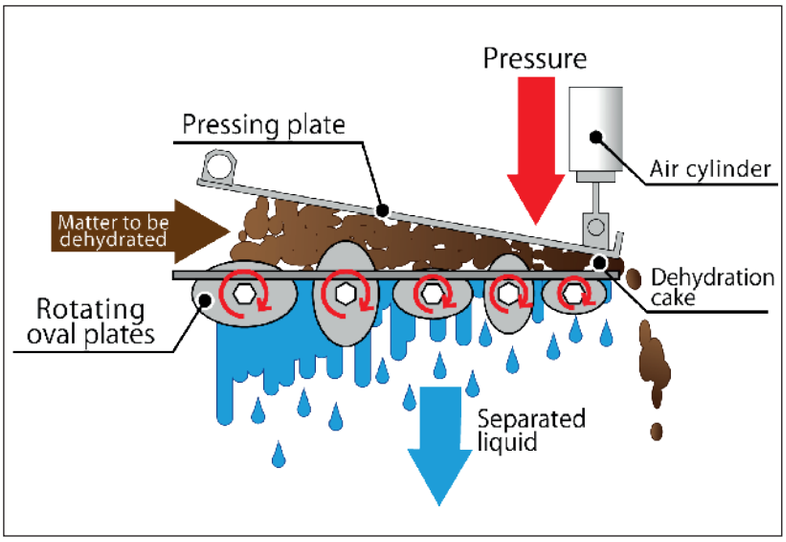
The high efficiency roller action of the KDS unit is now being incorporated into a CST Wastewater Technology mixed waste installation on World Heritage listed Lord Howe Island.

- Barrel polishing water, water-based paint wastewater, grease trap waste, dyeing wastewater, waste oil, and plastic recycling.
- Seafood processing
- Sewage treatment, including raw wastewater (primary screening) and sludge to landfill

How it works

The clog-free automatic liquid-to-solid waste separator dewaters solids and conditioned sludge on a self-cleaning wedgewire belt. This static belt is cleaned by a unique set of rotating oval shape plates.

After the drainage and thickening zone, the thickened sludge passes a dewatering zone which consists of an adjustable plate, actuated manually or by pneumatic cylinder to further squeeze the solids.



The technology involved in KDS separators, which have been proven in thousands of applications worldwide and recently specified in Australasia for use as a major element of a CST Wastewater Solutions installation on the World Heritage listed Lord Howe Island.

The KDS' unique self-cleaning dewatering and conveying system features an oval plate separation and transfer structure that prevents clogging and permits automatic continuous operation that handles oily and fibrous material with ease.

"This simple-to-maintain separator offers a high throughput within a small body, with the smallest model being just under 350 mm wide and weighing 50 kg. The compact rotational oval plate structure achieves high transportation and separation efficiencies, while the simplicity of the machine's overall structure offers low maintenance, achieving cost and OH&S benefits through less handling being required to clear hazardous materials.

"The KDS separator uses a fraction of the power of a centrifuge and requires no water usage during operation, unlike a belt press or a screw press. For a relatively low investment cost, it also offers a high performance alternative to sludge drying beds and geobags, for example," says Mr Bambridge.

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