

# COMPOST TURNER

PROFESSIONAL  
SELF-PROPELLING  
MACHINE

3.5 METER TUNNEL WIDTH.

TURNING CAPACITY:  
UP TO 1000 m<sup>3</sup>/h

## SGF 3100

WITH HYDRAULIC ROLLER DRIVE  
AND 4-WHEEL DRIVE



With composting devices from Gujer Innotec,  
you can produce high-quality, aerobic soil  
nutrition in the shortest possible time.



In 1995, at Gujer Landmaschinen AG, which so far was only focused on repairs and trade, we built our first compost turner in Mesikon ZH, because in the market there was no model that met our needs. With Gujer Innotec we are always guided by technological progress, we attach great importance to quality, ecology and sustainability, in order to provide optimal concepts and customized machines.

*Renato Gujer*

**“Living and working with nature.”**

## Short Description SGF 3100



The SGF 3100 is a compact, powerful, easy-to-use, self-propelled composting machine. It's deal for large companies and municipalities with a composting of 2,000 to 10,000 tons per year

## The Compost



*Healthy humus –  
Healthy plants*

To obtain a high quality soil, some experience and intuition is needed. With the right technique and the adequate machinery, soon an aerobic nutritious humus can be produced and thus a healthy soil, which automatically results in healthy plants, healthy animals and healthy people.

Moreover, a soil rich in humus stores CO<sub>2</sub> naturally, protecting our climate.

Therefore, with composting a nurturing of the soil is achieved rather than of the plants.

**Within five to eight years you can increase the humus content in the soil from one to up to five percent.**

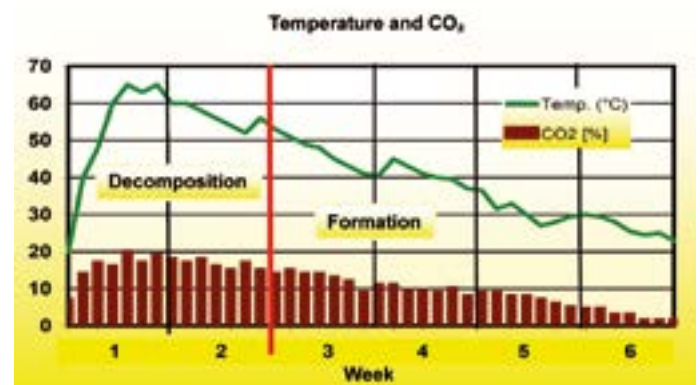


*Perfect crumb structure - microscopic view*

## The Turning

A controlled aerobic composting is recommended. The oxygen content of compost windrow must be observed on a daily basis. The Controlled Microbial Composting (CMC) method uses a substitution test via CO<sub>2</sub>-monitoring. If CO<sub>2</sub> content of a windrow rises above 12%, the oxygen content drops under 5%, and will need to be turned.

The temperature must not rise above 65°C and humidity must be between 50 and 60%. Additional information is available from the composting courses of Urs Hildebrandt: [www.landmanagement.net](http://www.landmanagement.net).



*Temperature and CO<sub>2</sub> in the compost.*

## SGF 3100 – Its Advantages at a Glance

Capacity up to 1000 m<sup>3</sup>/h.

Hydraulic – multi-speed – four-wheel drive allows precise turning in small areas

Height adjustable suspension relief automatic when turning – with skid steer

Easy operation with single lever control and automatic speed control. Enables automated driving.

Sauer Danfoss control panel electronics

150 hp Perkins engine with particle filter complies with the latest emissions regulations.

The massive construction of the tunnel-shaped dome and 6 mm steel achieves great stability and omits any weak points in the structure. In addition the powder coating protects against corrosion.

All the wear plates are made of chromed steel

The transfer shaft is hydraulically driven, multi-speed and reversible (forward and reverse rotation of the shaft) – independent of motor speed.

Overload protection. Driving speed is automatically reduced.

The good turning shaft turns the material from the inside to the outside.

Compact construction; Machine width 4.0 m, rental width up to 3.5 m

Automatic monitoring systems to protect the machine:

- too much / too little hydraulic oil
- hydraulic oil too hot
- too little system pressure
- pressure of the engine oil
- temperature of the motor
- temperature of the water
- rolling pressure

Fast aerobic composting; within 8 - 12 weeks, depending on the material

Many options for retrofit, such as:

- Fleece roller with quick-change system
- Full irrigation system



*With the SGF 3100 a successful composting is achieved easily and quickly. This is due largely to the turning axis that works perfectly and that moves the material from the inside to the outside.*



*Horse manure after 5 weeks.*



*The SGF 3100 is ideally suited for large composting plants.*

## Technical Facts SGF 3100

Capacity from	1000 m <sup>3</sup> /h
Engine power with particle filter	150 hp
Displacement speed	up to 3.5 km/h
Working pressure of the hydraulic (roller)	up to 320 bar
Working pressure of the hydraulic (LS-Pump)	up to 210 bar
Tunnel width	3.0 m
Working width	up to 3.5 m
Overall width without fleece roller	3.9 m
Overall width with fleece roller	4.77 m
Overall length (shields folded) without fleece roller	2.5 m
Overall length (shields folded) with fleece roller	3.5 m
Total height (standing/driving)	3.6/3.85 m
Tunnel height (standing/driving)	1.65/1.85 m
Working Speed, ideal	300 - max. 400 m/h
Weight	5'500 kg
Windrow Width x Height	max. 3.5 x 1.6 m



Fleece roller is hydraulically height-adjustable. In one process, the fleece is simultaneously lifted and replaced. With the quick-change system, the replacement with a new fleece roll is child's play. Thanks to the optional remote control, the winding can be carried out from the outside.



Spacious cabin with left and right door for safety and comfort. Easy to get in and out by folding back the arm rest.

## Basic equipment SGF 3100

2-door cab	Perkins Tier 4i diesel engine (150 hp) with original particle filter
Air conditioning	Control systems for monitoring the hydraulic units and the engine
Heating	Lighting system with 3 LED working lights
Comfort seat	Front and rear windscreen wipers
Single lever operation	Width of tires 26 x 12.00-12 PR
Cruise control	
Radio	



The solid arch construction made of 6 mm steel ensures a very high stability.



The good turning shaft turns the material from the inside to the outside, so that the microorganisms can be replicated everywhere optimally.



15 mm shaft width with 3 fixed screws. The balanced axle ensures long life.



150hp Perkins motor



All wear plates are made of chromed steel.



Particle filter



Easy operation with the one-lever control, cruise control and keypad

Memory function and roller speed

## Options for the SGF 3100

### OPTIONS

Fleece roller hydraulically height-adjustable with quick-change system

Radio remote control for fleece roller (1-man operation)

Easy irrigation with water bar, connection on the left and right side

Electrical switch-off of the water beam via switch in the cabin

Hose reel with in-and-out, automatic control, up to 80 meters

Hose reel with additional hose guide (if desired above 80 meters)

Reserve valve in the valve bank (for retrofits of fleece roller, irrigation etc.)

Electric motor with control cabinet and socket instead of the diesel engine

2 side-view mirrors

Activated carbon filter for cabin

Backup camera

#### Note:

The purchaser is responsible for the country-specific operating permit. Please talk to our advisors.



Equal, effective and efficient loosening of the compost material, so that oxygen can circulate optimally. This ensures an ideal rotting process. From the white line you can see the loosening before and after the turning of the compost material.

## Options for the SGF 3100



*Fleece roller hydraulically height-adjustable with quick-change system*



*Water sprayer with nozzles. To achieve an optimal microorganism climate within the mound, the addition of water is essential.*



*Hose reel with automatic hose guide. Winds hoses in-and-out up to 80 meters.*



*Single swiveling, hydraulic shields ensure clean troughs.*



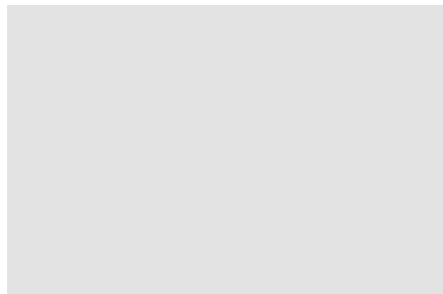
*Width of tires 26 x 12.00-12 PR*



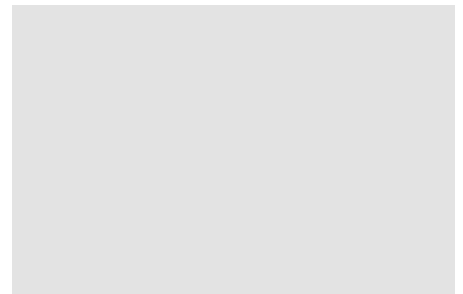
*Exterior mirror for optimal view of the roller*



*Easy to roll and unroll fleece with the remote control*



*The active carbon filter for the cabin ensures clean air conditions.*



*Backup camera*



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Learn about our attractive option packages.

[www.berca.es](http://www.berca.es)



**Your contact person**

**Consulting and sales**

**Bernd Fenka**  
Tel. +34 691120684  
bfernkab@bercas.es

**Guzman Carril**  
Tel. +34 606410413  
guzman@berca.es

Reserve the right to make technical changes.  
The images do not always correspond to the basic equipment.  
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