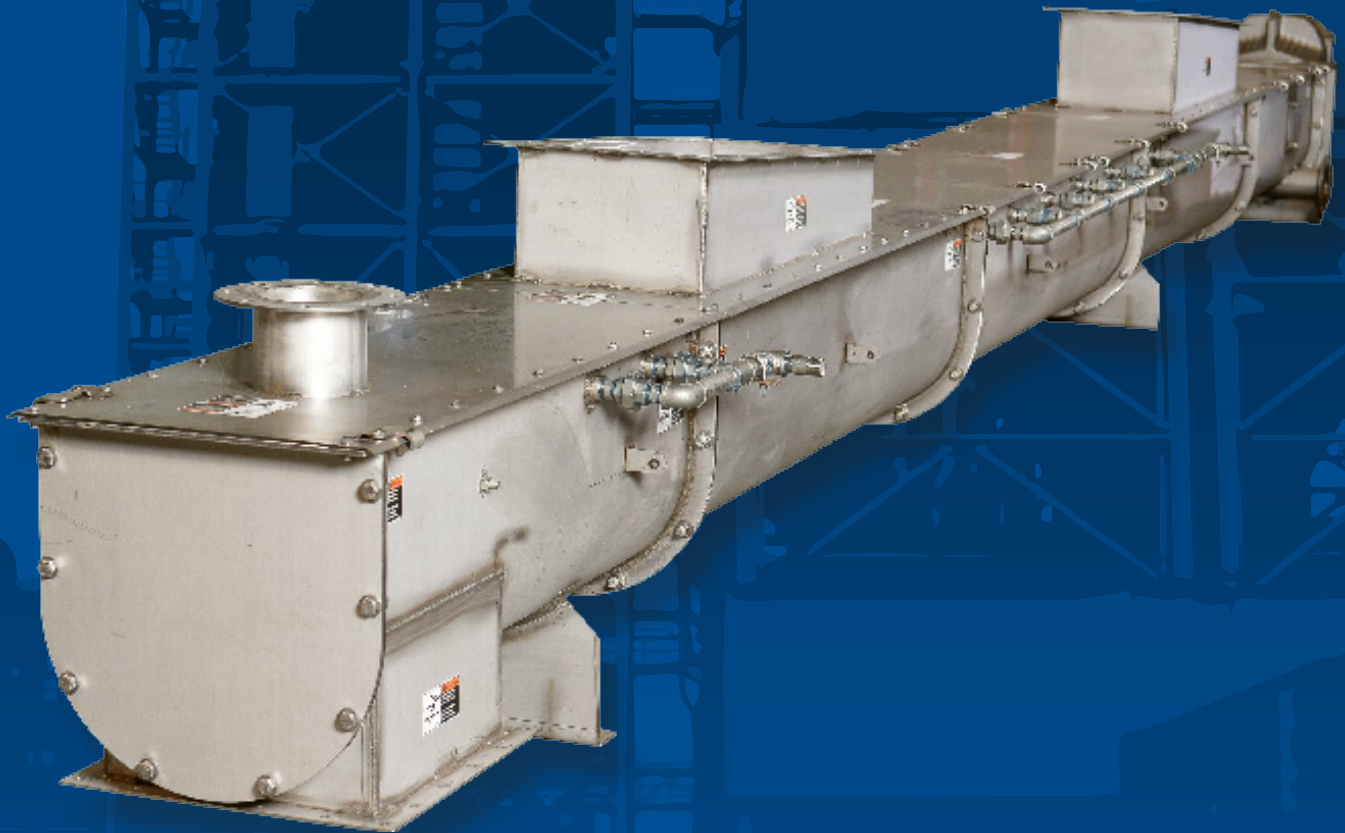


Martin

SHAFTLESS SCREW

**PROBLEM SOLVER
PIPELESS CONTINUOUS FLIGHT
HIGHER TROUGH LOADING
FREE OF HANGERS/END BEARINGS**



The Problem Solver

Martin 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.

Martin 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.

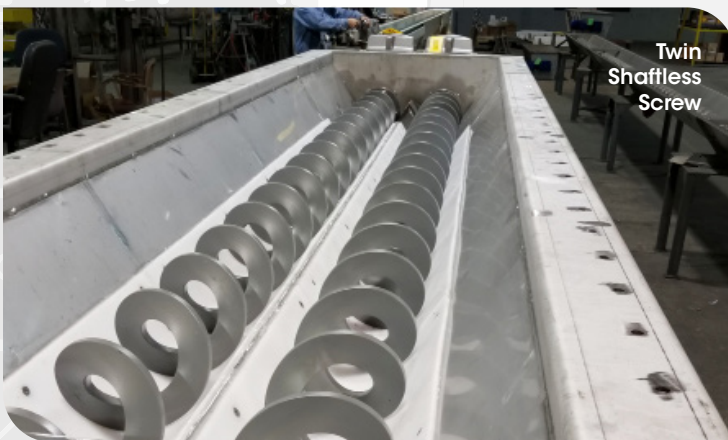
Several test units, as well as video footage of actual applications, are available for demonstration of the unique capabilities of the Shaftless Screw. Discover the benefits Martin conveyors can bring to your business – call us today to arrange an on-site demo using your product.



| 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 |
| ¾" - 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 |



Shaftless Screw with UHMW Liner
Conveying Sticky Humid Beer Brewing Grains



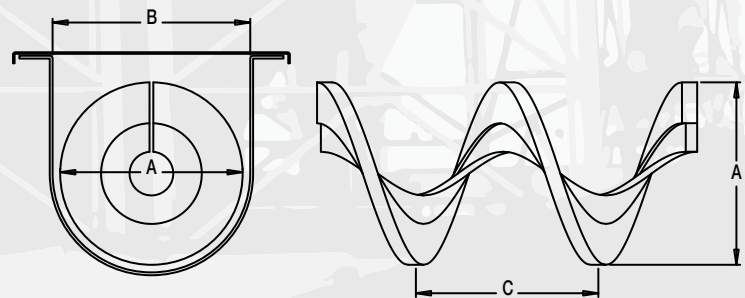
Twin
Shaftless
Screw



Food-Grade
Inclined
Stainless Steel
Shaftless Screw

AVAILABLE CONFIGURATIONS

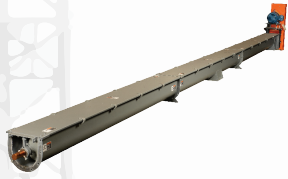
| | |
|-----------------------|--|
| Type of Steel | <ul style="list-style-type: none"> • Carbon Steel • High Brinell Carbon Steel • Stainless Steel |
| Capacity | Up to 17,000 CFH |
| Diameter | 6" to 30" (and larger) |
| Pitches | Full, $\frac{2}{3}$, $\frac{1}{2}$ |
| Trough | CEMA Standards |
| Options | <ul style="list-style-type: none"> • Liners <ul style="list-style-type: none"> - UHMW - Xylethon - Tivar - AR • Rider Bars • Inspection and Overflow Hatches • Various Drive Configurations Available • Housings: CEMA Standard U-Trough, Split Tubular or Flared Trough |
| Configurations | <ul style="list-style-type: none"> • Single, Double and Triple Designs • Twin Screw • Multiple Live Bottom Feeders • Inclined Screw Conveyors • Grit Washers • Vertical |



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 |

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



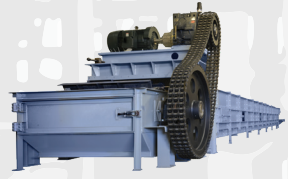
Screw Conveyors

Martin sets the standard when it comes to Screw Conveyors. Martin manufactures and stocks many standard Screw Conveyor components at several regional facilities located throughout North America. Screw Conveyors are available as loose components or shop test assembled, and can be customized to match your requirements. Martin is The One you can rely on for quality product with a fast delivery.



Bucket Elevators

Martin has been designing and manufacturing a multitude of Bucket Elevators for over 75 years with hundreds in service today. We offer a complete line of Bucket Elevators to efficiently handle a wide range of dry free flowing materials in a relatively small space with minimum horsepower.



Drag Conveyor

Martin's Drag Conveyors accommodate a wide range of applications. From round to flat bottom drags, including L and S path designs, we can meet your most challenging specifications. Our standard drag conveyors can reach 64,000 CFH of efficient operations, and our custom capabilities can extend to capacity ranges well beyond that volume.



Belt Conveyor

Utilizing our current component products and manufacturing capabilities, the Martin Belt Conveyor provides customers with another option to convey products of varying shapes, sizes and weights.

Combined with the service and experience, Martin proves we are the ONE you rely on.



Conveyor Pulleys

Martin offers a range of Heavy-Duty Belt Conveyor Pulleys for Standard Duty, Mine Duty, and Quarry Duty, and our Profiled End Disc Pulleys engineered to offer an efficient and improved alternative to standard stock.

Martin has available Engineered Class Pulleys to meet the needs of any belt conveyor system.



Idlers

Martin manufactures heavy-duty Idlers and components that exceed CEMA standards. Heavy-Duty construction and Triple Labyrinth Seals allow for trouble-free part life in the harshest of applications. With Idlers available when and where you need them, Martin can provide the complete solution for your belt conveyor needs.

Martin Sales and Engineering will work with you to completely solve your belt conveying needs. Since there are infinite amounts of conveying possibilities and configurations our sales and engineering staff are prepared to assist you with a custom solution.

Call Martin, we will be happy to assist you!



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Maintenance and
Troubleshooting Guide

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