



SHAFTLESS SCREW CONVEYORS



thomas conveyor company®

www.thomasconveyor.com • 817-295-7151

"What Can We Build For You?"

TYPICAL APPLICATIONS

Rendering

- Poultry Processing — Feathers
- Meat Processing — Whole Carcasses
- Fish Processing — Animal Waste
- Fish/Animal Bones

Pulp & Paper, Gypsum Board, Particle Board

- Lime Mud
- Wood Chips
- Hogged Bark
- Shavings
- Pulp
- Fiber Sludge
- Screenings

Agriculture

- Fertilizer
- Corn Gluten
- Sugar Beets/Cane Processing
- Chopped Hay
- Grain
- Powder
- Salt
- Flour
- Meal
- Peat
- Pellets

Hospital Waste Processing, Recycle Plants

- Shredded Cans
- Bottles
- Paper
- Medical Disposables
- Heavy Reject
- Pulper Reject
- Screenings

Wine & Beverage Industries

- Whole Berry
- Stems
- Pumice
- Fruit Peels

Waste Water • Solid Waste Treatment

- Sludge
- Grit
- Screenings
- Solids Removal

Heavy Industrial

- Ash
- Recycle Batteries
- Carbon Black
- Shredded Tires
- Coal
- Metal Chip Handling
- Bentonite
- Caustic Soda
- Bauxite
- Iron Ore
- Limestone
- Insulation



Call for our free Engineering Guide 800-433-2217
Local 817-295-7151 • Fax 817-447-3840

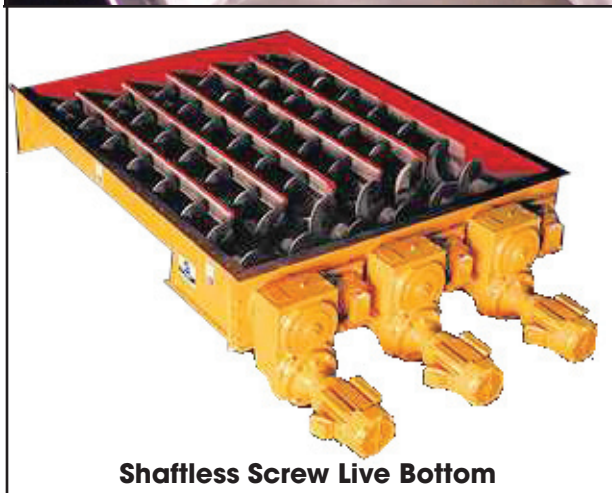
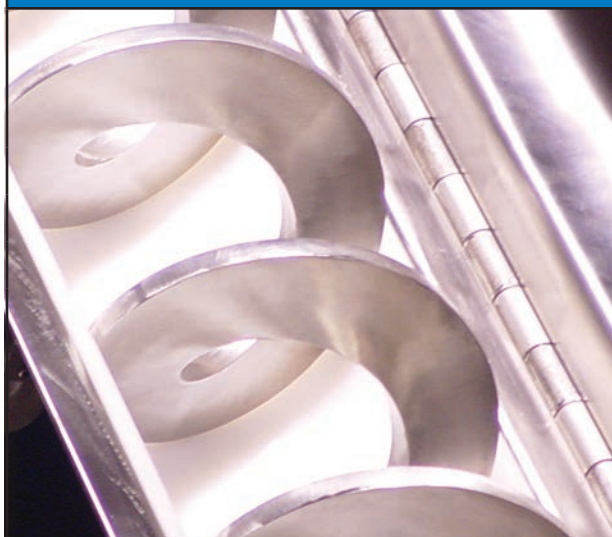


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CONFIGURATIONS / OPTIONS



Shaffless Screw Live Bottom

Type of Steel

- Carbon Steel
- High Brinell Carbon Steel
- Stainless Steel

Capacity

Up to 17,000 CFH

Diameter

6" to 30" (and larger)

Pitches

Full, 2/3, 1/2

Trough

CEMA Standards

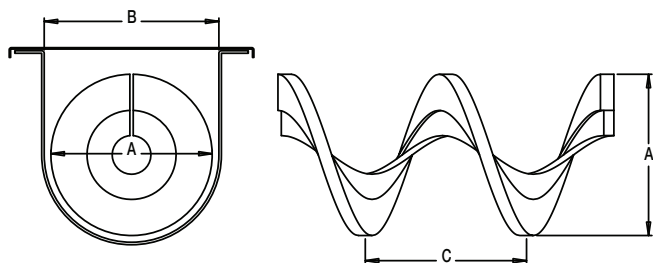
Options

- Liners
 - UHMW - Xylethon - Tivar - AR
- Rider Bars
- Inspection and Overflow Hatches
- Various Drive Configurations Available
- Housings: CEMA Standard U-Trough or Split Tubular Housing

Configurations

- Single or Inner/Outer Flight Design
- Twin Screw
- Multiple Live Bottom Feeders
- Inclined Screw Conveyors
- Grit Washers
- Vertical

*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.



45% Trough Loading*

Nom. Dia.	A Dia.	B Inside	C Pitch	CFH @ 1 RPM	Max RPM
6	5.5	7	6	2.1	25
9	8.5	10	9	7.3	25
10	9.5	11	10	10.4	25
12	11.5	13	12	17.7	25
14	13.5	15	14	29.2	25
16	15.5	17	16	41.2	25
18	17.5	19	18	61	25
20	19.5	21	20	89	25
24	23.5	25	24	136	25
30	29.5	31	30	272	25

* Based on horizontal application only. Inner flight shown for ref. only.



Thomas Shaftless Screw Conveyors — The Problem Solver

Thomas Shaftless Screw Conveyors are the ideal solution for hard-to-transport materials ranging from irregularly shaped dry solids such as scrap wood and metals, to semi-liquid and sticky materials including pulp, compost, food-processing refuse, hospital waste, and wastewater products.

Thomas Shaftless Conveyors' simple, pipeless design employs fewer parts than conventional shafted-screw conveyors, reducing lifetime

maintenance costs. It enables higher trough loading and lower RPMs, maximizing the volume of materials conveyed. **Thomas'** Shaftless Screw eliminates jamming and buildup typical in shafted-screw conveyors for greater uptime, higher efficiency, and lower maintenance. It eliminates hanger bearings and end bearings to reduce maintenance and increase efficiency – enabling direct transfer to another conveyor.

FEATURE	FUNCTION	BENEFIT
No Center Pipe Required	Eliminate buildup on pipe	Able to convey large irregularly shaped and sticky product
Continuous Flight	Hanger bearings not required	Eliminate costly hanger bearing maintenance
Higher Trough Loading	Can handle more product at lower RPMs	Longer wear life
Can use Blind Endplate on Tail End	No tail bearings or seals to maintain	Reduces maintenance and replacement costs
No End Bearings Needed	Direct transfer to another conveyor, incline, vertical or horizontal	Can be designed to fit within space limitations or plant layout
Side Inlet Feeding	No vertical transition necessary	Lower installation cost — Reduces headroom
3/4" - 1" Thick Flighting	Long lasting due to wear resistance	Increases uptime
Cold Formed Flight	High Brinell	Longer life
Wide Variety of Liners	Offer proper liner for specific application	Reduced wear resulting in lower maintenance costs
Simple Design	Fewer operating parts	Lower overall operating costs
Compact Drive System	Doesn't require belts	Easy to maintain
Can be Completely Enclosed	Prevent material leakage — Reduces dust	Eliminates environmental or product contamination
Manufactured in North America	Quality Built — Local Stock	Fast delivery



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