

SAVE FUEL AND PROTECT THE SOIL

TERRA CARE



Save fuel and protect your soil with TERRACARE

The Company TERRACARE in Upper Austria develops and produces central tire inflation systems that combines both tractor and trailer as one unit which is unique to the market.

„Thanks to our practical experience, we have taken a step further and developed a system that not only works on the tractor, but also supplies all attached trailers with the right tire pressure“

Michael Preuner, Leiter der Entwicklung und Produktion.



With a diesel consumption of 20,000 €/year, a tire pressure regulator can bring savings up to 2,000 €/year.

(source: University of Applied Sciences Südwestfalen, Volk, Denker, Rose, 2001)

The better concept.

TERRACARE solves the problem of adjusting the tire pressure in agricultural vehicles with a new concept: Reduced tire pressure will cause less damage on soft grounds, especially with fully loaded trailers.

In order to be able to control the tire pressure of tractor and attached devices, TERRACARE uses an additional air supply and storage. The system's patented front tank serves as an air reservoir and as platform for an additional air compressor that fills the tank with 1,080 or 2,500 litres per minute of suction at max 15 bar.

The TERRACARE Concept makes it possible to fill the tractor and trailer tires in little time e.g. from 0.8 to 2.1 bar.

Benefits of TERRACARE at one glance:

- ▶ Single control operates tractor & trailer
- ▶ Can be retrofitted for any number of tractors and trailers
- ▶ stainless-steel components for maximum durability and lifetime
- ▶ maintenance-free pivot bears
- ▶ slope compensation
- ▶ redundant pressure measurement
- ▶ Quick changeover thanks to simple and well thought-out components
- ▶ individual customer solutions
- ▶ multiple solutions for compressors

MORE PRESSURE ON THE STREET



- ▶ less wear and tear
- ▶ lower fuel consumption
- ▶ safer operation

LESS PRESSURE ON SOFT GROUND



- ▶ sustainability healthy and well-ventilated soil
- ▶ optimise tyre tread for maximum traction
- ▶ improve comfort, reduce wear and tear



Building blocks of TERRACARE



1

The air needed for the system is supplied either via the compressor of the tractor or an additional compressor, which is also used as a front weight.



2

The patented accumulator is available with 30 or 180 litres of volume. A piston compressor with a suction capacity of 1,080 l/min provides the required air supply.
Alternative: screw compressor



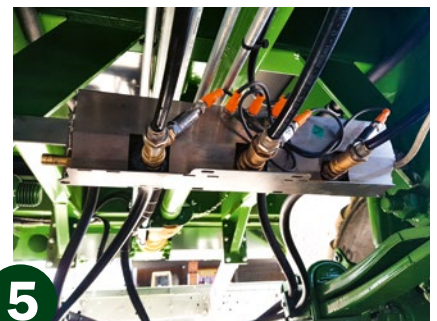
3

There are 3 possible driving ranges. Road, field 1 and field 2 It is possible to make pre-sets of the various pressures. In addition the system automatically adjusts tyre pressure relative to the speed. Furthermore settings of each device is saved.



4

The stainless-steel pipes are sealed to the axis by silicon carbide disks. No Lubrication is necessary and there is no wear and tear. In addition, a "predetermined breaking point" prevents the lines from tearing off.



5

Easy-to-assemble control boxes made of stainless steel, which are installed on the tractor and the attached device, distribute the pressure on the axles. These are controlled by switch boxes. Pressure setpoints are stored directly on the device control and are available when connected again.

”

„Each central tire inflation system is an investment in more soil protection, better diesel efficiency, greater ride comfort, better climate protection and safety!“

Dr. Volk, University of Applied Sciences Südwestfalen



TERRA CARE GmbH
Winteredt 12
A-4872 Neukirchen/Vöckla
Austria

+43 (0)660 157 987 2
+43 (0)699 11 10 99 74
v.schausberger@terra-care.at
m.preuner@terra-care.at

TERRA CARE

Das innovative Reifendruckregelsystem