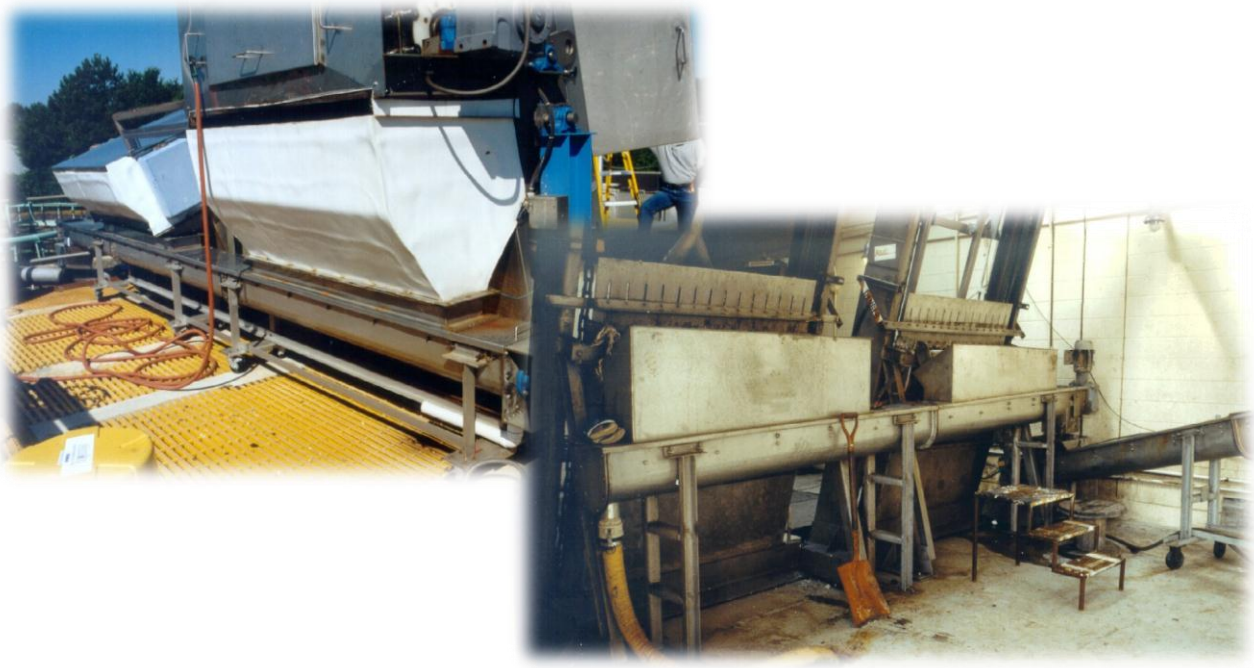
SC SHAFTLESS SCREW CONVEYOR

The Arlat shaftless screw conveyors are of rugged design with a shaftless spiral housed within a stainless steel enclosed U-trough. Elimination of the internal shaft results in higher performance and lower maintenance because it eliminates clogging, wrapping and bridging. There are no end or hanger bearings common with shafted conveyors. These conveyors are used in both municipal and industrial applications.

Design is customized to meet project specifications. Spiral screw diameters, pitch, thickness, length and inclination are determined by type and quantity of material being conveyed. Screw rotational speed is determined by the application capacity and loading requirements.

The shaftless screw design can be used in horizontal, inclined and vertical applications.

Arlat protects against wear on the screw and trough with use of replaceable hardened steel wear bars or UHMW-PE trough liners; this in turn minimizes maintenance costs.



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A variety of options are available to best fit your application:

- 316 Stainless frame and component construction for more corrosive installations
- Manual and automatic slide gates can be used at one or more discharge locations
- Discharge bagger option can be used to contain putrescent odours
- Heat tracing for cold weather outdoor installations
- Full PLC control panels are available that can offer;
    - Rotation monitoring
    - Fluid differential monitoring
    - Speed control for the screen drive system
    - Continuous mode operation during high flow periods
    - Full head works package integration

Technical Information:

- Shaftless flighting
    - (3) sizes ranges are available to best suit your channel size and application
    - Flighting is constructed from AR400 for wear resistance to promote long service life
- Material of construction
    - Trough/transport section, formed 12 Ga sheet
    - Screw wear liner, ½" UHMW
    - Mounting/Pivot frame, painted structural carbon steel
- Drive Assembly
    - 2HP motors and larger are typical selections for wastewater applications
    - Drives are protected from excessive current and over-torque
- Throughput calculators are available to aid in selection of the right combination of screw size, pitch, speed and inclination for your application

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