

OREX™ 500

ORGANICS EXTRACTION & RECOVERY



The OREX™ 500 Organic Extrusion Press

BENEFITS AT A GLANCE

PREMIUM CLASS ORGANICS RECOVERY TECHNOLOGY

The organic extrusion (OREX™) press is leading the way in municipal solid waste (MSW) solutions. It reliably and efficiently separates MSW streams into a wet organic paste and a dry fraction, adding significant value through both resource recovery and diversion.

The press **recovers over 90% of putrescible organics from mixed waste streams** and diverts material away from landfills by converting organics such as food waste into energy. The high-pressure extraction chamber separates food scraps, vegetable waste, restaurant waste and organic liquids from mixed municipal waste. The unique extraction process ensures that physical contaminants such as plastics, glass and paper are minimized in the extruded fraction. The reject frac-

tion contains small amounts of digestible feedstock for further recycling processes and refuse derived fuel production (RDF). Since most of the wet organics are extracted, the **calorific value of RDF increases**. During extrusion, the wet organic paste is disintegrated under the applied pressure and creates maximum surface area for biological processes, it serves as an excellent base for anaerobic digestion feedstock. Further processing with Anaergia's polishing technologies increases the quality and results in very high biogas production and clean digestate.

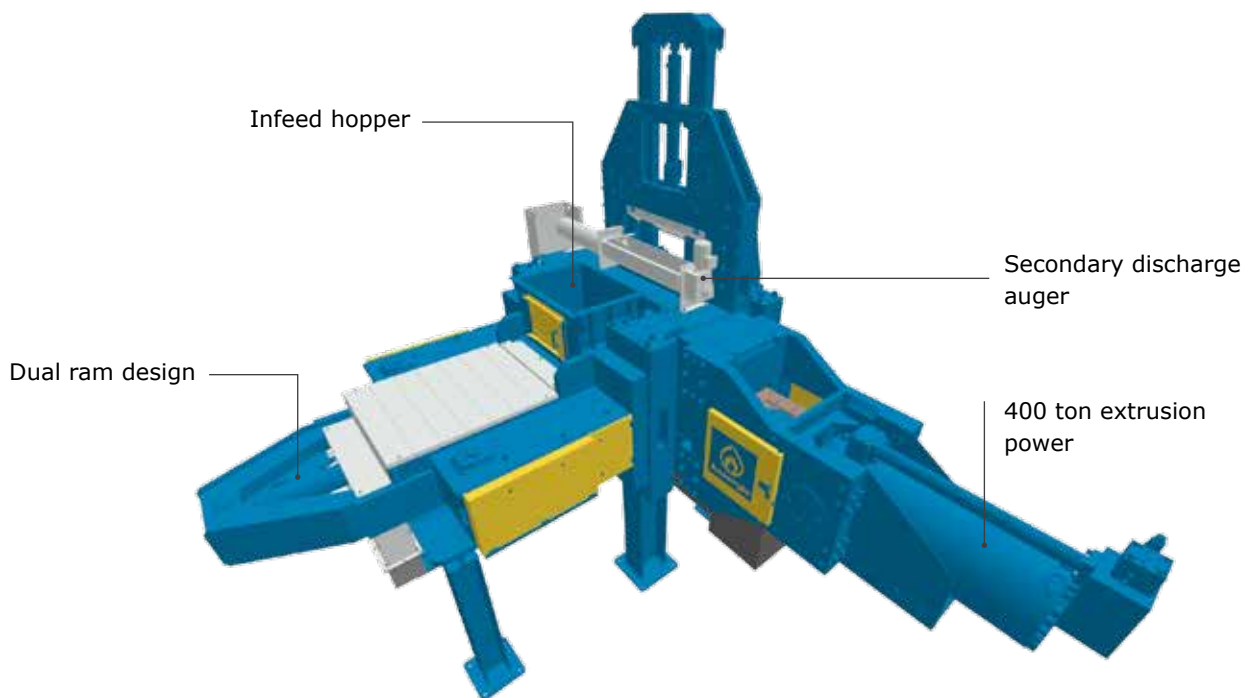
With removeable wear plates and the machine's overall smart design, maintenance can be performed fast, resulting in more uptime and more material processed.

INTELLIGENT:

Independent hydraulic power unit controlled with a high level of automation results in faster cycle times, lower energy consumption and infrequent operator intervention

FLEXIBLE:

Modular design and construction suitable for new and existing facilities



EFFICIENT:

Up to 90% putrescible organics recovery (depending on input material)

ROBUST:

4000psi (280bar) maximum operating pressure

ECONOMICAL:

Low energy consumption and reduced noise production

BUILT FOR THE TOUGHEST SOLID WASTE APPLICATIONS

THE OREX™ PRESS



OREX™ Achieves: Organics Extraction | Landfill Diversion | Resource Recovery

The proven **OREX™ technology** has been in operation in many applications around the world for more than twenty years. From waste streams containing significant amounts of organics to pretreatment of different organic feedstocks in preparation for anaerobic digestion – OREX can be integrated into both existing and new waste management facilities or transfer stations.

By centralizing organics recovery from mixed municipal

solid wastes, the **OREX™** can be used in lieu of source separated organics collection programs at a lower cost and with much higher diversion.

The extruded fraction is >90% clean of physical contaminants, easy to handle due to its high solids content, and is highly degradable in anaerobic digesters. In combination with a bag opener, disc screen and ferrous magnet, even better results can be achieved.

APPLICATION EXAMPLES

- » Mechanical biological treatment for mixed municipal solid waste
- » Pretreatment (removal of contamination) from different organic feedstocks
- » Processing of highly contaminated municipal solid waste, food waste, kitchen and catering waste, source separated organics, etc.
- » Integration into existing and new waste management facilities or transfer stations

TECHNICAL FEATURES

- » 4000psi (280bar) maximum operating pressure
- » Linear position detection for accurate movement control
- » Exchangeable wear plates to increase lifespan
- » Independent Hydraulic Power Unit
- » Efficient ram design available in single ram and dual ram, resulting in short cycle times, high number of cycles per hour and high capacity
- » Optional scrapers to increase performance
- » State-of-the-art automation and software with remote access functionality over Internet

OUR ANAERGIA TECHNOLOGIES

We offer solutions for the following applications:

- » Pump Technology
- » Mixing Technology
- » Separation
- » Extrusion Technology
- » Screening & Sorting
- » Size Reduction
- » Organic Polishing
- » Conveyor Technology



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