

OREX 500

Organic Extrusion Press



Key Benefits

- **Fully automated operation**
- Overload detection and protection
- MCC motor control cabinet with HMI display
- Hydraulic power pack
- Automatic greasing system
- 170 kW average electric power consumption
- 10 to 15 t/h of material threated



Anaergia Solution

The **OREX** technology is a waste pressurizing technology that separates waste into two fundamental fractions. An organic wet fraction with hardly any non-organics and a solid dry fraction with almost no organic substances.

The separation technique consists of a chamber equipped with an extrusion matrix, and a moving ram. While the ram moves forward, the volume of the chamber decreases and the pressure rises. The moving ram compresses the waste in the chamber and the organics become more fluid due to the rising pressure. When the organics become more fluid, it can escape the high-pressure chamber through the extrusion matrix, leaving the solid waste behind.



Applications

The OREX technology can be applied on a waste stream that contains a significant amount of organics. And these organics need to be separated for further processing. For example, the organics in municipal solid waste (MSW) or biowaste / source separated organics (SSO) contains a large amount of energy and has great potential for anaerobic digestion.

Maximum capacity in metric ton / hour

		Feedstock density (kg/m ³)				
		400	500	600	700	800
Extruded fraction / yield	95%	15	18	20	20	20
	90%	15	18	20	20	20
	85%	15	18	20	20	20
	80%	15	18	20	20	20
	75%	15	18	20	20	20
	70%	15	18	20	20	20
	65%	15	18	19	19	19
	60%	15	17	17	17	17