

IPS Composting System



Water Technologies



The IPS Composting System Advantage

Turn to the proven automated, agitated composting system The IPS Composting System (IPS) is an automated, aerated, agitated-bin technology that is installed in more than 25 facilities worldwide. With over 20 years in the industry, IPS uses precise process control to turn organic residuals into highquality marketable compost products and to stabilize residual waste in Mechanical Biological Treatment (MBT).

Annually, IPS converts more than 500,000 tons (450,000 tonnes) of biosolids, source-separated organics (SSO), municipal solid waste (MSW), and other organic residues into high-quality compost. IPS composting facilities vary widely in plant size and in the materials they process. Each day, Rikers Island, New York processes10 tons (9 tonnes) of kitchen waste, while Burlington County, New Jersey composts 270 tons (240 tonnes) of biosolids and green waste.

Stabilized, nutrient-rich compost produced by IPS has been used around the world for landscaping in Washington, D.C., for potting soils in Wellington, New Zealand, and for agriculture in the Aquitaine region of France.

Choose IPS for a broad range of applications

Composting plants and MBT facilities throughout the world select the versatile IPS technology for a broad range of applications. Biosolids, SSO, and green waste plants use IPS as the primary active composting stage. MSW plants choose IPS as the fermentation, or maturation, phase that follows the preprocessing system. MBT facilities rely on IPS as the primary technology to reduce volume and stabilize residual wastes before landfilling. To allow more room for non-recyclable materials, Rapid City, South Dakota and Delaware County, New York use integrated recycling systems and the IPS Composting System to extend the life of their landfills by at least 25 years. Halifax, Nova Scotia takes this concept one step farther with an MBT application prior to landfill disposal. In this plant, IPS stabilizes shredded materials by pathogen control, decreases volume, diminishes odors, and reduces attraction of vectors such as rodents, birds and insects.

Control quality and performance

The special features of the IPS Composting System provide a high degree of operational flexibility and adaptability to varying conditions of feedstock quantities, consistencies, and concentrations. System options include agitator machine size, horsepower, and bay speed variations to meet the unique needs of recycling and composting facilities. A patented level-bed agitator attachment maximizes capacity of the bays.

The major advantages of IPS include daily or regular agitation and controlled temperatures, aeration, and moisture addition that produce a homogeneous compost material and assure product consistency. Automated controls achieve these results with the CompMaster® Computer System, which manages the entire composting process. The CompMaster® system collects critical data to provide organic mix ratios, track composting materials, regulate temperatures, control moisture addition and generate regulatory reports. Facility personnel can easily monitor compost characteristics with the assurance of meeting customer expectations and regulatory requirements.





Compost use includes green roofs, landscaping, potting soils, soil blending, agriculture, storm water control, and slope protection.

Control process odors

IPS facilities successfully manage composting odors by housing the process in an enclosed building and by maintaining aerobic conditions. A building exhaust system and biofilter or scrubber remove and treat the building air emissions.

Select a cost competitive solution

IPS is cost competitive with other composting technologies due to its automation, special process control features and smaller land area requirements. Through innovative design and frequent agitation, the IPS system is not restricted by porosity and can use various sizes and types of bulking agents. This eliminates the need to purchase specialty amendment materials.

The accelerated process reduces the detention time and, therefore, the land area required for active composting. The IPS computerized process control and agitation maximize ideal composting conditions that promote biodegradation of organics. This results in high-quality products that are ready to go to market ahead of other technologies. IPS produces green waste compost in one month, compared to at least four months in a typical open windrow system.

The revenue from compost depends on meeting the consumer demand for quality and consistency. By controlling multiple composting variables, IPS helps customers achieve this goal.

Apply IPS to wastewater solids and biosolids

IPS composts the full range of wastewater solids and biosolids, including septage, raw and undigested solids, and aerobically and anaerobically digested biosolids. In fact, four regional IPS composting plants in the U.S.A. and France serve multiple wastewater treatment facilities that produce a wide variety of solids types. For new plants and plant upgrades, eliminating digestion and going directly to composting will result in a beneficial product without additional processing. For example, the University Area Joint Authority at State College, Pennsylvania dewaters and sends septage and undigested, primary, and waste activated solids directly to IPS composting. The finished compost quality and characteristics are virtually the same regardless of the solids pre-processing, and the end product is marketable.

Partner with the leader in systems and services

Siemens provides more than IPS composting equipment. Experienced engineers and staff create turnkey recycling programs that include evaluation, cost estimates, facility design consultation, training, and aftermarket services. Anticipating our customers' ever changing needs, we continue to make innovative improvements to make your life easier.

Siemens Water Technologies and Siemens family of companies provide many other components for composting facilities, including electronics, odor control, security systems, power, and financing. With our innovative technologies and services, you can easily and efficiently manage your programs and achieve your environmental objectives while staying within budget.

IPS Advantages

- Automated agitator and process
- Versatile industry applications
- Durable and highly efficient
- Ease of operation and maintenance
- Totally enclosed system
- Marketable end product

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