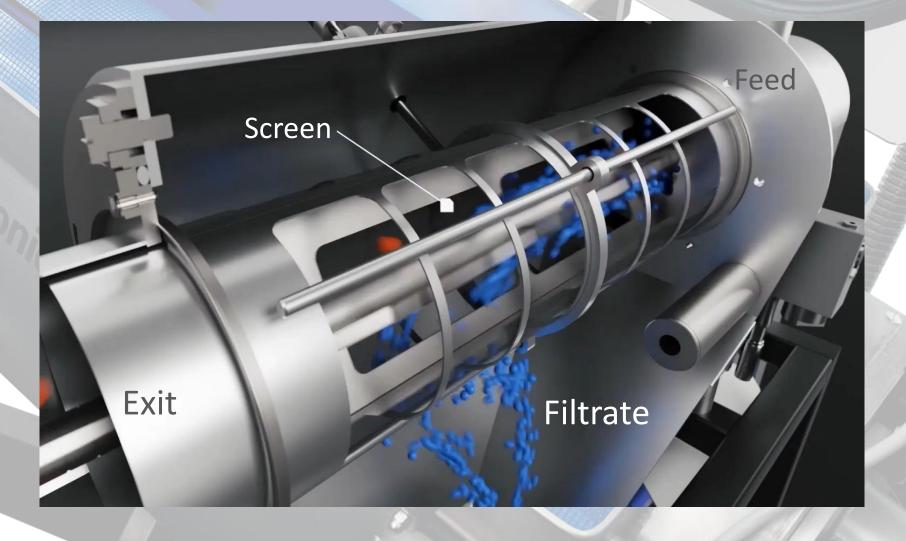




Assonic has manufactured centrifugal separators supported by ultrasonic force since 2010. This technology has proven results for sifting of fine dry powders. Liquid Filtration is our next endeavor.









The new RoSL 700



Liquid filtration & separation now from 5 –25 μm made possible by Sonic Speed Screen technology (patented).

• Centrifugal forces supported by ultrasonic exitation and our special energy conducting metal filtraton media.

• Continuous Crossflow Filtration.

Self- cleaning.





Standard features of the new Assonic RoSL 700



- High throughput with a filtration range from 5 2000 μm.
- No backflushing or change of screens or media is required.
- Low energy consumption small footprint.

- Long lasting filter media.
- Filter screen and housing are made of stainless steel.
- Corrosion resistant filter medias are available.
- Wide range of filter media designs & weave patterns are available.

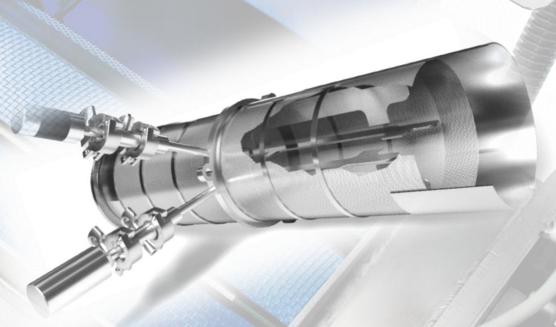




Our Technology: Sonic Speed ScreenTM assonic



- Our unique design reduces the need for extra support and energy transfer layers in the screening media.
 - increased flow rate by 30%
- Self-cleaning of the screen
 - → less clogging of the screen
- Breaking up of agglomerates









Our Sweet Spot for Liquid Solids Filtration!

- Clarification of fluids (Example: Removing suspended solids).
 - Continuous filtration starting at 5 μm.

- Thickening or dewatering of a slurry.
 - Strongly increasing the solid content of sludge.

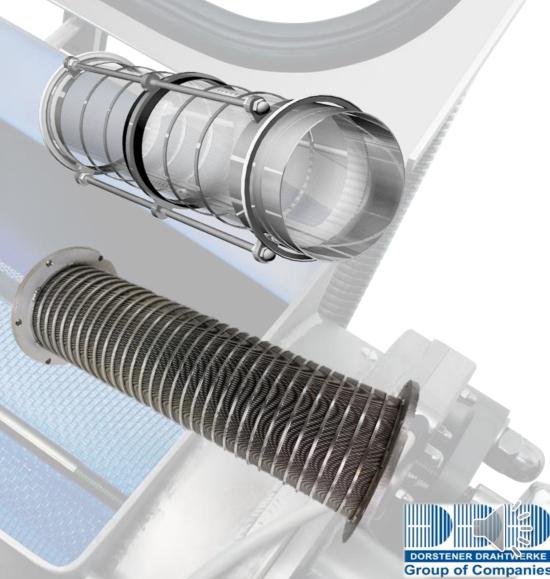
- Dehydration of solids, fibers and pellets.
 - Remove of liquid from solid materials.





Filter Basket Options to Maximize Performance & Filter Life

- Fine & Medium Separation 5 500 μm
 - Woven-mesh baskets
 - Sintered woven wire cloth media
 - Dutch weave & high flow stainless steel cloth (corrosion resistant alloys available)
- Heavier Separation
 - Wedge wire screen baskets
 - often used for thickening and above 100 μm
 - different stainless alloys available



assonic 10



Filtration Models

RoSL 700

- Fully equipped with Sonic Speed Screen.
- Mainly used for clarification and dehydration.
- Can utilize a wide range of screens.

• RoSL 710

- Heavier, more rubust design. Primarily used for thickening and dehydration of fluids.
- Can be used without ultrasonic support.

Both versions are equipped with the following:

- Rotating paddle up to 1000 RPM variable in shape and speed
- Adjustable incline up to 30°
- Automated controls are available











Current limitations



- There are many possible applications, as long as solids and liquids need to be separated. Testing is the key indicator of perforance and capacity.
- Upscaling: Our current machines cannot handle massive quantities, but have the option of connecting multiple units in series, to achieve higher thoughputs.
- Testing: Often, the testing performance of our unit is limited by our pump and piping capacities.













- Aluminium hydroxide
- Security / Protective Filtration
 - RoSL 700
 - 25 μm
 - 6,5 m³/h (limited by pump)
- Calcium hydroxide suspension
- Large particle removal
 - RoSL 700
 - 45 μm
 - 10 m³/h









- Chocolate, highly viscous
- Safety / Protective Filtration
 - RoSL 700
 - 500 μm
 - 1,5 m³/h
- Coffee- glucose suspension
- Dewatering
 - RoSL 700
 - 25 μm
 - 1 m³/h









- Gelatine
- Large particle removal
 - RoSL 700
 - 154 μm
 - Ca. 12 m³/h

- Wire drawing coolant
- Solids removal
 - RoSI 700
 - 20 μm
 - Ca. 350 l/h









- Biogas plants- press water
- Solids removal
 - RoSL 710
 - 100 μm
 - 7 m³/h
- Fish Farm pond water
- Clarification
 - RoSI 700
 - 45 μm
 - 4 m³/h (limited to pump capacity)









- Paper fiber
- Thickening
 - RoSL 700
 - 200 μm
 - 7 m³/h
- Plastic extrusion / pelletizing
- Pellet drying
 - RoSI 700/710
 - various sizes
 - > 10 m³/h (water)







Outlook



- Filtration with 5-25 μm is new for continuous centrifugal machines.
- We are currently testing 5 μm and finer filter cut points.
- Ultrasonically supported crossflow filtration provides a safe and economical solution for batch and medium flow filtration requirements.
- Clarifying, pre-filtration, and dehydration. Please provide details of your separation needs to propose the right Assonic RoSL solution.





We separate solids from liquids!



Dorstener Wire Tech Inc. 19994 Hickory Twig Way Spring, TX 77388, USA sales@dwt-inc.com www.dwt-inc.com

Assonic Dorstener Siebtechnik GmbH Am Graben 6, 42477 Radevormwald, Germany

info@assonic.de

www.assonic.de

Thank you for your attention!

