

Achieve High-Quality Compost with Gujer Compost Turning Machines



SGF 3100
The heavy duty self-propelled model
at a reasonable price

Compost Turner SGF 3100

Our completely redesigned compost turners are lightweight and compact with an independent hydraulic drumdrive. Various models are available: tractor-pulled, bucket loader-driven or self-propelled units.

The technology

- ▶ Easy to operate, mechanically propelled model (TG 301 mechanical)
- ▶ Hydraulically propelled models (TG 301 und TG 201)
- ▶ Fully hydrostatic model SGF 3100 (SF 3400 and 4000 in separate brochure)

Built with heavy duty components such as:

- ▶ Saurer Danfoss
- ▶ Perkins engines etc.



The core of each compost turner is the heavy duty and state-of-the-art drum.



Why turn compost?

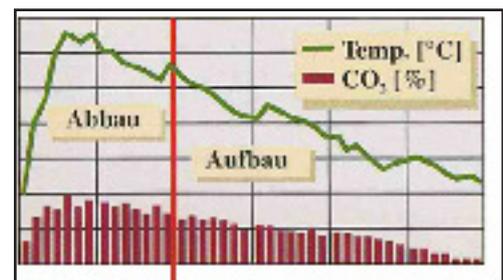
Our turners, your advantage:

- ▶ Low maintenance cost because of our high quality manufacturing sturdy construction and optimized design! Contact us and we will be pleased to explain the advantages to you.
- ▶ easy operation and handling
- ▶ gentle drum action preserves the crumb structure
- ▶ No odor! Our equipment, in combination with the proper composting method ensures optimized material condition, thus guaranteeing an aerobic composting process, which produces no offensive odors.
- ▶ Minimized wear on (gravel) roads due to our side-swivel counterweight (TG 301)
- ▶ Many options for customization
- ▶ Optimal control of windrow position through lateral shifting appliance; your windrow always stays where it should (option)



Krümelstruktur 1 : 50

The oxygen content of compost windrow must be observed on a daily basis. The Lübke-Hildebrandt composting method uses a substitution test via CO²-monitoring. If the CO² content of a windrow rises above 12%, the oxygen level drops under 5%. An aerobic rotting process requires at least 5% oxygen. Therefore the windrow must be turned as soon as the CO²-content rises above 12%. Even during long term storage of mature compost, the CO²-production of the final product must not exceed 1%.



Temperature and CO₂ in the compost windrow

This machine has especially been developed for companies, which would like to produce optimal compost (Nourishment/Quality)



This model is powered by a four wheel drive which allows a turning of the machine on smallest space. In addition to the 4 wheel drive, the machine is equipped with a supporting chassis to maneuver the machine with the skid steering.

The turbocharged Perkins engine with 150hp and a particulate filter matches the newest emission regulations.

Working with a self-driving machine has never been easier. The Joystick-steering with automated pace control allows automated driving via „Sauer“ electronic control.

The core of the machine, the drum, conveys the material inside out and therefore ensures an ideal mix and fast retting process.

The hydraulically driven drum is continuously adjustable and reversible independent of the engine speed. The chassis with automatical load relieving can be height adjusted.

Control systems (standard)

The many standard control systems prevent the machine from damage.

Surveillance of the hydraulic components:

- ▶ too much and too little hydraulic oil
- ▶ temperature of the hydraulic oil
- ▶ too little system pressure

Surveillance of the engine:

- ▶ control of motor oil pressure
- ▶ engine temperature
- ▶ water temperature

Options

- ▶ easy watering system with watering lines and water supply on both sides
- ▶ sprayer system with 60lt tank & sprayer lines
- ▶ Fleeceroller with easy coupling system
- ▶ hose reel with automatical rolling up and unwinding up to approx. 80m (over 80m with additional hose guidance)

Technical Data

with particulate filter	150 hp
working width	up to 3.7 m
hydraulic pressure	up to 320 bar
working pace	< 400 m/h
weight	5300kg
total width	4.0m
total height	3.6-3.85m
capacity	< 800m ³ h



Your advantage

- ▶ Technology - only as much as needed
- ▶ Excellent price-performance ratio
- ▶ Long-life cycle
- ▶ Easy operation and handling
- ▶ Sturdy tunnel construction
- ▶ Gentle turning, to ensure the protection of the crumb structure
- ▶ automatic protection system for engine and hydraulic components



perkins engine with particulate filter 150hp



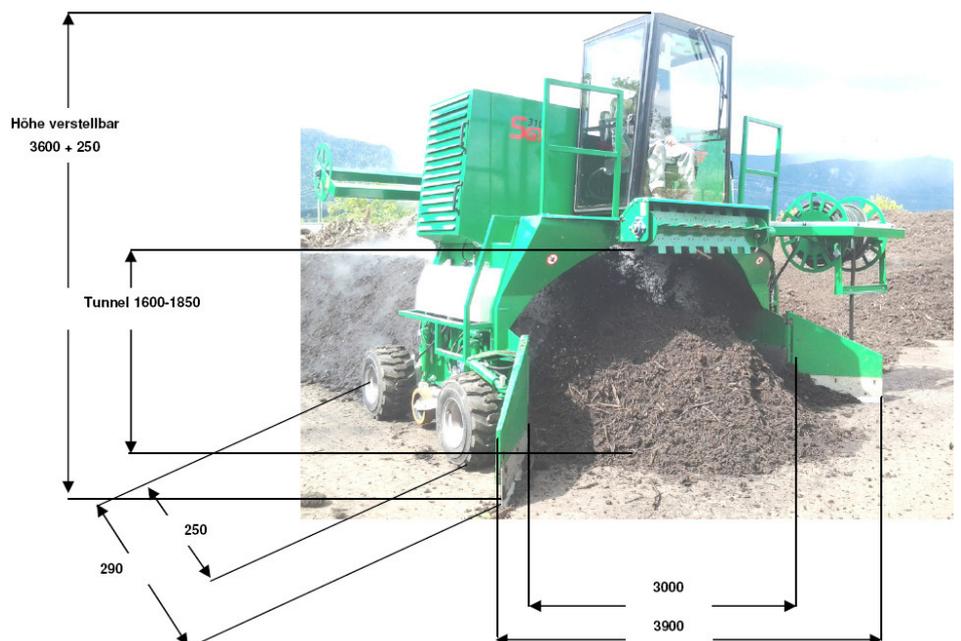
Hydraulic 4 wheel drive. Compact design. Windrow width up to 3.5m, Overall width of the machine 3.5m = optimal space utilisation



Handling with Joystick and Keypad



Dimensions





Spacious space conditions

The newly produced 2-door cabine is equipped with many extras: heating and air conditioning system, comfort seat, 4 LED working lights, front and rear windscreen wipers, 2 mirrors. The cabine with its spacious design offers a lot of legroom. For your safety and comfort, the cabine has a door on each side of the machine.



Consistent loosening of the compost material

You can recognise the effective and efficient loosening of the windrow by the white line in the picture on the left. The material is equally mixed and an optimal retting process occurs.



Turning compost and unwinding the fleece simultaneously

With our compost turning machine SGF 3100 the windrow can simultaneously be turned over and covered with the fleece.



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