

WEIL

Pump Co IncTM

A WILO COMPANY

**Grinders, Slicers,
Movers and Ejectors**



Agent:

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WEIL SLICER/GRINDER PUMPS

Features

Grinder/Slicer:

Solids reduced to small pump-able pieces. (pulp)

Grinders: Normally Low Flow 0–120 GPM

Slicers: High Flow: 0–1000 GPM

Lower Efficiency

Semi-Open or Enclosed Impeller Designs

Axial and/or Radial Cutting Designs

Tightly Toleranced Components



WEIL ENCLOSED/OPEN IMPELLERS



**Enclosed
Sump or Sewage**

- Multi-Vane
- Front and Back Shroud



**Semi-Open
Sump or Vortex**

- Multi-Vane
- No Front Shroud



**Semi-Open
Sewage or Non-Clog**

- Multi-Vane
- No Front Shroud

WEIL SEWAGE PUMPS



Typical Specs

Discharge Sizes: : 2,3, 4, & 6"

Horsepower: 1 / 3 to 50HP

Solid Sizes: 2, 2¼, 2½, 3, & 4"

Capacities: Up to 2000 GPM

Head: Up to 150 feet

Mounting: Quick Removal or Floor Mount



WEIL SEWAGE PUMPS

Features

Sewage:

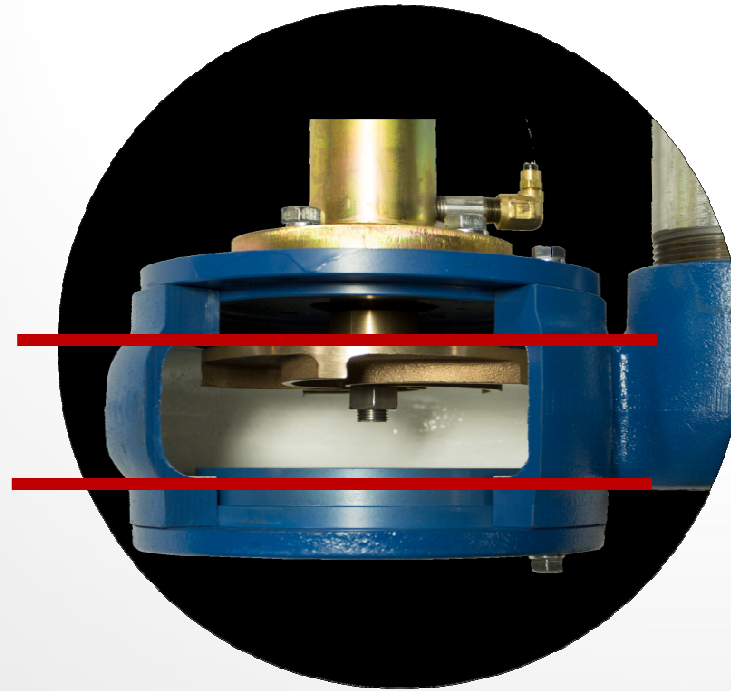
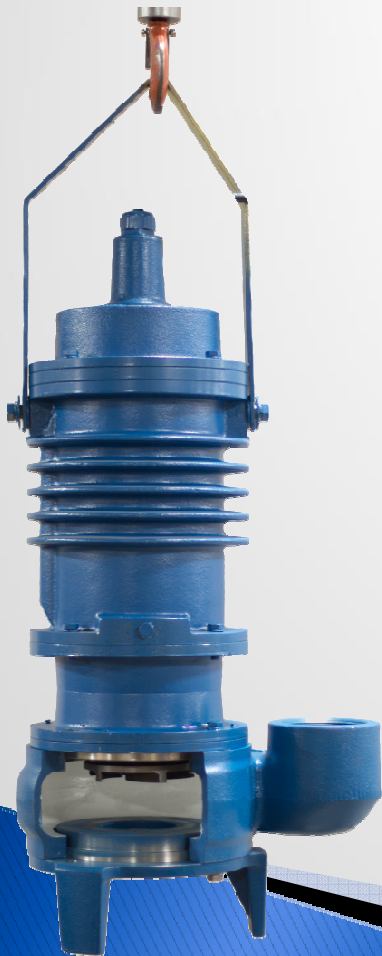
Pumps; clear water, groundwater, storm drainage, sewage, and suspended sanitary solids (*Kotex[®], tampons, papers, etc.*).



- Solids from 1½ -4"
- Normally unscreened
- Typically 2-3 vane impeller
- Close tolerance impeller to suction plate(case)
- Semi-open and enclosed impeller designs

Vortex "Mover" Pumps

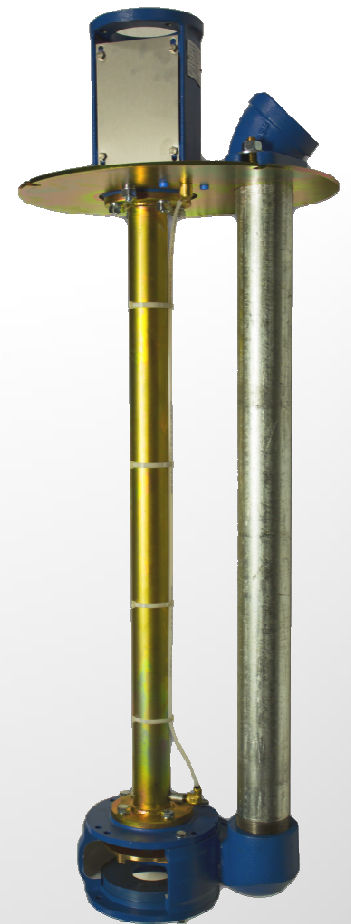
Submersible



Clog Free Zone

Allows free passage of solids up
to 2" diameter.

Vertical



WEIL MOVER PUMPS

Features

Vortex:

Sump type impeller in a sewage case allows for passage of solids through “chamber”.



- 2” or larger gap from impeller to suction plate (case)
- Lower efficiency
- Can pass more “elastic” or “poly” type products in waste stream

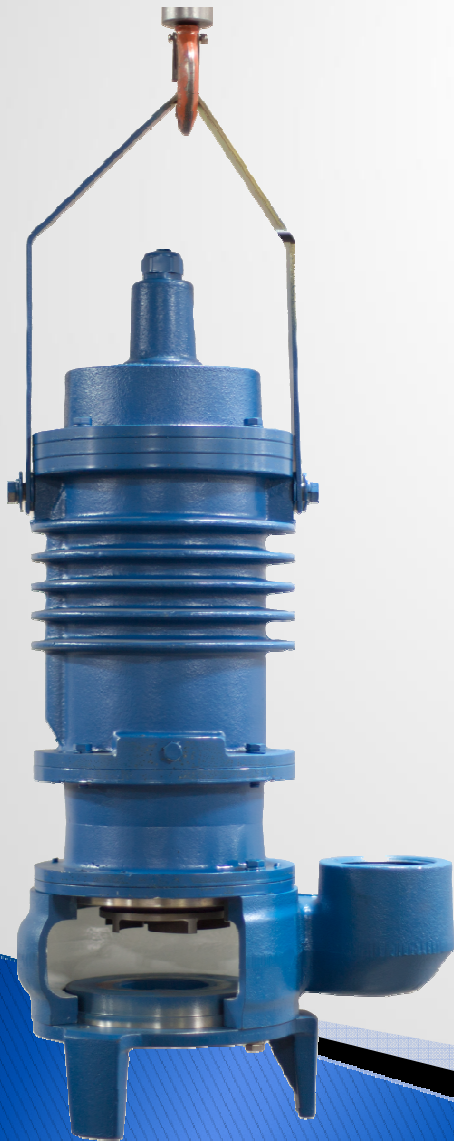
WEIL MOVER PUMPS

Rugged Cast Iron Construction

Successfully Pumps:

- Baby Wipes
- Handy Wipes
- Shopping Cart Wipes
- Barrier Cloths
- Wash Cloths
- No Flush Wipes

See WEIL Models: 2572, 2573, 2574, 2575, 2576, and 2577.



WEIL GRINDER/SLICER PUMPS

Typical Specs:

- Discharge Sizes:
 - Grinder: 2"
 - Slicer: 3 & 4"
- Capacities: 0–1000 GPM
- Heads up to 130 Feet
- Floor Mount or Removal System
- Single & Double Seal Models
- Horsepower ½ through 15 HP



WEIL GRINDER PUMP DESIGN



Grinder Impeller

- Semi-Open, Multi-Vane with a 2 or 4 Blade Rotary Cutter



Grinder Suction Cover

- Typically a small suction opening and a corresponding small discharge size 2"

WEIL SLICER PUMP DESIGN



Slicer Impeller

- Enclosed Multi-Vane with Slicer Blade

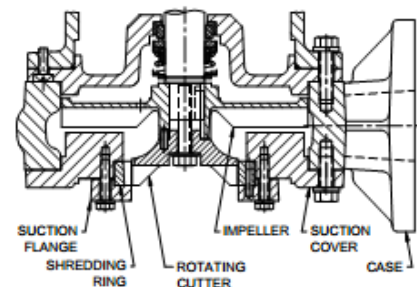


**Slicer Suction
Cover**

WEIL Wastewater Grinder and Slicer Pumps

Grinder

Grinder

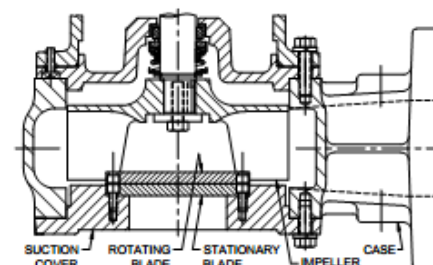


Grinder Pumps – To 100 GPM. Solids are reduced to a 3/8-inch diameter by the grinder cutter and shredding ring components. The 3/8-inch solids are then pumped by the impeller into the discharge line. The impeller is sized to efficiently pump the slurry at flows and pressures determined by the system design.

The grinder portion consists of a hardened rotating cutter mounted on a stainless steel motor shaft. A stationary shredding ring is positioned in the pump inlet. On all models the cutter and shredding ring are made from 440C stainless steel hardened to Rockwell 58C. The semi-open impeller is cast iron. A bronze impeller is available as an option.

Install a ball check valve at the discharge of each pump. An additional third check valve is recommended on the mainline of a duplex system.

Slicer



Slicer Pumps – To 650 GPM. Effectively slices and cuts sewage solids into pumpable pieces. The slicer will devour sanitary napkins, tampons, articles of clothing, disposable diapers, paper towels, newspapers, shop towels, and cigars.

The two slicer blades are 440C stainless steel hardened to Rockwell 58C. One blade rotates with the iron impeller and the other blade is stationary.

The slicer pump combines many of the characteristics of non-clog, cutter, and grinder pumps.

A slicer pump will process more sewage gallons per minute than a grinder pump.

Irvin H.
Geiger Associates, Inc.

Manufacturers' Representatives for Water, Wastewater, Fuel and Air Equipment



**ALYAN
PUMP COMPANY**



**CONTAINMENT
SOLUTIONS**



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