

Shaftless Screw Conveyors

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Martin Shaftless Screw Conveyors - The Problem Solver

Mentin 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.

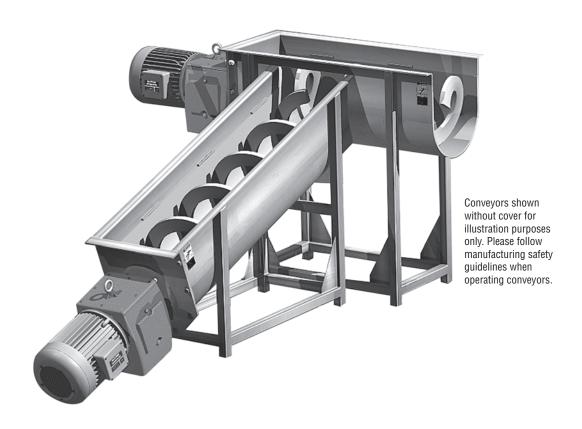
Monta Shaftless Conveyors' simple, pipeless design employs fewer parts than conventional shafted-screw conveyors, reducing lifetime maintenance costs. It enables higher trough loading and lower RPMs, maximizing the volume of materials conveyed.

Martin's 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.

Martin Shaftless Screw Conveyors and components are manufactured and stocked at our branches strategically located near major industrial markets across North America. This ensures rapid shipping on new installations and next-day delivery on stock replacement parts.

Several test units, as well as video footage of actual applications, are available for demonstration of the unique capabilities of the shaftless screw. Discover the benefits *Martin* conveyors can bring to your business – call us today to arrange an on-site demo using your product.



Shaftless Screw Conveyors



Typical Applications

• Rendering

Poultry Processing

Meat Processing

Chicken Feathers

· Whole Carcasses

• Pulp & Paper, Gypsum Board, Particle Board

· Lime Mud

Wood Chips

Pulp

• Agriculture

Fertilizer

• Grain

Meal

Shredded Cans

 Heavy Reject • Wine & Beverage Industries

· Whole Berry

Waste Water

• Solid Waste Treatment

 Screenings • Chemical & Heavy Industrial

Ash Coal

Bauxite

· Fiber Sludge

· Corn Gluten

 Powder Peat

Hospital Waste Processing, Recycle Plants

 Bottles · Pulper Reject

Stems

Sludge

· Solids Removal

· Recycle Batteries

· Metal Chip Handling

Iron Ore

• Fish Processing

· Animal Waste

· Hogged Bark

• Screenings

• Sugar Beets/Sugar Cane

 Salt Pellets

 Paper Screenings

Pumice

Grit

· Carbon Black

Bentonite

Limestone

· Fish/Animal Bones

Shavings

· Chopped Hay

Flour

· Medical Disposables

· Fruit Peels

· Shredded Tires

· Caustic Soda

Insulation

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		



Size and Capacity

CONFI	GURATION	S / OPTIONS
Туре	of Steel •	Carbon Steel High Brinell Carbon Steel Stainless Steel
Сар	acity •	Up to 17,000 CFH
Diag	neter •	e 6" to 30" (and larger)
Pit	ches •	Full, 2/3, 1/2
Tro	ugh •	CEMA Standards
Opt	ions	Liners - UHMW - Xylethon - Tivar - AR Rider Bars Inspection and Overflow Hatches Various Drive Configurations Available Housings: CEMA Standard U-Trough or Split Tubular Housing
Configu Shaftless Screw Live Bottom	urations	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.

50% Trough Loading*							
Nom. Dia.	A Dia.	B Inside	C Pitch	CFH @ 1 RPM	Max RPM		
6	6	7	6	2.5	25		
9	9	10	9	9.1	25		
10	10	11	10	12.7	25		
12	12	13	12	21.6	25		
14	14	15	14	34.7	25		
16	16	17	16	51.9	25		
18	18	19	18	75.1	25		
20	20	21	20	104	25		
24	24	25	24	182	25		
30	30	31	30	359	25		

^{*} Based on horizontal application only.

