

TOPTURN X

Turner for
triangular windrows





OVERVIEW

Self-propelled turner for triangular windrows

In windrow composting, regular turning is critical for proper processes. The Topturn X is one of the most widely used compost turners in the world, with a line of turners configured for the most common windrow sizes and designed to be practical. With its sturdy frame, powerful hydraulics and large drum, the Topturn X is ready to handle any work situation. A comfortable cabin with power lift and maintenance platforms that fold out hydraulically are further plus points.

- ▶ Telescoping frame in tough, torsion-resistant construction
- ▶ Extra-large turning drum for high throughput and excellent mixing
- ▶ Wheel or track chassis
- ▶ Easy maintenance access with platforms integrated in the body

Engine power (kW)

151



310

Windrow width (m)

4.5



6.0

Throughput (m³/h)

3,000



5,000

Wide range of applications



01 Composting green cuttings, organic waste, fermentation residue, agricultural and forestry waste

In windrow composting, the rotting process is controlled through periodic turning. Turning improves ventilation and gives better mixing of the different rotting zones. This evens out differences in dampness and nutrients, creating ideal living conditions for the microorganisms that break the material down into compost. An efficient irrigation system is available if extra moisture is needed.

02 Composting of household waste, residual waste, sewage sludge

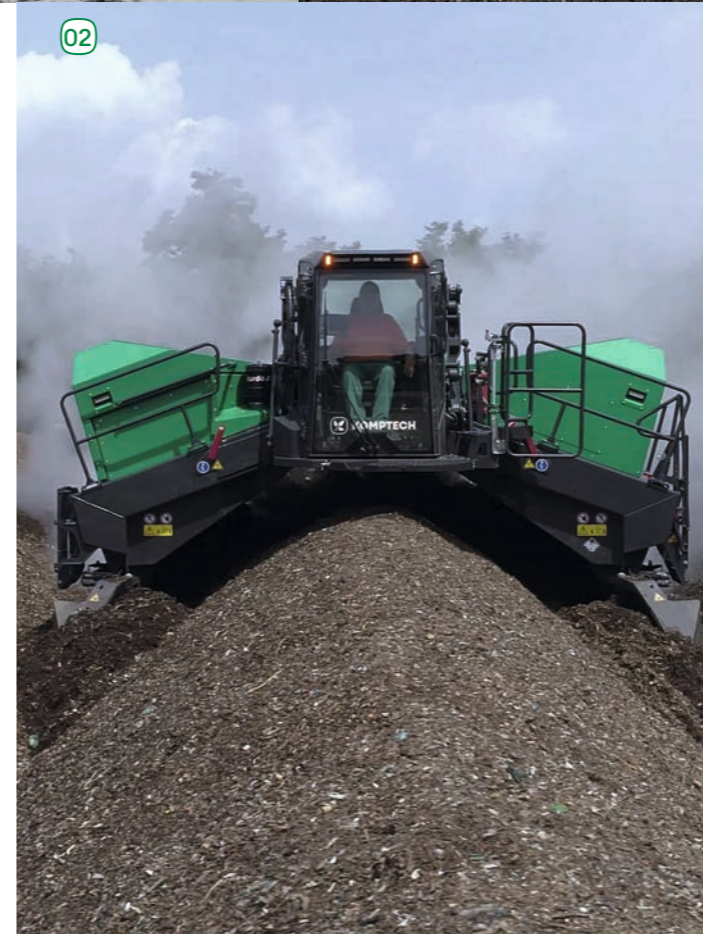
The big drum with conveyor and winnowing elements, combined with the powerful drive, results in the creation of perfect windrows even from high-density materials. Loosely layered, with a triangular cross-section, the windrow keeps itself supplied with the necessary fresh air through the chimney effect. The material breaks down aerobically, and odour emissions are prevented.

03 Processing of contaminated earth

Ready for special cases: With protective ventilation by means of overpressure and an air filter for the cab, and a powerful cooling system for the engine and hydraulics, the operator and the machine are well able to work in closed halls, high temperatures and other conditions.

04 Mixing ores and earths

For mixing abrasive materials, such as metallic ores, the Topturn X can be fitted with an armoured drum and wear-resistant cladding of exposed areas. Curtains can be hung around the turning area to reduce dust.



The machine in detail

Komptech stands for quality, reliability and value retention. That means that from the engine to drum to the chassis, only top-quality components are used throughout the Topturn X.



01



Drive

- Modern Caterpillar diesel engines in three power levels
- Hydraulic drive with separate circuits for driving and drum functions
- High-performance cooling system

02



Frame

- Designed for heavy-duty use
- Drum mounted on the frame for stability.
- Telescoping frame for freedom of movement in any situation

03



Lifting cab

- Compact dimensions, minimal transport heights
- Convenient entry from the ground
- Excellent all-round view through central cab working position

04



Drum

- Large diameter for effective mixing
- Steplessly adjustable speed, reversing
- Wear-resistant blades, usable twice

05



Operation

- Comfortable cab with ergonomic workplace
- Load-dependent automatic drive with operating condition monitoring
- Simple and logical joystick control

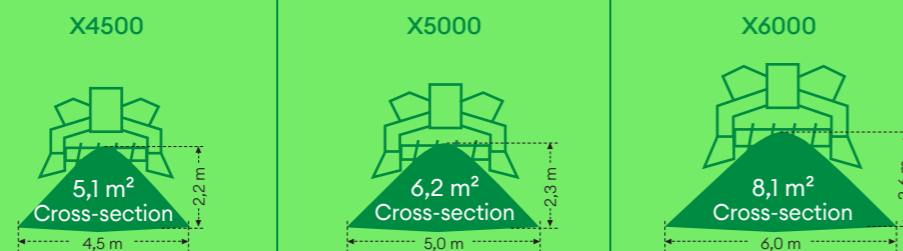
06



Maintenance

- Side panels open wide to serve as maintenance platforms
- Integral service steps for easy access
- Option: Automatic central lubrication

Windrow size (Standard ploughs)





Mobility versions

The right way to move

Wheel or track drive? Which chassis is better suited to the site conditions is at the decision of our customers. We offer the Topturn X in both versions.



Topturn X Wheel

Wheel chassis

Wheels are ideal on paved surfaces. The force is distributed evenly on all four wheels. Traction is high, the vehicle can turn around in place and reposition quickly, and driving comfort is excellent.

- Tough special tyres with long service life
- High operator comfort through shock-absorbing effect of the tyres
- Fast repositioning in 2nd gear, up to 6 km/h

Track chassis

On unpaved surfaces, tracked is the way to go. The drive power dependably propels the turner even on difficult ground. The tracks are freely accessible for simple cleaning.

- Wide tracks for low ground pressure
- Open tracks for easy cleaning
- Wear-resistant tread pads with self-cleaning function



Topturn X Track

Turning well turned out

A large-dimensioned drum with effective mixing and throwing blades, and powerful hydraulic drive, make turning fast and rotting efficient. Everything gets mixed through; nothing slips past the drum. The blades can be rotated 180 degrees when they get worn, for a whole new use cycle before needing to be replaced.

Plough-shaped guides bring the material into the intake area and keep the lane clean. Their heavy duty construction permits work in overlapping windrows. When the situation calls for it, a central telescope on each side can lift the drum and frame up to 380 mm over the chassis.





AT WORK

In daily use

Lift off for work

Startup is safe and easy. The operator enters the cab through the front window, which is also a door. Two hydraulic arms then lift the cab from the entry position on the ground to the working position centred over the tunnel.

A comfortable workplace

Centred over the windrow, with a good view to all sides, the operator has everything under control. The tinted soundproof glass and automatic climate control with overpressure, load-dependent drive and lane guidance make the work easy.

Ideal maintenance access

A press of a button transforms the left and right body panels into roomy maintenance platforms with convenient access steps, so personnel can reach all maintenance points safely and easily.

Minimal setup times

Simply fold in the plough blades hydraulically, turn them into the tunnel and lock them, move the cabin to transport position, and the Topturn is ready to travel for multi-site use.




Thoughtful options

The “Fast” versions of the wheel chassis have a second gear for fast positioning. Irrigation is provided by a high-performance hose system, which the turner unrolls, or is rolled onto a drum by remote control. Also available: XL plough blades for wider windrows (plus 200 mm), a scraper bar to catch the bottom windrow layer, throwing limitation, bird’s eye view camera system, and much more.





Always know what’s going on

Our freely usable Connect! app enables transparent administration, optimum job planning and remote monitoring of machines. GPS provides exact position data, and by exporting the data history the economy of the machine can be continuously monitored and improved.

Functions

-  Drum speed
-  Automatic drive mode
-  Lane guidance

Operation

-  Info center
-  Self check programs
-  Lighting
-  Condition Monitoring

Options

-  Camera
-  Speed selection
-  Irrigation
-  Throwing limitation



SERVICE

The Komptech plus



Top advice

We'll show you how to optimize your processes, based on our experience and extensive data analyses.



Service near you

Expert technicians are on-site quickly to make sure your machines keep running.



Spare parts always available

Intelligent stocking for the fast, economical provision of high-quality spare parts.



All-in solutions

From individual mobile machines to complex stationary systems, with us you get the right process solution.



Productivity in view

Apps and integrated monitoring let you keep an eye on operating data and economy.



Need-based service

Our maintenance and service agreements, as well as extended warranties, are aligned with your needs.

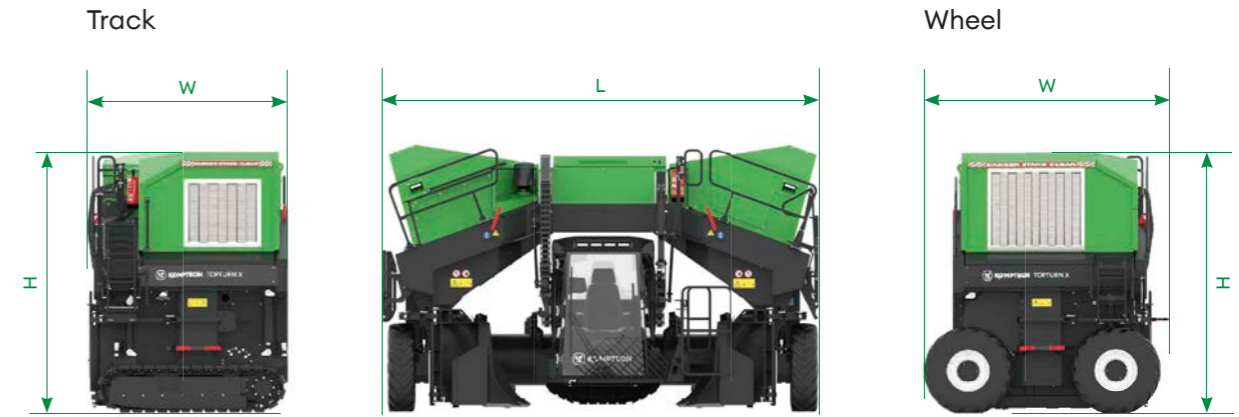
Overview of our technology



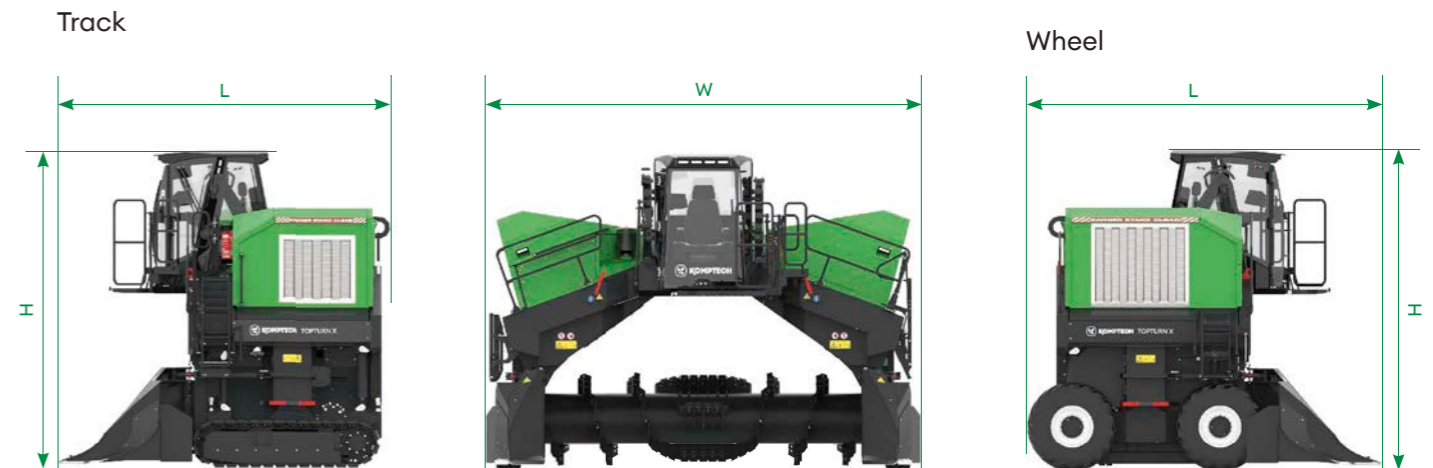
Look here for the newest updates, specifications and more detailed descriptions:

Model	X4500	X5000	X6000
Engine			
Manufacturer	Caterpillar	Caterpillar	Caterpillar
Power (kW/HP)	205/278	205/278 or 250/340	310/420
Umsetzvorrichtung			
Windrow width (mm)	4,500	5,000	6,000
Max. windrow height (mm)	2,200	2,300	2,600
Windrow cross-section at 45° repose angle (m²)	5.1	6.2	8.9
Turning unit			
Turning drum diameter (mm)	1,200	1,200	1,400
Turning drum rpm	0-195	0-195	0-208
Dimensions transport/working position			
Transport Wheel – L x B x H (mm)	4,851 x 2,996 x 3,319	5,357 x 2,996 x 3,324	6,357 x 2,996 x 3,660
Working Wheel – L x B x H (mm)	4,484 x 5,080 x 4,056 (+380)	4,484 x 5,580 x 4,056 (+380)	4,484 x 6,577 x 4,456 (+380)
Transport Track – L x B x H (mm)	4,851 x 2,550 x 3,288	5,357 x 2,550 x 3,293	6,357 x 2,550 x 3,635
Working Track – L x B x H (mm)	4,126 x 5,080 x 4,025 (+380)	4,124 x 5,580 x 4,025 (+380)	4,248 x 6,577 x 4,415 (+380)
Weight			
Wheel (t)	14.5	16.5	19.5
Track (t)	15		20
Throughput			
Max. throughput (m³/h)	3,000	4,000	5,000

Transport position



Working position



Never waste an opportunity

KompTech GmbH
Kühau 37
8130 Frohnleiten, Austria
+43 3126 505 - 0
info@komptech.com

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We create value for you



Waste-stream expertise

Because you need a
setup that's tailored to
your waste stream.



Innovative technology

Because you need to
adapt your output to
your market needs.



Flexible sales models

Because you have the
choice between new, rental
and used machines.



Service excellence

Because you always
need to keep your
system running.