



Inclined Vibrating Screens



Cedarapids

Maximize Your Production and Profit



Simpli-Flo two-bearing inclined screens are designed for heavy-duty scalping, intermediate sizing and finished screening of virtually any material. Screens are critical to maximizing production of your plant and maximizing your profit.

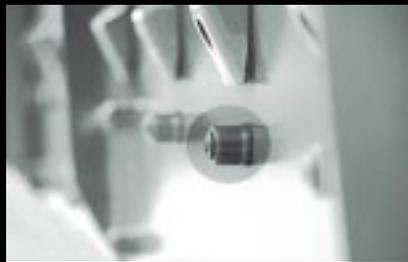
The Simpli-Flo screen, available in a wide variety of models, sizes and deck styles, is used for all types of screening operations in virtually every industry requiring sizing of materials.



One-Piece Deck Construction

Decks are one-piece weldments with thick-wall round pipe cross members welded continuously at each end to the channel side members extending the full length of the side plate. The one-piece construction ensures high structural strength and provides resistance to racking.

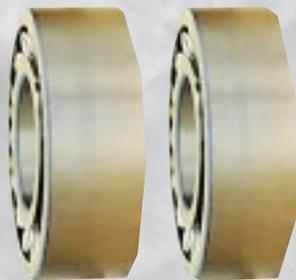
For added strength and rigidity, the crown bars are contoured and stitch-welded to the cross tubes rather than just welded to the tops of the tubes. Round cross members prevent material buildup found on square members, improve the screen's efficiency, and provide a uniform strength and stiffness in the plane of action.



Huck® Fastening

Simpli-Flo screens incorporate Huck® fasteners to secure the decks to the side plates, and elsewhere, providing permanent bolting that does not require retightening. The Huck® fasteners feature a collar that is hydraulically crimped to lock the bolt in place. This eliminates the possibility of a conventional bolt coming loose. A minimum of Grade #5 fasteners are used for high tensile strength.

The large 6', 7' and 8' (1829, 2134 and 2438 mm) width screens are assembled using a double row of Huck® fasteners on each side of the deck for greater rigidity and more even load transfer to the side plates.



Wider 33 Series Bearings

Instead of the narrow 23 Series bearing, Simpli-Flo screens are equipped with the wider 33 Series bearing. Wider bearings mean approximately 25% more bearing surface to provide greater load carrying capacity. This results in an increase of bearing life from 66% to 114%.



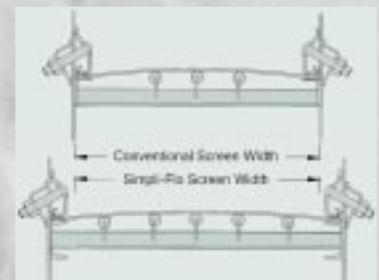
Reinforcement/Stiffener Plate

A flanged, full height reinforcement plate is Huck® fastened to the side plate in the drive area on 5' (1524 mm) and larger width screens. The reinforcement plate increases side plate strength in this area by over 100%, increasing side plate stiffness while reducing stress.



Full-Height Corner Supports

Full height corner support brackets provide for maximum reinforcement. The corner support brackets are Huck® fastened, not welded, to all decks. This design assures the most effective load transfer from the decks to the support springs with minimal load stresses on the side plates.



Full Screening Area

Every Simpli-Flo screen provides the full screening surface length and width according to the given screen size. We measure our screens from the inside of the side rails, rather than the outside of the rails, so you don't get a downsized screen. When you order an 8' x 24' model, you get a full 192 square feet of screening surface. The end result is greater production for you.

Simpli-Flo Engineering Leads the Field

Eccentric Shaft Assembly

The essence of the Simpli-Flo inclined vibrating screen is the heavy-duty eccentric shaft assembly. The shaft assembly is sturdy enough to handle the continuous gyrating action essential to proper screening. You are assured of a high strength eccentric shaft assembly for long-life operation with minimum maintenance. Our rugged, durable construction is illustrated here.

Ready to Go — User Friendly Design

Bearings are pressed into the bearing housing. The innerace floats on the shaft.

V-Belt Drive

A complete V-belt drive package is standard, including; heavy-duty V-belts, deep groove sheaves, flywheel guards, belt guards, and a ball bearing type pivoted motor base to maintain proper belt tension and minimize shock to the motor.

Reinforcement plate increases and distributes strength to screen decks and minimizes stress on side plates

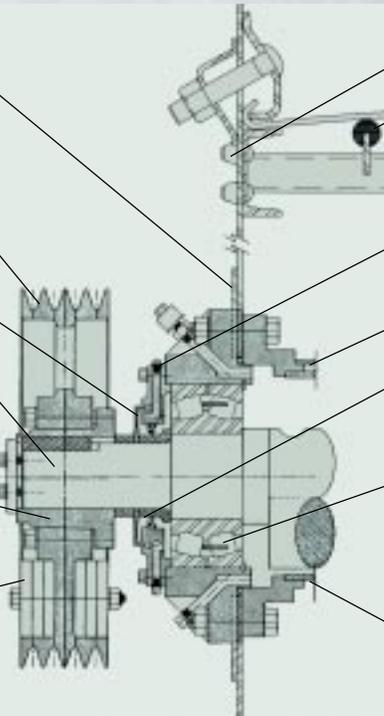
Deep groove sheave to retain belts on the sheave

Outer labyrinth seal keeps dirt and contaminants out

Double extended offset shaft to allow right or left hand drive without a corresponding change to the mechanism

Taper lock bushing on sheave and flywheel to ensure quick and easy removal

Bolt-on weights on sheave and flywheel for easy stroke adjustments



Decks are Huck® fastened to side plates

Longitudinal crown bars with replaceable rubber caps for maximum screen cloth wear

Zerk fitting for grease purge outer labyrinth seal

Tube is shielded for protection and long life

Highly polished replaceable wear sleeve provides longer life for inner seal

Wide 33 Series self-aligning double row spherical roller bearings provide greater load carrying capacity and longer bearing life

One-piece shaft housing weldment

Superior Equipment Design

The Simpli-Flo screen can be mounted using support from below on coil springs...or suspended by rods or cables attached to the plant superstructure.

Changing the hand of drive on a Simpli-Flo screen is easily accomplished by reversing the machine sheave and flywheel on the eccentric shaft. This can be important when a screen is shifted from one location in a plant to another, and requires a different arrangement for mounting the motor and drive.

All Simpli-Flo screens have full width bolt-on feed boxes with a 3/8" (9.5 mm) thick AR bottom liner. Lined feed boxes protect screen cloth and increase screen efficiency.

Precision, Huck® bolted construction assures a screen that will operate at peak efficiency with a minimum of maintenance... year after year. You get the greatest value for your screening dollar with Cedarapids vibrating screens.



Reliability

The real test of a screen is its performance in the field. With many thousands of screens in operation, you can be sure of getting a proven, quality screen. Each unit is tested for a minimum of a four hour break-in period prior to shipment.

Repairability

Standardized screen assemblies, sub-assemblies and components are designed for quick, easy access and repair. In all cases, cartridge-design bearing assemblies minimize downtime and lost production. Precision self-aligning bearings are slip-fit, making inspection and maintenance simple.

Parts Availability

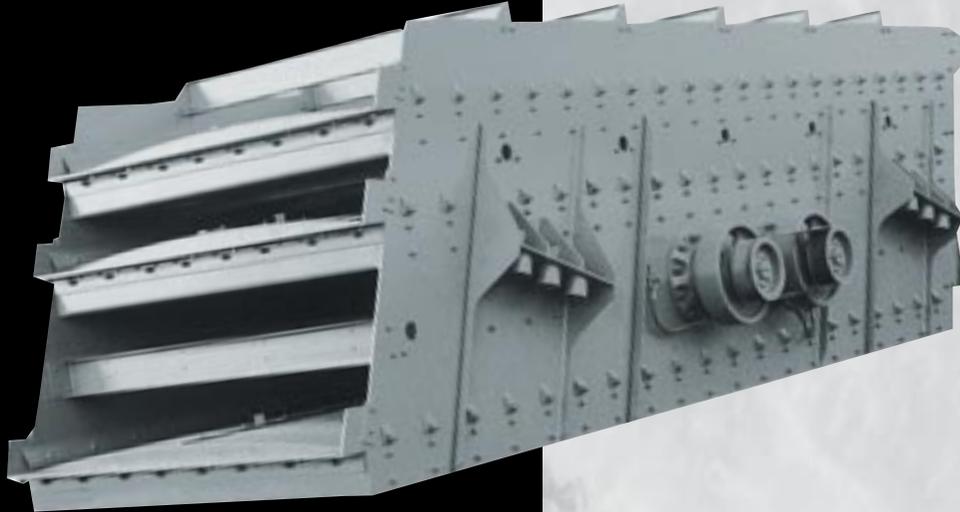
Simpli-Flo screens are backed by a multi-million dollar parts inventory for fast, off-the-shelf availability. Around-the-clock 24-hour service is available for emergency shipments.

Options

- Motors
- Friction checks
- Wedge take-ups
- Ball trays
- End tension decks
- Wear protection for deck cross members
- Rubber springs
- Discharge lip liners
- Center split cloth
- Recirculating oil lubrication systems, water or air cooled
- Dust enclosures
- Side plate liners/take-up liners
- Spray bars
- Extra deck clearance for three-deck models
- Urethane deck covering

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Providing Equipment
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Bulletin IVS-1 (5/00)