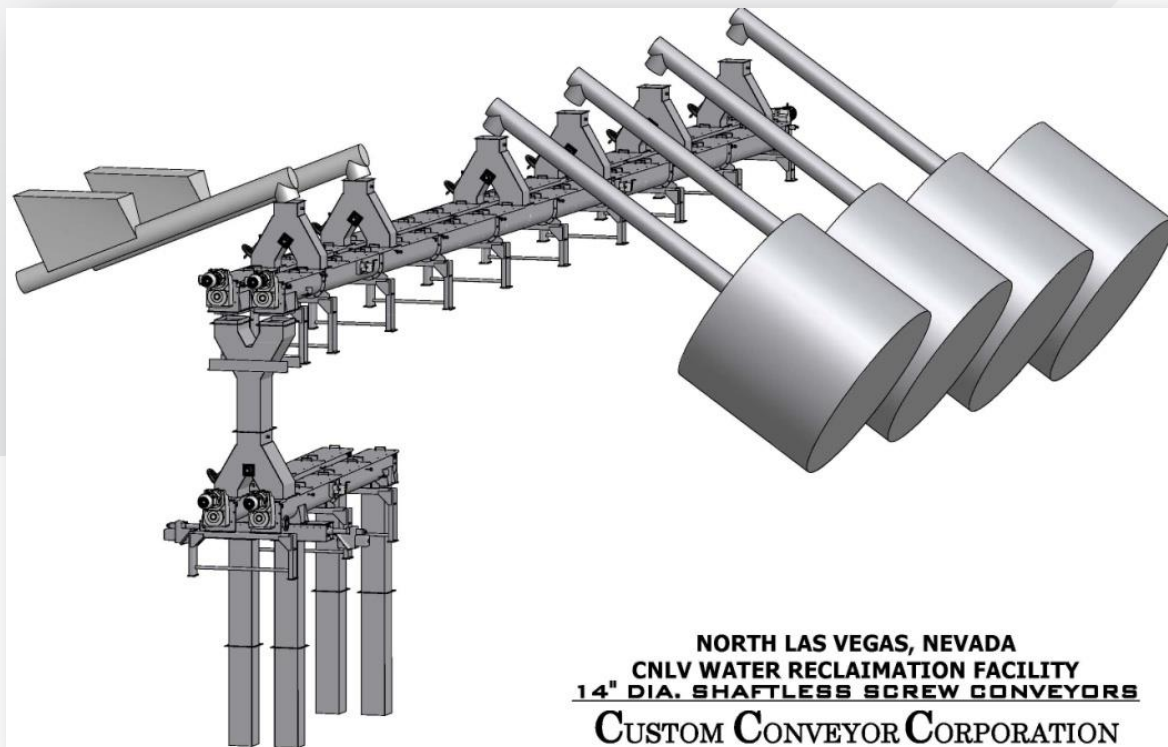




## Waste Water or Industrial GRIT

Ideal for abrasive grit  
- wet or dewatered.

- 1" thick spiral is long wearing.
- High fill rate = slow rpm & low wear.
- No bearings to wear.
- Hardox bar liners available.



NORTH LAS VEGAS, NEVADA  
CNLV WATER RECLAMATION FACILITY  
14" DIA. SHAFTLESS SCREW CONVEYORS  
CUSTOM CONVEYOR CORPORATION



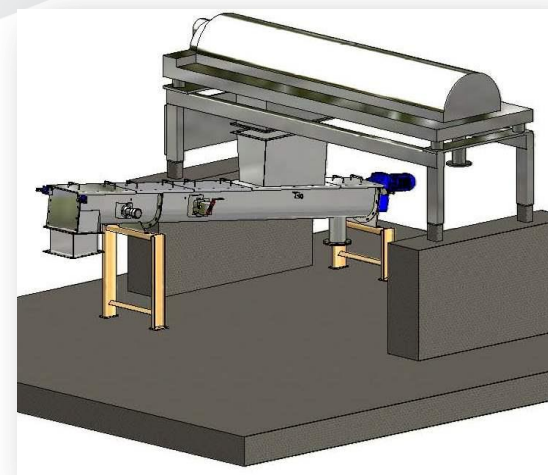
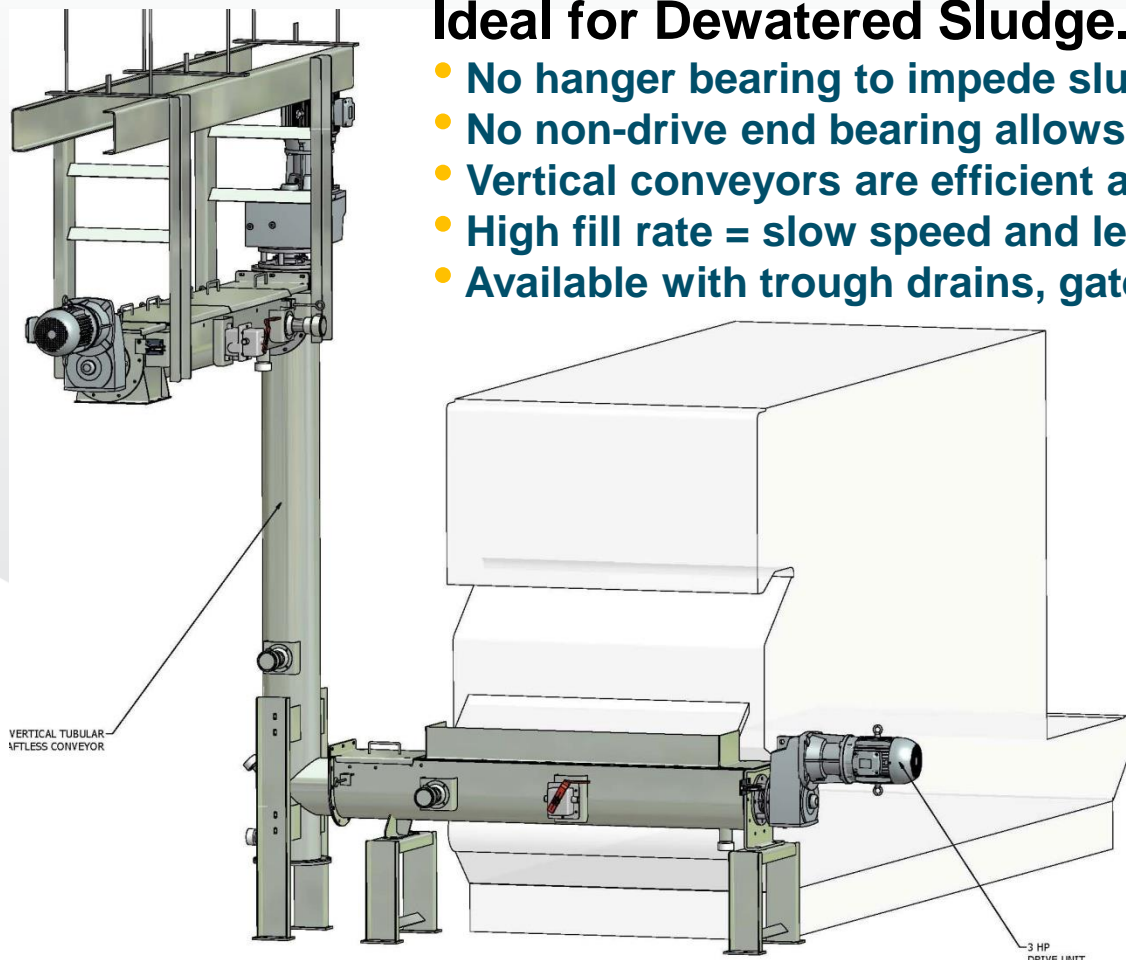
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# Conveyors Shaftless Screw

## Waste Water SLUDGE

### Ideal for Dewatered Sludge.

- No hanger bearing to impede sludge flow
- No non-drive end bearing allows modular connections.
- Vertical conveyors are efficient and space saving
- High fill rate = slow speed and less fluidization of sludge
- Available with trough drains, gates, and odor control



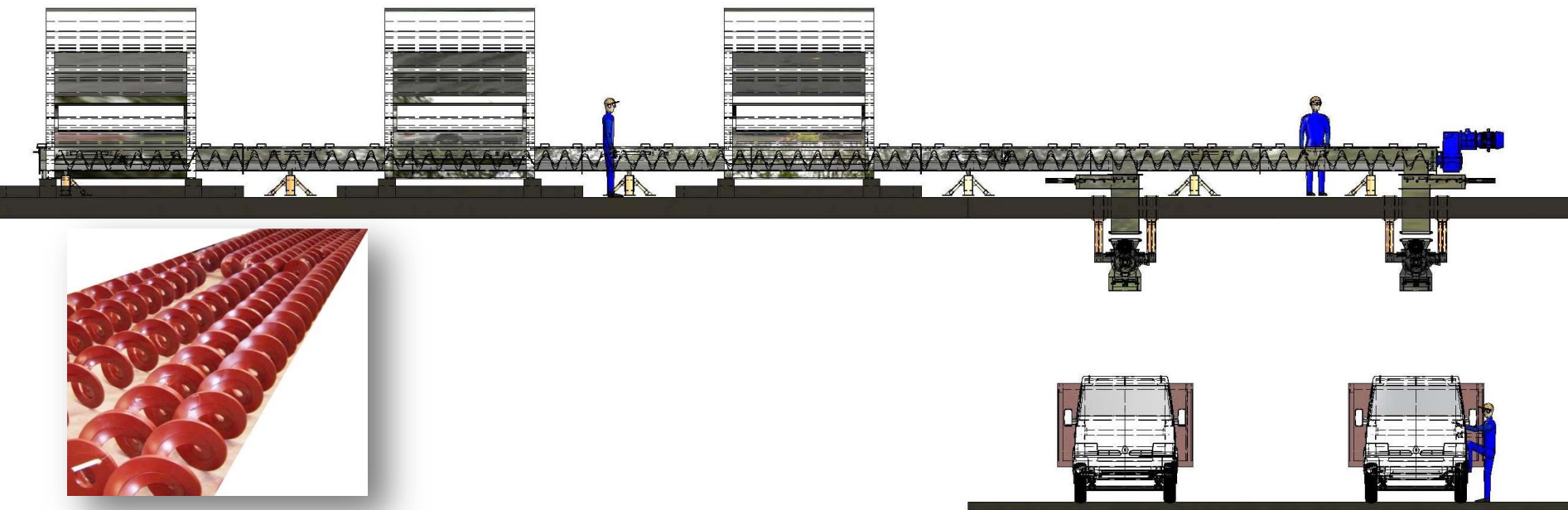


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# Conveyors Shaftless Screw

## Horizontal

A leading supplier of **Long shaftless Screw conveyors**. CUSTOM 's engineering, field experience and the most high tech screw manufacturing insure the spiral strength required for these long length, high torque applications.





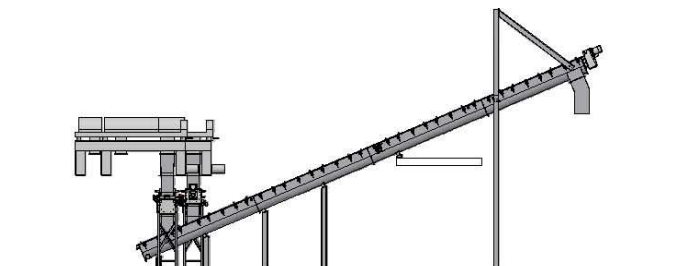
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# Conveyors Shaftless Screw

## Incline

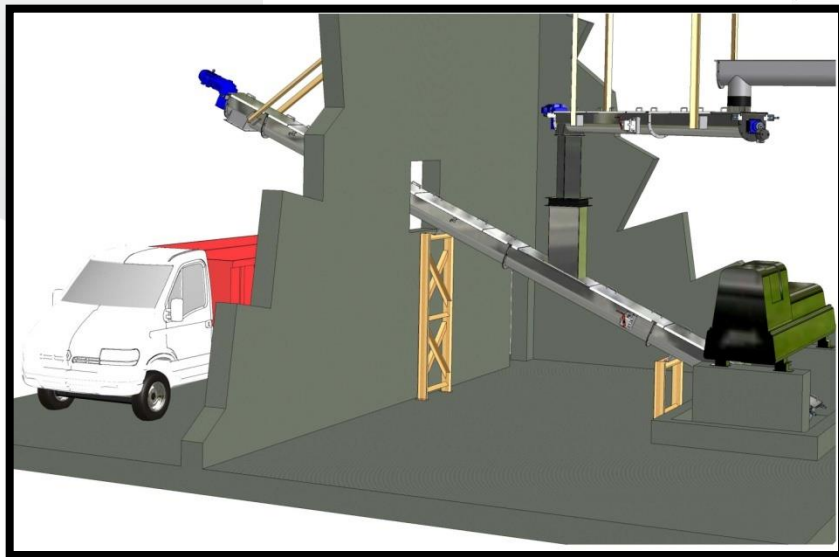
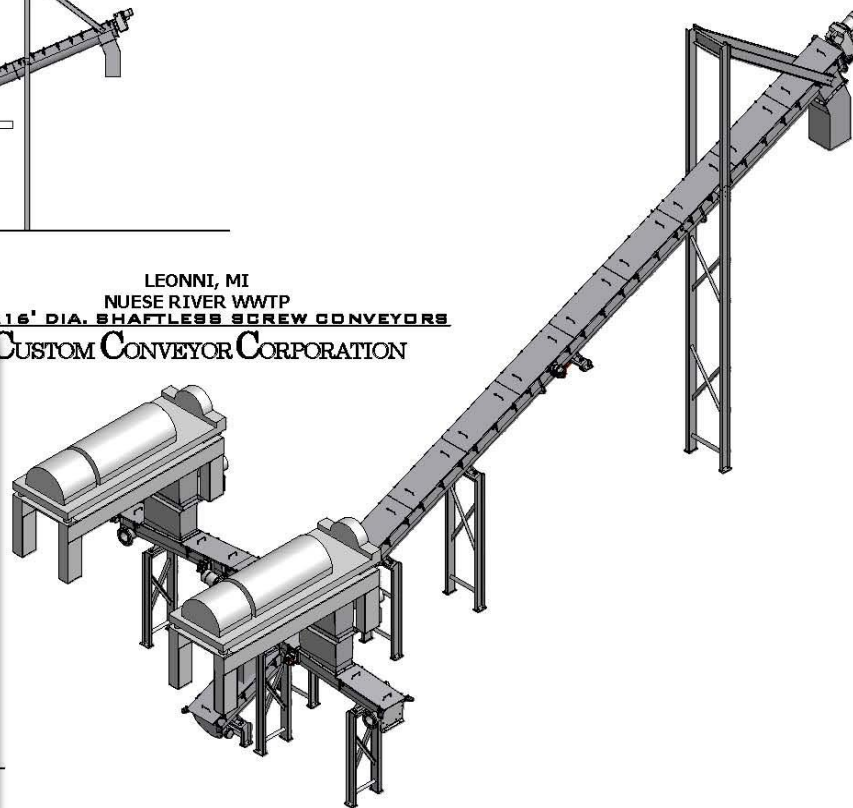
### Incline Conveying

Requires expertise  
to avoid transfer  
point and degree of  
incline related  
problems.



LEONNI, MI  
NUESE RIVER WWTP  
12' & 16' DIA. SHAFTLESS SCREW CONVEYORS

CUSTOM CONVEYOR CORPORATION







## Vertical

### Vertical Conveying

of WWT Sludge offers many advantages when compared to pumps and long belts:



- Efficient
- Low cost
- Low Hp
- Long life
- Low maintenance
- Space saving

Verticals are acknowledged as the best method for gaining elevation when handling sludge.





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# Conveyors Shaftless Screw

## DISTRIBUTION Conveyor Slide Gate Discharge



### Slide Gate Discharges

– For truck and bin loading applications.

Gates can be **actuated** manually, pneumatically, hydraulically or electrically.

Gates can be **controlled** manually, with timers, or automatically with ultrasonic sensors. Sensors detect when the container is full and divert the material to the next available discharge point.

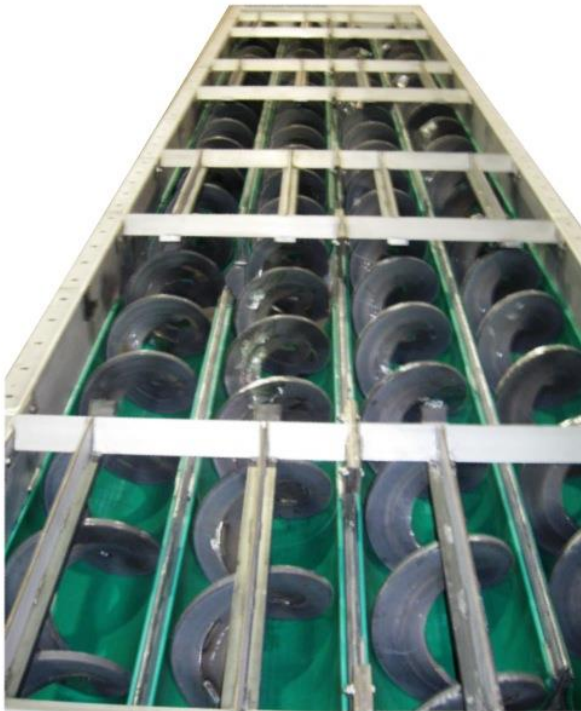






## Conveyors **Shaftless Live Bottoms**

**Shaftless** Screw Spiral Live Bottoms  
are the Best Solution for Preventing Sludge Bridging.



Open spirals

- **Prevent Sludge Bridging**

Large open Diameter & Pitch =

- **High fill rate**
- **High volume**

100% Fill Rate & high volume =

- **Low RPM**
- **Low Hp**
- **Low Wear**



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## Conveyors Shaftless Live Bottoms

**Receival Bins accept product from Trucks,  
Conveyors, or Dewatering Equipment for:**

- Storage
- Composting
- Drying
- Incineration
- Amendment
- Processing



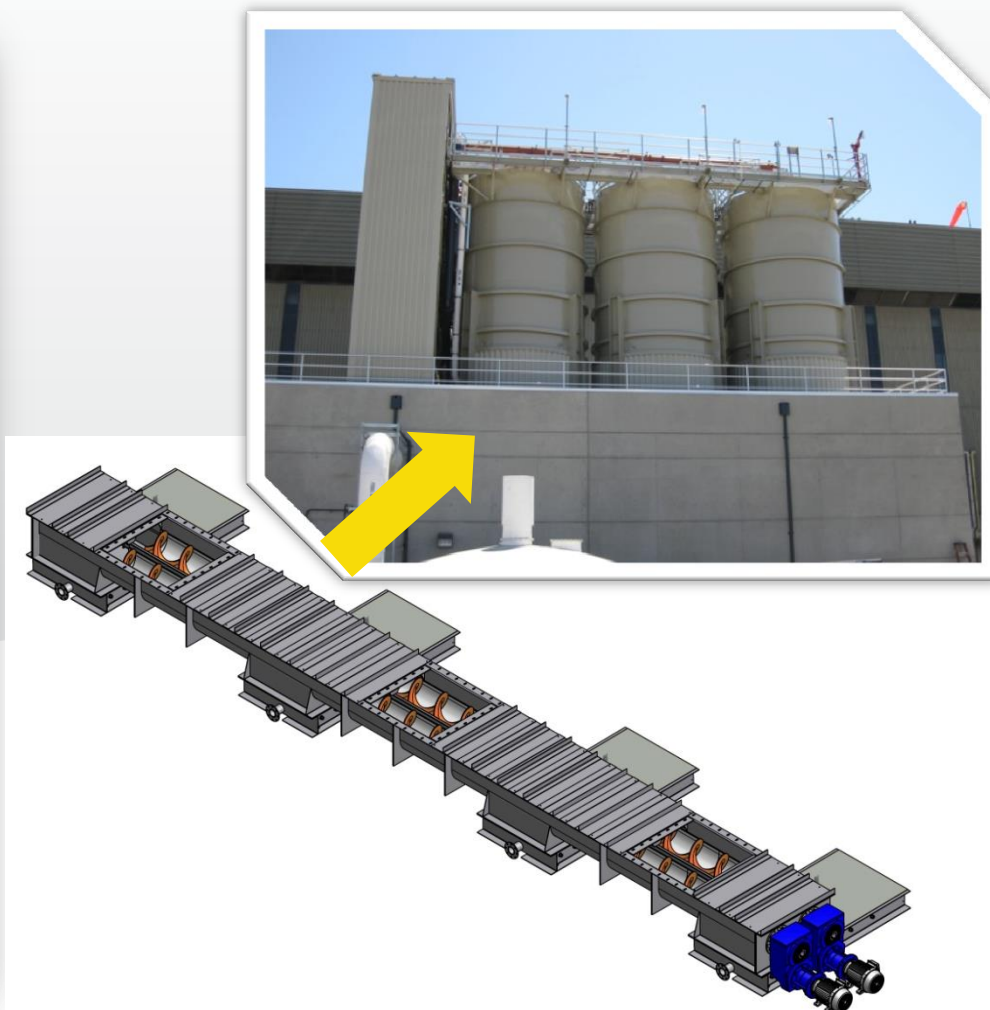
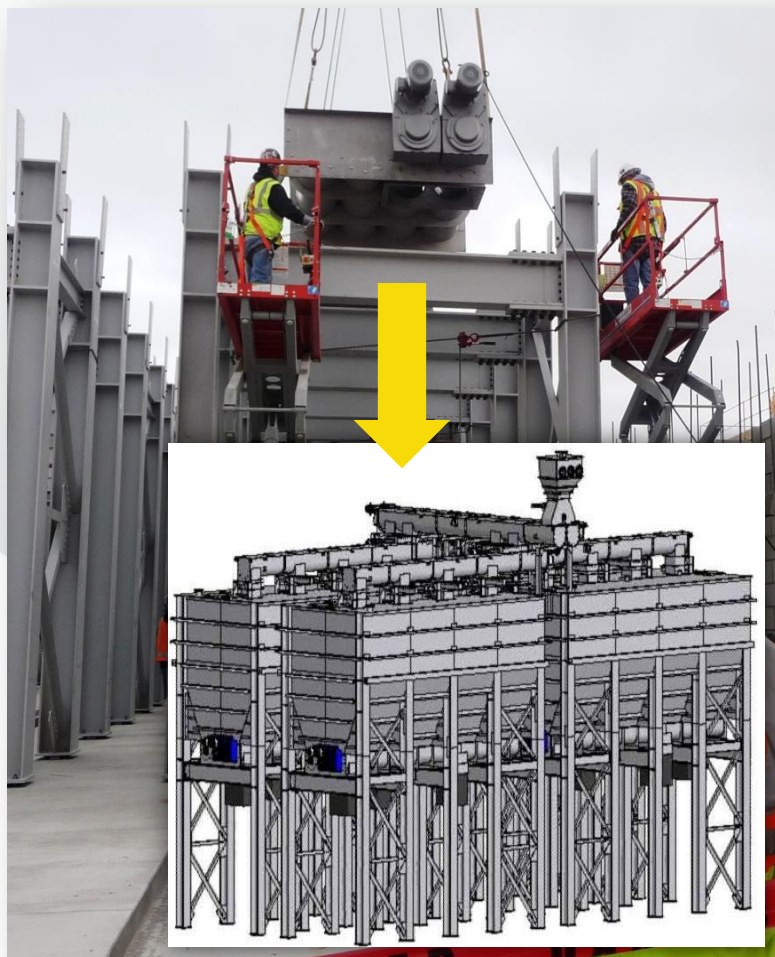




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# Conveyors Shaftless Live Bottoms

Storage **Hoppers & Silos** utilize shaftless live bottoms





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# Conveyors Shaftless Screw

## Fully Integrated Controls Systems.

**CUSTOM** provides a range of controls  
from simple Local Control stations to  
Programmable Logic Controller Panels



On large conveyor systems a  
PLC with Touch Screen can be  
easier to operate and more cost  
effective than manual buttons  
and switches.



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# Conveyors Shaftless Screw VALUE

## Experience

**Custom Conveyor Corp** offers **30+ years** experience manufacturing in our own fully equipped facility. We are the industry Leader with 3000 installations and 100 miles of conveyors uniquely offering Versatility of the correct conveying solution for your application -

**Shaftless spiral** · **Belt** · **Pneumatic** · **Shafted screw**

## Quality

**Custom Conveyor Corp** continuously invests in the equipment and skilled staff for quality, product improvement and growth. We offer many proprietary conveyor components including **radius formed trough tooling**, **CEMA tolerances**, and the world's **Highest quality Spirals**

## Reliability

**Custom Conveyor Corp** has thousands of trouble free installations.

**Custom Conveyor Corp** - The System Professionals  
*Your Total Material Handling Solutions Supplier*