## Enhanced Screw Press Dewatering Device for Hardto-dewater Sludge

Developers: Hokuryo Co., Ltd., Kobelco Eco-Solutions Co., Ltd.

Achieve proper coagulation and dewatering performance required for a good floc formation. Improve the dewatering performance against hard-to-dewater sludge with low power. Reduce greenhouse gas emissions

## 1. Highly efficient two-stage **Proper flocculation** flocculation High concentration thickener \*No required for high Efficiency Single Stage Coagulation High concentration by pre-Polymer coagulant thickening and secondary Secondary high performance Primary flocculator flocculation М flocculator High concentration thickener Sludge -**Primary** flocculator Inorganic coagulant Polymer coagulant Optimized flocculation Secondary high performance flocculator Dehydrator hopper Dehydrator Dehydrator Non-press in sludge **Dewatered** supply from hopper cake

## 2. Highly efficient single-stage flocculation

Dehydration providing proper power to flocs

No high concentration thickener is required High dewatering performance for mixed sludge, which is relatively easily dewatered, with no high concentration thickener

Work with mixed sludge and anaerobic digested sludge generated from CAS process + mechanical thickening \*Dewatering performance varies depending on sludge properties.

Ask JS for details

## **Needs**

Achieve low water content rate even for hard-to-dewater sludge **Benefits** 

The dehydration of hard-to-dewater sludge and mixed sludge with low power reduces power consumption and sludge generation