

## How It Works

1.

Fluid/particles are getting tangentially into the separator and are put into rotation.

2.

Internal tangential slots accelerate flow to maximize separation of solids

3.

Particles are separated from fluid via centrifugal action

4.

Separated particles are falling down slowly into the collection chamber at the bottom of the separator.

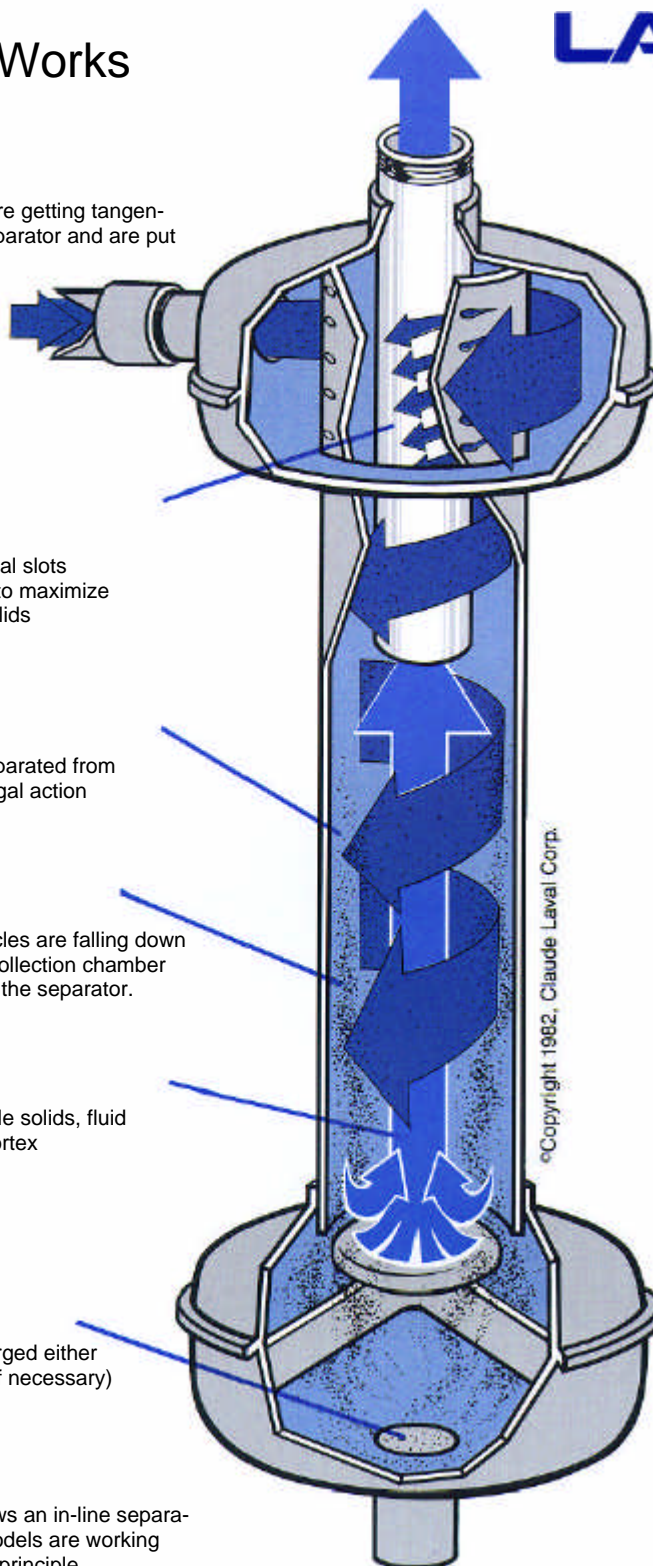
5.

Free of separable solids, fluid spirals up the vortex to the outlet

6.

Particles are purged either periodically or (if necessary) continuously.

The sketch shows an in-line separator. All other models are working along the same principle.



## LAKOS Separators

Ideally suited for small system applications, side-stream installations and individual equipment protection. LAKOS ILB Separators are the popular choice for removing sand, grit and other fine solids from source of process water/liquid systems, removing 98% of such particles 200 mesh (74 microns) and larger. With heavier solids (metal chips, lead, etc.), expect even better results. Its unique centrifugal style of filtration is not only efficient, but also troublefree, boasting these standard features:

**No moving parts to wear out**

This eliminates mechanical failures and troublesome replacement parts.

**No screens or filter media**

No screens, cartridges, cones or filter elements to clean or replace.

Saves labor, reduces downtime and eliminates the ordering and stocking of spare parts.

**No backflushing**

Minimizes water/liquid loss. Zero liquid loss options available.

**No downtime requirements**

All units are designed to operate continuously with no routine shutdowns for cleaning or maintenance. Purging of separated solids may be performed during full operation with no loss of performance.

**Low pressure loss**

Consistent with the system's flow rate, LAKOS Separators typically require no more than 5-12 psi (0.3 - 0.8 bar) for effective solids removal without troublesome pressure fluctuations.

**Available in two standard materials of construction**

LAKOS ILB Separators are available in either carbon steel or stainless steel. Each has distinct qualities with regard to corrosion, pressure and cost.

**LAKOS ILB Separators. The simple, easy-to-use solution for a wide variety of solids-from-liquids problems.**