



Compost
Systems

Composting 4.0

Earth Flow

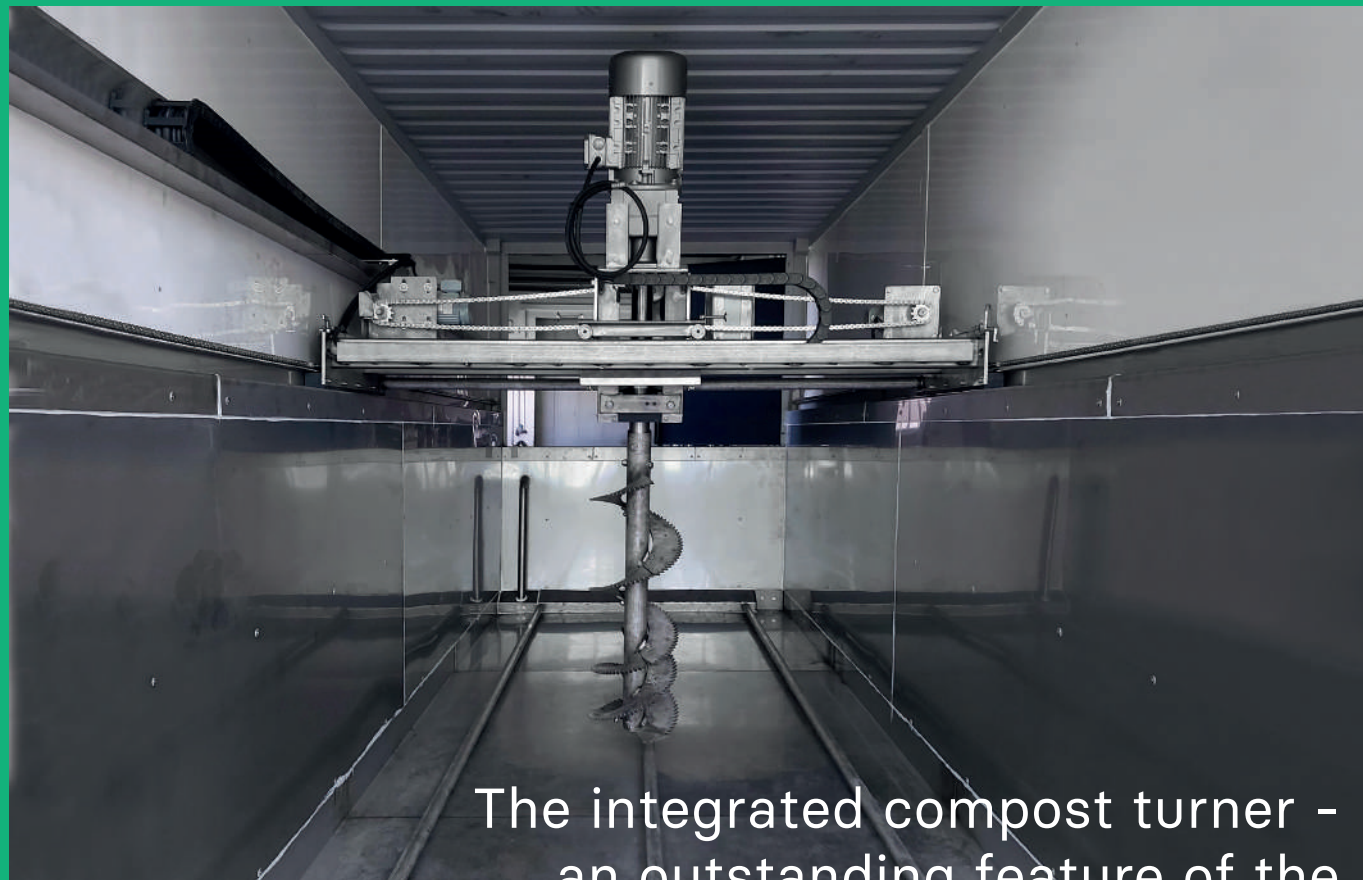
*The scalable plug&play solution
for locally produced quality compost.*



Earth Flow

The Earth Flow plug&play system is your contribution to closing local cycles. You reduce costs and emissions caused by transporting waste and purchasing compost. You compost with the perfect decentralized and climate-friendly solution. And it relieves you and your employees by automatically turning the compost according to your specifications.

The sophisticated Earth Flow product family is the benchmark for operators who want to use compost directly where organic waste is generated. The Earth Flow is scalable from 0.5 to 20 tons per day and thus offers a wide range of possible applications. It provides a fully automated, one-stop-shop system that uses cloud services and remote monitoring to turn your organic waste into compost.



The integrated compost turner -
an outstanding feature of the
Earth Flow product family

The integrated and automatic compost turner in corrosion-protected design produces valuable compost in record time.

Benefits using the Earth Flow

Closed system without odour emissions

The container-based variants of the Earth Flow product family are designed as closed systems. For use in sensitive environments, an additional biofilter can be connected for exhaust air treatment. This keeps the odours in the system and the neighbors happy.

Integrated turner

The heart of the Earth Flow concept is the integrated and independently operating compost turner. It carries out all turning processes automatically according to your preconfigured requirements. Turning can be carried out in batch or flow-through mode (mechanically adjustable).

Top quality compost

Optimized and intensive turning in combination with automatic aeration and irrigation enables you to achieve amazing results in a very short time. After just 10 to 20 days, the material can be used as fresh compost or sent to the maturation area for maturing.

Intelligent process monitoring

With the METIZ cloud-based control system, you can control and monitor your composting process remotely. You are independent of devices and location and have control over your composting process 24 hours a day, 7 days a week.

Complete automation and optimal conditions

The Earth Flow system carries out all the steps required for the composting process automatically - turning, aerating and irrigating. This produces valuable compost in record time. The Earth Flow concept allows optimal conditions for the microorganisms at any time of day or night, regardless of climatic influences in summer or winter.

Adapted to your needs

The Earth Flow product family includes different designs and is scalable in the range from 0.5 to 20 tons per day. Plug&play versions are delivered pre-assembled in 20' or 40' containers and are ready for immediate use. Or you can prepare the foundations on site, into which the technology package supplied by Compost Systems is integrated. You can also order the prefabricated concrete elements with integrated ventilation from us as a kit.

Minimal costs and emissions

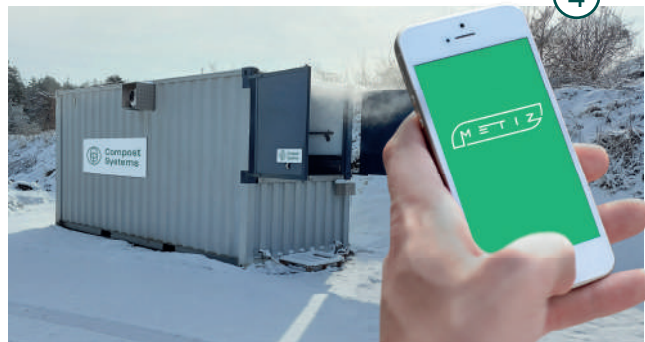
Earth Flow stands for local compost production in a compact design with small space requirement and with the lowest possible energy consumption. With little labor input and the support of the latest technologies, you can produce compost where the raw material arises. And without causing costs and emissions for transportation or waste logistics.



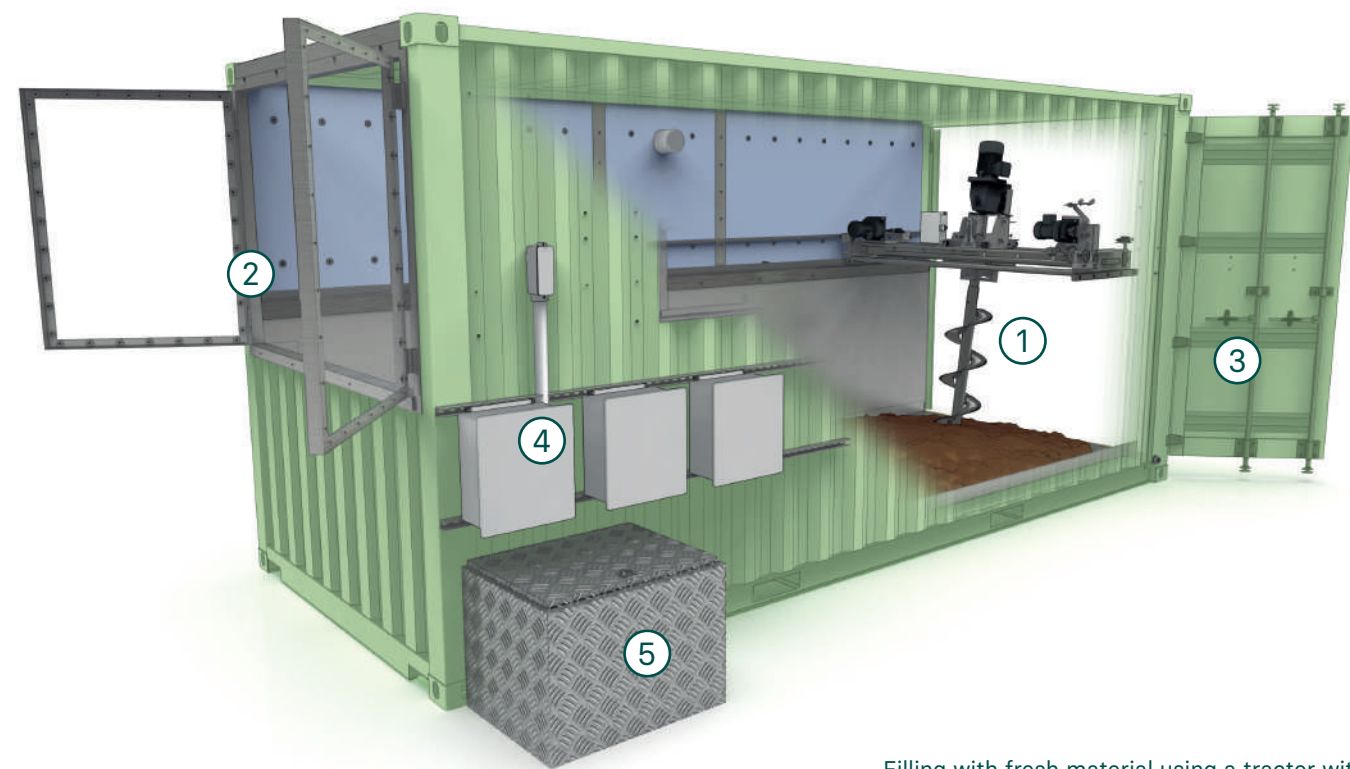
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The integrated compost turner mixes the material in a customized and automatic way. It also aerates and, if necessary, irrigates.

The METIZ cloud service-based control and monitoring system allows access to all relevant information around the clock from any device with an internet browser.



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Filling with fresh material using a tractor with front loader, Bobcat or loader.

Filling with fresh material with a garbage bin lift or manually.

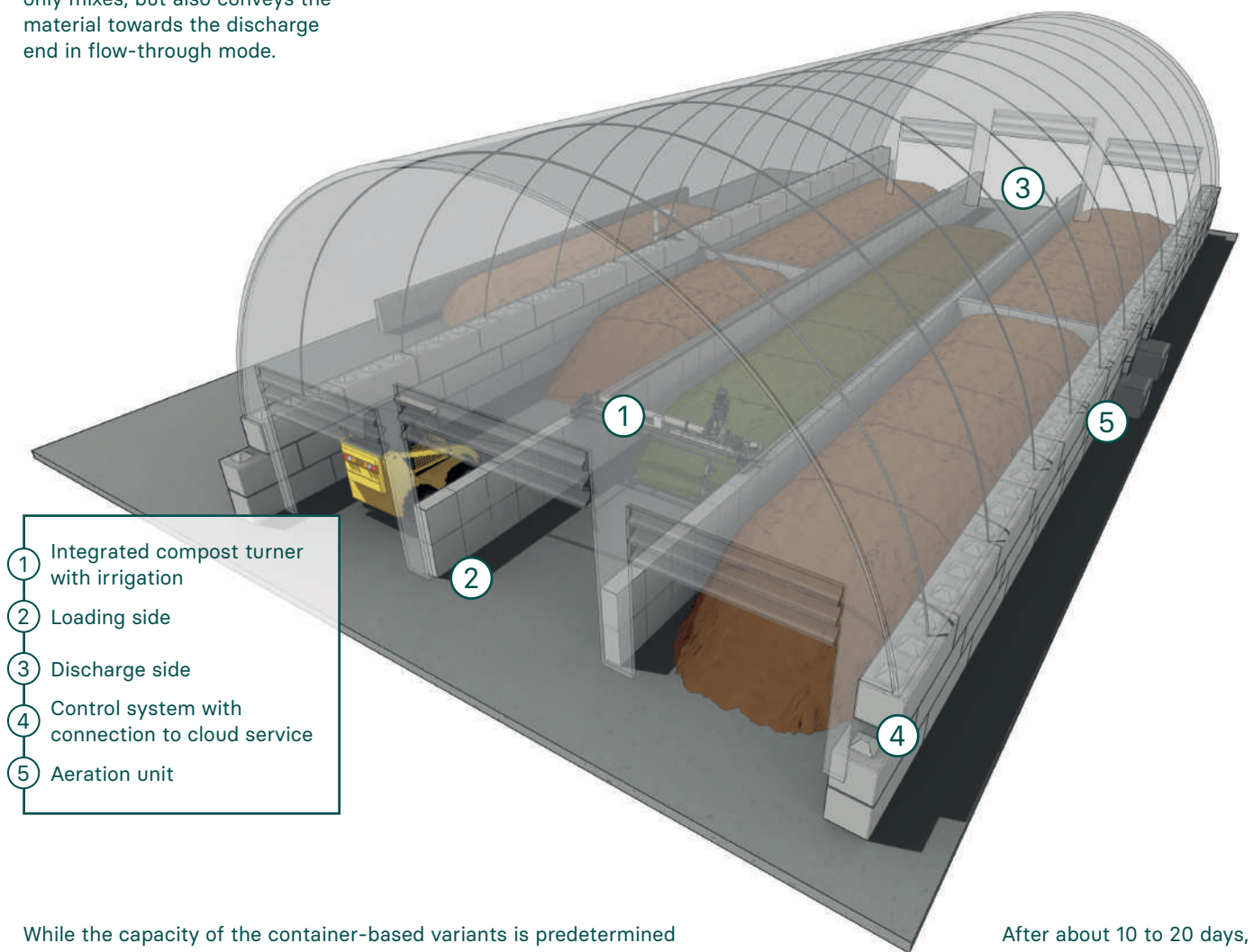
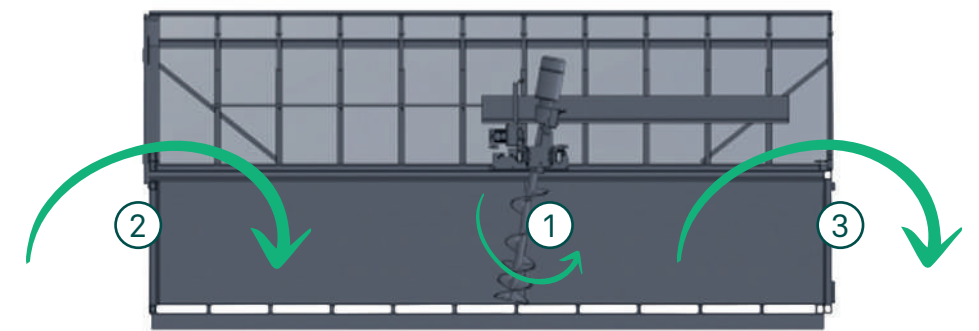
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In flow mode, you can add fresh organic waste at the loading side every day. The Earth Flow automatically mixes the material, the microorganisms begin their work and are optimally supported by the precise addition of air and water.

The integrated auger-turner not only mixes, but also conveys the material towards the discharge end in flow-through mode.



- ① Integrated compost turner with irrigation
- ② Loading side
- ③ Discharge side
- ④ Control system with connection to cloud service
- ⑤ Aeration unit

While the capacity of the container-based variants is predetermined by the physical size, the concrete variants are scalable and can be designed according to customer requirements.

After about 10 to 20 days, the product can be removed, odor-free and ready for screening.



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Technical Data

	EF-IM-15	EF-IM-30	EF-CX-**
Capacity:	~ 15 m³	~ 31 m³	from ~ 25 to 180 m³
Empty weight:	~ 6 t	~ 8 t	–
External length:	~ 6.2 m	~ 12.3 m	from ~ 6.9 to 16.1 m
External width:	~ 2.7 m	~ 2.7 m	from ~ 3.5 to 10.5 m
External height:	~ 2.9 m	~ 2.9 m	Project specific!
Transport width:	~ 2.5 m	~ 2.5 m	< 2.5 m

Due to manufacturing tolerances and design changes, the dimensions given may vary slightly.
All information without guarantee.

Daily / annual processing capacities

Dwell time per batch	EF-IM-15		EF-IM-30		EF-CX-**	
21 days:	0.5 t/d*	190 t/a*	1.1 t/d*	410 t/a*	0.9 to 6.8 t/d*	343 to 2,482 t/a*
14 days:	0.7 t/d*	270 t/a*	1.5 t/d*	530 t/a*	1.3 to 9.3 t/d*	467 to 3,402 t/a*
10 days:	1.0 t/d*	370 t/a*	2.0 t/d*	720 t/a*	1.8 to 12.7 t/d*	639 to 4,643 t/a*
7 days:	1.3 t/d*	480 t/a*	2.6 t/d*	960 t/a*	2.3 to 16.4 t/d*	822 to 6,004 t/a*
5 days:	1.7 t/d*	610 t/a*	3.4 t/d*	1,240 t/a*	3.0 to 21.8 t/d*	1,097 to 7,965 t/a*

*t/d tons per day or t/a tons per year. Assuming an aggregated bulk density of approx. 500 kg for mixed rotting material and assuming continuous filling 7 days a week and a reduction in volume due to composting in the container.

**Project specific design in the range from approx. 25 to 180 m³ nominal filling volume, designed as a single system or several systems in combination.

Features

Screw mixer:	diameter 35 cm, stainless steel 1.4301
Control cabinet and control panel:	control locally and via cloud service, PLC
Installed power:	6.3 to 19 kW
Electrical connection:	for motors 400 V / 50Hz, 3-phase, 16 to 40 A
Biofilter:	optional





Compost
Systems

Made in Austria – Approved worldwide

As a leader in solutions for biological waste treatment, we have been working on high-performance and economical environmental technology since 1987. Through many years of experience and relevant expertise, we have managed to produce Austrian quality products for efficient, material-friendly compost production. Whether in the gardening, agricultural or purely industrial sector - we provide you with suitable solutions.

Plant components

Compost covers

Machine technology

Container technology

Measurement technology

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Technical data and illustrations are correct at the time of printing.
Errors and omissions excepted. Subject to printing errors.
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